UNIVERSITATEA TEHNICĂ ”GHEORGHE ASACHI” DIN IAȘI
FACULTATEA DE MECANICĂ
Domeniul: Inginerie Mecanică
Programul de studii: Inginerie Mecanică
Durata studiilor: 4 ani
Forma de învățământ: studii universitare de licență, cursuri cu frecvență
Seria: 2025-2029

Anexa cuprinde Lista de lucrări pentru cadrele didactice titulare ale disciplinelor din planul de învățământ al domeniului Inginerie Mecanică

Nr. crt.	Cadrul didactic	Funcția didactică
1	Abălașei Cătălin	Lector dr.
2	Agape Iulian	Șef lucrari dr. ing.
3	Alexa Elena-Lidia	Conf. univ. dr. ing.
4	Andrușcă Liviu	Conf. univ. dr. ing.
5	Asandului Gabriel	Conf. univ. dr. ing.
6	Barna Ana Simona	Șef lucrari dr. ing.
7	Bejinariu Costică	Prof. univ. dr. ing.
8	Blanari Igor	Șef lucrari dr. ing.
9	Bobu Roxana	Lector dr.
10	Brînzilă Marius Ciprian	Conf. univ. dr. ing.
11	Budescu Emil	Conf. univ. dr. ing.
12	Bujoreanu Carmen	Prof. univ. dr. ing.
13	Bumbu Neculai Eduard	Asist. dr. ing.
14	Cârlescu Vlad	Conf. univ. dr. bioing.
15	Cazac Alin-Marian	Șef lucrari dr. ing.
16	Cazacu Magda-Cristina	Șef lucrari dr. ing.
17	Cazan Stelian	Șef lucrari dr. ing.
18	Chifan Florin	Șef lucrari dr. ing.
19	Chiriac Bogdan	Șef lucrari dr. ing.
20	Ciobanu Iulia Brîndușa	Conf. univ. dr. ing.
21	Ciobanu Margareta-Gabriela	Șef lucrari dr. ing.
22	Ciofu Ciprian-Dumitru	Conf. univ. dr. ing.
23	Condurache Daniel	Prof. univ. dr. ing.
24	Coteață Margareta	Conf. univ. dr. ing.
25	David Ana-Maria	Șef lucrari dr. ing.
26	Dîrțu Evagrina	Conf. univ. dr. ing.
27	Donțu Andrei Ionut	Șef lucrari dr. ing.
28	Doroftei Ioan	Prof. univ. dr. ing.
29	Ermolai Vasile	Asist. univ. dr. ing.
30	Franke Bianca Iuliana	Șef lucrari dr. ing.
31	Goanță Viorel	Prof. univ. dr. ing.
32	Grigoraș Ștefan	Prof. univ. dr. ing.
33	Grigorean Ștefan	Șef lucrari dr. ing.
34	Homutescu Vlad-Mario	Prof. univ. dr. ing.
35	Horbaniuc Bogdan	Prof. univ. dr. ing.
36	Iacob-Strugaru Sorin Claudiu	dr. ing.
37	Ianuș Gelu	Conf. univ. dr. ing.
38	Ignătescu-Manea Irina	Șef lucrari dr. ing.
39	Ionuț-Viorel Herghiligiu	Prof. univ. dr. ing.
40	Iordache Constantin Răzvan	Șef lucrari dr. ing.
41	Jitaru Oana	Lector dr.
42	Lupu Fabian Cezar	Șef lucrari dr. ing.

43	Mămăligă Andrei	Asist. drd. ing.
44	Mardare Irina	Șef lucrari dr. ing.
45	Merticaru Eugen	Șef lucrari dr. ing.
46	Mocanu Florentina	Prof. univ. dr. ing.
47	Morăraș Ciprian Ionuț	Șef lucrari dr. ing.
48	Munteanu Adriana	Conf. univ. dr. ing.
49	Munteanu Corneliu	Prof. univ. dr. ing.
50	Năstase Eugen-Vlad	Șef lucrari dr. ing.
51	Nechifor Cristina Delia	Lector dr.
52	Olaru Dumitru	Prof. univ. dr. ing.
53	Păduraru Emilian	Asist. univ. dr. ing.
54	Paleu Viorel	Prof. univ. dr. ing.
55	Panţiruc Marian-Dumitru	Lector dr.
56	Pavăl Mihai-Silviu	Asist. univ. dr. ing.
57	Popescu Andrei	Șef lucrari dr. ing.
58	Popescu Aristotel	Prof. univ. dr. ing.
59	Popescu Gabriel	Conf. univ. dr. ing.
60	Prună Liviu	Conf. univ. dr. ing.
61	Romaniuc Simona Luiza	Conf. univ. dr. ing.
62	Sandovici Adrian	Prof. univ. dr. ing.
63	Stamate Vasile Ciprian	Conf. univ. dr. ing.
64	Stanciu Tudor	Conf. univ. dr. ing.
65	Tăbăcaru Liviu Lucian	Prof. univ. dr. ing.
66	Tărniceriu Carmen-Oana	Conf. univ. dr. ing.
67	Tcaciuc Gabriel-Dumitru	Asist. drd. ing.
68	Tufeanu Magda	Lector dr.
69	Tufescu Ana	Conf. univ. dr. ing.
70	Ursan George Andrei	Șef lucrari dr. ing.
71	Ursan Maria	Șef lucrari dr. ing.

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **ABĂLAŞEI CĂTĂLIN PETRONEL**

A. Teza de doctorat.

Instituţie: Universitatea Tehnică "Gheorghe Asachi" din Iaşi, Facultatea de Mecanică
Perioada: 2007 - 2011
Coordonator: prof.dr.ing. Vasile Merticaru
Titlul tezei: *Mecanism de recuperare post-traumatic la nivelul articulatiei gleznei*
Titlul: Doctor în Inginerie Mecanică, diploma seria H nr. 0005671/2012

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. **Abălaşei C.**, *Calculul transmisiei de lant al mecanismului de recuperare post-traumatic la nivelul articulatiei gleznei,* Buletinul Institutului Politehnic din Iasi, Tomul LV (LIX), Facs. 4, 2009.
2. **Abălaşei C.**, *Tehnica - factor determinant in fotbalul modern,* Buletinul Institutului Politehnic din Iasi, Tomul LV (LIX), Facs. 4, 2009.
3. **Abălaşei C.**, *Sisteme mecanice pentru recuperare post-traumatică la nivelul articulaţiei gleznei*, 2008, Buletinul Institutului Politehnic, Iaşi.
4. **Abălaşei C.**, *The structure, description and functioning of the post-traumatic rehabilitation on the ankle articulation mechanism,* Buletinul Institutului Politehnic din Iasi, Tomul LIV (LVIII), Fasc. 3, 2008.
5. **Abălaşei C.**, *Structura, alcatuirea si functionarea sistemului de recuperare post-traumatica la nivelul articulatiei gleznei*, Buletinul Institutului Politehnic din Iasi, 2008.
6. **Abălaşei C.**, *Sisteme mecanice pentru recuperare post-traumatică la nivelul articulaţiei gleznei*, 2008, Buletinul Institutului Politehnic, Iaşi.
7. **Abălaşei C.**, *Comportamentul colectiv in cadrul manifestărilor sportive,* 2007, Buletinul Institutului Politehnic, Iasi.
8. **Abălaşei C.**, *Formal, nonformal, informal în educaţie fizică şi sport*, Buletinul Institutului Politehnic, Iaşi, 2004.
9. **Abălaşei C.**, *Strategii de negociere în fotbalul de performanţă*, publicată în revista Sport şi societate, Ed. Altyus Academy, ISSN 1582-2168, Iasi, 2002.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. **Abălaşei C.**, *Fotbalul- intre simbolism, culoare si strategii de marketing*, Sesiunea

Internationala, Universitatea „Al.I. Cuza" iasi, 2008.
2. **Abălaşei C.**, (*coautor) Studiu de diagnoza a implementarii Procesului Bolgna in facultatile de Educatie fizica si Sport*, Ed Demiurg 2008, Iasi.
3. **Abălaşei C.**, *(coautor) Repere privind semnificaţia şi implementarea Procesului Bologna în sistemul de învăţământ românesc,* Sesiune de comunicări ştiinţifice Internaţională, Suceava, septembrie, 2008.
4. **Abălaşei C.**, *Sistem mecanic pentru recuperarea post – traumatică la nivelul articulaţiei gleznei*, sesiune de comunicări ştiinţifice, Piteşti, publicată în vol. Nr. 11 (1/2007), Ed. Universităţii din Piteşti, ISSN: 1453-1194, 2007.
5. **Abălaşei C.**, *Sistem mecanic pentru recuperarea post – traumatică la nivelul articulaţiei gleznei*, sesiune de comunicări ştiinţifice, Piteşti, publicată în vol. Nr. 11 (1/2007), Ed. Universităţii din Piteşti, ISSN: 1453-1194, 2007.
6. **Abălaşei C.**, *Pregătirea fizică a mijlocaşilor, la juniori I,* Volumul sesiunii ştiinţifice al Catedrei de Educaţie fizică şi Sport, Universitatea, „Gh. Asachi" Iaşi, 2003.

J. Invenţii.

1. Brevet de invenţie nr.A/00434 DI 29.07 2010, *Mecanism de recuperare post-traumatică la nivelul articulaţiei gleznei*

K.Contracte de cercetare.

1. Membru in proiectul „Optimizarea Procesului Bologna in Educatie Fizica si Sport", specializare Educatie fizica si sportiva, CNCSIS 1415, director proiect Iacob Ioan, 2006-2008

L. Premii, distincţii.

1. Medaliat cu aur la THE XIV TH INTERNATIONAL EXHIBITION OF RESEARCH, INNOVATION AND TECHNOLOGICAL TRANSFER „INVENTICA 2010"
2. Posesor al diplomei oferite de UNIVERSITATEA DE STAT DE MEDICINĂ ŞI FARMACIE ,,NICOLAE TESTEMIŢANU'' din Chişinău, pentru merite deosebite în activitatea de inventică şi elaborare

M. Alte realizări semnificative.

1. Antrenor al reprezentativei de fotbal a Universităţii „Tehnice Gh. Asachi" Iaşi, cu care am participat la Cupe Bergenbeer, ocupând locul III.
2. Organizator de competiţii la nivel de facultate (Hidrotehnică, Geodezie şi Ingineria Mediului)
3. Câştigător al Campionatului „Cartiere Studenţeşti"- iunie 2008.
4. Organizator în colaborare cu Primăria Iaşi al Competiţiei de fotbal – tenis între universităţile din Iaşi -2009-2010.
5. Organizator al Competiţiei de Fotbal între studenţii facultăţilor din cadrul Univ. Tehnice Ghe. Asachi din Iaşi.

Data,
11.02.2025

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **Iulian Agape**

A. Teza de doctorat.

1. „Contributii la studiul uzurii motoarelor cu ardere interna in conditii medii si severe de exploatare",septembrie 2008, Domeniul „InginerieMecanică ", Universitatea Tehnică „Gheorghe Asachi" din Iași, conducător doctorat: prof. emerit dr. ing. Radu Gaiginschi

E.Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. . **Iulian Agape** ,*"Combustibili,lubrifianti si materiale speciale pentru A.R."* – suport de curs ,in sistem e-learning pe platforma www.didatec.ro, (POSDRU/87/1.3/S/60891/2013);140 paghttp://www.didatec.ro/AllCourses.aspx, 140 pag ;
2. **Iulian Agape** , *„Sisteme moderne de transport marfuri* " – curs masterat (an II STA) in sistem e-learning, pe platforma www.easyclass.com , 225 pag;
3. **Iulian Agape ,** *„Impactul energetic al sistemelor de transport asupra resurselor energetice* " - curs masterat (II STA) in sistem e-learning, pe platforma www.easyclass.com, 137 pag;
4. **Iulian Agape** , *„ Combustibili,lubrifianti si material speciale pentru A.R* " – indrumar pentru lucrari de laborator , in sistem e-learning, pe platforma www.didatec.ro, (POSDRU/87/1.3/S/60891/2013); 30 pag.

F.Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. **I Agape**, AI Dontu, A Maftei, L Gaiginschi, PD Barsanescu, *Actual types of sensors used for weighing in motion*, IOP Conference Series: Materials Science and Engineering 572 (1), 012102(2019)
2. A Maftei, AI Dontu, L Gaiginschi, **I Agape**, *Influence of speed bumps on braking distance,* IOP Conference Series: Materials Science and Engineering 572 (1), 012098 (2019)
3. T Ulian, V Vornicu, E Rakosi, G Manolache, S Talif, **I Agape** *The study of the performance improvement possibilities by using the principle of zonal cooling for the automotive engine* IOP Conference Series: Materials Science and Engineering 444 (7), 072015 (2018)
4. L.Gaiginschi, **I.Agape**, S.Talif, *Upon the reconstruction of accidents triggered by tire explosion. Analytical model and case study (2017),* **Book Series:** IOP Conference Series-Materials Science and Engineering, **Volume:** 252, **Article Number:** UNSP 012016, **DOI:** 10.1088/1757-899X/252/1/012016
5. I.Agape, L. Gaiginschi, G.Ianuş, N.Cimpoeşu*, The Analysis of an Internal Combustion Engine Breakdown -Case Study, (*2017) **Book Series:** IOP Conference Series-Materials Science and Engineering, **Volume:** 209, **Article Number:** 012077, **DOI:** 10.1088/1757-899X/209/1/012077
6. T Ulian, V Vornicu, E Rakosi, S Talif, **I Agape**, *The physically-mathematically model for studying the thermal regime of the spark ignition engine concerning the filling coefficient,*

IOP Conf. Series: Materials Science and Engineering 252 (2017) 012076 doi:10.1088/1757-899X/252/1/012076

7. Gaiginschi Lidia, **Agape Iulian**, *Upon an issue of correlation between the running speed of vehicles and traffic capacity of a road section (2016),* **Book Series:** IOP Conference Series-Materials Science and Engineering, **Volume:** 147, **Article Number:** UNSP 012118 **DOI:** 10.1088/1757-899X/147/1/012118
http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012118/pdf

8. **Iulian Agape**, Lidia Gaiginschi, Radu Gaiginschi, Daniel Baltagiu, *Upon a simple method for generating transversal profile of the volumic blower rotor used in supercharging Internal Combustion Engines*, Ingineria Automobilului nr.38, martie 2016, pag.22-25 ISSN 1842-4074, Publisher SOC AUTOMOTIVE ENGINEERS ROMANIA
http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F452GBQj6BcLU4mirAR&page=1&doc=4&cacheurlFromRightClick=no

9. Gaiginschi Lidia, **Agape Iulian**, Sachelarie Adrian, Girbaci Mihai-Alin, *Virtual High Speed Diesel Engine – a Simulated Experiment. Part I:Combustion Dynamics,* Applied Mechanics and Materials Vol. 659 (2014) pp 189-194, Trans Tech Publications, Switzerland, doi:10.4028**10.4028/www.scientific.net/AMM.659.189**
http://www.scientific.net/AMM.659.189 (BDI: Scopus)

10. Gaiginschi Lidia, **Agape Iulian**, Sachelarie Adrian, Girbaci Mihai-Alin, *Virtual High Speed Diesel Engine – a Simulated Experiment. Part II:The Influence of Polytropic Exponent upon Combustion Product Formation,* Applied Mechanics and Materials Vol. 659 (2014) pp 195-200, Trans Tech Publications, Switzerland, doi: **10.4028/www.scientific.net/AMM.659.195**
http://www.scientific.net/AMM.659.195 (BDI: Scopus)

11. Girbaci Mihai-Alin, **Agape Iulian**, Gaiginschi Lidia, *Effects of Temperature Distribution on Operational Parameters of a Spark Ignition Engine,* Applied Mechanics and Materials Vol. 659 (2014) pp 201-204, Trans Tech Publications, doi:10.4028**10.4028/www.scientific.net/AMM.659.201**
http://www.scientific.net/AMM.659.201 (BDI: Scopus)

12. Vasile-Lucian Leonte, Lidia Gaiginschi, **Iulian Agape**, *Sizing methods of an engine air intake hood scoop,* Buletinul Institutului Politehnic din Iasi, Tomul LX (LXIV), Fasc. 4, 2014, Secţia Construcţii de Maşini, pp.73-85, ISSN : 1011-2855 (BDI : Index Copernicus International, Ulrichs)

13. Vasile-Lucian Leonte, Lidia Gaiginschi, **Iulian Agape**, *Physico-mathematical modeling of the intake process in internal combustion engine - Part 1,* Buletinul Institutului Politehnic din Iasi, Tomul LXI (LXIV), Fasc. 1, 2015, Secţia Construcţii de Maşini,pp.31-46 ISSN : 1011-2855 (BDI : Index Copernicus International, Ulrichs)

14. **Iulian Agape**, Lidia Gaiginschi, Adrian Sachelarie, Vasile Hantoiu, *Usage of spline function method for generalization of the deformation coefficient model,* Buletinul Institutului Politehnic din Iasi, Tomul LVIII (LXII), Fasc. 3, pp.95-103, 2012 Secţia Matematică. Mecanică teoretică. Fizică; ISSN : 1011-2855 (BDI : Index Copernicus International, Ulrichs)

15. Lidia Gaiginschi, Radu Gaiginschi, **Iulian Agape**, Vasile Hantoiu, *Researches Regarding Impact Energy Dissipation by breaking for Front – Rear Collisions*, Ingineria Automobilului, no.18/march 2011, pag.20-23, http://www.ingineria-automobilului.ro/reviste/Ingineria_18_en.pdf#page=20 , ISSN 1842-4074, (BDI : index Copernicus)

16. Lidia Gaiginschi, Radu Gaiginschi, **Iulian Agape**, Mihai Pintilei, *Road Safety, Evolution and Perspectives*, Proceedings- 3rd International Congress „Science and Management of Automotive and Transportation Engineering – SMAT 2014", vol. I, II Editura: Universitaria, Craiova, 2014 ISBN: 978-606-14-0864-1SMAT, pag.181-186, Tome 1. - Bibliogr. - ISBN 978-606-14-0865-8 Papercode : SMAT2014-MTSRT46, (BDI : FISITA Database**),** http://www.fisita.com/events/diary?id=714

17. Mihai Alin Girbaci, Adrian Sachelarie, **Iulian Agape**, Lidia Gaiginschi, *An Experimental Investigation of Engine Coolant High Temperature Influence on the Engine Exhaust Gas*, Proceedings- 3rd International Congress „Science and Management of Automotive and Transportation Engineering – SMAT 2014", vol. I, II Editura: Universitaria, Craiova, 2014 ISBN: 978-606-14-0864-1SMAT, pag.105-108, Papercode : SMAT2014-APP54, Tome 1. - Bibliogr. - ISBN 978-606-14-0865-8 (BDI : FISITA Database**),** http://www.fisita.com/events/diary?id=714

18. Gaiginschi Lidia, **Agape Iulian**, Sachelarie Adrian, Gaiginschi Radu, A *generalization of the deformation coefficient model to determine the velocities of vehicles involved in collision,* CAR 2011 The International Automotive Congres – Automotive Engineering and Environment, Pitesti 2-4 noiembrie 2011, ISSN 1453 – 1100, (BDI : FISITA Database**) ;** FISITA Paper code CAR2011/CAR2011-1310, http://www.fisita.com/publications/papers?id=7876

19. Gaiginschi Radu, Sachelarie Adrian, Gaiginschi Lidia, **Agape Iulian**, Pintilei Mihai, *Experimental Research on the Study of Kinematics of Vehicles Involved in Front-Rear Collision,* CONAT 2010 – International Congress on Automotive and Transport Engineering, Brasov, octombrie 2010, (BDI : FISITA Database) ; Fisita paper code CONAT10/CONAT20107009-Paper, http://www.fisita.com/publications/papers?id=7314

G.Lucrări ştiinţifice publicate în reviste din străinătate.

1. Gaiginschi Lidia**, Agape Iulian,** Sachelarie Adrian, Gaiginschi Radu, Hantoiu Vasile, *Analiza unei solutii conceptuale de reducere a energiei de impact in coliziunile de tip fata-spate,* Conferinta stiintifico-practica cu participare internationala - Transport: economie, inginerie si management, Chisinau, Republica Moldova, 26-27 octombrie 2012, pag.31-36, ISBN 978-9975-45-219-9, http://catalog.bnrm.md/opac/bibliographic_view/678855;jsessionid=7258C2B4450CFDDEFBD6962E339671FE

2. Gaiginschi Lidia, **Agape Iulian**, Sachelarie Adrian, Gaiginschi Radu, Pintilei Mihai, Girbaci Alin, *Asupra unei solutii de amenajare a unei intersectii de strazi cu trafic complex ca intersectie giratorie semaforizata*, Conferinta stiintifico-practica cu participare internationala - Transport: economie, inginerie si management, Chisinau, Republica Moldova, 26-27 octombrie 2012, pag.37-51, ISBN 978-9975-45-219-9 , http://catalog.bnrm.md/opac/bibliographic_view/678855;jsessionid=7258C2B4450CFDDEFBD6962E339671FE

3. Sachelarie Adrian, Gaiginschi Lidia, **Agape Iulian**, Dumbrava Ionut, *Impactul traficului greu asupra deteriorarii infrastructurii rutiere*, Conferinta stiintifico-practica cu participare internationala - Transport: economie, inginerie si management, Chisinau, Republica Moldova, 26-27 octombrie 2012, pag.20-30, ISBN 978-9975-45-219-9 http://catalog.bnrm.md/opac/bibliographic_view/678855;jsessionid=7258C2B4450CFDDEFBD6962E339671FE

4. Gaiginschi Lidia, **Agape Iulian**, Sachelarie Adrian, *An analysis upon thermo-mechanical effects of combustion in high speed CI engines*, 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, CEEC-Tac 2, 27-30 August 2013 Vilnius University, Vilnius Lithuania, Publisher: Central and Eastern European Committee for Thermal Analysis and Calorimetry , Publishing House: Academica Greifswald, Germany, ISBN 978-3-940237-33-0

5. Gaiginschi Lidia, **Agape Iulian**, Sachelarie Adrian, *Upon the dynamics of combustion product formation in high speed diesel engines,* 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, CEEC-Tac 2, 27-30 August 2013 Vilnius University, Vilnius Lithuania, Publisher: Central and Eastern European Committee for

Thermal Analysis and Calorimetry Publishing House: Academica Greifswald, Germany, ISBN 978-3-940237-33-0

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1 .Lidia Gaiginschi, **I.Agape**, A.Sachelarie**,** *Physico –mathematical model for simulating the internal combustion engine cycles***,** ESFA 2003, The 7-th International Conference , Fuel Economy, Safety and Reliability of Motor Vehicles, Bucureşti, 8-9 mai 2003 Volume 1, p.87-96. ISBN 973-8449-12-X, ISBN 973-8449-10-3**.**

2.Lidia Gaiginschi, **Iulian Agape**, *Studiul modelului functional al unui sistem de injectie de tip pompa-injector, prin simulari numerice*, a IX-a Sesiune de Comunicări Ştiinţifice cu Participare Internaţională, NAV-MAR-EDU 2005, Constanta 02-04 Iunie 2005, https://www.anmb.ro/ro/conferinte/navmaredu2005/sec2.html

3.L.Gaiginschi**, I.Agape**, C.Nitescu, E.Rakosi, *Model fizico - matematic de simulare numerică a ciclului motoarelor cu ardere internă cu piston,* Sesiunea Nationala de Comunicari Stiintifice, Academia Fortelor Aeriene "Henri Coanda", Brasov 26 – 27 noiembrie 2004, ISSN 1453-0139

4.A.Sachelarie, Lidia Patras, R.Gaiginschi, E.Rakosi,R.Rosca, E.Golgoţiu, **I.Agape**, *Studii experimentale privind îmbunătăţirea performanţelor energetice şi reducerea poluării motoarelor ARO L25*, Lucrările celei de a XII- a Conferinţe Nationale de Termotehnică cu participare Internaţională, Constanţa, 14-16 noiembrie 2002, ISBN 973-8303-16-9

5.E.Rakosi,R.Rosca,**I.Agape-Comsa**,Lidia Patras, *Fueling Process Control in Internal Combustion Engines for Automotive Applications,when Using Oxygenated Alternative Fuels,* The National Conference with International participation – Automobile, Environment and Agricultural machines, AMMA 2002, Cluj-Napoca,10-11 octombrie 2002, ISSN 1221–5872

6.R.Rosca,E.Rakosi,**I.Agape-Comsa**,Lidia Patras,D.Cazacu, *Researches concerning the power indices of the D-115 engine, fueled with vegetable oils,* A XXVIII-a sesiune de comunicari stiintifice cu participare internationala, Academia Tehnica Militara 21-22 oct.1999,Bucuresti, sectiunea 7(Motoare de tractiune si termotehnica), pag.35-42

7.D.S.C.Dascalescu,A.Sachelarie,**I.Agape-Comsa**, Lidia Patras, *Consideratii asupra influentei utilizarii dispozitivelor de reglare a debitului de aer de racire asupra vaporizarii la temperatura inalta in cazul motoarelor diesel*, A VI-a Conferinţă Naţională de Termotehnică, Iasi-Chisinau, 24-25 mai 1996, Termotehnica Românească'96 ,vol I ,Editura Asachi,pag.282 - 284,ISBN 973-9178-37-5

K. Contracte de cercetare/granturi.

1. **Director contract** 2924/P/2019 Studiu de circulaţie pentru organiarea traficului auto si pietonal in zona complexului Palas , cu considerarea influenţelor modificării PUZ Palas Iaşi asupra traficului , beneficiar S.C.Iulius Real Estate S.R.L.Iaşi, , valoare contract 14280 lei ;
2. **Membru echipa contract** 1700/P/ 2014 - *Colectare date de trafic in Municipiul Iasi, in cadrul planurilor de mobilitate urbana durabila pentru polii de crestere din Romania lot 2 (Craiova, Iasi, Ploiesti);* beneficiar PTV Transport Consult Gmbh, Germania; Valoare contract = 22185 Ron

3. **Membru echipa contract** r.393/P/2014 - *Studiu de trafic privind optimizarea fluxurilor rutiere în parcarea complexului Carrefour Felicia – Iaşi şi către reţeaua rutieră urbană adiacentă, cu considerarea influenţelor complexului comercial Dedeman învecinat;* Beneficiar S.C.Carrefour S.A.Romania; Valoare contract = 12499,20 Ron;

4. Membru echipa contract nr.798P/2014 - *Masuratori ale emisiilor sonore (conform Regulamentului CEE-ONU 51) pentru diverse marci/modele de autovehicule apartinand beneficiarului, in diverse variante de echipare ale coloanei de evacuare gaze arse cu echipamente (esapamente,etc) executate de beneficiar* – beneficiar S.C. TESS CONEX S.A. Iasi . Valoare contract = 967,2 Ron

5. Membru echipa contract r.1361P/2014 - S*tudiu de circulatie privind organizarea traficului auto si pietonal in zona adiacenta investitiei construire ansamblu locuinte si dotari aferente din Soseaua Nicolina nr.81, Iasi;* Beneficiar S.C.Ferocris S.R.L. Iasi; Valoare contract = 4500 Ron

6. Membru echipa contract nr. *915P/2015 - Studiu de circulatie privind organizarea traficului auto si pietonal in zona adiacenta investitiei S.C. United Business Center 5 S.R.L. din str. Sf.Lazar nr. 27, Iasi, cu luarea in considerare a influentelor asupra traficului in zona complexului Palas invecinat*; Valoare contract = 12400 Ron;

7. Membru echipa contract nr.71P/2016 - *Studiu de circulaţie privind organizarea traficului auto şi pietonal în zona adiacentă Investiţiei construire locuinte colective si imprejmuire pe teren proprietate prin desfiintare constructii existente din Iasi, str. Toma Cozma, nr. 7b – 9.* Valoare contract = 6960 Ron

8. Membru echipa contract nr. 2426P/2016 - *Studiu de circulaţie privind organizarea traficului auto şi pietonal în zona adiacentă Investiţiei construire imobil locuinte colective pe teren proprietate, din Iasi, str. Pacurari, nr. 31-31a*. Valoare contract = 5712 RON

9. Membru echipa contract nr. 19897/2017-S*tudiu de circulaţie privind organizarea traficului auto şi pietonal în zona adiacentă Investiţiei S.C. Sticknet Investment S.R.L. din Iasi, faza PUZ (construire ansamblu rezidential cu functiuni complementare privind servicii si activitati comerciale), strada Mitropolit Varlaam nr. 54*. Valoare contract = 16065 RON

10. Membru echipa contract nr. 2329/2018, cu titlul *Studiu de circulaţie privind organizarea traficului auto şi pietonal în zona adiacentă investiţiei S.C.Corsini Ristorante S.R.L. din str.Sf.Andrei din Municipiul Iaşi*, valoare contract = 23205 RON

11. Membru echipa contract nr. 838P/2015, *Colectare date de trafic in Municipiul Iasi, in cadrul planului de moblitate urbana durabila pentru polii de crestere din Romania lot 2 (Craiova, Iasi, Ploiesti),*beneficiar PTV Transport Consult Gmbh, Germania; Valoare contract =31451,70 RON, director contract conf.dr.ing.Sachelarie Adrian

.

Data,
Octombrie 2024

Sef lucrari dr.ing. Iulian Agape

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Nume Prenume: Alexa Elena Lidia
Gradul didactic: Conf. Univ.

A. Teza de doctorat

1. Marketingul urban și impactul acestuia asupra competitivității centrelor urbane, Universitatea „Alexandru Ioan Cuza" Iasi, coordonator – Prof. Univ. Dr. Ștefan Prutianu. Ordinul Ministrului Educației Naționale nr. 165 din 07.04.2014.

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

1. **Alexa, L.,** Lăzărescu, R.P. (2022). *Managementul marketingului. Teorie. Aplicații.Teste grilă*. Ed. Performantica, Iași. 240 de pagini. ISBN 978-606-685-961-5.
2. Lidia Alexa (2021), *Managementul marketingului. Note de curs.* Editura Performantica, Iași, ISBN 978-606-685-840-3, 154 pagini
3. Avasilcăi, S., Huțu, C.A., **Alexa E. L.** (2016), *Metodologia de cercetare* cap. în Inovare prin Co-creare în era online, editori Avasilcăi, S., Huțu, C.A, pp. 65-86, Ed. Performantica, Iași, 434 pag.
4. **Alexa E. L.** (2016), *Studiu de caz DELL* cap. în Inovare prin Co-creare în era online, editori Avasilcăi, S., Huțu, C.A, pp. 219-243, Ed. Performantica, Iași, 434 pag.
5. Stoica, C.M., **Alexa E.L**., (2016) *Marketing educaţional*, Ed. Tehnopress Iasi, ISBN 978-606-687-247-8 – 125 de pagini.
6. Stoica, C.M., **Alexa E.L.** (2010). *Cercetări de marketing. Teorie şi aplicaţii.* Editura C.H. Beck, Bucureşti, 296 de pagini. ISBN 973-115-777.

Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

7. Suport de curs Cercetări de marketing. 49 de pagini
8. Suport de curs Bazele managementului II. 77 de pagini
9. Suport de curs Educație antreprenorială. 60 de pagini
10. Suport de curs E-Business. 65 de pagini.
11. Suport de curs Managementul ciclului de viața al produselor. 40 de pagini.
12. Suport de curs Managementul ciclului de viața al produsului. 56 de pagini.
13. Suport de curs Educație antreprenorială. 48 de pagini.
14. Suport de curs Administrarea proiectelor în Era digitală. 49 de pagini.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Reviste cotate ISI:

11. **Alexa, L.,** Alam, M. M. D., Chelariu, C., Rahman, S. A., & Taghizadeh, S. K. (2024). Exploring the Institutional and Personal Determinants of Social Entrepreneurial Intentions: A Cross-Country Analysis. *Journal of Social Entrepreneurship*, 1–32. IF 2,6 Q3
12. Dosoftei, C.C., **Alexa, L.** Students' perception of peer teaching in engineering education: a mixed–method case study. HUMANITIES & SOCIAL SCIENCES COMMUNICATIONS, 11, 793 (2024). IF 3,7, Q1 https://doi.org/10.1057/s41599-024-03349-y
13. **Alexa, L.,** Pîslaru, M., Avasilcăi, S., Lucescu, L., Bujor, A., Avram E. (2022). Exploring Romanian Engineering Students' Perceptions of Covid-19 Emergency e-Learning Situation.

A Mixed-Method Case Study. *Electronic Journal of e-Learning*, 20(1), pp. 19-35. ISSN 1479-4403. doi: https://doi.org/10.34190/ejel.20.1.2190. WOS:000799107600002. IF: 1,05.

14. Mohammad Ali Ashraf, Mirza Mohammad Didarul Alam, **Lidia Alexa** (2021), Making decision with an alternative mind-set: Predicting entrepreneurial intention toward f-commerce in a cross-country context, Journal of Retailing and Consumer Services, ISSN: 0969-6989, WOS:000632435300006. https://www.sciencedirect.com/science/article/pii/S0969698921000412?via%3Dihub
15. Seyedeh Khadijeh Taghizadeh, Syed Abidur Rahman, Davoud Nikbin, Mirza Mohammad Didarul Alam, **Lidia Alexa**, Choo Ling Suan & Shirin Taghizadeh (2021) Factors influencing students' continuance usage intention with online learning during the pandemic: a cross-country analysis, *Behaviour & Information Technology*, DOI: 10.1080/0144929X.2021.1912181. WOS:000639089400001. https://www.tandfonline.com/doi/abs/10.1080/0144929X.2021.1912181?journalCode=tbit20
16. **Alexa L**, Apetrei A, Sapena J. (2021) The COVID-19 Lockdown Effect on the Intention to Purchase Sustainable Brands. *Sustainability*. 2021; 13(6):3241. WOS:000645718100001. https://doi.org/10.3390/su13063241. https://www.mdpi.com/2071-1050/13/6/3241
17. **Alexa, L**.; Maier, V.; Șerban, A.; Craciunescu, R. Engineers Changing the World: Education for Sustainability in Romanian Technical Universities — An Empirical Web-Based Content Analysis. *Sustainability* **2020**, *12 (5)*, 1983. ISSN 2071-1050. WOS:000522470900284. https://www.mdpi.com/2071-1050/12/5/1983
18. Avadanei, M., Olaru, S., Ionescu, I., Ursache, M., Ciobanu, L., **Alexa, L.,** Luca, A., Olmos, M., Aslanidis, T., Belakova, D., Silva, C., (2020) ICT new tools for a sustainable textile and clothing industry, In: Industria Textila, 2020, 71, 5, 504-512, WOS:000586533900015. http://revistaindustriatextila.ro/images/2020/5/015%20MANUELA%20AVADANEI_Industria%20Textila%205_2020.pdf

Reviste ISI Proceedings

19. Bagiu, N., Avasilcăi, S., **Alexa**, L. (2020) Exploring the opportunity for a hybrid methodology in project management: a focus group approach, *IOP Conf. Series: Materials Science and Engineering* 898 (2020) 012045 IOP Publishing doi:10.1088/1757-899X/898/1/012045
20. **Alexa, L.;** Alam, M.M.D. (2019) Industry 4.0 adoption. An overview of European Union Enterprises, in Proceedings of the 34th IBIMA Conference: Vision 2025: Education Excellence and Management of Innovations through Sustainable Economic Competitive Advantage, 13-14 November 2019, Madrid, Spain. 978-0-9998551-3-3. WOS:000561117201022
21. **Alexa, L.,** Avasilcai, S., Pislaru, M. (2018) *Creativity as a Service - The Case of eYeka*, in Soliman, KS (Ed.) Innovation Management And Education Excellence Through Vision 2020, VOLS I –XI, Proceedings of the 31st International-Business-Information-Management-Association Conference, APR 25-26, 2018, Milan, ITALY, ISBN:978-0-9998551-0-2, pp. 5171-5178, Accession Number: WOS:000444067202141
22. Pislaru, M., **Alexa, L.,** Avasilcai, S., (2018) *Assessment of Project Management Implementation Based On Fuzzy Logic Approach*, in Soliman, KS (Ed.) Innovation Management And Education Excellence Through Vision 2020, Vols I–XI, Proceedings of the 31st International-Business-Information-Management-Association Conference, APR 25-26, 2018, Milan, ITALY, ISBN:978-0-9998551-0-2, pp. 6079-6086, Accession Number: WOS:000444067203030

23. Bagiu, N., Avasilcăi, S., **Alexa, L**., (2018) *„An "agile" approach to develop a crowdsourcing platform: the case of Cre@tive.biz"*, 04011, Annual Session of Scientific Papers ModTech 2018, IOP Conf. Series: Materials Science and Engineering 400 (2018) 062003, DOI: 10.1088/1757-899X/400/6/062003, eISSN: 2261-236X, no. 184, pp 1 – 8, Accession Number: WOS:000461147400145
24. Bagiu, N., Avasilcăi, **S., Alexa**, L., Pîslaru, M. (2018) *Balancing contrasting approaches to develop an online community: The case of CRE@TIVE.BIZ*, Proceedings of 6th RMEE International Management Conference: „Performance Management or Management Performance? ", 20-22 septembrie, Cluj-Napoca, ISSN: 2247 – 8639, pp. 572 – 577. WOS:000471723700079
25. **Lidia Alexa**, Silvia Avasilcăi (2017), *An Empirical Research on Co-Creation in the Romanian Electronic Industry: The E-PICUS Case*, Proceedings of the 29th International Business Information Management Association Conference - Sustainable Economic Growth, Education Excellence, and Innovation Management through Vision 2020, pp. 2211 – 2216, ISBN: 978-0-9860419-7-6, Accession Number: WOS:000410252701090.
26. **Lidia Alexa**, Silvia Avasilcăi (2017), *Online Marketing as Part of the Internationalization Strategy An Analysis over Website Communication,* Proceedings of the 30th International Business Information Management Association Conference, Vision 2020: Sustainable Economic development, Innovation Management, and Global Growth, pp. 2043-2056. ISBN: 978-0-9860419-9-0, Accession Number: WOS:000443640501075
27. **Alexa, E.L.**, Alexa, M., Stoica, C.M. (2012) *Marketing Evolution: from Product Marketing to City Marketing,* Proceedings of 18th IBIMA Conference on Innovation and Sustainable Economic Competitive Advantage: From Regional Development to World Economies, Istanbul, Turkey, ISBN 978-0-9821489-7-6. Indexat ISI Web of Science și SCOPUS. WOS:000317549801019
28. **Alexa, E.L.,** Alexa, M., Stoica, C.M. (2012) *The Use Of Online Marketing And Social Media In Higher Education Institutions In Romania,* Journal of Marketing Research & Case Studies, ISSN: 2165-7009, 9 pages. Revista indexată în EBSCO*host:* Business Source Complete, EBSCO*host:* Business Source Corporate Plus, Cabell's Directory, ProQuest, Ulrich's Periodicals Directory, Media Finder, J-Gate, JournalSeek, Airiti Library, CNKI Scholar, WorldCat. WOS:000317550000032

Reviste incluse în alte BDI

29. N Bagiu, S Avasilcăi, **L Alexa** (2019) *An overview of strategic issues in the evolution of IT industry*, IOP Conference Series: Materials Science and Engineering, Volume 568, Annual Session of Scientific Papers "IMT ORADEA 2019" 30–31 May 2019, Oradea, Felix SPA, Romania.
30. Pîslaru M., Avasilcăi S., **Alexa L.E.** (2019) Fuzzy Modeling of Customized Solutions for Corporate Performance Assessment. In: Bilgin M., Danis H., Demir E., Can U. (eds) Eurasian Business Perspectives. Eurasian Studies in Business and Economics, vol 10/1. 255-266, Springer, Cham.
31. **Lidia Alexa,** Silvia Avasilcăi (2018) *The requirement elicitation process of designing a collaborative environment – The CRE@TIVE.BIZ case,* MATEC Web Conf.

Volume 184, 2018 Annual Session of Scientific Papers IMT ORADEA 2018, ISSN, 2261-236X, DOI: 10.1051/matecconf/201818404010

32. **Alexa, E.**L., Avasilcăi, S., Hutu, C.A. (2017) Crowdsourcing: concepte si abordari, Revista de Management si Inginerie Economica, Ed. Todesco, Cluj-Napoca, ISSN 1583-624x, Vol. 16, No. 4(66) (B+ CNCSIS, indexata EBSCO, ULRICH'S Periodicals Directory, Index Copernicus, Cabell's directory)
33. Adriana BUJOR, Silvia AVASILCAI, **Lidia ALEXA** (2017) *Co-creation in fashion industry: the case of Awaytomars*, Revista Annals of the Oradea University. Fascicle of Management and Technological Engineering, CNCSIS "Clasa B+", ISSN 2501-5796 (CD edition), ISSN 1583-0691 (online), ISSN-L 1583-0691 (online), Volume XXVI (XVI), 2017/3**, D**OI: 10.15660/AUOFMTE.2017-3.3295, pp. 22-25
34. **Lidia ALEXA**, Silvia AVASILCĂI, Adriana BUJOR (2017) *An open innovation marketplace: The case of Innocentive*, Revista Annals of the Oradea University. Fascicle of Management and Technological Engineering, CNCSIS "Clasa B+", ISSN 2501-5796 (CD edition), ISSN 1583-0691 (online), ISSN-L 1583-0691 (online),
35. **Alexa, E.L.,** Avasilcăi, S., Huțu, A.C, (2016) *Developing Online Co-Creation Instruments Based On A Focus Group Approach: The E-Picus Case*, Proceedings Of The Annual Session Of Scientific Papers IMT Oradea 2016 Volume XV (XXV) IMTU, 49-52 pp, ISBN 978-606-10-1537-5
36. Pîslaru, M, **Alexa E. L.,** (2016) *Environmental Management Of A Company Based On Fuzzy Model* - Proceedings Of The Annual Session Of Scientific Papers IMT Oradea 2016 Volume XV (XXV) IMTU, University of Oradea, 67-72 pp., ISBN 978-606-10-1537-5, DOI: 10.15660/AUOFMTE.2016-2.3243
37. **Alexa, E.L.,** Alexa, M., (2015) *A Conceptual Approach Over E-Business Model Evaluation*, Review of Management and Economic Engineering, Volume 14, No. 4 (58), ISSN 1583-624X Revistă Indexată În Ulrich's Periodicals Directory, Ebsco Business Source(R) Complete Database, Index Copernicus, Cabell's Directory
38. **Alexa, E.L.,** Alexa, M., Avasilcăi, S. (2014) *An empirical research on open innovation and co-creation: the IdeaStorm project by DELL,* Review of Management and Economic Engineering, Volume 13, No. 4 (54), 779-788, ISSN 1583-624X Revistă indexată în ULRICH'S Periodicals Directory, EBSCO Business Source(r) Complete database, Index Copernicus, Cabell's directory.

- **Lucrări publicate în volume ale congreselor internaţionale:**

39. A. Șerban, **L. Alexa,** V. Maier, R Crăciunescu (2021), Shaping the pathways to entrepreneurship. Entrepreneurial education in Romanian technical universities, 16th European Conference on Innovation and Entrepreneurship, ECIE 2021, 16-17 Septembrie, 2021, Lisabona, Portugalia, ISBN – 978-1-914587-09-2, pp. 883 – 891
40. L.C. SIMION, S. AVASILCAI, **E.L ALEXA (2021),** Transition Industry 4.0 to 5.0-Renaissance of Human Driven Approach Adding Value to People & Management Performance, *Strategica. Shaping the Future of Business and Economy*, ISBN: 978-606-749-579-9, pp. 897-917
41. Maier, V., **Alexa**, L., Craciunescu, T. (2020) *Online Education during the COVID19 Pandemic: Perceptions and Expectations of Romanian Students*, ECEL 2020 -

Proceedings of the 19th European Conference on e-Learning, 28-30 October 2020, A Virtual Conference, ISBN: 978-1-912764-78-5. DOI:10.34190/EEL.20.147

42. **Alexa, E.L.,** Avasilcăi, S., Bujor, A. (2017) *Multiple Stakeholders's Co-Creation Process in New Product Development: An Exploratory Analysis*, Proceedings Of The Annual Session Of Scientific Papers IMT Oradea 2017, MATEC Web Conf. Volume 126, DOI: https://doi.org/10.1051/matecconf/201712604005
43. Tudose, B., **Alexa, E.L.,** (2017), *The Effect of Marketing Spending on Sales – An Empirical Analysis on the Automotive Industry*, Proceedings Of The Annual Session Of Scientific Papers IMT Oradea 2017, MATEC Web Conf. Volume 126, DOI: 10.1051/matecconf/201712604004
44. Bujor, A., Avasilcăi, S., **Alexa, E.L.,** (2017), *The Nature of the Creative Workforce*, Proceedings Of The Annual Session Of Scientific Papers IMT Oradea 2017, MATEC Web Conf. Volume 126, DOI: 10.1051/matecconf/201712604010
45. Pislaru, M., Avasilcăi, S., **Alexa, E.L.** (2017) *Urban recyclability: a creative approach based on fuzzy assessment,* 17th International Multidisciplinary Scientific Conference SGEM 2017 Conference Proceeding Volume 17, pp. 267-274, ISSN 1314-2704, ISBN 987-619-7408-28-7.
46. **L Alexa**, M Alexa, S Avasilcăi, (2016) *Gaining a Competitive Edge through Action Design Research, ModTech International Conference - Modern Technologies in Industrial Engineering IV*, IOP Conf. Series: Materials Science and Engineering 145, DOI: 10.1088/1757-899X/145/6/062001.

D. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Reviste

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1. Alexa, L., Apetrei, A., Sapena, J. (2020) *The Covid19 Lockdown Effect On The Intention To Purchase Sustainable Brands,* Globalization and Higher Education in Economics and Business Administration (GEBA 2020), 22nd to 23rd of October 2020, Iasi, Romania.
2. Asandului, A.L., Agheorghiesei, D. T., Alexa, L. Asandului, G. (2020) Students' Perspective on Education for Sustainability. Empirical Evidences from Two Universities, *LUMEN Conference - 4th LUMEN EDU International Online Scientific Conference | Education, Quality & Sustainable Development* | November 25th – 26th, 2020 | Targoviste, Romania
3. **Alexa, L.,** Avasilcăi, S., Pâslaru, M, (2016) The Impact of Social Media on Fashion Industry, *Proceedings of the 16th Romanian Textiles and Leather Conference* CORTEP, Iasi, Romania, ISSN 2285 – 5378

E. Brevete obţinute în întreaga activitate

K. Contracte de cercetare

Participare la contracte de cercetare/granturi în calitate de membru în echipa de proiect:
Contracte la nivel national

- 2023 – Erasmus+ KA2, 2022-1-FI01-K4220-HED-000090147 – *Inclusion to Digital Learning* (Dig2Ing). Contract nr. 23772/28.02.2023. 5 luni. Membru în echipa de implementare.

- 2023 - Erasmus + KA20HED, 2021-1-RO01-KA220-HED-000027527 – *Innovative smart textiles & entrepreneurship* (Hacktex). 6 luni. Membru în echipa de implementare.
- 2022 - SMIS 142152 – *Susținerea Tinerilor pentru afaceri reușite* (STAR). Contract de muncă nr. 22095 din 7.01.2022. 3 luni. Membru în echipa de implementare.
- 2022 – Grant intern Top-down, nr. GI-TD-DigitAll-10/2022. *Centru pentru Antreprenoriat în sectorul digital* (CEASeD). 6 luni. Membru în echipa de implementare.
- 2022 - Contract cercetare agent economic nr. 220607022 - East Marketing Insights. Valoare 31.063,76 lei (6339,54 Euro). Director de proiect.
- 2021 - Sustainable Entrepreneurship Summer School (SESS). Proiect nr. JAR2021_014 derulat în cadrul programului Universitatea Antreprenorială, finanțat de Romanian-American Foundation prin Junior Achievement Romania. Manager de proiect.
- 2020 - Sustainable Entrepreneurship Summer School (SESS). Proiect nr. JAR2020_018 derulat în cadrul programului Universitatea Antreprenorială, finanțat de Romanian-American Foundation prin Junior Achievement Romania. Manager de proiect.
- 2020 - 2021 Dezvoltarea culturii antreprenoriale a studenților de la inginerie și arhitectură prin crearea unei rețele de centre de pregătire în antreprenoriat-AntreprenorIng. Membru în echipa de implementare.
- 2020 - 2021 - Erasmus+:Skills4Smart TCLF Industries 2030, acronim TCLF, nr. 2017-3536/001-001. Membru în echipa de implementare.
- 2019 TCBL –Textile and Clothing Business Labs, Transformative Business Models for the Textile Clothing. Nr. proiect: SEP-210187456 Programul de finanțare: H2020-NMP-2014-two-stage
- 2019 - Contract CNFIS-FDI-2019-0021 Internaționalizarea Educației pentru Studenți la TUIASI - International Week for Phd Students and Researchers - Workshop on Social Entrepreneurship Education
- 2018-2020 - Erasmus+ 2017-1-ESO1-KA202-038419 - *Circular ECOnomy Innovative Skills in the TEXtile Sector* (ECOTEX).
- 2018-2019 - Erasmus+ 2017-1-UK01-KA202-036733 - *Boosting online cross-border sales of shoes through e-commerce coaching for SMEs from the shoe industry* (Boost4Shoes).
- 2017 – 2018 - CNFIS – FDI -2017 – 0206, *International la puterea t*, financed through the Institutional Development Fund 2016, National Council for Financing Higher Education, Domain 2: Romanian Higher Education Internationalization.
- 2017 – 2018 – PN-III-P2-2.1-PED-2016-0689, *Digital Innovation Model for Business Ecosystems from Creative Industries* - CRE@TIVE.BIZ**,** "Gheorghe Asachi" Technical University of Iasi.
- 2015 - Proiect PN-II-PT-PCCA-2013-4-1811 *"E-soluții de inovare prin implicarea pro-activa a clienților in crearea de valoare pentru creșterea competitivității organizaționale"* (E-PICUS), 2014-2016, contract nr. 322/2014, Membru în echipa de implementare.

Data:
9.09.2025

Semnătura:

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Liviu ANDRUȘCĂ

A. Teza de doctorat

„Cercetări privind comportamentul la solicitări multiaxiale și combinate al unor materiale metalice " susținută în anul 2016, la Facultatea de Mecanică din cadrul Universității Gheorghe Asachi din Iași, domeniul Inginerie Mecanică, conducător de doctorat prof. univ. dr. ing. Bârsănescu Paul Doru.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în strainatate

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Andrușcă Liviu, Bazele proiectarii caroseriilor si platformelor auto, Editura Universității Tehnice „Gheorghe Asachi" din Iași, ISBN 9789736215612, Iasi, 2025;
2. Andrușcă Liviu, Polimeri: proprietăţi si prelucrări – elemente fundamentale, Editura Universității Tehnice „Gheorghe Asachi" din Iași, ISBN 9789736215568, Iasi, 2024;
3. Îndrumar pentru lucrări de laborator la disciplina rezistența materialelor, Mares M., Leitoiu B., Barsanescu P. D., Amariei N, Andrusca L., Editura Politehnium, ISBN 9789736214851, Iasi, 2019.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web

1. Andrușcă Liviu, PROIECTARE CAROSERII ŞI PLATFORME AUTO =Note de curs=, Iasi, 2025; https//edu.tuiasi.ro/pluginfile.php/195370/mod_resource/content/1/pcpa.pdf
2. Andrușcă Liviu, REZISTENȚA MATERIALELOR LUCRĂRI DE LABORATOR = profil nemecanic=, https://edu.tuiasi.ro/pluginfile.php/19537/mod_resource/content/1/labrm.pdf
3.

F. Lucrari stiintifice publicate in reviste cotate ISI sau indexate in bazele de date internationale

1. Hutanu, MG, Andrusca, L; Benchea, M, Bernevig, MA, Achitei, DC, Lupescu, SC, Badarau, G, Cimpoesu, N., Influence of the Deformation Degree of Combined Loadings on the Structural and Mechanical Properties of Stainless Steels, JOURNAL OF MANUFACTURING AND MATERIALS PROCESSING 2025, 9, 2. DOI10.3390/jmmp9020045, WOS:001430051200001
2. Adomnitei I, Cimpoesu, R. ,Chicet DL, Coteata M, Lupu, FC, Bejinariu, C, Andrusca, L, Paraschiv, P, Axinte, M, Badarau, G., Cimpoesu, N., Behavior of YSZ (High Y2O3 Content)

Layer on Inconel to Electro-Chemical Corrosion, MATERIALS, 2025, 18, 2, DOI10.3390/ma18020400, WOS:001404250000001

3. Cimpoesu R, Lutcanu M, Cazac AM, Adomnitei, I, Bejinariu, C, Andrusca, L, Prelipceanu, M, Cioca, LI, Chicet, DL, Radu, AM, Cimpoesu, N., Electrochemical Corrosion Resistance of Al2O3-YSZ Coatings on Steel Substrates, APPLIED SCIENCES-BASEL, 2024, 14, 23, DOI10.3390/app142310877, WOS:001376235400001
4. Gheorghe Nagîț, Andrei Marius Mihalache, Irina-Beșliu Băncescu, Oana Dodun, Liviu Andrușcă, Adelina Hrițuc, Sergiu Constantin Olaru, Laurențiu Slatineanu, Punching accuracy in the case of square-shaped holes, Machines, 2024, 12, 8, DOI10.3390/machines12080507, WOS:001305334400001
5. Hrițuc, Adelina, Vasile Ermolai, Andrei Marius Mihalache, Liviu Andrușcă, Oana Dodun, Gheorghe Nagîț, Marius Andrei Boca, and Laurențiu Slătineanu. "Compressive Behavior of Some Balls Manufactured by 3D Printing from Ceramic–Polymer Composite Materials" Micromachines 15,2024, no. 1: 150. https://doi.org/10.3390/mi15010150
6. Laurentiu Slatineanu, Andrei Mihalache, Liviu Andrusca, Adelina Hrituc, Margareta Coteata, Oana Dodun, Gheorghe Nagit & Irina Besliu, Generation and compression testing of spherical wood bodies, Wood Material Science & Engineering, (2022), DOI: 10.1080/17480272.2021.1944308
7. Marius Ionut Ripanu, Andrei Marius Mihalache, Laurentiu Slatineanu, Marian Mares, Liviu Andrusca, Adelina Hrituc, Oana Dodun, Gheorghe Nagit, Margareta Coteata, Bruno Radulescu, Tensile Strength of Threaded Rods Made by 3D Printing of Polymeric Material, Mater. Plast, 58 (4), 2021, 9-18, https://doi.org/10.37358/MP.21.4.5526
8. C Moraras, B Leitoiu, I Blanari, L Andrusca, Compression behaviour study for glass fiberglass-reinforced plastics used in the construction of wind turbine blades, IOP Conf. Series: Materials Science and Engineering 997 (2020) 012099, doi:10.1088/1757-899X/997/1/012099
9. A I Dontu, P D Barsanescu, L Andrusca, N A Danila, Weigh-in-motion sensors and traffic monitoring systems – State of the art and development trends, IOP Conf. Series: Materials Science and Engineering 997 (2020) 012113, doi:10.1088/1757-899X/997/1/012113
10. A I Dontu, L Gaiginschi, P D Barsanescu, E Rakosi, L Andrusca, N A Danila, New concept of WIM system for urban traffic monitoring, IOP Conf. Series: Materials Science and Engineering 997 (2020) 012114, doi:10.1088/1757-899X/997/1/012114
11. Carausu, C; Mazurchevici, SN ; Mazurchevici, AD; Andrusca, L; Comaneci, R; Popa, RI ; Nedelcu, D, Mechanical characterization of additive manufactured samples from biodegradable materials, IOP Conference Series-Materials Science and Engineering, 916, 012016, DOI: 10.1088/1757-899X/916/1/012016, 2020
12. Filip, A., Badulescu, O.V., Sirbu, P.D., Veliceasa, B., Puha, B., Pascal, I.A., Andrusca, L., Oprea, S., Filip, C., Alexa, O., Preliminary Investigation on Mechanical Properties of Polymer Coating Screws for the Future Fragility Fracture Fixation, Mater. Plast., 56(3), 2019, 559-562.
13. Filip, A., Alexa, O., Sirbu, P.D., Filip, C., Andrusca, L., Pascal, I., Oprea, S., Badulescu, O.V., Assessment of the Mechanical Properties of Orthopedic Screws Coated with Polyurethane Acrylate Containing Hydroxyapatite, Intended to Fix the Fragility Fractures, Mater. Plast., 56(4), 2019, 1028-1032.
14. Dumitru-Doru Burduhos-Nergis, Petrica Vizureanu, Liviu Andrusca, Dragos-Cristian Achitei; Performance of Local Fly Ash Geopolymers under Different Types of Acids, International Conference on Innovative Research - ICIR EUROINVENT 2019,IOP Conf. Series: Materials

Science and Engineering, 572, (2019) 012026, IOP Publishing, doi:10.1088/1757-899X/572/1/012026

15. Dragomir, A; Adam, M; Andrusca, M; Astanei, D; Andrusca, L; Dumitrescu, C; About Some Connection Modes of the Current Conducting Paths, 10th International Conference and Expositions on Electrical and Power Engineering (EPE) Iasi, (2018), 357-360, 10.1109/ICEPE.2018.8559937

16. Andrusca, M; Adam, M; Dragomir, A; Astanei, D; Andrusca, L About Monitoring of Medium Voltage Circuit Breakers with SF6, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE) Iasi, (2018), 559-563, 10.1109/ICEPE.2018.8559888

17. L Andruşcă, V Goanță, P D Bârsănescu, R Steigmann, Numerical and experimental study of cruciform specimens subjected to biaxial tensile test, IOP Conference Series, Materials Science and Engineering 147 (2016) 012091. http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012091/pdf

18. L Andruşcă, V Goanță, P D Bârsănescu, A Savin, Experimental characterization of materials subjected to combined loading conditions, IOP Conference Series, Materials Science and Engineering 147 (2016) 012092. http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012092/pdf

19. Andruşcă M., Adam M., Molodeschi M., Roman C., Andruşcă L., Asset Management System - Software Application on Power Substation Level, Proceedings 8th International Conference and Exposition on Electrical and Power Engineering - EPE, Iași, România, 2014, IEEE.

G. Lucrari stiintifice publicate in reviste din strainatate

H. Lucrari stiintifice publicate in reviste din tara, recunoscute CNCSIS

1. Răzvan Cosmin Stavarache,Vasile Ermolai, Marius Ionut Ripanu, Liviu Andrușcă,Marian Mareș, Oana Dodun, Infill pattern optimization of Fused Filament Fabrication samples for enhanced mechanical properties, SCIENTIFIC BULLETIN, Serie C, Fascicle: Mechanics, Tribology, Machine Manufacturing Technology, ISSN 1224-3264, Vol. 2021 No.XXXV.

2. Andruşcă L., Bârsănescu P. D., Goanță V., Antonescu I., Achiței D., Benchea M., Design and development of a device used in biaxial testing of materials, Buletinul Institutului Politehnic Iasi, secția Construcții de Mașini, Volumul 62 (66), Numărul 3 (2016) 9-14.

3. Andruşcă L., Experimental characterization of materials subjected to combined loadings - Part II: torsion-tension, Buletinul Institutului Politehnic Iasi, secția Construcții de Mașini, Volumul 62 (66), Numărul 2 (2016) 65-70.

4. Andruşcă L., Experimental characterization of materials subjected to combined loadings - Part I: tension-torsion, Buletinul Institutului Politehnic Iasi, secția Construcții de Mașini, Volumul 62 (66), Numărul 1 (2016) 93-98.

5. Andruşcă L., Goanță V., Bârsănescu P. D., Cruciform Specimens Size And Shape Influence On stress Distribution, Buletinul Institutului Politehnic Iasi, secția Construcții de Mașini, Tom LXI (LXV), fasc. 2, (2015) 27-32.

6. Andruşcă L., Goanță V., Bârsănescu P. D., Istrate B., Investigation Of Material Behavior Under Combined Loading Conditions, Buletinul Institutului Politehnic Iasi, secția Construcții de Mașini, Tom LXI (LXV), fasc. 2, (2015) 33-38

I. Lucrari stiintifice publicate in volumele conferintelor

1. Comănici A. M., Goanță V., Bârsănescu P. D., Andruşcă L., Study of a Specimen with Stress Concentrators in Multiaxial Tests, Applied Mechanics and Materials, 809-810 (2015) 974-979. https://www.scientific.net/AMM.809-810.974
2. Bârsănescu P. D., Comănici A. M., Andruşcă L., Savin A., Modified Mohr-Coulomb Theory for Triaxial State of Stress, Applied Mechanics and Materials, 809-810 (2015) 658-663. https://www.scientific.net/AMM.809-810.658
3. Andruşcă L., Doroftei I., Bârsănescu P. D., Goanță V., Savin A., Design of a Testing Device for Cruciform Specimens Subjected to Planar Biaxial Tension, Applied Mechanics and Materials, 809-810 (2015) 700-705. https://www.scientific.net/AMM.809-810.700
4. Andruşcă L., Goanță V., Bârsănescu P. D., Savin A., Comănici A. M., Stress State Evaluation in Biaxially Loaded Cruciform Specimens, Applied Mechanics and Materials, 809-810 (2015) 980-985. https://www.scientific.net/AMM.809-810.980
5. Andruşcă L., Goanță V., Bârsănescu P. D., Optimizing the Shape and Size of Cruciform Specimens used for Biaxial Tensile Test, Applied Mechanics and Materials, 658 (2014) 167-172. https://www.scientific.net/AMM.658.167
6. Andruşcă L., Doroftei I., Bârsănescu P. D., Goanță V., Assessment of Systems for Carrying Out of Planar Biaxial Tensile Test , Applied Mechanics and Materials, 658 (2014) 3-8. https://www.scientific.net/AMM.658.3

J. Inventii

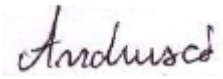
K. Contracte de cercetare

1. Contract nr. 59/01.07.2014 (PN-II-PT-PCCA-2013-4-0656) - membru în echipa de cercetare din cadrul contractului cu titlul "Monitorizarea integrității structurale si autorepararea paletelor de turbine eoliene și a altor structuri din compozite inteligente (STHEMOWTB)".
2. Manager proiect de cercetare cu tema "Reducerea nivelului de poluare și prelungirea duratei de viață a drumurilor prin monitorizarea traficului și a gradului de încărcare al autovehiculelor", in cadrul proiectului TUIASI-COMPETE, finanțat de Ministerul Cercetării si Inovării în cadrul competiției PNCDI III, Programul 1 - Dezvoltarea sistemului național de cercetare-dezvoltare, Subprogramul 1.2 – Performanță instituțională – Proiecte de dezvoltare instituțională – Proiecte de finanțare a excelenței în CDI, 2018 ;
3. Membru în echipa de expertiză tehnică din cadrul contractului nr. 219/10.05.2016, denumire contract "Expertiză metalurgică șină semibună tip 65". Autoritate contractantă: Compania Națională de Căi Ferate „CFR” – S.A.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data



Anexa Lista de lucrări

LISTA DE LUCRĂRI ÎN DOMENIUL DE STUDII UNIVERSITARE DE LICENTA INGINERIE MECANICĂ

Numele şi prenumele: Asandului Gabriel

A. Teza de doctorat.

A.C.Cuza-omul politic (susținere publică 17 iulie 2004, Universitatea „Alexandru Ioan Cuza" din Iași)

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

Gabriel Asandului, Teodora Ghivirigă, *The condition of the intellectuals elite in Communist Romania. A historical perspective*, https://www. interdisciplinarypress.net/online-store/ebooks/diversity-and-recognition/between-identity-practice**,** în Stephen Palmer (ed.), *The intellectual. A Phenomenom in Multidimensional Perspectives*, Inter-disciplinary Press, Oxford, 2011, ISBN 978-1-84888-003-0, pp. 33-42;

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

a. Gabriel Asandului, *Gheorghe Asachi-scurtă schiță biografică*, în Neculai Eugen Seghedin (editor), *Gheorghe Asachi. Un spirit enciclopedic*, Editura Universității „Gheorghe Asachi" din Iași, 2023, pp. 15-50.
b. Gabriel Asandului*, Şcolile de cadre ale ale PCR din teritoriu în primii ani postbelici (1945-1948)*, pp. 47-72, în Sorin Radu (coordonator), *Învăţământul de partid şi şcolile de cadre în România comunistă. Cadru naţional şi regional*, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, 2014;
c. Mihai Dorin**, Gabriel Asandului,** *Universitatea Tehnică „Gheorghe Asachi" din Iaşi (1813-2013). 200 de ani de la înfiinţarea Şcolii de Inginerie*, ediţie îngrijită de Daniel Condurache, Neculai Eugen Seghedin, Irina Lungu, Cuvânt-înainte de Ion Giurmă, Editura Politehnium, Iaşi, 2013, pp.95-150, ISBN: 978-973-621-420-2.
d. **Gabriel Asandului**, *Istoria construcţiei europene*, Editura Politehnium, Iaşi, 2013, ISBN 978-973-621-424-0.
e. Mihai Dorin, Gabriel Asandului, Horia Chiriac, *Europa în trei timpi,* Editura Politehnium, Iaşi, 2013, ISBN 978-973-621-421-9, pp. 84-181.
f. Gabriel Asandului, *Studiu introductiv*, în A.C.Cuza- *Alte scrieri*, Editura Tipo Moldova, Iaşi, 2012, pp. I-XXXV (Colecţia Opera Omnia).
g. **Gabriel Asandului,** *Ştiinţele aplicate*, în *Universitatea din Iaşi (1860-2010). Facultăţi. Profesori. Şcoli ştiinţifice*, coordonator Gheorghe Iacob, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, 2011, pp. 554-568, ISBN 978-973-703-589-9 ;
h. Dorin Mihai, Neagu Cornelia**, Gabriel Asandului,** Elena Hodorogea**,** *Politehnica ieşeană in dinamica modernizarii României*, Editura Stef, Iaşi, 2006, pp. 109-174, ISBN 978-973-8961-67-8 (finanţată prin contract CNCSIS), 316p.
i. **Gabriel Asandului**, *Istoria evreilor din România (1866-1938)***,** Editura Institutului European, Iaşi, 2003, ISBN 973-611-128-8, 91p.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

a. Cloşcă Constantin**, Gabriel Asandului,** *Istoria Dreptului românesc*, Editura Fundaţiei Academice „Danubius”, Galaţi, 2002, **ISBN 973-8409-12-8**, 288 p.

b. Cloşcă Constantin, **Gabriel Asandului,** *Administraţia publică în istoria românilor,* Editura Universitatea Ecologică “ D.Cantemir”, Iaşi, 2000, ISBN 973-9038-07-7**, 230 p.**

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1.Gabriel Asandului, *Unificarea cadministrativă a României interbelice (1918-1925)* , „Carpica”, LI/2022, CEEOL, pp. 364-386.

2. Gabriel Asandului, *The romanian local administration from the little union to the first world war (1859-1918)*, Buletinul Institutului Politehnic din Iași, vol. 68(72), nr.1-4/2022, pp. 9-22, Secția Socio-umane.

3. **Gabriel Asandului**, *Administraţia românească în timpul celui de-al doilea război mondial*, „Carpica”, nr. XLVIII/2019, pp. 246-271;

4. **Gabriel Asandului,** *Pages from the history of the Polytehnic Institute of Iasi.The ’40s-’50s***,** Buletinul Institutului Politehnic "Gheorghe Asachi" din Iasi**,** nr.3-4/2019, pp. 9-21.

5. **Gabriel Asandului**, *From the School of Electricity to the school of Electrical Engineering of Iaşi* (1910-1937), Buletinul Institutului Politehnic "Gheorghe Asachi" din Iasi**,** nr.2/2017, pp. 9-16;

6. Gabriel Asandului, *A.C.Cuza-profesor la Universitatea din Iaşi*, în Anuarul Institutului de Istorie „A.D. Xenopol”, tomLXII/2015.

7. **Gabriel Asandului**, *Party studies in Communist Romania. The Superior School of Social Sciences “Andrei Aleksandrovici Zhdanov” (1948-1958)*, Anuarul Institutului de Istorie „G. Bariţiu” din Cluj-Napoca, tom LII/2013. pp. 145-164.

8. **Gabriel Asandului,** *Învăţământul de partid în România comunistă. De la Universitatea muncitorească la Şcoala Superioară de Partid „Ştefan Gheorghiu” (1945-1966)*, în Anuarul Institutului de Istorie „A.D.Xenopol”, Iaşi, tom XLIX, 2012, pp. 189-204.

9.**Gabriel Asandului**, *The institution of marriage in old romanian law*, în „Acta Universitatis Danubius. Juridica”, 1/2009, pp. 128-134, ISSN: 1844-8062, EISSN: 2065-3891;

10. **Gabriel Asandului***, Mişcările studenţeşti de la Universitatea ieşeană, în perioada interbelică***,** în Anuarul Institutului de Istorie „A.D.Xenopol ”, vol. XLIII- XLIV, Editura Academiei, Iaşi, 2006-2007, ISSN 0074-039X, pp. 253-273;

11. **Gabriel Asandului,** *Reforma agrară din 1945***,** în „Lucrări ştiinţifice. Seria Agronomie”, vol 50, nr. 3, Universitatea de Ştiinţe Agricole şi Medicină Veterinară „Ion Ionescu de la Brad”, Iaşi, 2007, pp. 41- 46, ISSN-1454-7414;

12. **Gabriel Asandului**, *Învăţământul superior agricol ieşean în perioada interbelică*, „Lucrări ştiinţifice. Seria Agronomie”, vol 49, Universitatea de Ştiinţe Agricole şi Medicină Veterinară „Ion Ionescu de la Brad”, Iaşi, 2006, p. 457-462, ISSN-1454-.

13. **Gabriel Asandului***, Destine parlamentare: A.C.Cuza,* în Anuarul Institutului de istorie „A. D. Xenopol", tom XLII, 2005, Iaşi, Ed. Academiei Române, 2005, pp. 235-256, ISSN 0074-039X.

14. **Gabriel Asandului,** *Reforma agrară din 1921***,** în „Lucrări ştiinţifice. Seria Agronomie", vol 48, Universitatea de Ştiinţe Agricole şi Medicină Veterinară „Ion Ionescu de la Brad", Iaşi, 2005, pp.578-587, ISSN-1454-7414.
15. **L. Asandului, Gabriel Asandului**, *Statistica personalului românesc din întreprinderile din România interbelică*, **,** în „Lucrări ştiinţifice. Seria Agronomie", vol 48, Universitatea de Ştiinţe Agricole şi Medicină Veterinară „Ion Ionescu de la Brad", Iaşi, 2005, ISSN 1454-7414
16. **Gabriel Asandului ,** *Economia şi învăţământul în gândirea lui A. C. Cuza***, în Anuarul Institutului de istorie „**A. D. Xenopol", tom XXXIX-XL, 2002-2003, Iaşi, Ed. Academiei Române, 2003, pp. 319-337, ISSN 0074-039X.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

1.Gabriel Asandului, *Party education in communist Romania in the first two post-war decades (1945-1965),* in „Bulgarian Historical Review ", nr. 3/4/2021, pp.196-226, ISSN 2815-2905 (online), 0204-8906 (print), WOS: 000743379800007, Scopus, EBSCOHost, CEEOL.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Gabriel Asandului, *Engineering Education at Alma Mater Iassiensis*, în „Noesis", 2010, vol. XXXV, pp. 237-256.
2. **Gabriel Asandului,** *Învăţământul politehnic românesc în anii interbelici***,** în „Studii şi cercetări din domeniul ştiinţelor socio-umane", vol.XVI., Editura Argonaut, Cluj-Napoca 2007, ISBN 973-7710-88-6, ISSN 1584-9457, pp. 161-168.
3. **Gabriel Asandului***, Chestiunea evreiască în viziunea lui A.C.Cuza*, în „Studii şi cercetări din domeniul ştiinţelor socio-umane",Cluj-Napoca, vol.XV./2006, pp. 139-146, ISBN 973-7710-88-6, ISSN 1584-9457 **;**
4. **Gabriel Asandului**, *L'enseignement de juifs de Roumanie jusqu'en 1940***,** în Buletinul Institutului Politehnic. Seria Ştiinţe socio-umane, tom XLVIII (LII), Fasc. 1-4, Iaşi, 2002, pp. 9-14, ISSN 1224-5860
5. **Gabriel Asandului,** *La Roumanie entre le 23 Août 1944 et 30 Décembre 1947*, în Buletinul Institutului Politehnic, Iaşi*,* Tomul XLV, Fasc. 1-4, Ştiinţe socio-umane, 1999, pp. 55-58, ISSN 1224-5860 .
6. **Cloşcă Constantin, Gabriel Asandului,** *Le révisionnisme et le problème de la Bessarabie dans la période entre les deux guerres mondiales,* în Buletinul Institutului Politehnic, Iaşi, Tomul XLV, Fasc. 1-4, Ştiinţe socio-umane, 1999, pp. 21- 27, ISSN 1224-5860 **.**
7. Constantin Cloşcă, Gabriel Asandului, *Viaţa culturală a satului românesc în perioada dintre cele două războaie mondiale*, în Anuarul Universităţii „Petre Andrei", Tom VIII, Iaşi, 1998**.**
8. Constantin Cloşcă, Gabriel Asandului, *Statutul administrativ din zona românească ocupată de trupele sovietice în perioada aprilie-august 1944,* în Anuarul Universităţii „Petre Andrei", Tom VII, Iaşi, 1997. 9 p.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Gabriel Asandului, *Rolul administraţiei în procesul de rusificare a Basarabiei*, în Gabriel Asandului, Mihai Dorin (coord.), *Uniunea Europeană şi vecinătatea estică*, pp. 11-38, Editura Politehnium, Iaşi, 2015;
2. **Gabriel Asandului,** *From School of Electricity to Electrical Engineering (1910-1937),* Proceedings of the 3-RD Symposium on the History of Electrical Engineering and of tertiary-level Engineering Education, Iaşi, România, 2010, pp. 33-37;
3. **Gabriel Asandului**, *Intelectualii români sub regimul comunist*, în Omagiu Profesorului Ioan Scurtu, vol. II, Casa Editorială Demiurg, Iaşi, 2010, pp. 366- 378;

J. Invenţii.

K. Contracte de cercetare.

1. *Proiect ROSE nr. 83/SGU/CI/I – Reducerea abandonului şcolar al studenţilor din anul întâi prin activităţi remediale şi de consiliere în Centrul de Învăţare din cadrul TUIASI (REMEDIUM), 2018-2021; Expert-formator; director- prof.univ.dr. ing. Neculai Eugen Seghedin*

2. ***Project Title: Les fondements historiques et l' actualité du project Européen", 2012-2015*** *Reference: 529538-LLP-2012-RO-AJM-MO* *Lifelong Learning Programme-Call for Proposals (EAC/27/11)* *Jean Monnet Programme: Key Activity 1* *membru în proiect (Director- Conf. dr. Mihai Dorin)*
3. Proiectul de cercetare educaţională Red Aris Investigadora, *nr. 2005-1472/001-001,* *Abandonul şcolar şi dificultăţi de învăţare în învăţământul vocaţional",* ***programul Socrates**, acţiunea 6.1.2. şi 6.2.,* *octombrie 2005-octombrie 2007* *membru în proiect (Director – Lect. univ. dr. Tudor Stanciu)*
4. Un proiect european în dinamica modernizării României: evoluţia învăţământului tehnic superior ieşean, *Tema 20/anexa I-a, cod* ***CNCSIS 591**, nr.contract 27637/14.03.2005,* *aprilie 2005-aprilie 2007* *membru în proiect (Director-Conf. univ.dr. Mihai Dorin).*

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
18.09.2025

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele și prenumele: BARNA ANA SIMONA

A. Teza de doctorat.

Biomateriale apatitice cu aplicabilitate în medicină şi potecţia mediului
Doctorat în domeniul Chimie,
Dată acordare titlu doctor: 03.12.2013
pe baza Ordinului Ministrului Educaţiei Naţionale nr. 5581 MD

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1) Daniela Şuteu, Sofronia Bouariu, Alexandra Tucaliuc, **Simona Barna – *Controlul calităţii produselor. Elemente de teorie şi lucrări practice***, Editura Performantica, Iaşi, 2015, 188 pg., ISBN:978-606-685-214-2

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1) Barna S, Maxim C, Trifan A, Blaga AC, Cimpoesu R, Turcov D, Suteu D, Preliminary Approaches to Cosmeceuticals Emulsions Based on N-ProlylPalmitoyl Tripeptide-56 Acetat-Bakuchiol Complex Intended to Combat Skin Oxidative Stress, Int. J. Mol. Sci. 2023, 24, 7004. https://doi.org/10.3390/ijms24087004, **FI 5.6**

2) Turcov, D; **Barna, AS**; Blaga, AC; Ibanescu, C; Danu, M; Trifan, A; Zbranca, A; Suteu, D, *Dermatocosmetic Emulsions Based on Resveratrol, Ferulic Acid and Saffron (Crocus sativus) Extract to Combat Skin Oxidative Stress-Trigger Factor of Some Potential Malignant Effects: Stability Studies and Rheological Properties,* PHARMACEUTICS, Volume14, Issue11, 2022, DOI: 10.3390/pharmaceutics14112376, **FI 5,4**

3) Turcov, D; **Barna, AS**; Trifan, A; Blaga, AC; Tanasa, AM; Suteu, D, *Antioxidants from Galium verum as Ingredients for the Design of New Dermatocosmetic Products,* PLANTS-BASEL, Volume11, Issue19, 2022, DOI10.3390/plants11192454; **FI 4,5**

4) Turcov, D; **Barna, AS**; Apreutesei, OT; Trifan, A; Puitel, AC; Suteu, D*; Valorization of Bioactive Compounds from Residual Saffron Biomass (Crocus sativus L.) to Obtain High Value Added Dermato-Cosmetic Products,* BIORESOURCES, Volume 17; Issue 3; Page 4730-4744; 2022, DOI10.15376/biores.17.3.4730-4744; **FI 1,5**

5) Turcov, D; **Barna, S**; Profire, L; Iacob, AT; Lisa, G; Puitel, AC; Zbranca, A; Suteu, D; *Physico-Chemical Characterization Of The Antioxidant Mixture Resveratrol-Ferulic Acid For Applications In Dermato-Cosmetic Products,* FARMACIA, Volume70, Issue 3, Page 410-416, 2022, DOI10.31925/farmacia.2022.3.5; **FI: 1,6**

6) G. Ciobanu, **S. Barna**, M. Harja, *Kinetic and equilibrium studies on adsorption of Reactive Blue 19 dye from aqueous solutions by nanohydroxyapatite adsorbent,* Archives Of EnvironmentalProtection, Volume: 42, Issue: 2, pp: 3-11, 2016

7) Barna A.S.; Ciobanu G.; Luca C., *Nanohydroxyapatite - calcium Fructoborate Composites Synthesis and characterization*, Revista de Chimie, Volume: 66, Issue: 10, pp: 1618-1621, 2015.

8) Ciobanu G., **Ilisei S.**, Luca C., *Hydroxyapatite-silver nanoparticles coatings on porous polyurethane scaffold*, Materials Science and Engineering C - Materials for Biological Applications, 35, pp. 36-42, 2014.

9) Ciobanu G., **Ilisei S.,** Luca C., *Ag-loaded hydroxyapatite coatings on polyurethane surfaces by biomimetic deposition*, Revue Roumaine de Chimie, Tome 58 (2-3), pp. 223-227, 2013.

10) Ciobanu G., **Ilisei S.,** Harja M., Luca C., *Removal of Reactive Blue 204 dye from aqueous solutions by adsorbtion onto monohydroxyapatite*, Science of Advanced Materials, vol. 5 (8), pp 1090-1096, 2013.

11) Ilisei S., Ciobanu G., Luca C., *Pyridoxine Incorporated in Hydroxyapatite/Polyurethane Composites*, Materiale Plastice, 49 (4), pp. 285-287, 2012.

12) Ciobanu G**., Ilisei S.,** Luca C., Carja G., Ciobanu O., *The effect of vitamins to hydroxyapatite growth on porous polyurethane substrate*, Progress in Organic Coatings, 74 (4), pp. 648–653, 2012, FI 2.302.

13) Ciobanu G., Luca C., **Ilisei S**., Luca AC. *New polyurethane – hydroxypatie composites membranes*, Environmental Engineering and Management Journal, Vol 11 (2), pp. 291-297, 2012.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Bargan, A.M., **Ilisei S**., Ciobanu G., Luca C., *Influence of different calcium and phosphorus surces in the synthesis on nanohydroxyapatite powder*, Buletinul Institutului Politehnic Iaşi, Secţia Chimie si Inginerie Chimica, LIX (LXIII), Fasc. 2, pp. 81-87, 2013.
2. **S. Ilisei**, G. Ciobanu, C. Luca, *Comparative study about biomimetic methods used in hydroxyapatite crystals growth on the polymeric surface*, Buletinul Institutului Politehnic Iaşi, Secţia Chimie si Inginerie Chimica, Tomul LVIII (LXII), Fasc. 1, pp.117-125, 2012.
3. **S. Ilisei**, A.M. Bargan, G. Ciobanu, C. Luca, Synthesis and characterization of nanohydroxyapatite powders, Buletinul Institutului Politehnic Iaşi, Secţia Chimie si Inginerie Chimica, Tomul LVIII (LXII), Fasc. 1, pp.229-234, 2012.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

J. Invenţii.

K. Contracte de cercetare.

1) “Dezvoltarea relaţiilor bilaterale în vederea cooperării ştiinţifice şi didactice în domeniul nanomaterialelor compozite cu aplicaţii în medicină**”** din cadrul Fondului pentru Relații Bilaterale al Programului RO14 „Cercetare în Sectoare Prioritare” 6 BIL /22.09.2016.- director proiect

2) Launching of Sector Skills Alliance for Training & Apprenticeship of Health Care and Food Supplements Salespersons" (H-CARE); 540170-LLP-1-2013-1-TR-LEONARDO-LMP. – membru proiect (director proiect: prof. Gabriela Ciobanu)
3) „Studii doctorale pentru performanţe europene în cercetare şi inovare" (CUANTUMDOC) –POSDRU/107/1.5/S/79407 (2007-2013) . – membru proiect
4) „Obţinerea unor fitopreparate cu rol în profilaxia unor afecţiuni cardiovasculare" (CARDIOFIT), număr proiect 2718, Coordonator proiect: S.C. Centrul de Cercetare şi Prelucrare Plante Medicinale "PLANTAVOREL" S.A.- Piatra Neamţ– membru proiect

L. Premii, distincţii.

1. **Medalie de argint – EUROINVENT 2021** – European Exhibition of Creativity and Innovation, Iasi, Romania pentru lucrarea „ ENHANCING ANTIOXIDANT ABILITY OF RESVERATROL USED IN DERMATO-COSMETIC PRODUCTS"
2. **Medalie de bronz – EUROINVENT 2021** – European Exhibition of Creativity and Innovation, Iasi, Romania pentru lucrarea „PRELIMINARY PROCESSING OF FLORAL BIO-RESIDUES OF SAFFRON (*CROCUS SATIVUS* L.) AS A INNOVATIVE SOURCE FOR DEVELOPMENT OF HIGH ADDED-VALUE COSMETIC PRODUCTS"
3. **Medalie de argint - EUROINVENT 2020** – European Exhibition of Creativity and Innovation, Iasi, Romania pentru lucrarea „FORMULATION OF PHYTOCOSMETIC NANOEMULSION FOR TOPICAL THERAPY OF *ACNE VULGARIS"*
4. **Medalie de aur - EUROINVENT 2019** – European Exhibition of Creativity and Innovation, Iasi, Romania pentru lucrarea "FORMULATION AND EVALUATION OF HYDROPHOBIC OINTMENT FOR THE TREATMENT OF TROPHIC INJURIES"
5. **Medalie de argint** – **EUROINVENT 2017** – European Exhibition of Creativity and Innovation, Iasi, Romania pentru lucrarea "HYDROXYAPATITE – EUGENIC ACID BIOCOMPOSITES FOR RESTORATIVE AND PROSTHODONTIC APPLICATIONS IN DENTISTRY"
6. **Medalie de aur – EUROINVENT 2015** – European Exhibition of Creativity and Innovation, Iasi, Romania pentru lucrarea "H-CARE PROJECT PROMOTING THE FOOD SUPPLEMENTS IN HEALTH CARE SECTOR POSTER"

M. Alte realizări semnificative.

- Stagiu de cercetare (29 noiembrie – 6 decembrie 2016) la *Institute of Biomedical and Neural Engineering/ Biomed, School of Science and Engineering Technology Centre - Reykjavik University, Iceland*
- Stagiu de cercetare (iulie–august 2014) în cadrul *Universităţii din Twente, Facultatea de Ştiinte şi Tehnologii, Departamentul de Inginerie Tisulară (MIRA), Olanda*.
- Lector în cadrul Cursului Academic de Vară „Healthy is the new cool. Give it a try!" 2016, organizat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi.
- participant la cursurile Şcolii de vară a+, ediţia a-2a, organizator: S.C. ANTIBIOTICE a+ S.A, Iaşi.

Data, 20.10.2025 Semnătura,

LISTA DE LUCRĂRI ÎN DOMENIUL DE STUDII UNIVERSITARE DE LICENTA INGINERIE MECANICĂ

Prof.univ. dr. ing. BEJINARIU COSTICĂ

I. REALIZARI IN ACTIVITATEA DIDACTICA

I.1. Carti/cursuri (capitole teoretice redactate) publicate în edituri recunoscute (**Ca**)

1. **Bejinariu, C.**, Mălureanu, I., *Tehnologia materialelor * Ştiinţa şi Ingineria materialelor*, Editura Tehnopress, Iaşi, 2022, 554 pg., ISBN 978-606-687-499-1
2. Gheorghiu, D.A., **Bejinariu, C.**, *Metalurgia sudării*, Editura PIM, Iaşi, 2013, 225 pg., ISBN 978-606-13-1608-3
3. **Bejinariu, C.**, *Tehnologia materialelor*, Proiect POSDRU/87/1.3/S/60891 DidaTec, Iaşi, 2012, 823 pg., http://www.didatec.ro
4. Moldoveanu, V.V., **Bejinariu, C.**, Florescu, A., *Tehnologia materialelor*, Editura Tehnopress, Iaşi, 2008, 271 pg., ISBN 978-973-702-502-9
5. Florescu, A., **Bejinariu, C.**, Moldoveanu, V.V., *Noţiuni de ingineria materialelor*, Editura Tehnopress, Iaşi, 2008, 324 pg., ISBN 978-973-702-536-4
6. **Bejinariu, C.**, Mălureanu, I., *Tehnologia materialelor*, Editura Tehnopress, Iaşi, 2003, 382 pg., ISBN 973-8377-47-1
7. Florescu, A., **Bejinariu, C.**, Dima, A., *Ştiinţa şi tehnologia materialelor*, Editura Panfilius, Iaşi, 2001, 456 pg., ISBN 973-85195-8-6

I.2. Indrumare publicate/culegeri de probleme (**I**)

1. **Bejinariu, C.**, Mălureanu, I., Moldoveanu, V. V., Toma, S. L., Gheorghiu, D. A., Lohan, N. M., Corabieru, A., Cazac, A. M., Burduhos-Nergis, D. P. *Tehnologia materialelor * Ştiinţa şi Ingineria materialelor – Lucrări practice*, Editura Tehnopress, Iaşi, 2022, 346 pg., ISBN 978-606-687-500-4
2. **Bejinariu, C.**, *Tehnologia materialelor – lucrări practice*, Proiect POSDRU/87/1.3/S/60891 DidaTec, Iaşi, 2012, 264 pg., http://www.didatec.ro
3. **Bejinariu, C.**, Rusu, I., Toma, St. L., Lohan, M. N., *Ingineria materialelor metalice,* aplicaţii practice, Editura PIM, Iaşi, 2011, 204 pg., ISBN 978-606-13-0190-4
4. **Bejinariu, C.**, Mălureanu, I., *Tehnologia materialelor,* lucrări practice, Editura Tehnopress, Iaşi, 2005, 200 pg., ISBN 973-702-107-X
5. Florescu, A., Mălureanu, I., Comăneci, R., **Bejinariu, C.**, Dănilă, R., Calancia, Ov., Moldoveanu, V., Gheorghiu, D., Minea, A., *Ştiinţa şi tehnologia materialelor*, Editura Cermi, Iaşi, 1997, 156 pg., ISBN 973-97303-5-3

II. CONTRIBUTII STIINTIFICE LA DEZVOLTAREA DOMENIULUI

II.1. Carti de specialitate publicate în edituri din tara (recunoscute de CNCS) sau din strainatate (**Cb**)

II.1.1. Carti de specialitate publicate în edituri din strainatate (**Cb**)

1. Florea, C.D., **Bejinariu, C.**, Cimpoesu N., Cimpoesu, R. *Automotive Brake Disc Materials.* Published by Materials Research Forum LLC. Millersville, PA 17551, United States of America, 2021. Published as part of the book series. Materials Research Foundations. Volume 105 (2021). ISSN 2471-8890 (Print). ISSN 2471-8904 (Online). Print ISBN 978-1-64490-144-1. ePDF ISBN 978-1-64490-145-8. 142 p. doi: https://doi.org/10.21741/9781644901458.
2. Burduhos-Nergis, D.P., **Bejinariu, C.**, Sandu A.V. *Phosphate Coatings Suitable for Personal Protective Equipment*. Published by Materials Research Forum LLC. Millersville, PA 17551, United States of America, 2020. Published as part of the book series. Materials Research Foundations. Volume 89 (2021). ISSN 2471-8890 (Print). ISSN 2471-8904 (Online). Print ISBN 978-1-64490-110-6. ePDF ISBN 978-1-64490-111-3. 188 p. doi: https://doi.org/10.21741/9781644901113.
3. Sandu A.V., **Bejinariu, C.**, Sandu I.G., Abdullah M.M.B. *Modern Technologies of Thin Films Deposition. Chemical Phosphatation*. Published by Materials Research Forum LLC. Millersville, PA 17551, United States of America, 2018. Published as part of the book series. Materials Research Foundations. Volume 39 (2018). ISSN 2471-8890 (Print). ISSN 2471-8904 (Online). Print ISBN 978-1-945291-90-6. ePDF ISBN 978-1-945291-91-3. 158 p. doi: http://dx.doi.org/10.21741/9781945291913.

II.1.2. Capitole de carti de specialitate publicate în edituri din strainatate (**Cb**)

1. Darabont, D.C., **Bejinariu, C**. *Digitalization of the Occupational Health and Safety Management Processes*. Book Chapter. Springer Nature Link. Editors: Ivascu, L.,·Cioca, L.I.,·Banciu, D.,·Filip, F.G. First Online: 22 August 2024, pp 53–65. Digital Transformation. Exploring the Impact of Digital Transformation on Organizational Processes. Part of the book series: Intelligent Systems Reference Library (ISRL), volume 257, ISSN 1868-4394, e-ISSN 1868-4408. ISBN 978-3-031-63336-2, ISBN 978-3-031-63337-9 (eBook). https://doi.org/10.1007/978-3-031-63337-9. Series Editors: Janusz Kacprzyk, Polish Academy of Sciences, Warsaw, Poland Lakhmi C. Jain, KES International, Shoreham-by-Sea, UK.
2. **Bejinariu, C.** Darabont, D.C., Burduhos-Nergis, D.P. *INCDPM Method for Assessing the Risk of Occupational Injury and Illness at Work* – Book Chapter. *Occupational Health and Safety* – Book. Editors: Rotaru, M., Cioca, L.I., pp. 127-147. ISBN (Online): 978-981-5165-52-4. ISBN (Print): 978-981-5165-53-1. ISBN (Paperback): 978-981-5165-54-8. 2024, Bentham Books imprint. Published by Bentham Science Publishers Pte. Ltd. Singapore.
3. Darabont, D.C., **Bejinariu, C.** *Health and Safety Performance Monitoring and Measuring* – Book Chapter. *Occupational Health and Safety* – Book. Editors: Rotaru, M., Cioca, L.I., pp. 107-126. ISBN (Online): 978-981-5165-52-4. ISBN (Print): 978-981-5165-53-1. ISBN (Paperback): 978-981-5165-54-8. 2024, Bentham Books imprint. Published by Bentham Science Publishers Pte. Ltd. Singapore.
4. Burduhos-Nergis, D.-P., Sandu, A.V., Burduhos-Nergis, D.-D., Cimpoesu, N., Benchea, M., Popa, M., **Bejinariu, C**. *Tribological Characterization of Phosphate Coatings Deposited on Ti6Al4V*. (2023) Springer Proceedings in Materials, 38, pp. 9-

21. DOI: 10.1007/978-3-031-45964-1_2. Document Type: Book Chapter. Publication Stage: Final. Source: Scopus. https://link.springer.com/book/10.1007/978-3-031-45964-1?sap-outbound-id=105B514606B2E29F4CAE44EFB69E57872F43982B&utm_source=standard&utm_medium=email&utm_campaign=000_LAN36_0000019083_Book%20author%20congrats%20NEW&utm_content=EN_34155_20231028&mkt-key=3BD70CE608B01EEE85E3CDA1AAC91B0B

5. Burduhos-Nergis, D.-P., Sandu, A.V., Burduhos-Nergis, D.-D., Nejneru, C., Vizureanu, P., **Bejinariu, C**. *Phosphate Conversion Coatings for Biomaterials: A Bibliometric Analysis*. (2023) Springer Proceedings in Materials, 38, pp. 203-214. DOI: 10.1007/978-3-031-45964-1_18. Document Type: Book Chapter. Publication Stage: Final. Source: Scopus. https://link.springer.com/book/10.1007/978-3-031-45964-1?sap-outbound-id=105B514606B2E29F4CAE44EFB69E57872F43982B&utm_source=standard&utm_medium=email&utm_campaign=000_LAN36_0000019083_Book%20author%20congrats%20NEW&utm_content=EN_34155_20231028&mkt-key=3BD70CE608B01EEE85E3CDA1AAC91B0B
6. Toma, S.L., Haraga, R.A., Chicet, D.L., Paleu, V., **Bejinariu, C.** CHAPTER TITLE: *Hard alloys with high content of WC and TiC - deposited by arc spraying process*. BOOK TITLE: *Welding - Modern Topics*. IntechOpen Rijeka: Janeza Trdine 9, 51000 Rijeka, Croatia London: 5 Princes Gate Court, London, SW7 2QJ, UK +44 20 8089 5702 www.intechopen.com. DOI: 10.5772/intechopen.94605. 24 p. https://www.intechopen.com/online-first/hard-alloys-with-high-content-of-wc-and-tic-deposited-by-arc-spraying-process.
7. Editors: Agop. M, Ioannou, P.D., Nica, P., Paun, V., *The fractal and it's implications in the material science*, Chapter I, **Bejinariu, C.**, Marin, C., Timofte, A., *Some generalizationson fractal theory*, Ed. Athens University Press, Greece, 2008, 214 p. (59 p./ Ch 1), ISBN 978-960-92410-1-4

II.1.3. Carti de specialitate publicate în edituri din tara (recunoscute de CNCS) (**Cb**)

1. Savin, C., Nejneru, C., Perju, M.C., **Bejinariu, C.** *Caracteristici ale materialelor utilizate pentru pompe de ape reziduale*, Editura Tehnopress, Iaşi, 2022, 262 pg., ISBN 978-606-687-501-1
2. Sandu A.V., **Bejinariu, C.**, *Tehnologii moderne de fosfatare – studii şi aplicaţii*, Editura POLITEHNIUM, Iaşi, 2013, 130 pg., ISBN 978-973-621-404-2
3. **Bejinariu, C.**, *Extrudarea indirectă la rece a oţelului*, Editura Tehnopress, Iaşi, 2008, 266 pg., ISBN 978-973-702-582-1
4. Ştefan, M., Vizureanu, P., **Bejinariu, C.**, Manole, V., *Baze de date şi sisteme expert în selecţia şi proiectarea materialelor*, Editura Tehnopress, Iaşi, 2008, 297 pg., ISBN 978-973-702-514-2
5. Ştefan, M., Vizureanu, P., **Bejinariu, C.**, Bădărău, Gh., Manole, V., *Studiul proprietăţilor termice ale materialelor*, Editura Tehnopress, Iaşi, 2008, 294 pg., ISBN 978-973-702-566-1
6. Zaharia, L., **Bejinariu, C.**, Comăneci, R., *Analiza deformării plastice cu metoda elementului finit*, Editura Tehnopress, Iaşi, 2002, 165 pg., ISBN 973-8048-21-4
7. Mălureanu, I., **Bejinariu, C.**, *Tehnologia materialelor*, Editura „Gheorghe Asachi" (Politehnium), Iaşi, 1999, 403 pg., ISBN 973-99209-5-0

II.1.4. Carti /capitole ca editor (**CE**)
II.1.4.2. Internaţionale

1. **Bejinariu, C.**, Cimpoesu, N. *Corrosion Resistance Enhancement of the Materials Surface*. Special Issue Reprint. Editors, Costica Bejinariu, Nicanor Cimpoesu. https://www.mdpi.com/books/book/7726. ISBN 978-3-0365-8029-6 (hardback), ISBN 978-3-0365-8028-9 (PDF). https://doi.org/10.3390/books978-3-0365-8028-9. https://mdpi-res.com/bookfiles/book/7726/Corrosion_Resistance_Enhancement_of_the_Materials_Surface.pdf?v=1691418118. This is a reprint of articles from the Special Issue published online in the open access journal Materials (ISSN 1996-1944) (available at: https://www.mdpi.com/journal/materials/special_issues/corrosion_resistance_enhancement). August 2023. 194 pg.

II.1.4.1. Naţionale

1. **Bejinariu, C.**, Bernevig, M. A., Burduhos-Nergis, D. P., Botezatu, E. *Locurile de muncă sănătoase îți fac sarcina mai ușoară. Afecțiunile musculo-scheletice (AMS)*, Simpozionul Regional „Săptămâna europeana pentru securitate și sănătate în muncă" Focșani, 3-5 octombrie 2022. Editura PIM, Iaşi, 2022, 163 pg., ISBN 978-606-13-7133-4

II.2. Articole/studii publicate în reviste de specialitate de circulatie internationala (**Ri**)

II.2.0. Carti ISI (**ISI_BOOK**) şi Capitole ISI (**ISI_BOOK_CHAPTER**)

Web of Science Core Collection - BOOK

1. Sandu, A.V., **Bejinariu, C**., Sandu, I.G., Abdullah, M.M.A. *Modern Technologies of Thin Films Deposition: Chemical Phosphatation*. Book Series: Materials Research Foundations. Volume: 39. Pages: 1-149. Published: 2018. Document Type: Book. Publisher: MATERIALS RESEARCH FORUM LLC, 105 SPRINGDALE LN, MILLERSVILLE, PA 17551 USA. Research Areas: Materials Science. Web of Science Categories: Materials Science, Coatings & Films. Book Chapter Count: 5. Language: English. Accession Number: WOS: 000452924600006. ISBN: 978-1-945291-90-6. ISSN: 2471-8890. eISSN: 2471-8904. IDS Number: BL5XZ. Surse: http://www.mrforum.com/product/9781945291913/, http://apps.webofknowledge.com

Web of Science Core Collection – BOOK Chapter

1. Sandu, A.V., Bejinariu, C., Sandu, I.G., Abdullah, M.M.A. *Known Phosphating Technologies*. Modern Technologies of Thin Films Deposition: Chemical Phosphatation. Book Series: Materials Research Foundations. Volume: 39. Pages: 1-18. Published: 2018. Document Type: Article; Book Chapter. Publisher: MATERIALS RESEARCH FORUM LLC, 105 SPRINGDALE LN, MILLERSVILLE, PA 17551 USA. Research Areas: Materials Science. Web of Science Categories: Materials Science, Coatings & Films. Language: English. Accession Number: WOS: 000452924600001. ISBN: 978-1-945291-90-6. ISSN: 2471-8890. eISSN: 2471-8904. IDS Number: BL5XZ. Surse: http://www.mrforum.com/product/9781945291913/, http://apps.webofknowledge.com
2. Sandu, A.V., Bejinariu, C., Sandu, I.G., Abdullah, M.M.A. *Creation of Thin Phosphate Films in the Laboratory*. Modern Technologies of Thin Films Deposition: Chemical Phosphatation. Book Series: Materials Research Foundations. Volume: 39. Pages: 19-

32. Published: 2018. Document Type: Article; Book Chapter. Publisher: MATERIALS RESEARCH FORUM LLC, 105 SPRINGDALE LN, MILLERSVILLE, PA 17551 USA. Research Areas: Materials Science. Web of Science Categories: Materials Science, Coatings & Films. Language: English. Accession Number: WOS: 000452924600002. ISBN: 978-1-945291-90-6. ISSN: 2471-8890. eISSN: 2471-8904. IDS Number: BL5XZ. Surse: http://www.mrforum.com/product/9781945291913/, http://apps.webofknowledge.com

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IV. TEZA (TEZELE) DE DOCTORAT

T1. Studii şi cercetări privind fabricarea prin extruziune inversă a unor produse de tip piuliţă din unele oţeluri uşor extrudabile

Data: 2025-10-01

Prof. univ. dr. ing. Costică BEJINARIU

Anexa Lista de lucrări

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Blanari I., Goanță V., Alexandrov M., *The numerical simulation of contact between rail-wheel using FEA,* IOP Conference Series: Materials Science and Engineering, Volume 444, Issue 6, 10 pg., IOP Publishing. 2018.
Blanari I., Goanță V., Mareș M., Leițoiu B., Bârsănescu P.D., Alexandrov M., *Determining residual stresses in operating railroad tracks*, IOP Conference Series: Materials Science and Engineering, Volume 444, Issue 6, 10 pg., IOP Publishing., 2018.
Blanari I., Dănilă N.A., Alexandrov M., Goanță V., *Stress/Strain analysis at the wheel-rail contact under the influence of thermo-mechanical loads,* Conference Series: Materials Science and Engineering, Volume 434, Issue 7, 10 pg., IOP Publishing., 2018.
Brevet de invenţie
Mihăila Marius, **Blanari Igor**, Morăraș Ciprian-Ionuț, Bârsănescu Paul-Doru, *Cerere brevet de invenție 00147/3033 „Senzor cu sensibilitate ridicată, pentru cântărirea autovehiculelor în mișcare"* OSIM, 2022;

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: lector univ. dr. Bobu Roxana

A. Teza de doctorat.

Instituție: Universitatea ”Alexandru Ioan Cuza” din Iași, Facultatea de Psihologie și Științele Educației
Perioada: 2010 – 2013
Indrumator: Prof. Univ. Emerit dr. Laurențiu Șoitu
Titlul tezei: ”Consilierea elevilor pentru carieră. Perspective constructiviste”
Titlul: DOCTOR în Științele Educației, diploma seria H, nr. 0018488, ordin ministru 5581 MD/03.12.2013

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

- **Axinte (Bobu), R.** – capitol : *An Investigative Approach for Putting the Constructivist Counselling Model by school counselors into Practice;* edited by Georgeta Raţă and Patricia Luciana Runcan, volumul *”*Education and Continuos Education”; Cambridge scholars publishing, 2014, ISNB (10): 1-4438-5640-1, ISNB (13): 978-1-4438-5640-0; pp.19-27, 2014.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

- **Bobu, R.,** - *Formare și dezvoltare profesională în contextul relației mentor-mentee*, pp 192-196, în volumul Unitatea și continuitatea educației, coord. Petrovici, M., C., Romaniuc, L:, Pascu, M., S., ISBN 978-606-714-920-3, Editura Universității A.I.Cuza, categoria B, Iași, 2025. https://www.editura.uaic.ro/produse/editura/carti-in-pregatire/unitatea-si-continuitatea-educatiei-volum-omagial-dedicat-profesorului-laurentiu-soitu-
- **Bobu, R.** - *Leadership situațional în educația timpurie*, pp 308-326, în volumul Dezvoltare și leadership în educația timpurie, Colecția Educație și formare, coord. Clipa, O., ISBN 978-606-40-2577-7, Editura Trei, București, 2024. https://www.edituratrei.ro/carte/dezvoltare-si-leadership-in-educatia-timpurie/13816/
- **Axinte, R. -** *Consilierea carierei. O abordare constructivistă*, ISBN 978-606-714-468-0, Editura Universității Al. I. Cuza, Colecția științele educației, categoria B, Iași, 2018.
- Jitaru, O., **Bobu, R.** – *Dezvoltare personală și consiliere în carieră. Ghid pentru profesori și studenți,* Editura Performantica, acreditată CNCSIS Bcurești 1142/30.06.2003ISBN 978-630-328-058-5, Iași, 2023.
- **Bobu, R. -** *Rolurile profesorului mentor. Responsabilitate profesională și pasiune*, în Vol. Învățarea continuă. Tendințe actuale în educație și societate (TAVES), coord. Stanciu, T., Tofan, C.M., ISBN 978-606-714-796-4, Editura Universității A. I. Cuza, categoria B, 2023.
- **Axinte (Bobu), R. -** *Consilierea pentru carieră,* în Șoitu, L. (coord.), ”Dimensiuni ale consilierii educaţionale”, ISBN 978-606-24-0064-4, Editura Institutul European, Colecţia Academica, Seria Ştiinţele Educaţiei, pp. 41-72, Iași, categoria B, 2014.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

- Măgurianu, C., Munteanu, A., **Axinte, R.,** Tătărușanu, F.**&**Gavrilă, C., Rotundu, E., Dascălu, C. (coord.) - *Studiu de impact: identificarea percepției cadrelor didactice privind calitatea și eficacitatea cursurilor de formare continuă – ISJ Iași 2007,* în Șerbănescu, L. (coord. volum) ”Analiza sistemului formării cadrelor didactice și a nevoilor de formare a didacticienilor din învățământul superior”, ISBN 978-973-755-955-1, Editura Matrix Rom, p.167-169, București, 2013.
- Gavrilă, C., **Axinte, R**., Tamaș, C., Pricop, A., I**.** - prezentare Colegiu ”Costache Negruzzi”, în Romaniuc, L., Vlasie, M., (coord.) *Ghid informativ de orientare școlară și profesională, nr. 21*, Editura Spiru Haret, Iași, pp. 26-31, 2011.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

- Curs Pedagogie II: Teoria și metodologia instruirii, Teoria și metodologia evaluării. Publicat web: www.dppd.tuiasi.ro
- Curs Pedagogie I: Fundamentele pedagogiei, Teoria și metodologia curriculumului. Publicat web: www.dppd.tuiasi.ro
- Curs: Psihopedagogia adolescenților, tinerilor și adulților, nivel II/postuniversitar. Publicat web: www.dppd.tuiasi.ro
- Pedagogie I – suport de învățare pentru studenți; Ghid de aplicații online**.** Publicat web: www.dppd.tuiais.ro
- Pedagogie II – suport de învățare pentru studenți; Ghid de aplicații online. Publicat web: www.dppd.tuiais.ro
- Strategii de predare interactive – suport de învățare pentru studenți, utilizat în cadrul disciplinei Pedagogie II. Publicat www.dppd.tuiasi.ro
- Mapa studentului (tehnici de studiu/lectură, elemente de management a timpului);Publicat pe www.dppd.tuiasi.ro
- Pedagogie I. Seminar. Experiențe de învățare. Publicat pe www.dppd.tuiasi.ro

F. L**ucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.**

- Jitaru, O., **Bobu, R** & Bostan, C. M. (2023). Social and emotional skills in adapting students to the academic environment. Revista Românească pentru Educație Multidimensională - The Romanian Journal for Multidimensional Education, Vol 15 (1), 590-605. (Indexat, Factor de impact = 2). DOI: https://doi.org/10.18662/rrem/15.1/713 - toți autorii au contribuții egale

G. Lucrări ştiinţifice publicate în reviste din străinătate.

- **Axinte, R.** - *Sociodinamic counseling. Creativity and adaptation for the school counselors,* în revista Psychology (American Journals), special Issue 125-Self Realization, SUA; ISSN Print: 2152-7180**,** SSN Online: 2152-7199**,** factor impact 1,15, pp. 1143-1158, 2019.
- **Axinte, R.** - Paradigms, theories, intervention models in career counselling, în Revista Studia Universitas Moldavie, nr. 5 (115), seria Științe ale Educației, ISSN 1857-2103, ISSN on-line

2345-1025, open access journals; CZU: 37.01:37.048; revistă Categoria B, factor de impact 2014= 0,1370; pp. 57-60; 2018.

- **Axinte, R**.-*Career development and professional success through mentoring,* Revista Studia Universitas Moldavie, nr. 9 (109), seria Științe ale Educației, ISSN 1857-2103, ISSN on-line 2345-1025, open access journals; CZU: 371.213.3.; revistă Categoria B, factor de impact 2014= 0,1370, pp. 43-48, 2017, WOS:000455654000045, 2017.
- **Axinte, R.-** *Actul predării. tradiție și interactivitate/ The act of teaching. Tradition and interactivity,* în revista Pro Didactica, nr. 2 (108), Chișinău, Republica Moldova, Categoria C (2019 categoria B), ISSN 1810-6455, pp. 6-8, 2018.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

- **Axinte, R.-***Le conseil pour l'intégration socioprofessionnelle comme étape dans la stratégie de lutte contre l'abandon scolaire*, în revista Drepturile Omului, anul XXVIII, nr. 4, pp 19-24, 2018.
- Jitaru, O., **Bobu, R.,** Anghel, I. O. - *Social competence and the profile of the student aspiring to theteaching career, în Review of artistic education,* nr. 25-26, pp. 229-234, ISSN = 2501 – 238X, ISSN-L = 2069 – 7554, ISSN = 2069 – 7554, Artes Pusblishing House, România, 2023, Iași.
- **Bobu, R**., Jitaru, O.: *The students emotional security and coping strategies in the context of the COVID-a9 pandemic*, în Revista de Pedagogie/ Journal of Pedagogy, 2022 (1), 31-48.
- Anghel, O., Jitaru, O**., Axinte, R**.: *Teaching strategies applied by teachers during the pandemic generated by COVID 19,* în Review of artistic education, nr. 23-24, pp. 251-257, ISSN 2501-238X, ISSN-L 2069-7554, ISSN 2069-7554, Artes Pusblishing House, România, 2022, Iași.
- **Bobu, R.,** Jitaru, O.**:** *Personal and professional development of teachers in the context of the mentoring activity*, în LES CAHIERS LINGUATEK, Revue semestrielle du Centre de Langues Modernes Appliquées et Communication LINGUATEK, Universitatea Tehnică Gheorghe Asachi Iaşi, nr. 11-12, ISSN 2601-0313 ISSN-L 2559-7752, pp 87098, Editura Politehnium, Iași, 2022.
- **Axinte, R.,** Jitaru, O. **-***Career Counselling.Perspectives on Socio-Dynamic Approach and Narrative Methods*, în Buletinul Institutului Politehnic din Iași, secțiunea științe socio-umane, volumul 67 (71) nr. 3-4/ 2021, pp 9-19, Editura Politehnium, Iași, 2021.
- **Axinte, R.,** Pruteanu, L., M. **-** *Training programs part of the strategy for teacher s professional development*, în Anuarul Universității P. Andrei din Iași, Fascicula Asistență socială, sociologie, psihologie, ISSN 2248-1060/ e-ISSN 2601-8209, volumul 27, 2021, pp 14-25, https://doi.org/10.18662/uspasw/27/49/
- **Axinte, R. -** *Perspectives of the mentorship process: professional learning and institutional development,* în revista Buletinul Institutului Politehnic din Iași, volumul 65 (69), nr. 3-4, Secția Științe socio-umane, ISSN electronic 2501-8760, ISSN –L 1224-5860, PP 23-29, Editura Politehnium, Iași, 2019.
- **Axinte, R.** - *Modelul Constructivist De Consiliere Și Percepția Elevilor Asupra Carierei,* în Revista de pedagogie/Journal of Pedagogy nr. 2, LXV 139, Institutul de Științe ale Educației, ISSN 0034-8678, online ISSN : 255-9-639X, ISSN-L 0034-8678, București, pp. 139-160, 2018.
- Sălăvăstru, D., **Axinte, R**., Cărăușu, C., Neculau, A., Vlasie, M. – "*Contextul" și efectele sale în școală. Un studiu de caz asupra instituției școlii în România,* în revista Analele Științifice ale Universității „A.I. Cuza" din Iași, seria Psihologie, tomul XVIII, nr.1, ISSN 1453-0767, Editura Universității A.I.Cuza din Iași, pp. 5-25, 2009.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

- **Bobu, R.,** Jitaru, O.**:** *Cognitive distortions and students' self-evaluation,* în volumul conferinței Values, education, responsability. Peagogical research, Eikon Publishing House, coord. Scheau, I., Opriș, D., Aleksandrov, A., ISBN 978-606-49-1303-62024/ https://www.ceeol.com/search/book-detail?id=1285986
- Jitaru, O., **Bobu, R. -** *Students`resilience and personal development in covid 19 pandemic,* coord. Soare, E., Langa, C, în vol. European Proceedings of Educational Sciences / EpES, pp 441-450, e-ISSN: 2672-815X, DOI: 10.15405/epes.23045.46, 2023.
- **Bobu, R.,** Jitaru, O.**:** *Counseling beginning teachers and optimizing teacher-student relationsh,* în vol. "Values, models, education. Contemporary perspectives", Editori Opriş, D., Scheau, I., Aleksandrov, A., editura Eikon Publishing House, Bucharest, e-ISBN: 978-606-49-0815-5, doi: https://foi.org/10.56177//epvl.ch22.2022.en, 2022.
- **Axinte, R**., Jitaru, O. - *L activite didactique en ligne. Benefices et dilemes ethique,* în coord. Dîrțu, E., Baciu, I., vol. Autor et a travers, pp. 95-106, ISBN 978-973-621-508-7, editura Politehnium, Iași, 2022.
- Jitaru, O., **Axinte, R**., Vatavu, C. - *The role of personal development in students adapting to the academic life*, vol. Conferința Internațională Scientific Research and Education in the Air Force – AFASES, pp. 63-71, ISSN, ISSN-L: 2247-3173, DOI: 10.19062/2247-3173.2021.22.10, Publishing House of H. Coandă Air Force Academy, Brașov, 2021**.**
- **Axinte, R. -** *The Role and Value of Teacher Training and Professional Development in Pre-University,* în volumul conferinței Education for values-continuity and context, editori Ungureanu, R., Mocanu, M., Edlearning, ISBN 978-88-87729-48-1, pp. 41-49, Editografica, Bologna, Italiy, WOS 000455654000005, 2018.
- **Axinte, R.** - *Career and Professional Success through Counselling*, în volumul conferinței Education for values – continuity and context, editori Ungureanu, R., Mocanu, M., ISNB 978=88-87729-48-1, pp. 343-350, Edlearning, Editografica, Bologna, Italiy, WOS: 000455654000045, 2018.
- **Axinte, R.**-*The school counselor: competencies in a constructivist model of counseling for career development"* în volumul manifestării științifice The Fourth International Conferince on Adult and Regional Perspectives, pp 255-259, WOS: 000345346000039, 2014.
- **Axinte (Bobu), R.,** Șoitu, L.- *Constructivist approaches to career counselling*, în volumul AFASES 2013, The 15th International Conference of Scientific Papers "Scientific research and education in the air force", secțiunea Științe umaniste, ISSN, ISSN–L:2247-3173, Publishing House of "H. Coandă" Air Force Academy, Brașov, pp. 107-115, 2013.
- **Axinte (Bobu), R.,** Șoitu, L**.-** *Competencies and roles of career counselors*, în volumul International Conference Back to Work-The rol of Validation of Competences in Professional Couseling of Adults, Zarifis, Gk., Martin, C., Sava, S., (coordonatori), ISBN 978-88-7587-661-6, Editura Medimond Proceedings Division, Bologna, Italy, pp. 1-4, 2012.

Articol/studiu publicat în volumul unei manifestări ştiinţifice neindexate în baze de date

- **Bobu, R.,** Jitaru, O., Cojan, M.: *Entrepreneurial skills, successful achievements in career development*, în vol „Adaptabilitatea-Competență SOFT în atingerea sustenabilității în context (post) pandemic: abordări interdisciplinare", coord. Suslenco, A., Melnic, S. ISBN 970-606-687-502-8, pp 23-3, editura acreditată CNSIS, Tehnopress, Iași, 2022.

- **Bobu, R.,** Jitaru, O.: *Creativitatea în formarea profesorilor/Creativity in teaching and training*, Vol. II, Proceedings of the International Scientific Conference "Genius, talent, creativity" 13th Edition, (coord. M. Rusu), ISBN 978-606-685-9066, pp 116-121,Iasi, Editura Performantica, 2022.
- **Axinte, R**., Jitaru, O. - *Competențele sociale și rolul lor în adaptarea studenților cu profil tehnic la mediul academic*, în vol. Educația din perspectiva valorilor. Tom XX: SUMMA PEDAGOGICA, Opriș, D., Scheau, I., Moșin, O. (coord.), ISBN 978-606-49-05925, Editura Eikon, București, pp 110-115, 2021.
- **Axinte, R. -** *Rolul de consilier educațional al cadrului didactic. Pasiune și motivație,* în vol. "Motivația pentru cariera didactică" nr. 2, ediția a II-a, Mihai, P., Torcărescu (coord.), Șt., ISSN 2734-4797, ISSN-L 2734-4797, Editura CCD I.Gh. Dumitrașcu, Buzău, pp 22-33, 2021.
- **Axinte, R**. – *Organizarea activității de mentorat*, în volumul "Motivația în cariera didactică" nr. 1, ediția a II-a, Mihai, P., (coord.) ISSN 2734-4797, ISSN0L 2734-4797, Editura CCD I. Gh. Dumitrașcu Buzău, pp 44-58, 2020.
- **Axinte, R. -** *Consilierea educațională a studenților o interacțiune activă între studenți și profesori*, editat în vol. II "Realizarea de sine. Adaptare și integrare socială", Rusu, M. (coordonator), ISBN 978-973-148-315-3, editura Ars Longa, Iași, 2019.
- **Axinte, R.,** Miclăuș, D., Gotcă, I. - *Aplicabilitatea consilierii socio-dinamice pentru carieră la nivel liceal,* în vol. coordonat de Milcu, M., ISBN 978-606-28-0846-4, Editura Universitară, recunoscută CNCS categoria B, București, pp. 111-121, 2018.
- **Axinte, R**. - *Building a career through counselling activities*, în volumul Counselors Role in the Local and global Community*,* editori Jansel., E., A.&Szilagy, A., Editura Universitară, recunoscută CNCS categoria B, București, ISBN 978-606-28-0712-2, pp. 58-65, 2018.
- **Axinte, R.** - *Necesitatea mentoratului în educație*, în volumul Simpozionului Internațional Kreatikon- Creativitate. Formare.Performanță, ediția a IV-a, Chișinău, Stoica, C., M., și Rusnac, S.. (coordonatori), Editura Pim, acreditată CNCSIS, ISSN 2068-1372, pp 85-94, Iași, 2018.
- **Axinte, R.-** *Comunicarea interpersonală în relația mentor-profesor debutant***,** editat în volumul II "Comunicare interpersonală repere psihologice și educative", Rusu, M. (coordonator), Editura Ars Long, Colecția Academica, Iași, pp 193-197, 2018.
- **Axinte, R**. - *Tradiție și actualitate în actul didactic,* în volumul *Acces, relevanță, calitate în educație. Competențe pentru viitor,* Mihai, P. (coordonator), Simpozion Național Buzău 2018, Editura Casei Corpului Didactic "I. Gh. Dumitrașcu", ISNB 978-606-8071-49-7, pp 22-26, 2018.
- **Axinte (Bobu), R**. - *Percepţii ale elevilor asupra activităţilor de consiliere în carieră,* în volumul manifestării-Fsed2013usv, Cercetare și practică în științele educației, coord. Cramariuc G. și Clipa O., ISNB 978-973-30-3516-9, Editura Didactică și Pedagogică, București, pp 239-246, 2013.
- **Axinte, R.** - *Tehnici folosite în activitatea de consiliere și orientare,* în vol. Simpozionului Național Kreatikon, ediția a IV-a, ISBN 978-973-730-365-3, Editura Performantica, Iași, 2007
- **Axinte R**.- *Program de dezvoltare a abilitatilor de comunicare. Rezultatele cercetari*, în vol. Dimensiuni ale educației la început de mileniu. Studii. Articole. Soluții didactice, coordonator Călugăru, D., Gavrilă, C., Guță, A., ISBN 987973-87689-5-6, Editura INFOED XXI, Iași, pp 90-94, 2007.

J. Invenţii. -

K. Contracte de cercetare

- colaborare în cadrul *proiectului* CNCSIS Idei nr. ID 2103/2008 - 2011"DEEA – Dicţionar Enciclopedic al Educaţiei Adulţilor", implementat de Universitatea "A.I.Cuza" din Iaşi; activități realizate – documentare/elaborare conținut din cadrul capitolului: Metode de educație a adulților;
- colaborator proiect CNCSIS *Atribuire și reatribuire în determinarea performanțelor și dispoziției afective la școlari: perspectivă ecologică*; proiect implementat de Facultatea de Psihologie și Științele Educației, Universitatea "A.I.Cuza" Iași, 2009-2010; activități realizate: organizarea demersurilor necesare pentru realizarea părții aplicative a cercetării;

L. Premii, distincţii.

- Diplomă de excelență – pentru cartea "Consilierea elevilor. Perspective constructiviste" premiată la cea de a XI-a ediție a *Salonul de carte tehnico-științifică, artistică și literară* asociat Expoziției Europene a Creativității și Inovării EUROINVENT 2019; eveniment organizat de Ministerul Cercetării și Inovării, Universității "A.I.Cuza", Universitatea Tehnică "Gh. Asachi", Universitatea de Medicină și Farmacie "Gr.T.Popa"; http://www.editura.uaic.ro/evenimente/palmares-euroinvent-2019-patru-medalii-de-aur-patru-de-argint-si-diplome-de-excelenta-pentru-carti-publicate-de-editura-universitatii-alexandru-ioan-cuza-din-iasi/421/1;
- Menționări: Literature "Search Career Counselling Competencies" 2015, 2017, CERIC Advancing Carrer Development, Canada.
  http://contactpoint.ca/wp-content/uploads/2015/04/Literature-Search-on-Career-Counselling-Competencies-April-2015.pdf

M. Alte realizări semnificative.

Elaborare materiale de învățare pentru cadre didactice preuniversitar (utilizate în programe de formare continuă acreditate MEN/DFC):

- Curs format blended-learning: Consiliere educațională și dezvoltare personală;
- Curs format blended-learning: Manangementul clasei de elevi, publicat/platforma Moodle: http://www.infoeducatia.ro/portal_elearning/course/view.php?id=43
- Curs format blended-learning: Strategii de predare-învățare-evaluare; publicat/platforma Moodle: http://www.infoeducatia.ro/portal_elearning/course/view.php?id=28
- Curs format blended-learning: Management educațional în instituțiile de învățământ preuniversitar perspective inovative", publicat/platforma Moodel: http://www.infoeducatia.ro/portal_elearning/course/view.php?id=27
- Curs format blended-learning:Mentorat. Strategii și inovare", publicat/platforma Moodle: http://www.infoeducatia.ro/portal_elearning/course/view.php?id=39
- Curs format face to face: Școala incluzivă și pedagogia diversității
- Curs format face to face: Consiliere privind cariera. Perspective constructiviste
- Curs format face to face: Consiliere educațională
- Curs format face to face: Comunicare instituțională, publicat/platform Moodle: http://www.infoeducatia.ro/portal_elearning/course/view.php?id=21

Elaborare materiale de învățare pentru cadre didactice preuniversitar (utilizate în programe de formare/perfecționare acreditate ANC):

- Curs pentru ocupația: Formator/ Formator de formatori - suport de curs; prezentări power-point; aplicații;
- Curs pentru ocupația: Designer instructional - suport de curs; prezentări power-point; aplicații;
- Curs pentru ocupația: Consilier dezvoltare personală - suport de curs; prezentări power-point;
- Curs pentru ocupația: Consilier orientare privind cariera - suport de curs; prezentări poer-point;
- Curs pentru ocupația: Mentor - suport de curs; prezentări power-point; aplicații;
- Curs pentru ocupația: Metodist - suport de curs; prezentări power-point; aplicații;
- Curs pentru ocupația: Evaluator de competențe profesionale - suport de curs;

Elaborare materiale de învățare pentru cadre didactice preuniversitar (utilizate în programe de formare/perfecționare neacreditate):

- Evaluare competențe – suport de curs; activități independente;
- Mediere pe piața muncii - suport de curs; activități independente, auxiliare de învățare;
- Succesul și eșecul școlar – suport de curs, prezentări power-point; aplicații;
- Managementul clasei și modalități de disciplinare pozitivă a elevilor - suport de curs, prezentări power-point; aplicații;
- Inteligența emoțională&nediscriminare în plan școlar- suport de curs, prezentări power-point;
- Planificare strategică a activității educaționale - suport de curs, prezentări power-point; aplicații;

Data,

Octombrie 2025 Semnătura,

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Brînzilă V. Marius Ciprian **- doctor inginer** din 2006, conferentiar din 2018

A. Teza de doctorat.

Sisteme de monitorizare şi control pentru parametrii de calitate ai mediului, Universitatea Tehnică "Gh.Asachi" din Iaşi, 2006, 183 pg.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Marius Branzila, Instrumentation and Virtual Library for Air Pollution Monitoring, capitol in cartea Air Pollution pp.241-264, Ed. Sciyo, Septembrie 2010, ISBN: 978-953-307-143-5
2. M. Branzila and C. Donciu, Distributed System Architecture Using a Prototype Web E-Nose pp. 1-16, capitol in cartea Advances in Biomedical Sensing, Measurements, Instrumentation and Systems din seria Lecture Notes in Electrical Engineering, vol.55, Ed. Springer, 2010, ISBN 978-3-642-05166-1
3. Marius Branzila, Eduard Lunca, capitolul Remote Test-bench Experiments for Teaching Laboratories Based on LabVIEW, Python and Java, în volumul Online Laboratories in Engineering and Technology Education (editori: Dominik May, Michael E. Auer, Alexander Kist), Editura Springer Cham, 2024, 20 pag., ISBN 978-3-031-70770-4

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Marius Branzila, Sisteme senzoriale pentru monitorizarea parametrilor de mediu, Ed. PIM, Iaşi, 210 pagini, ISBN 978-606-13-4154-2
2. Marius Branzila, Constantin Sarmasanu, Sisteme senzoriale. Aplicaţii, 2017, Sisteme senzoriale. Aplicaţii, Ed. PIM, Iaşi, 162 pagini, ISBN 978-606-13-4155-9
3. Valentin Stefanescu, Alexandru Miron, Marian Siminica, Marius Branzila, Lucian Nica, Aurel Nedelea, Mihai Ionita, Sandu Suru, Cristi Paraschiv, 2024, Instalatii electrice si sisteme electroenergetice, Ed.AGIR, 317 pag, ISBN 978-973-720-757-2
4. Valentin Stefanescu, Daniela Irimia, Marian Siminica, Alexandru Miron, Lucian Nica, Marius Branzila, Cristi Paraschiv, 2024, Probleme de electrotehnica, Ed.AGIR, 110 pag, ISBN 978-973-720-925-2

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Mihai Creţu, Constantin Sarmasanu, Marius Branzila, 2017, Senzori si traductoare, Politehnium, Iaşi, 369 pagini, ISBN 978-973-621-472-1

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Senzori inteligenti. Indrumar laborator, https://edu.tuiasi.ro/mod/resource/view.php?id=41678

2. Senzori si sisteme senzoriale. Support curs, https://edu.tuiasi.ro/mod/folder/view.php?id=14459
3. Senzori si sisteme senzoriale. Aplicatii, https://edu.tuiasi.ro/course/view.php?id=1972#section-2

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. M. Branzila, D. Codreanu, "IoT System For Environmental Monitoring And Improving Thermal Comfort And Air Quality," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 37-40, doi: 10.1109/EPEi63510.2024.10758184.(IEEE Xplore)
2. M. Branzila, S. Cislariu, "Design of a Laboratory Stand for the Study of Sensors and Sensory Systems," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 53-56, doi: 10.1109/EPEi63510.2024.10758072., (IEEE Xplore)
3. Branzila, S. A. Cîșlariu, S. Vornicu and C. Brinzila, "Sensory System Based on Intelligent Sensors for Implementation of a Modern Weather Station," 2023 International Conference on Electromechanical and Energy Systems (SIELMEN), Craiova, Romania, 2023, pp. 1-4, doi: 10.1109/SIELMEN59038.2023.10290770 (IEEE Xplore)
4. M. Branzila, C. Sarmasanu and I. A. Ursăchianu, "Python Technology Used For A Human-Machine Interface In Sensors And Transducers Laboratory", 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2022, pp. 422-425, doi: 10.1109/EPE56121.2022.9959821. (IEEE Xplore)
5. I. Pavel, M. Branzila, C. Sărmășanu and C. Donose, "LabVIEW Based Control and Monitoring of a Remote Test-Bench Experiment for Teaching Laboratories," 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), 2021, pp. 398-402, doi: 10.1109/SIELMEN53755.2021.9600348. (IEEE Xplore)
6. Zet C., Branzila M, Fosalau C, Sensor Network for Indoor Home Plants, 2019 International Conference on Sensing and Instrumentation in IoT Era (ISSI), 29-30 Aug. 2019 Lisbon, Portugal, 2019 (IEEE Xplore)
7. Brinzila M., Sarmasanu C., Ciudin D., Lacatusu D., Sensors and Transducers Laboratory Kiosk, 2018 International Conference on Electrical and Power Engineering EPE 2018, Iaşi, October 18-19, 2018 (IEEE Xplore)
8. Brinzila M., Sarmasanu C., Gonçalves J. M., Lacatusu D., Smart Sensors For An Alarm System Using ARM Microcontroller, 2018 International Conference on Electrical and Power Engineering EPE 2018, Iaşi, October 18-19, 2018 (IEEE Xplore)
9. Marius Branzila, Constantin Sarmasanu, Mihai, Alexandru, Java Technology Used To Facilitate Measuring Activity Performed By Students In Laboratory, International Conference and Exposition on Electrical and Power Engineering, 541-544, 2016 (IEEE Xplore)
10. M. Branzila, C.Sarmasanu, L.Spataru, RASPIMON - Smart Sensory System For Environmental Monitoring, International Conference and Exposition on Electrical and Power Engineering, 752-755, 2014 (IEEE Xplore)
11. M. Branzila, C.Sarmasanu, G.Fanaru, ROBOTVOICE - Voice Command Of A Robot, International Conference and Exposition on Electrical and Power Engineering, 760 – 763, 2014 (IEEE Xplore)

12. Marius Branzila, Valeriu David, Wireless Intelligent Systems for Biosignals Monitoring Using Low Cost Devices, IMEKO, Barcelona, Spania, pp 319, 2013 (SCOPUS)
13. Marius Branzila, Constantin Sarmasanu, Low Cost Smart Sensors for an Intelligent Home, IMEKO, Barcelona , Spania, pp 323, 2013 (SCOPUS)
14. Marius Branzila, Valeriu David, Real time ECG signal processing for R peak detection using Wigner and wavelet functions, Environmental Engineering and Management Journal, June 2013, Vol.12, No. 6, 1207-1214, FI - 1,096
15. Doru Andritoi, Valeriu David, Radu Ciorap, Marius Branzila, Recording and processing ECG signal during magnetotherapy procedures, Environmental Engineering and Management Journal, June 2013, Vol.12, No. 6, 1231-1238 FI - 1,096
16. Marius Branzila, Valeriu David, Chandrashekhar Padole, ECG signal processing using Wigner function, International Conference and Exposition on Electrical and Power Engineering, 601 – 604, 2012 (IEEE Xplore)
17. Marius Branzila; Felix Mariut; Daniel Petrisor, Virtual instrument developed for ADCON weather station, International Conference and Exposition on Electrical and Power Engineering, 853 – 856, 2012 (IEEE Xplore)
18. Al.Trandabat, M.Pislaru, M.Branzila, SiadEnv-Environmental friendly E-building energy management system, Environmental Engineering and Management Journal March 2012, Vol.11, No. 3, 687-694, 1582-9596
19. Gruia S., Branzila M., Cretu M., Lacatusu D., Low cost virtual instrument for fast ECG monitoring, Journal of Engineering Studies and Research – Volume 17 (2011) No. 2, pp. 79-82
20. Branzila, M , Alexandru, C, Donciu, C, Trandabăţ Al., Schreiner C., Virtual environmental measurement center based on remote instrumentation, Environmental Engineering and Management Journal Volume: 6, Issue: 6, Pages: 517-520, NOV-DEC 2007, 1582-9596
21. Trandabat, A, Branzila, M , Donciu, C, Pislaru M., Ciobanu C., Using GPS technology and distributed measurement system for air quality mapping of residential area, Environmental Engineering and Management Journal Volume: 6, Issue: 6, Pages: 545-548 Published: NOV-DEC 2007, 1582-9596
22. Donciu, C, Temneanu, M, Branzila, M, Sustainable irrigation based on intelligent optimization of nutrients applications, Environmental Engineering and Management Journal, Volume: 6 Issue: 6, Pages: 537-540, Published: NOV-DEC 2007, 1582-9596
23. Donciu, C, Temneanu, M, Branzila, M, Urban traffic pollution reduction using an intelligent video semaphoring system, Environmental Engineering and Management Journal, Volume: 6 Issue: 6, Pages: 563-566, Published: NOV-DEC 2007, 1582-9596
24. Marius Brinzila, M.D.Pereira, Al. Trandabat, C. Schreiner, Virtual meteorological center, International Journal of Online Engineering, Vol. 3, No. 4 , 2007, pp. 45-48, ISSN: 1861-2121
25. Schreiner C., Branzila M., Trandabat A., Ciobanu, R., Air quality and pollution mapping system using remote measurements and GPS technology, Global Nest Journal, v.8, no.3, 2006, pp.927-932, ISSN 1790-7632
26. Brinzila Carmen, Brinzila Marius, A system to measure the current efficiency and energy specific consumption for BDD electrode, Buletin AGIR nr. 3/2012, iunie-august, ISSN-L 1224-7928, pp.151-154
27. Gruia S., Branzila M., Cretu M., Lacatusu D., Low cost virtual instrument for fast ECG monitoring, Journal of Engineering Studies and Research – Volume 17 (2011) No. 2, pp. 79-82

28. Marius Branzilă, Valeriu David, Wireless Intelligent Systems for Biosignals Monitoring, IEEE EHB 2011 Iasi, ISBN 978-606-544-078-4, volum indexat IEEE Xplore®, ISI-Proceedings, SCOPUS, INSPEC (IET) and EI (Engineering Information)
29. S.G. Lacatusu, M. Branzila, M.Cretu, D. Lacatusu, and S. Lacatusu, Virtual Instrument for Early Detecting Dental Decay Using Electrical Impedance Measurement Method, MEDITECH 2011, IFMBE Proceedings 36, pp. 172–175, 2011, Ed.Springer ISBN: 978-3-642-22585-7
30. M. Branzila, M. Cretu, V. David, G. Lacatusu, Trends in Biosignal Processing Using Intelligent Systems, MTC 2011, Vol.I, pp. 473-476
31. G. Lacatusu, M. Branzila, M. Cretu, D.Lacatusu, C.Cociorva, New trends in ECG signal processing using virtual instrumentation, MTC 2011, Vol.I, pp. 537-540
32. G. Lacatusu, M. Branzila, M. Cretu, D.Lacatusu, Improvment of ECG signal monitoring system using PDA phone and virtual instrumentation, MTC 2011, Vol.I, pp. 541-544
33. Perju, C; Branzila, MC; Cretu, M, Wireless monitoring system for risk management in assurance of drinking water quality, MTC 2009, VOL 1 Pages: 683-686 Published: 2009
34. Perju, C; Branzila, MC; Cretu, M, Wireless sensor networks for risk management in environmental quality, MANAGEMENT OF TECHNOLOGICAL CHANGES, VOL 2, Pages: 323-326, Published: 2009
35. Sarmasanu, C; Branzila, M; Breniuc, L, et al, On ways of monitoring the clinical laboratory using computer, MANAGEMENT OF TECHNOLOGICAL CHANGES, VOL 1 Pages: 717-720 Published: 2009
36. Sarmasanu, C; Breniuc, L; Branzila, M, Some ideas on improving quality management in TUIasi, MANAGEMENT OF TECHNOLOGICAL CHANGES, VOL 2 Pages: 351-354 Published: 2009
37. Alexandru, CI; Siminiceanu, I; Branzila, MC, et al., Development and environmental applications of new electrochemical advanced oxidation processes (EAOPS) for wastewater treatment, MANAGEMENT OF TECHNOLOGICAL CHANGES, VOL 1 Pages: 569-572 Published: 2009
38. Alexandru, CI; Branzila, MC; Sarmasanu, C, et al., Development of virtual organizations and remote instrumentation based on grid infrastructure, MANAGEMENT OF TECHNOLOGICAL CHANGES, VOL 2 Pages: 195-198 Published: 2009
39. Branzila, Marius, Schreiner Cristina,Trandabat Alexandru, Pislaru Marius, Intelligent system for monitoring of exhaust gas from hybrid vehicle, Intelligent Systems, 2008. IS ’08, 4th International IEEE Conference, Volume 1, Issue , 6-8 Sept. 2008, Varna, Bulgaria, Page(s):5-2 - 5-5, ISBN: 978-1-4244-1739-1
40. Branzila, M. Alexandru, C. Ciobanu, C. Schreiner, C., New DAQB and associated virtual library included in LabVIEW for environmental parameters monitoring, Virtual Environments, Human-Computer Interfaces and Measurement Systems, 2008. VECIMS 2008. IEEE Conference, 14-16 July 2008, Istanbul, page(s): 121-124, ISBN: 978-1-4244-1927-2, INSPEC

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1 . Lacatusu D, Miron S.D, Branzila M, Crivoi F., Baican M., The Alternative Method For Detecting Dental Caries Using An Open Source System Arduino, The Medical-Surgical Journal, Vol 123 No 2 (2019)
2. M. Pislaru, A. Trandabat, R.Burlacu, C.Bratescu, S. Aradoaie, M.Branzila, Internet based distributed method in support of remote and collaborative design, Buletinul Institutului Politehnic din Iaşi, Tomul LIV (LVIII) Fasc.4, 2008, ISSN 1223-8139
3. Schreiner C., Ciobanu R., Brînzilă M., Laboratorul virtual utilizabil în domeniul psihologiei, Anuarul Universităţii "Petre Andrei" din Iaşi, Serie nouă Tomul II, 2007, ISSN 1454-4814, Ed. Institutul European, pp. 218-228
4 Brînzilă M.C, Pereira M.D., Donciu C., Cretu M., Internet Based Meteorological Center, IAŞI – ROMÂNIA Buletinul Institutului Politehnic din Iasi, Tomul LII(LIV), Fasc. 5., 2006, ISSN 1223-8139 pp.965-970
5 Brînzilă M.C., Alexandru C.I., Donciu C., Cretu M., Design and Analysis of a proposed Web Electronic Nose (WebE-Nose), IAŞI – ROMÂNIA Buletinul Institutului Politehnic din Iasi, Tomul LII(LIV), Fasc. 5, 2006, ISSN 1223-8139, pp.971-976

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1 M.Branzila, M.Cretu, C.I. Alexandru, C. Schreiner, Intelligent System for Monitoring the Environmental Parameters, IMEKO 2008 - 16th International Symposium on Exploring new frontieres and methods for electrica land alectronic measurements, 22-24 September 2008 Florence - Italy, ISBN 978-88-903149-3-3, pp. 629-634
2 M.Branzila, C.Donciu, C.I. Alexandru, C. Schreiner, From Real World Experiment to Virtual Laboratory and Next Generation Grid, IMEKO 2008 - 16th International Symposium on Exploring new frontieres and methods for electrica land alectronic measurements, 22-24 September 2008 Florence - Italy, ISBN 978-88-903149-3-3, pp.717-722
3 S.Ursache, M. Branzila, C. Bratescu, R. Burlacu, FDTD implementations for electromagnetic shields, IMEKO 2008 - 16th International Symposium on Exploring new frontieres and methods for electrica land alectronic measurements, 22-24 September 2008 Florence - Italy, ISBN 978-88-903149-3-3, pp. 605-609
4 Marius Branzila, Cristina Schreiner, Cristian Ravariu, A prototype of web-e-nose device used in medicine fields, International conference Remote Engineering and Virtual Instrumentation REV 2008, June 23-25 2008, University of Applied Sciences Duesseldorf, Germany, ISBN 978-3-89958-353-6 Kassel University Press
5 Carmen Alexandru, Marius Branzila, Ilie Siminiceanu and Cristina Schreiner, Virtual instrumentation for study of the Crystal Violet Mineralization in Water by the Electro-Fenton Method using an automated system, International conference Remote Engineering and Virtual Instrumentation REV 2008, June 23-25 2008, University of Applied Sciences Duesseldorf, Germany, ISBN 978-3-89958-353-6 Kassel University Press
6 C. Ravariu, P. Tuhari, M. C. Branzila, F. Ravariu and R. Botan, Virtual Diagnosis in Medicine using e-Healthcare, International conference Remote Engineering and Virtual Instrumentation REV 2008, June 23-25 2008, University of Applied Sciences Duesseldorf, Germany, ISBN 978-3-89958-353-6 Kassel University Press
7 C. Schreiner, Al. Trandabat, M. Branzila, R. Ciobanu, Environmental measurement center based on remote instrumentation, CEST–2007, september 5th - 7th, 2007, Kos island, Greece, pp. B-763-770, ISBN 978-960-7475-40-4

8 C. Schreiner, Al. Trandabat, M. Branzila and R. Ciobanu, Environmental measurement center based on remote instrumentation, Proceedings of the 10th International Conference on Environmental Science and Technology, Kos Island, Greece, ISBN 978-960-7475-40-4, ISSN 1106-5516, 5-7 September 2007, pp.763-770

9 M. Branzila, C.Alexandru, Al.Trandabat, M.Cretu, A prototype of Web-E-Nose device to be used in medicine fields, IMEKO 2007 - 15th International Symposium on Novelty in Electrical Measurements and Instrumentation, 18-22 September 2007 Iasi - Romania, ISBN 978-973-667-260-6, ISBN 978-973-667-261-3, Vol.1, pp. 336-338

10 C.I.Alexandru, M.C.Branzila, I.Siminiceanu, Automated system for study of the Crystal Violet Mineralization in Water by the Electro-Fenton Method, IMEKO 2007 - 15th International Symposium on Novelty in Electrical Measurements and Instrumentation and 1st IMEKO TC19 International Symposium on Measurement and Instrumentation for Environmental Monitoring, 18-22 September 2007, Iasi-Romania, ISBN 978-973-667-263-7, pp. 29-31

11 Radu Damian, Romeo Ciobanu, Marius Brînzilă, Marius Olariu, Stability Considerations and Efficient Computing in Chiral Materials Electromagnetic Simulations , IMEKO 2007 - 15th International Symposium on Novelty in Electrical Measurements and Instrumentation and 1stIMEKO TC19 International Symposium on Measurement and Instrumentation for Environmental Monitoring, 18-22 September 2007, Iasi – Romania

12 Marius Brinzila, M.D.Pereira, Al. Trandabat, C. Schreiner, Virtual meteorological center, International Conference Remote Engineering and Virtual Instrumentation REV2007, Porto-Portugalia, 25-27 June 2007, ISBN 978-3-89958-278-9

13 R. Ciobanu, M. Branzila, C. Schreiner, A prototype of web-e-nose device to be used in medicine fields, Proceedings of First International Conference on E-Medicine EICEM 1, Cairo – Egipt, 27-30 March 2007, pp.135-140

14 C. Schreiner, M. Branzila, R. Ciobanu, Prototype architecture for a remote and distributed laboratory, for higher education purpose in medicine fields, Proceedings of First International Conference on E-Medicine EICEM 1, Cairo – Egipt, 27-30 March 2007, pp.225-228

15 Romeo Ciobanu, Cristina Schreiner, Marius Branzila, Alex Trandabat, Virtual laboratory for higher education purposes, based on remote measurements in the field of environment safety, Proceedings of International Conference on Distance Education, March 27-29, 2006, Muscat, Sultanate of Oman ICODE 2006, pp.156-167

16 Romeo Ciobanu, Christina Schreiner, Codrin Donciu, Marius Branzila, Prototype architecture for a remote and distributed measurements laboratory, for higher education purposes, Proceedings of International Conference on Distance Education, March 27-29, 2006, Muscat, Sultanate of Oman ICODE 2006, pp.173-185

J. Invenţii.

1. David Valeriu, Foşălău Cristian-Ioan, Branzila Marius-Ciprian, RO131475(A2)-Method for extracting quasi-periodic signals from noise

K. Contracte de cercetare.

Proiecte de cercetare castigate in calitate de director de proiect (titlu/valoarea in lei sau Euro dupa caz)

1. Sistem complex de monitorizare si control a calitatii mediului pentru un laborator virtual al societatii informationale, Grant tip TD, cod CNCSIS 168, 18000 RON, 2004 – 2006 (33371/2004; 34664/2005; 164/2006)
2. Grant (bursă) de cercetare BD, pentru tineri doctoranzi, cu tema Sisteme de monitorizare si control pentru parametrii de calitate ai mediului, cod CNCSIS 11, 200 RON/luna, 2004 – 2007

Proiecte de cercetare castigate in calitate de membru in echipa de cercetare (titlu/valoare in lei sau Euro dupa caz)

1. Haine ESD realizate din fibre cu miez conductor tricotate bistrat (GarmESD), PN Parteneriate, contract 179/ 2012
2. Sistem video automatizat cu grad ridicat de interschimbabilitate pentru etalonare metrologică a echipamentelor de măsurare/ valoare UTI: 650000 RON
3. Sistem inteligent de irigare de precizie implementabil pe structuri automate cu deplasare circulara sau liniara/ valoare UTI: 467300 RON
4. Sistem integrat de inspectie video-inteligenta a materialelor textile dezvoltat prin metode virtuale de procesare a imaginii/1040000 RON
5. Sistem informatic de instruire interactiva bazat pe algoritmi multitask de mare viteza dezvoltat pe platforma reconfigurabila online pentru aplicatii de tip laborator virtual/ valoare UTI: 606.164 RON
6. Sisteme virtuale şi distribuite de management a calităţii şi mentenanţei/520000 RON
7. Dezvoltarea capacităţii de integrare a romaniei în cadrul programelor, platformelor şi reţelelor europene in domeniul sistemelor virtuale si distribuite de design si management al cercetarii 188/2006, CEEX M3, 200000 RON
8. Dezvoltarea parteneriatelor c/d prin includerea excelentei romanesti, în vederea promovării de proiecte comune în domeniul materialelor avansate nanostructurate destinate ecranelor de protectie la radiatii electomagneice in domeniul GHz, 202/2006, CEEX M3, 200000 RON
9. Dezvoltarea parteneriatelor c/d prin includerea excelentei romanesti, în vederea promovării de proiecte comune în domeniul materialelor avansate nanostructurate destinate ecranelor de protectie la radiatii electomagnetice in domeniul GHz173/2006,CEEX M3,200000 RON
10. Dezvoltarea capacitatii de integrare a romaniei in cadrul programelor, platformelor si retelelor europene in domeniul metodelor comparative neinvazive si nedistructive de analiza a calitatii si securitatatii alimentelor, 179/2006, 200000 RON
11. Biocompozite obtinute prin reciclarea deseurilor de pet si utilizarea de derivaţi ligno-celulozici, 79/2006, Asistent Cercetare (Nov.2006-Aprilie 2007), 1250000 RON
12. Ecrane pentru constructii speciale bazate pe structuri chiral-fagure, 46/2006,1200000 RON
13. Materiale inteligente tip chiral-fagure pentru aplicatii multisectoriale (si extinderea aplicatiilor propuse initial pentru domeniul protectiei la radiatii electromagnetice - prin materiale si tehnologii avansate pentru constructii speciale), 115/2006,659383 RON
14. Materiale inteligente tip chiral-fagure pentru aplicatii multisectoriale (si extinderea aplicatiilor propuse initial pentru domeniul protectiei la radiatii

electromagnetice - prin materiale si tehnologii avansate pentru constructii speciale), 115/2006, 659383 RON

15. Remote instrumentation in next-generation grids, CORINT 132/2007, 90160 RON
16. Metodologie dielectrica nedistructiva, neinvaziva, comparativa de detectare rapida a ingredientilor cu potential factor de risc pentru sanatate din produsele alimentare, PN2 Parteneriate 51-015/14.09.2007, 2000000 RON
17. Metode avansate de proiectare si testare a sistemelor de izolatie destinate functionarii in conditii extreme si tolerante la defectare, CNCSIS A 489/2004, 150000 RON
18. Sistem de măsurare distribuita dezvoltat prin metode de instrumentaţie virtuala, CNCSIS AT 330/2003, contract nr. 33557/2003, 12000 RON
19. CNFIS-FDI-2024-F-0016, Rethinking Skills for Internationalisation - iSKILLS
20. ROSE, AG. nr.120/SGU-PV/C/II
21. ROSE, nr.185/SGU/NC/II / 11 septembrie 2019
22. Proiect POCU/379/6/21/123975 Dezvoltarea culturii antreprenoriale a studenților de la inginerie și arhitectură prin crearea unei rețele de centre de pregătire în antreprenoriat – AntreprenorIng
23. ”Joint Operational Programme Romania -Republic of Moldova 2014-2020, finanţat prin ENI CBC, cu titlul “Direct Access to Students”, acronim DAS.

L. Premii, distincţii.

1. Medalie de aur, la salonul de inventii EURO POLITEHNICUS 2024
2. Premiu special pentru creativitate stiintifica si originalitate acordat de universitatea „Lucian Blaga” din Sibiu
3. Medalie de aur, la Targ de inventii INTARG® – 18th Invention Expo: Katowice, Polonia 3 -5 Iunie 2025

M. Alte realizări semnificative.

Data,
24.0.2025

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă Inginerie Mecanică

Numele şi prenumele: **BUDESCU EMIL**

A. Teza de doctorat.
Budescu, Emil, Cercetari privind dinamica mecanismelor din structura separatoarelor densimetrice, Universitatea Tehnica "Gh. Asachi" Iasi, 2000, domeniul "inginerie mecanică".

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

a. **Budescu, E.**, Iacob, I., *Bazele biomecanicii în sport*, Editura Universităţii "Alexandru Ioan Cuza", Iaşi, 2005, ISBN – 973 – 703 – 133 – 4.
b. **Budescu, E.**, Iacob, I., *Fundamentals of biomechanics in sports*, Editura SedcomLibris, Iaşi, 2005, ISBN – 973 – 670 – 153 – 0.
c. **Budescu, E.**, *Protezarea membrului inferior*, Editura Tehnopress, Iaşi, 2006, ISBN – 10 973 – 702 – 418 – 4, 13 978 – 973 – 702 – 418 – 3;
d. **Budescu, E.**, *Mecanisme – curs*, Editura Tehnopress, Iaşi, 2004, ISBN 973 – 702 – 097 – 9;
e. **Budescu, E.**, *Dinamica unei maşini tehnologice vibratoare – separatorul gravimetric*, Editura Tehnopress, Iaşi, 2004, ISBN – 973 – 702 – 104 – 5.
f. Oprisan, C., Leohchi, D., **Budescu, E.**, Buium, Fl., Merticaru, Eug., *Mecanisme – Indrumar de proiectare*, Editura Politehnium Iasi, 2017, ISBN 978-621-463-9, 352 pg.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

a. **Budescu, E.**, Doroftei, I., *Mecanica generală a solidului (Noţiuni introductive – note de curs)*, Universitatea de Medicină şi Farmacie "Gr. T. Popa" Iaşi, 1997;
b. Duca, C., Atanasiu, V., Doroftei, I., Leohchi, D., Merticaru, V., Oprişan, C., Popovici, Gh.A., Receanu, D., Ciauşu, V., **Budescu, E.**, Buium, Fl., Merticaru, E., *Mecanisme, îndrumar de laborator*, Universitatea Tehnică "Gh. Asachi" Iaşi, tipografia, 2004.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

a. **Budescu, E.**, *Biomecanica generala*, www.mec.tuiasi.ro, 105 pg., 2013.
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J. Invenţii.

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K. Contracte de cercetare/granturi.

a. Merticaru, V., **Budescu, E.**, *Analize comparative ale parametrilor funcţionali şi constructivi ai principalelor tipuri de utilaje de separare din industria de morărit acţionate cu mecanism de antrenare cinematică sau cu mase neechilibrate*, Contract de cercetare, beneficiar ICSIT-MUA Bucureşti, 1993;
b. Merticaru, V., **Budescu, E.**, *Proiectarea sistemului vibrator al separatorului SA 3214*, Contract de cercetare şi proiectare, beneficiar S.C. TEHNOPAM S.A., Bucureşti, 1993;
c. **Budescu, E.**, *Proiectarea unui vibrator inerţial pentru separator-aspirator*, Contract de cercetare şi proiectare, beneficiar S.C. TEHNOPAM S.A., Bucureşti, 1994;
d. Receanu, D., **Budescu, E.**, *Cercetări privind optimizarea protezarii aparatului locomotor uman pe baza modelării biomecanismelor*, contract CNCSU, cod B 21/786, 1995-1997;
e. **Budescu, E.**, **director proiect**, *Cercetări privind cinematica şi dinamica mersului uman cu aplicaţii în kinetoterapie*, grant CNCSU, cod 460, 1998;

f. **Budescu, E.**, **director proiect**, *Cuantificarea şi optimizarea efortului fizic în jocurile sportive*, grant CNCSIS, cod 474, 2004;
g. **Budescu, E.**, coordonator ştiinţific contract cercetare *Articulaţia coxo-femurală: analiza biomecanică şi modelarea cu ajutorul metodei elementului finit necesare sistemelor de protezare*, contract ANSTI nr. 5213/1999 şi nr. 6083/2000, grant tip S;
h. **Budescu, E.**, coordonator ştiinţific contract cercetare *Cercetări teoretice şi experimentale privind bazele biomecanice ale realizării încălţămintei ortopedice cu elemente compensatorii prin stimularea centrelor de presopunctură*, contract ANSTI nr. 5213/1999 şi nr. 6083/2000, grant tip S;
i. **Budescu, E.**, coordonator ştiinţific contract cercetare *Modelarea şi biomecanica exoprotezelor de gambă, studii privind reducerea tensiunii la contactul bont-proteză folosind metoda elementului finit*, contract ANSTI nr. 6171/2000, grant tip S;
j. Iacob, I., **Budescu, E.**, ş.a., *Biomecanica impactului uman în jocurile sportive*, grant CNCSIS, cod 656, contract cercetare 33373/2004-2006;
k. Bârsănescu, P.D., **Budescu, E.**, Pelin, I., Zidi, M., Lavaste, B., contract cercetare în cadrul Programului bilateral România – Franţa, Egide – Brâncuşi, 2003 – 2004.
l. **Budescu, E.**, Topoliceanu, Fl., Munteanu, Fl., *Forming of specialists in medical bioengineering for improving the specialized assistance of sick-persons*, proiect de formare profesională Leonardo da Vinci, PL 83754/I.1.2.c/1999/RO.
m. Proiectul de parteneriat Erasmus+/KA2-Parteneriat Strategic pentru Inovare Re.M.I.D.A. – Reneved Models for the Inclusions of Disadvantaged Adults, nr. 2019-1-IT02-KA204-063171, parteneri: Italia, Consorzio Ro.M. Italy si AGENFAP Società cooperativa; Romania: Centrul European ACTA Oradea (copartener ACTA, Universitatea Tehnică „Gh. Asachi" Iaşi, responsabil proiect **Budescu, E**); Grecia: Hellenic Open University; Bulgaria: Balgarska Agentsiya Za Razvitie; Spania: INERCIA DIGIRAL SL; Slovenia: Razvojno Izobrazevalni Center; Polonia: Centrum Ksztalcenia Ustawicznego; Portugalia: EPRALIMA; perioada de desfasurare 2019-2021
n. Proiectul ERASMUS KA1 – Mobilitati pentru Educatia Adultilor New approaches and skills for increasing social inclusion 2020-1-RO01-KA104-078436; parteneri: Romania Centrul European ACTA Oradea (copartener ACTA, Universitatea Tehnică „Gh. Asachi" Iaşi, responsabil proiect **Budescu, E**.); Islanda: Leikur ad laera, Reykjavik; curs Smart Teachers Play More; perioada 18-24.07.2021.
o.. Proiectul de pasrteneriat Erasmus+/2021-1-ES01-KA220-VET-000028059, https://neurodiversitypower.eu/ – Toolkit for Company's Neurodiverity Management, coordonator proiect: Spania – Fundacion Weber, parteneri: Romania: Centrul European ACTA Oradea (copartener ACTA, Universitatea Tehnică „Gh. Asachi" Iaşi, responsabil proiect **Budescu, E**); Spania: INNOWA – Association for the promotion of Talent and Technological and Social Innovation; Bulgaria: CATRO: Creative, Courageous, Committed; Turcia: BOSEV Research Foundation – Buyuk Ortadogu Saglik Ve Egitim Vakfi; perioada de desfasurare 2022-2024.

L. Premii, distincţii.

- Diploma si medalie a Universitatii de Medicina si Farmacie Iasi, Facultatea de Bioinginerie Medicala – pentru contributie la dezvoltarea Facultatii de Bioinginerie Medicala.
- Diploma si madalie a Universitatii „Alexandru Ioan Cuza” din Iasi, Facultatea de Educatie Fizica si Sport – pentru contributia interdisciplinara la Facultatea de Educatie Fizica si Sport.

Data: .

Nume, prenume
Budescu Emil

Semnătura .....

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **BUJOREANU CARMEN**

A. Teza de doctorat

„*Studii şi cercetări privind griparea elementelor în contactul cu rostogolire, cu particularizare la rulmenţi*" specializarea Inginerie mecanică, diploma nr. 1616/15.05.2003, titlu acordat de Universitatea „Gheorghe Asachi" din Iaşi, Facultatea de Mecanică, conducător ştiinţific prof. dr. ing. Spiridon Creţu.

Teza de abilitare

Cercetări şi realizări în analiza şi monitorizarea sistemelor mecanice (domeniul Inginerie mecanică), conducator de doctorat conform OM 4147/21.06.2017.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

Carmen Bujoreanu et al., Mecanica fina si mecatronica, vol.1, Chisinau, 2022, ISBN 978-5-88554-128-2, 2022

C. Cărţi (manuale, monografii, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS

1. **Carmen Bujoreanu**, *Analiza datelor experimentale în sisteme mecanice*, Ed. Tehnopress, Iaşi, ISBN 978-606-687-239-3, 224 pg., 2016
2. Stefan Grigoraş, Mihaela Rodica Bălan, **Carmen Bujoreanu**, Florin Tudose Sandu-Ville, Viorel Paleu, *Organe de maşini1-Indrumar de proiectare*, Ed. Politehnium, ISBN 978-973-621-427-1, 2014, 191 pg.format A4 (Pg. format A4 x1.457= 280 pg.format academic)
3. **Carmen Bujoreanu**, *Achiziţia şi prelucrarea datelor experimentale*, Ed. Tehnopress, Iaşi, ISBN 978-973-702-126-6, 127 pg., 2006
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K. Contracte de cercetare/granturi.

Nr	Titlul proiectului	Numar contract/tip	Valoare institutie (lei)
1	*Monitorizarea fenomenelor de deteriorare din contactul cu rostogolire, in conditii de lucru severe, prin utilizarea instrumentatiei virtuale. Studiu de caz pe rulmentii osiilor pentru material rulant* Finanţator: CNCSIS **Director proiect: Carmen Bujoreanu**	GRANT 164/2006 tema 14	150000000 ROL (15000 RON)
2		GRANT 34664/2005 tema 12	150000000 ROL (15000 RON)
3		GRANT 33371/2004 tema 10	100000000 ROL (10000 RON)
4	*Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU–300 Built-in, fabricată de*	Contract cu agent economic	11900 RON

	S.C.Ensyro SRL Beneficiar: S.C. ENSYRO S.R.L Cluj–Napoca **Director de proiect: Bujoreanu Carmen**	21896/2018	
5	*Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU 700 BV/BH* Beneficiar: S.C. ENSYRO S.R.L Cluj–Napoca **Director de proiect: Bujoreanu Carmen**	Contract cu agent economic 16663/2017	11900 RON
6	*Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU–400BV/BH, fabricată de S.C.Ensyro SRL* Beneficiar: S.C. ENSYRO S.R.L Cluj–Napoca **Director de proiect: Bujoreanu Carmen**	Contract cu agent economic nr. 605P /2016	12000 RON
7	*Analiza caracteristicii de zgomot pentru patru variante constructive de atenuatoare de zgomot (125/125 la 90^0şi 180^0 ; 160/160 la 90^0şi 180^0) la produse de S.C. Ensyro SRL* Beneficiar: S.C. ENSYRO S.R.L Cluj–Napoca **Director de proiect: Bujoreanu Carmen**	Contract cu agent economic nr. 2001P /2016	12000 RON
8	*Analiza caracterisicii de zgomot pentru unitatea de ventilat AHU–300BV/BH, fabricată de S.C.Ensyro SRL* Beneficiar: S.C. ENSYRO S.R.L Cluj–Napoca **Director de proiect: Bujoreanu Carmen**	Contract cu agent economic nr. 1980P /2016	12000 RON
9	*Analiza caracteristicii de zgomot pentru patru variante constructive de atenuatoare de zgomot (125/125 ; 160/160 ; 200/200 ; 250/250) produse de S.C. Ensyro SRL* Beneficiar: S.C. ENSYRO S.R.L. Cluj–Napoca **Director de proiect: Bujoreanu Carmen**	Contract cu agent economic nr. 1324P /2016	18600 RON
10	*Analiza coeficientului de absorbtie acustica pentru materialele fonoabsorbante, materiale puse la dispozitie de Universitatea "Vasile Alecsandri" din Bacau* Beneficiar: Universitatea "VASILE ALECSANDRI" din Bacău **Director de proiect: Bujoreanu Carmen**	Contract cu agent economic nr. 1101P /2015	6200 RON
11	*Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU–300BV/BH, fabricată de S.C.Ensyro SRL* Beneficiar: S.C. ENSYRO S.R.L Cluj–Napoca **Director de proiect: Bujoreanu Carmen**	Contract cu agent economic nr. 60P /2015	12400 RON
12	*Analiza caracterisicii de zgomot pentru unitatea de ventilat AHU–300H, fabricată de S.C.Ensyro SRL* Beneficiar: S.C. ENSYRO S.R.L. Cluj–Napoca **Director de proiect: Bujoreanu Carmen**	Contract cu agent economic nr. 1489P /2014	12400 RON
13	*Analiza caracterisicii de zgomot pentru unitatea de ventilat AHU–400HV, fabricată de S.C.Ensyro SRL*	Contract cu agent economic nr. 1010P /2014	10000 RON

	Beneficiar: S.C. ENSYRO S.R.L. Cluj–Napoca **Director de proiect: Bujoreanu Carmen**		
14	*Sisteme mecatronice mobile inteligente cu impact ecologic pentru echipamente textile* Finanţator: UEFISCDI Director de proiect: prof. dr. ing. Maria Carmen Loghin **Membru în echipă: Bujoreanu Carmen** (contributie proprie 25%- certificată de director)	PNII parteneriate 72178/2008	51208 RON (in 2009)
15			72903 RON (in 2010)
16			173297 RON (in 2011)
17	*Sisteme mecatronice de actionare realizate cu noi tipuri de actuatori pentru aplicatii in robotica si in alte domenii* Finanţator: UEFISCDI Coordonator: Universitatea Tehnică din Cluj-Napoca Partener 2: Universitatea Tehnică „Gheorghe Asachi" din Iaşi Responsabil partener 2: conf.dr.ing. Gheorghe Prisăcaru **Membru în echipă: Bujoreanu Carmen** (contributie proprie 33%- certificată de director)	Colab. PNII 71129/2007	15000 RON (in 2007)
18			87200 lei (in 2008)
19			10386 lei (in 2009)
20			18500 lei (in 2010)
21	*Sisteme mecatronice mobile inteligente cu impact ecologic pentru echipamente textile* Autoritatea contractantă: Agenţia Managerială de Cercetare Ştiinţifică, Inovare şi Transfer Tehnologic – Politehnica Bucureşti Responsabil proiect: conf.dr.ing. Lucian Constantin Hanganu **Membru în echipă: Bujoreanu Carmen** (contributie proprie 25%- certificată de director)	CEEX 205/2006	138000 RON (in 2006)
22			283000 RON (in 2007)
23			209000 RON (in 2008)
24	*Cercetari teoretice si experimentale privind dinamica rulmentilor hibrizi cu bile ceramice de turatie ridicata lubrifiati cu ceata de ulei si kerosen cu aplicatie la turbinele de avion* Finanţator: CNCSIS Responsabil proiect: conf.dr.ing. Viorel Paleu **Membru în echipă: Bujoreanu Carmen** (contributie proprie 25%- certificată de director)	GRANT 77/2008 tema 28	63000 RON (in 2008)
25		GRANT 33/2007 tema 17	74837 RON (in 2007)
26	*Cercetări teoretice şi experimentale privind relaţia dintre microtopografie, rodaj şi fiabilitatea contactelor cu rostogolire cu aplicaţie pe rulmenţi de turaţie înaltă şi angrenaje cilindrice* Finanţator: CNCSIS Responsabil proiect: prof.dr.ing. Spiridon Creţu **Membru în echipă: Bujoreanu Carmen** (contributie proprie 33%- certificată de director)	GRANT 77/2008 tema 9	58800 RON (in 2008)
27		GRANT 80/2007 tema 17	47700 RON (in 2007)
28		GRANT 63/2006 tema 9	53000 RON (in 2006)

29	*Studiul tribologic al contactului capat rola-umar de ghidare in rulmenti cu role cilindrice sub sarcina combinata pe perioada rodajului* Finanţator: CNCSIS Responsabil proiect: conf.dr.ing. Gheorghe Prisăcaru **Membru în echipă: Bujoreanu Carmen** (contributie proprie 33%- certificată de director)	GRANT 33371/2004 tema 68	100000000 ROL (10000 RON) (in 2004)
30		GRANT 40222/2003 tema 17	82500000 ROL (8250 RON) (in 2003)
31	*Fiabilitatea contactului cu rostogolire in prezenta alunecarilor si regimului termic variabil, cu aplicatii la rulmenti si angrenaje* Finanţator: CNCSIS Responsabil proiect: prof.dr.ing. Spiridon Creţu **Membru în echipă: Bujoreanu Carmen** (contributie proprie 33%- certificată de director)	GRANT 33371/2004 tema 53/312	10000000 ROL (1000 RON) (in 2004)
32		GRANT 33557/2003 tema 17/312	72000000 ROL (7200 RON) (in 2003)
33		GRANT 33479/2002 tema 60/190	80000000 ROL (8000 RON) (in 2002)
34	*Dinamica si fiabilitatea la oboseala de contact si gripare a subansamblurilor echipate cu rulmenti cu role conice.* Finanţator: CNCSIS Director proiect: prof.dr.ing. Spiridon Creţu **Membru în echipă: Bujoreanu Carmen** (contributie proprie 50%- certificată de director)	GRANT 35259/2001 tema 4/66	40000000 ROL (4000 RON) (in 2001)
35		GRANT 37089/2000 tema 20/1017	40000000 ROL (4000 RON) (in 2000)
36	*Cresterea fiabilitatii rulmentilor radiali cu bile prin inducerea unor tensiuni remanente favorabile*. Finanţator: CNCSIS Director proiect: sl.dr.ing. Gabriel Popescu **Membru în echipă: Bujoreanu Carmen** (contributie proprie 25%- certificată de director)	GRANT 35259/2001	45000000 ROL (4500 RON) (in 2001)
37		GRANT 37089/2000	25000000 ROL (2500 RON) (in 2000)
38	*Griparea elementelor in contact cu rostogolire, cu aplicatii la rulmenti* Finanţator: CNCSIS Director proiect: prof.dr.ing.Spiridon Creţu **Membru în echipă: Bujoreanu Carmen** (contributie proprie 50%- certificată de director)	GRANT 34280/1999 tema 10/245	25000000 ROL (2500 RON) (in 1999)
39		GRANT 37/1998, tema 30/482	25000000 ROL (2500 RON) (in 1998)
40		GRANT 7002/1997 tema 46/1153	8800000 ROL (880 RON) (in 1997)
41	*Instruirea inginereasca de tip mecatronic – o necesitate in societatea informationala (Engineering training of mechatronic type – a necessity for the informational society)* Finanţator: Agenţia Naţională Leonardo – România Director proiect: conf.dr.ing. Gheorghe Prisăcaru **Membru în echipă: Bujoreanu Carmen** (contributie proprie 50%- certificată de director)	Leonardo PL 91229/EX/ 2004	10980 €
42	*FLEXFORM - Program de formare profesională flexibilă pe platforme mecatronice*	POSDRU/ 87/1.3/S/	1916866 RON

	Finanţator: Fondul Social European prin Programul Operaţional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013 Beneficiar: Universitatea Tehnică din Cluj-Napoca Partener 5: Universitatea Tehnică „Gheorghe Asachi" din Iaşi Responsabil partener 5: conf. Prisăcaru Gh. **Membru în echipă (expert pe termen scurt): Bujoreanu Carmen** (contributie proprie 33%- certificată de director)	64069 Partener 5	(1.09.2010-31.08.2013)
43	*Cross border cooperation in mechatronics engineering education", acronim CBCinMEE* Joint Operational Programme Romania – Republic of Moldova **Membru în echipă: Bujoreanu Carmen** (9 membri-contributie egala)	2SOFT/1.1/64/2020	167770 Euro/9=18641 (1.11.2020-1.06.2022)
43	*Fiabilitatea rulmenţilor şi angrenajelor în raport cu condiţiile de funcţionare şi ungere* Beneficiar: S.C. CONELAR Botoşani Director proiect: Sl. dr. ing. Mihaela Rodica Bălan **Membru în echipă: Bujoreanu Carmen** (contributie proprie 50%- certificată de director)	Contract agent economic 126P/ 2015	45000 RON (in 2015)
44	*Analiza comparativa a parametrilor functionali pentru trei tipodimensiuni de amortizoare de zgomot destinate motoarelor cu ardere interna* Beneficiar: S.C. CUSCO S.R.L Director de proiect: sl. dr. ing. Carmen Ema Panaite **Membru în echipă: Bujoreanu Carmen** (contributie proprie 25%- certificată de director)	Contract agent economic 395P/ 2014	52700 RON (in 2014)
45	*Cresterea fiabilitatii dispozitivelor de prelucrare a tolelor de transformator prin ameliorarea proceselor tehnologice* Beneficiar: S.C. ELEROM S.A Director de proiect: conf. dr. ing. Flavian Farcaş **Membru în echipă: Bujoreanu Carmen** (contributie proprie 50%- certificată de director)	Contract agent economic 1009P/2014	57000 RON (in 2014)

Alte proiecte ca membru in echipa

1	Școala de vară pentru elevi - Vreau să fiu student (MECSTUD)	ROSE AG329/SGU/PV/III/ 2020	201262,59 RON	2021	Conf. Gelu Ianuș
			222132,83 RON	2022	
			246903,95 RON	2023	
			230145,06 RON	2024	
2	Dezvoltarea culturii antreprenoriale a studenților de la inginerie și arhitectură prin crearea unei rețele de centre de pregătire în antreprenoriat (ANTREPRENORING)	ID 123975	7888735,48 RON	2019-2021	Prof. Neculai Eugen Seghedin

3	Studenti antrepenori la TUIASI	CNFIS-FDI- 2018-0354	143000,00 RON	2018	Prof. Maria Carmen Loghin
4	Cross border cooperation in mechatronics engineering education (CBCinMEE)	P1.1 ENI- 2SOFT/ 1.1/64	811923,00 RON	2020-2022	Conf. Gelu Ianuș
5	Dezvoltarea institutionala a TUIASI pe fundamente specifice stiintei deschise	CNFIS-FDI- 2022-0460	424600,00 RON	2022	Prof. Maria Carmen Loghin
6	Retea de excelenta in cercetare si inovare aplicativa pentru programele de studii doctorale si postdoctorale - INOHUBDOC	ID 153437	1702304,00 RON	2022-2023	Prof. Alina Adriana Minea

L. Premii, distincţii.

- Premiul UEFISCDI (PRECISI - 2014-7680), 2014, pentru lucrarea: Iuliana Rotaru, **Carmen Bujoreanu**, Adrian Bele, Maria Cazacu, Dumitru Olaru, *Experimental testing on free vibration behaviour for silicone rubbers proposed within lumbar disc prosthesis*, Materials Science and Engineering: C, Volume 42, (2014), 192-198.
- Premiul UEFISCDI (Precisi-2017-21673), 2017, pentru lucrarea: **Bujoreanu C***, Nedeff F., Benchea M., Agop M, *Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates,* Applied Acoustics 119 (2017) 88–93.
- Premiul UEFISCDI (Precisi-2018-26689), 2018, pentru lucrarea: **Bujoreanu C***, Irimiciuc S, Benchea M, Nedeff F, Agop M, *A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects,* International Journal of Non-Linear Mechanics**,** 103 (2018) 128-137
- Gold Best Scientific Paper Award pentru lucrarea: Benchea, M., Bujoreanu, C., Şerbănoiu, B., Chiriac, E.A., Ianuş, G. (2024). *The Impact of Complex Periodic Structures on the Acoustic Performance of Architectural Materials: An Interdisciplinary Approach*. In: Machado, J., et al. Innovations in Mechanical Engineering III. ICIENG 2024.

M. Alte realizări semnificative.

- Membru în comitetul ştiinţific de evaluare pentru acordarea premiilor în fiecare an din perioada 2015 -2024 pentru cei mai buni tineri cercetători români în ştiinţă şi inginerie organizat de Prof. Rada Mihalcea (SUA –in top 100 al cercetătorilor) şi Primăria municipiului Cluj-Napoca, http://www.primariaclujnapoca.ro/Premiul-Tineri-Cercetatori-in-Stiinta-si-Inginerie.html.
- Susţinere de cursuri în domeniul formării şi reconversiei profesionale a adulţilor (din 2007- în prezent) în domeniul mecanic, prin:
    - Carmen Bujoreanu, manual de formare profesională în ocupaţia cod NC: 8332.2.1 "*Maşinist utilaje cale şi terasamente*", Ed. PIM, Iaşi, (2012), 106 pg;
    - POSDRU/108/2.3/G/83119, *"Calificare pentru schimbare" – califică angajatii prin formare profesionala continuă!,* Beneficiar: S.C. METATECH-EDUCATION S.R.L. Iaşi, Valoare: 2090957 lei, Perioada: 2010-2013, membru în echipă.

Data,
04.12.2024

Carmen Bujoreanu

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **Neculai-Eduard BUMBU**

A. Teza de doctorat.

Titlul tezei: *CONTRIBUȚII PRIVIND UTILIZAREA CONSTITUENȚILOR PUTERII ELECTRICE DE ACȚIONARE ÎN MONITORIZAREA ȘI DIAGNOZA SISTEMELOR DE PRODUCȚIE.*

Conducător de doctorat: Prof. univ. dr. ing. **Mihăiță HORODINCĂ**

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Horodinca M., **Bumbu N.E**., Chitariu D. F., Munteanu A., Dumitras C. G., Negoescu F., Mihai C.-G., (2023), On the behaviour of an AC induction motor as sensor for condition monitoring of driven rotary machines, *Sensors*, Vol. 23 (1), 488. Lucrare în revistă ISI, Q2, FI 3,9 (2023).

Chitariu D.F., Horodinca M., Mihai C.G., **Bumbu N.E.**, Dumitras C.G., Seghedin N.E., Edutanu F.D. (2025), Condition Monitoring of a Three-Phase AC Asynchronous Motor Based on the Analysis of the Instantaneous Active Electrical Power in No-Load Tests, *Applied Sciences*, Vol. 14 , 14, p. 6124. Lucrare în revistă ISI, Q2, FI 2,5 (2024).

Munteanu A., Horodinca M., **Bumbu N.E**., Dumitras C.G., Dragos-Florin Chitariu D.F., Constantin-Gheorghe Mihai C.G., Khdair M., Oancea L. (2025), A Signal Pattern Extraction Method Useful for Monitoring the Condition of Actuated Mechanical Systems Operating in Steady State Regimes, *Sensors*, Vol. 25 (4), 4, p. 1119. Lucrare în revistă ISI, Q2, FI 3,5 (2024).

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

Bumbu N.E., Horodinca M., (2022), A study on the dynamics of an AC induction motor rotor based on the analysis of free response at impulse excitation, *Bulletin of the Polytechnic Institute of Iaşi*, Vol. 68 (3), p. 57-74. Lucrare în revistă BDI (Index Copernicus).

Bumbu N.E., Horodinca M., (2022), A study on the evolution of the supplying current absorbed by an AC driving motor during a transient regime on a lathe headstock gearbox, *Bulletin of the Polytechnic Institute of Iaşi*, Vol. 68 (1), p. 25-34. Lucrare în revistă BDI (Index Copernicus).

Bumbu N.E., Horodinca M., (2022), The Mirroring of a Transient Regime of a Lathe Headstock Gearbox in the Evolution of Supplying Voltage of the AC Driving Motor, *Recent*, Vol. 23 (1), 66:021-030. Lucrare în revistă BDI (Index Copernicus).

Horodinca M., **Bumbu N.E.**, Chitariu D. F., Munteanu A., Chifan F., Frigura, George I., (2022), A study of 2D profile for a cycloidal ring used in a cycloidal reducer, *Bulletin of the Polytechnic Institute of Iaşi. Machine constructions Section,* vol.68 (4), p.85-100. Lucrare în revistă BDI (Index Copernicus).

Horodincă M., **Bumbu N.E**, Munteanu A., Chitariu D.F., Chifan F. (2022), A Study on the Synthesis of 2d Profiles for Cycloidal Discs Used in Cycloidal Reducers, *Bulletin of the Polytechnic Institute of Iași*, 68 (72), 4.

Khdair M., Mihai C. G, **Bumbu N. E**., Horodinca M., (2023) Improving instantaneous angular speed monitoring by means of sinusoidal emf signals delivered by a two-phase n poles ac generator used as a sensor, *Bulletin of the Polytechnic Institute of Iași. Machine constructions Section*, vol. 68 (4)

Grigoruță C., Grigoruță L.C., Simon I, Doroftei M.A., Mihai C.G., Khdair M., **Bumbu N.E**., Horodincă M., (2025), Some experimental approaches to the evolution of radial runout measured on a cylindrical workpiece placed in a lathe jaw chuck,, *Bulletin of the Polytechnic Institute of Iaşi. Machine constructions Section*, vol. 71 (75), 3.

Chiriac G.G., Prodan-Chiriac G., Dumitraș C.G., Chitariu D.F., **Bumbu N.E**., Oancea L. (2025), PCB copper traces stress due to thermal expansion caused by Joule heating effect, *Bulletin of the Polytechnic Institute of Iași. Machine constructions Section*, vol. 71 (75), 2.

Chiriac G.G., Prodan-Chiriac G., Dumitraș C.G., Chitariu D.F., **Bumbu N.E**., Oancea L. (2025), Evaluating Joule heating effects and electrical current flow through copper layers inside PCB using finite element analysis, *Bulletin of the Polytechnic Institute of Iași. Machine constructions Section*, vol. 71 (75), 2.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

Bumbu N.E., Horodinca M., (2023), An approach on the description of a flat driving belt behaviour mirrored in transmitted mechanical power, *International Conference of Modern Technologies in Industrial Engineering, ModTech 2023*, 14-17 June 2023, Bucharest, Romania. Lucrare publicată în revistă indexată BDI (Scopus).

Horodinca M., **Bumbu N.E**, Constantin M., (2023), A study on the evolution of frequency of instantaneous current absorbed by an AC induction motor during a transient regime, *Inventics International Conference, The 27th edition 22th*, June 2023, Iaşi, Romania. Lucrare publicată în Proceedings indexate SCIENDO.

J. Invenţii.

K. Contracte de cercetare.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data, Semnătura,

Anexa Listă de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă Inginerie Mecanică

Numele şi prenumele: CÂRLESCU VLAD

A. Teza de doctorat.

Titlul tezei de doctorat: „Caracterizarea statică si dinamică a polimerilor electroactivi dielectrici pentru aplicaţii mecatronice".

Teza de doctorat a fost realizată prin acord de tip **cotutelă** între Universitatea Tehnică "Gheorghe Asachi" din Iaşi, Conducător de doctorat: Prof.univ.dr.ing. Dumitru OLARU şi Université d'Artois, Arras, Franța, Conducător de doctorat: Prof.habil.dr.ing. Florin BREABĂN

Domeniul fundamental: Științe Inginerești

Domeniul de doctorat: Inginerie Mecanică

Titlul obținut: Doctor în Inginerie Mecanică (în baza Ordinului Ministrului Educației Naționale nr.165 din 07.04.2014), titlu recunoscut și de Ministerul Învățământului Superior și Cercetării din Franța.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

G. Ianuş, V. Matieş, G. Prisăcaru, C. Bujoreanu, C. Ştirbu, M.R. Bălan, A. Tufescu, C. Stamate, **V. Cârlescu**, Capitol carte: Biomecatronică. Aplicații în protezarea membrelor superioare și inferioare, Vol. 2. Mecanica fină şi Mecatronică, Chişinău 2022, pp. 127-175, ISBN 978-5-88554-129-9

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

Gheorghe Prisăcaru, **Vlad Cârlescu**, Dumitru Olaru, Actuatoni neconvenţionali în mecatronică. Principii de funcţionare. Aplicaţii, , Editura Tehnopress, Iași 2014, ISBN 973-702-142-8

Cârlescu Vlad, Tribologie. Probleme rezolvate, Editura Universității Tehnice "Gheorghe Asachi" din Iaşi, 2023, ISBN 978-973-621-534-6

Vlad Cârlescu, *Bionica. Soluții inginerești inspirate din natură*, Editura Universității Tehnice "Gheorghe Asachi" din Iași, 2023, 138 pag., ISBN 978-973-621-536-0

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local;

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

Vlad Cârlescu, *Suport de curs* - pentru disciplina Bionică, master anul I, programul de studii Mecatronică Avansată, 117 pag. (disponibil pe web)

https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/

Vlad Cârlescu, *Prezentare ppt curs* - pentru disciplina Bionică, master anul I, programul de studii Mecatronică Avansată, 61 pag. (disponibil pe web)

https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

Vlad Cârlescu, Florin Breabăn, Dumitru Olaru, Gheorghe Prisăcaru, Comparative Study of Electromechanical Response in Some Dielectric Elastomers, *Journal of Optoelectronics and Advanced Materials*, Vol. 13, No. 8, August 2011, pp. 986-991 WOS:000294887100049

https://joam.inoe.ro/index.php?option=magazine&op=view&idu=2861&catid=65

Vlad Cârlescu, Florin Breabăn, Gheorghe Prisăcaru, Gelu Ianuş, Maria Cazacu, Electromechanical Strain Response of PDMS/TiO_2/SiO_2 at Variable Electric Fields, *MATERIALE PLASTICE* 50, No. 2, 2013, pp. 141-145 WOS:000320842600016

http://www.revmaterialeplastice.ro/article_eng.asp?ID=3608

Dumitru N. Olaru, Mihaela Rodica D. Bălan, Ana Tufescu, **Vlad Cârlescu**, Gheorghe Prisacaru, Influence of the cage on the friction torque in low loaded thrust ball bearings operating in lubricated conditions, *TRIBOLOGY INTERNATIONAL* 107 (2017) 294–305

https://doi.org/10.1016/j.triboint.2016.11.042

Vlad Cârlescu, Dumitru N. Olaru, Gheorghe Prisăcaru, Cezar Oprișan and José Machado, Sensors and Actuators on Determining Parameters for Being Considered in Selection of Elastomers for Biomimetic Hands, *SENSORS* 2017, 17, 1190

doi:10.3390/s17061190

CRISTINA ANGELA GHIORGHE, GIANINA IOVAN, **VLAD CARLESCU**, BOGDAN ISTRATE, GALINA PANCU, SORIN ANDRIAN, Comparative Evaluation of Hardness and Elasticity Modulus of Tooth-Colored Materials for Dental Restoration, *REVISTA DE CHIMIE*, Vol. 68, Issue 11, November 2017, 2623-2627

http://www.revistadechimie.ro/article_eng.asp?ID=5942

CRISTINA-ANGELA GHIORGHE, VLAD CARLESCU, CLAUDIU TOPOLICEANU, IRINA NICA, GALINA PANCU, GIANINA IOVAN, SORIN ANDRIAN, COSTIN LUPU, Microhardness Investigation of Dental Composite Resins Exposed to Corrosive Environment, *MATERIALE PLASTICE* 56 No. 2, 2019, 434-439

http://www.revmaterialeplastice.ro/article_eng.asp?ID=5202

SIMONA-NICOLETA MAZURCHEVICI, BOGDAN PRICOP, BOGDAN ISTRATE, ANDREI-DANUT MAZURCHEVICI, VLAD CARLESCU, CONSTANTIN CARAUSU, DUMITRU NEDELCU, Technological Parameters Effects on Mechanical Properties of Biodegradable Materials Using FDM, *MATERIALE PLASTICE* 57 (2) 2020, 215 – 227

https://doi.org/10.37358/MP.20.2.5368

V. Bulbuc, V. Paleu, B. Pricop, M. Popa, V. Carlescu, N. Cimpoesu, and L.G. Bujoreanu, Effects of Dynamic Loading under Extreme Conditions on Wear Resistance of T105Mn120 Castings for Railway Safety Systems, Journal of Materials Engineering and Performance 30:7128-7137 (2021)

https://doi.org/10.1007/s11665-021-05837-7

Radu HARAGA, Daniela CHICET, Stefan TOMA, Vlad CARLESCU, Costica BEJINARIU, Microhardness and Elastic Properties Evaluation of WC-TiC Coatings Obtained by Arc Spraying Process, International Conference on Innovative Research - EUROINVENT ICIR 2022, 26–27 May 2022, Iasi, Romania, Archives of Metallurgy and Materials, Vol. 69 (2), 2024, 795-801 DOI: 10.24425/amm.2024.149812

Răzvan Constantin Brânzan, Ionut, Tărăboantă, Cristina Angela Ghiorghe, Simona Stoleriu, Vlad Cârlescu, Andra Claudia Tărăboantă-Gamen and Sorin Andrian, Evaluation of the Mechanical Properties of Different Dental Resin-Based Materials After Submersion in Acidic Beverages, *Dent. J.* 2025, 13, 4. https://doi.org/10.3390/dj13010004

Denis Cojocaru, Gelu Ianus, Vlad Cârlescu, Bogdan Chiriac and Dumitru Olaru, Friction Torque in Miniature Ball Bearings, *Lubricants* 2025, 13, 12. https://doi.org/10.3390/lubricants13010012

Denis Cojocaru, Gelu Ianus, Vlad Cârlescu, Bogdan Chiriac and Dumitru Olaru, Grease Film Behavior in Ball Bearings, *Lubricants* 2025, 13, 429. https://doi.org/10.3390/lubricants13100429

Sergiu Gabriel Pal, Viorel Goanta, Ciprian Ionut Moraras and Vlad Carlescu, Mechanical Behavior Analysis of Polypropylene-Based Composites and a Photopolymer Resin via Tensile and Scratch Testing, Polymers 2025, 17(16), 2180. https://doi.org/10.3390/polym17162180

Cristina Angela Ghiorghe, Claudiu Topoliceanu, Sorin Andrian, **Vlad Cârlescu**, Galina Pancu, Andra Claudia Gamen, Irina Nica, Gianina Iovan, STUDIES ON VICKERS HARDNESS AND THE ELASTICITY MODULUS OF MATERIALS FOR DENTAL RESTORATION, *Romanian Journal of Oral Rehabilitation* Vol. 10, No. 2, April-June 2018, 38 – 44

Panțuru, M., **Cârlescu, V**., Chicet, D., Răileanu, L., Munteanu, C., Evaluation of adhesion - Cohesion of some TBCS used for internal combustion engine valves using scratch method, UPB Scientific Bulletin, Series B: Chemistry and Materials Science 81(2), 2019, pp. 215-224

Vlad Cârlescu, Petru Marian Cârlescu, Dumitru Olaru, Gheorghe Prisăcaru, Modeling and Simulation of The Electromechanical Response in Planar Electroactive Polymer Actuators, *The Romanian Review Precision Mechanics, Optics & Mechatronics* 2011, No. 40, 209-212

https://ijomam.com/wp-content/uploads/2023/07/RRPMOM_40-1.pdf

Florin Breabăn, **Vlad Cârlescu**, Dumitru Olaru, Gheorghe Prisăcaru, J. Coutte, Laser scanning vibrometry applied to non-destructive testing of electro-active polymers, *Scientific Bulletin Series D: Mechanical Engineering*, Volume 73, Issue 2, 2011, 171-180

https://www.scientificbulletin.upb.ro/rev_docs_arhiva/full80892.pdf

CARLESCU Vlad, PRISACARU Gheorghe and OLARU N. Dumitru, FEM Simulation on Uniaxial Tension of Hyperelastic Elastomers, *Applied Mechanics and Materials* Vol. 659 (2014) pp. 57-62

https://doi.org/10.4028/www.scientific.net/AMM.659.57

Alexandru BARNEA, Mihai Adrian RUSU, Cezar OPRISAN, **Vlad CARLESCU**, Gheorghe PRISACARU and Dumitru OLARU, Friction Between Cylindrical Objects and Prehension Elastomer Fingers, *The Romanian Review Precision Mechanics, Optics & Mechatronics* 2015, Issue 48, pp. 219-223

https://ijomam.com/wp-content/uploads/2023/02/RRPMOM_48.pdf

Mihai Adrian Rusu, Daniela Ioniță, **Vlad Cârlescu**, Gheorghe Prisăcaru, Dumitru Olaru, Characterization of Some Types of Polymers by Friction Behaviour, *The Romanian Review Precision Mechanics, Optics & Mechatronics* 2015, Issue 48, 110-116

https://ijomam.com/wp-content/uploads/2023/02/RRPMOM_48.pdf

G. Lucrări științifice publicate în reviste din străinătate.

Dumitru N. Olaru, Mihaela Rodica D. Bălan, Ana Tufescu, **Vlad Cârlescu**, Gheorghe Prisacaru, Influence of the cage on the friction torque in low loaded thrust ball bearings operating in lubricated conditions, *TRIBOLOGY INTERNATIONAL* 107 (2017) 294–305

Vlad Cârlescu, Dumitru N. Olaru, Gheorghe Prisăcaru, Cezar Oprișan and José Machado, Sensors and Actuators on Determining Parameters for Being Considered in Selection of Elastomers for Biomimetic Hands, *SENSORS* 2017, 17, 1190

V. Bulbuc, V. Paleu, B. Pricop, M. Popa, V. Carlescu, N. Cimpoesu, and L.G. Bujoreanu, Effects of Dynamic Loading under Extreme Conditions on Wear Resistance of T105Mn120 Castings for Railway Safety Systems, Journal of Materials Engineering and Performance 30:7128-7137 (2021)

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Florin Breabăn, **Vlad Cârlescu**, Dumitru Olaru, Gheorghe Prisăcaru, J. Coutte, Laser scanning vibrometry applied to non-destructive testing of electro-active polymers, *Scientific Bulletin Series D: Mechanical Engineering*, Volume 73, Issue 2, 2011, 171-180

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G Ianuș, D Cojocaru, M C Oprișan, **V Cârlescu** and D N Olaru, Friction models for grease lubricated ball-race contacts, IOP Conf. Series: Materials Science and Engineering 997 (2020) 012012

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Bogdan Chiriac, Cezara-Mariuca Oprisan, **Vlad Carlescu**, Dumitru N. Olaru, Static and dynamic friction coefficient for glass surfaces, pp.31-33**,** PROCEEDINGS of the 10th International Conference on Tribology BALKANTRIB'20, May 20 – 22,2021, Belgrade, Serbia

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Vlad Cârlescu, Mihai Adrian Rusu, Gheorghe Prisăcaru, Emanuel Miron, José Machado and Dumitru Olaru, Behavior of the Elastomers Used in Prehension Systems for Small Cylindrical Objects, CONTROLO 2016, *Lecture Notes in Electrical Engineering* 402 (2017), 495-505

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C Stescu, D Chicet, C Munteanu, C Croitoru and **V Cârlescu**, Machining of thermal sprayed coatings – a case study for self fluxing powder, International Conference on Innovative Research - EUROINVENT ICIR 2019, 16–17 May 2019, Iasi, Romania, IOP Conf. Series: Materials Science and Engineering 572 (2019) 012051

Vlad Cârlescu, Gheorghe Prisacaru, Ilie Diaconu, Dumitru Olaru, *Electrostrictive effect in silicone based electroactive polymers*, Proceedings of the 13th International Conference - Modern Technologies, Quality and Innovation MODTECH 2009 - New face of TMCR, 21 – 23 May 2009, Iaşi, România, pp. 28-31

Vlad Cârlescu, Gheorghe Prisăcaru, Ilie Diaconu, Dumitru Olaru, *Experimental study of polydimethylsiloxane (PDMS) electrostrictivity*, Proceedings of the 2nd International Conference on e-Health and Bioengineering - EHB 2009, Advancements of medical bioengineering and informatics , ed. ”Gr.T.Popa” University of Medecine and Pharmacy Iaşi, p.76-79, ISSN 2066-7590

Mihai Adrian Rusu, Daniela Ioniţă, Marcelin Benchea, **Vlad Cârlescu**, Dumitru Olaru, ANALYTICAL MODEL FOR FRICTION FORCE BETWEEN A STEEL ROLLER AND A PLANE POLYMER SAMPLE IN SLIDING MOTION, 6th International Conference ”Computational Mechanics and Virtual Engineering” (COMEC 2015), 15-16 October 2015, Braşov, Romania, 383-388

A. Popescu, M. I. Nazare, **V. Carlescu**, D. N. Olaru, AN ENERGETIC METHOD TO DETERMINE EXISTENCE OF THE RACEWAY CONTROL IN AN ANGULAR CONTACT BALL BEARING OPERATING AT LOW AXIAL LOAD, 7th International Conference ″Computational Mechanics and Virtual Engineering″ COMEC 2017, 16-17 November 2017, Braşov, Romania, 34-39

J. Invenții.

K. Contracte de cercetare/granturi.

Contract tip RO-MD nr. 2SOFT/1.1/64/2020 din cadrul programului ”Joint Operational Programme Romania – Republic of Moldova 2014 – 2020”, titlu proiect „Cross Border Cooperation in Mecatronics Engineering Education”, acronim CBCinMEE
Beneficiar principal: Universitatea Tehnică a Moldovei (UTM)
Beneficiar secundar: Universitatea Tehnică ”Gheorghe Asachi” din Iași (TUIASI)
Director proiect: conf.dr.ing. Gelu Ianus, TUIASI
Valoare proiect: 590000 RON
Perioada: 2021 - 2022 (curs mediu euro 4.9204/4.9456) (valoare anuala 3953551.9/196510.1RON)
Echipa proiect: 9 membri
Funcția în proiect: Master Development Specialist 2

Contract tip PN-III-P1-1.1-TE-2021-0156, UEFISCDI, titlu proiect Silicone-based modular artificial sensing skin for MMOD impact damage detection and evaluation system in spacecraft, acronym SilArtSkin
Beneficiar: Institutul de Chimie Macromoleculară ”Pentru Poni” din Iași (ICMPP)
Perioada: 05.2020 – 05.2024 (24 luni)
Director proiect: dr. Bele Adrian
Valoare proiect: 450000 RON (93750 Euro)
Echipa proiect: 8 membri
Funcția în proiect: Cercetător în mașini și instalații mecanice CSIII (cercetător postdoctoral)

PROIECT COFINANȚAT DE UNIUNEA EUROPEANĂ DIN FONDUL EUROPEAN STRUCTURAL ȘI DE INVESTIȚII PRIN PROGRAMUL OPERAȚIONAL CAPITAL UMAN 2014 – 2020
Axă prioritară: 6 - Educație si competențe
Obiectiv specific: 6.13, 6.14 Stagii de practică elevi şi studenţi în sectorul agroalimentar, industrie şi servicii
Titlu proiect: Studenti si elevi activi-angajati productivi!
Nr. contract finanțare: POCU/90/6.13/6.14/109525
Beneficiar: LUGERA & MAKLER ROMÂNIA SRL în parteneriat cu BD MOESIA RESEARCH SRL
Funcția în proiect: Mentor (COR 235902)

Convenție civilă de prestări de servicii Nr.2359/12.11.2009
Beneficiar: Continental Automotive Systems SRL
Obicetivul convenției: Măsurători ale coeficientului de frecare pentru 5 perechi de materiale

L. Premii, distincții.

Premii și distincții internaționale:

Premii și distincții naționale:

Premii UEFISCDI - Subprogram 1.1 - Resurse Umane - Premierea rezultatelor cercetarii - Articole, Competitia 2017: PN-III-P1-1.1-PRECISI-2017-16355 și PN-III-P1-1.1-PRECISI-2017-16748

M. Alte realizări semnificative.

- Certificat de absolvire a cursului PERFECȚIONAREA PERSONALULUI DIDACTIC DIN UNIVERSITATE PRIN APROFUNDAREA METODELOR POSTMODERNE DE PREDARE-ÎNVĂȚARE-EVALUARE din cadrul proiectului CNFIS-FDI-2017-0065 - PERFECȚIONAREA CONTINUĂ A PERSONALULUI DIDACTIC DIN UNIVERSITATE – GARANȚIE A RESPECTĂRII DEONTOLOGIEI PROFESIONALE ȘI A ETICII ACADEMICE PERF-DEONTETIC în perioada octombrie – decembrie 2017

- Certificat absolvire training ANSYS Academic Teaching Mechanical and CFD, 26 – 28 iulie 2021, eliberat de INAS S.A. – Certificate #04152/July 2021

Data
14.10.2025

Semnatura

Anexa Lista de lucrări

LISTA DE LUCRĂRI ÎN DOMENIUL DE STUDII UNIVERSITARE DE LICENTA INGINERIE MECANICĂ

Șef lucr. dr. ing. . CAZAC ALIN MARIAN Dr./ Ord.MECS Nr. 5895/28.11.2016

A. Teza de doctorat.

”Studii şi cercetări privind unele aliaje nanostructurate obţinute prin deformare plastică severă” – 30.09.2016, Universitatea Tehnică ”Gheorghe Asachi” din Iași, domeniul Ingineria Materialelor, conducător de doctorat: Prof. univ. dr. ing. BEJINARIU Costică.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

B1. Petru LAZAR, Alin-Marian CAZAC, Costica BEJINARIU, Obtaining and Characterization of Phosphate Layers on the Surface of Steels for Reinforced Concrete, Published as part of the book series Materials Research Foundations, Volume 183 (2025), ISSN 2471-8890 (Print),ISSN 2471-8904 (Online).

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS sau (CNCS)

C1. Cazac Alin Marian, Tehnologia informatiei si sisteme interactive,2025, Editura Tehnopress, ISBN 978-606-687-537-0.

C.2. Diana Antonia GHEORGHIU, Mihai Adrian BERNEVIG- SAVA, Elena MATCOVSCHI, Monica Nicoleta LOHAN, Alin Marian CAZAC, Mihai POPA - Lucrări practice de sudură - Indrumar pentru laborator - editura PIM, 2021, ISBN 987-606-13-6103-8.

C.3. C. BEJINARIU, I. MALUREANU, V.V. Moldoveanu, S.L. TOMA, D.A. GHEORGHIU, N.M. LOHAN, A. CORABIERU, A..M. CAZAC, D.P. BURDUHOS-NERGIS Tehnologia Materialelor/Stiinta si Ingineria Materialelor -Lucrari practice, editura Tehnopress, Iasi - 2022, ISBN 9778-606-687-500-4.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

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E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

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F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

F1 N Cimpoesu, V Paleu, C Panaghie, AM Roman, AM Cazac, LI Cioca, Mechanical Properties and Wear Resistance of Biodegradable ZnMgY Alloy, 2024, Metals, 14 (7), 836.

F2 RG Chelariu, R Cimpoesu, AM Jurca, CM Popa, M Benchea, G Badarau, Analysis of Chemical, Microstructural and Mechanical Properties of a CuAlBe Material Regarding Its Role as a Non-Sparking Material, 2024, Materials 17 (10), 2220.

F3 P Lazar, N Cimpoesu, B Istrate, AM Cazac, DP Burduhos-Nergis, Microstructural and Mechanical Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions, 2024, Coatings 14 (2), 182.

F4 C Bejinariu, DC Darabont, DP Burduhos-Nergis, AM Cazac, Considerations Regarding the Application of the Occupational Injury and Illness Risk Assessment Method at Workplaces/Workstations, in Relation to the ISO 45001 Standard, 2023, Sustainability 15 (3), 2121.

F5 DP Burduhos-Nergis, C Bejinariu, AM Cazac, AV Sandu, P Vizureanu, XRD anD STa ChaRaCTeRizaTion of PhoSPhaTe LayeRS DePoSiTeD on The CaRbon STeeL SuRfaCe, 2023, Archives of Metallurgy and Materials, 955-960-955-960.

F6 SL Toma, DL Chicet, AM Cazac, Numerical Calculation of the Arc-Sprayed Particles’ Temperature in Transient Thermal Field, 2022,Coatings 12 (7), 877.

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F9 Bejinariu C., Cazac A.M., Baciu C., Bernevig-Sava M.A., Coman G., Nica P.E., Forna N.C., Ghizdovat V., Agop M., Constantinescu S., Postolache P., Ianosi S.E., Jimborean G., Correlations between severe plastic deformations processes and acoustic propagation phenomena by means of fractal analysis. consequences on biological structures dynamics, Journal of Computational and Theoretical Nanoscience, Volume 15, Issue 3, Pages 895-907, Scopus, DOI: 10.1166/jctn.2018.7174, 2018.
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H1. Cazac A.M., Darabont D.C., Baciu C., Bernevig-Sava M.A., Bejinariu C., Determination of friction coefficient between aluminum semi-finished and plastic deformation tools, International Multidisciplinary Symposium "UNIVERSITARIA SIMPRO 2016", Annals of the University of Petrosani, Mechanical Engineering, 18, 32-37 32, 2016.
H2. Cazac A.M., Bejinariu C., Toma S.L., Berbecaru A., Bernevig-Sava M.A., Experimental determination of the yield stress for aluminum, Al_99. 5, Bulletin of the Polytechnic Institute of Iasi, Vol 59, Pg 19-25, 2013.
H3. Cazac A.M., Bejinariu C., Badarau G., Toma S.L., Florea C.D., The experimental determination of the friction stress between the semi-product and the active plate at the multiaxial forging of aluminum, Al_99. 5, Bulletin of the Polytechnic Institute of Iaşi. LIX (LXIII), Vol 4, Pg 107-114, 2013.

I. Lucrări științifice publicate în volumele conferințelor.
I1 RG Chelariu, N Cimpoeșu, AM Cazac, MA Bernevig, C Bejinariu, Optical evaluation of the surfaces of the CuAlBe samples after the test of resistance to harsh wear stresses in an explosive atmosphere 2024, MATEC Web of Conferences 389, 00067.
I2. Lazar P., Bejinariu C., Cazac A.M., Sandu A.V., Bernevig M.A., Burduhos-Nergis D.P., Phosphate coatings for the protection of steels reinforcement for concrete, ournal of Physics: Conference Series, Volume 1960, International Conference on Innovative Research (ICIR EUROINVENT 2021) 20-21 May 2021, Iasi, Romania, Volumul 1960, Numărul 1, Pagini 012013, 2021.
I3. Haraga R.A., Cazac A.M., Lohan N.M., Corabieru A., Toma S.L., Selection of Personal Protective Equipment-a complex issue of multi-criteria analysis, MATEC Web of Conferences, Volumul 343, 2021.
I4. Chelariu R.G., Bejinariu C., Bernevig M.A., Toma S. L., Cazac A.M., Cimpoesu N., Analysis of non-sparking metallic materials for potentially explosive atmospheres, MATEC Web of Conferences, Volumul 343, 2021.
I5 Lohan N.M., Toma S.L., Popa M., Cazac A.M., Pricop B., Influence of alloying elements on the thermal behavior of NiTi shape memory alloys, MATEC Web of Conferences, Volumul 342, 2021.

I6. Burduhos-Nergis D. P., Cazac A. M., Corabieru A., Matcovschi E., Bejinariu C., Characterization of Zinc and Manganese Phosphate Layers Deposited on the Carbon Steel Surface, International Conference on Innovative Research - ICIR EUROINVENT 2020 21-23 May 2020, IOP Conference Series: Materials Science and Engineering, Volume 877, 2020.
I7. Popescu I., Lohan N.M., Baciu C., Cazac A.M., Baciu E. R, The subjects of the offenses to the norms on safety and health at work and the social and organizational effects specific to companies conducting mining activities, MATEC Web Conf.Volume 305, 2020,9th International Symposium on Occupational Health and Safety (SESAM 2019), Article Number 00082, DOI :https://doi.org/10.1051/matecconf/202030500082, 2020.
I8. Albulescu, A.G., Popescu I., Corabieru A., Cazac A.M., Bernevig-Sava M.A.,You have many accidents, you pay little, you have no accidents, you pay the same, MATEC Web of Conferences 290, https://doi.org/10.1051/matecconf /20192901, 2019.
I9. Haraga, R.A., Bejinariu, C., Cazac, A.M., Toma, B.F., Baciu, C., Toma, S.L., Influence of surface roughness and current intensity on the adhesion of high alloyed steel deposits-obtained by thermal spraying in electric arc, International Conference on Innovative Research, ICIR EUROINVENT 2019, IOP Conference Series: Materials Science and Engineering, Scopus, DOI: 10.1088/1757-899X/572/1/012056, 2019.
I10. Cazac A.M., Alexandru A., Bernevig-Sava M.-A., Toma S.L., Goanta V., Bejinariu C., Influence of nanostructuration on the sound velocity in copper Cu-99.75, 6th International Conference on Modern Technologies in Industrial Engineering (ModTech), Book Series: IOP Conference Series-Materials Science and Engineering, Scopus, DOI:10.1088/1757-899X/400/7/072002, 2018.
I11. Cazac A.M., Alexandru A., Baciu C., Sandu A.V., Bejinariu C., Influence of Nanostructuration on the Sound Velocity in Aluminum Al-99.50, EUROINVENT International Conference on Innovative Research (ICIR), Book Series: IOP Conference Series-Materials Science and Engineering, Scopus, DOI: 10.1088/1757-899X/374/1/012038, 2018.
I12. Baciu M.A., Nanu C., Sandu G.I., Toma B.F., Bejinariu C., Cazac A.M., Toma S.L., Influence of the Process Parameters on the Properties of Diamax Deposits Obtained by Flame Thermal Spray, International Conference on Innovative Research (ICIR Euroinvent), Book Series: IOP Conference Series-Materials Science and Engineering, Scopus, DOI: 10.1088/1757-899X/209/1/012072, 2017.
I13. Lazar, P., Bejinariu, C., Sandu, A.V., Cazac, A.M., Corbu, O., Sandu, I.G.,Perju, M.C., Corrosion Evaluation of Some Phosphated Thin Layers on Reinforcing Steel, IOP Conference Series: Materials Science and Engineering, Scopus, Doi:10.1088/1757-899X/209/1/012025, 2017.
I14. Cazac A.M., Baciu C., Bernevig-Sava M.A., Baciu R.E., Lupu-Poliac M., Bejinariu C., Determination of Friction Coefficient between Copper Semi-finished and Plastic Deformation Tools, International Conference on Advanced Materials Engineering and Technology (ICAMET), Advanced Materials Engineering And Technology V, Scopus, https://doi.org/10.1063/1.4983792, 2017.
I15. Bejinariu C., Lazar P., Sandu A.V., Cazac A.M., Sandu I.G., Corbu O., Enhancing properties of reinforcing steel by chemical phosphatation, Applied Mechanics and Materials; Zurich Vol. 754-755, 310-314. DOI:10.4028/www.scientific.net/AMM.754-755.310, 2015.
I16. Bejinariu C.; Cazac A.M.; Lazar P; Gheorghiu D.A., Aluminum flow simulation to severe plastic deformation by multiaxial forging, Applied Mechanics and Materials; Zurich Vol. 809-810, 271-276. DOI:10.4028/www.scientific.net/AMM.809-810.271, 2015.
I17. Cazac A.M., Al Bakri Abdullah M.M., Predescu C., Sandu A.V., Bejinariu C., The experimental determination of the friction stress between the semi-product and the active plate at the multiaxial forging of copper, Malaysia-Indonesia Geopolymer Symposium, MIGS 2014, Book series : Materials Science Forum, Volume 803, Pages 216-221, Scopus, DOI: 10.4028/www.scientific.net/MSF.803.216, 2015.
I18. Lazar P., Bejinariu C., Sandu A.V., Cazac A.M., Sandu I.G., Chemical deposition of thin layers on reinforcing steel, International Conference on Innovative Research, ICIR 2015, Book series : Key Engineering Materials, Volume 660, Pages 213-218, Scopus, DOI: 10.4028/www.scientific.net/KEM.660.213, 2015.
I19. Bejinariu C., Cazac A.M., Alexandru A., Toma S.L., Copper flow simulation to severe plastic deformation by multiaxial forging, International Conference on Innovative Research, ICIR 2015, Book series : Key Engineering Materials, Scopus, DOI: 10.4028/www.scientific.net/KEM.660.62, 2015.

J. Invenţii.

J1. Brevet de invenţie Nr. A 01133/ 21.12.2018 - Toma, S.L., Savin, G.A., Toma, B.F., Bejinariu, C., Ionita, I., Vizureanu, P., Badarau, G., Sandu, A.V., Cazac, A.M., Burduhos Nergis D.P. Sistem de duze utilizat la metalizarea prin pulverizare termica in arc electric.

K. Contracte de cercetare

P1 Membru - Contract de finanţare pentru executie proiecte nr. 185/2012

Programul PARTENERIATE IN DOMENIILE PRIORITARE

Categoria de proiect: PCCA tip 2

Denumirea proiectului: Tehnologie de obţinere a straturilor superficiale modificate ale pieselor şi componentelor auto prin prelucrări combinate în fază lichidă şi solidă. (MADI)

Autoritatea Contractantă: Centrul National de Management Programe

Contractor: Universitatea Tehnică „Gheorghe Asachi" din Iaşi

P2 Membru - Contract de finanţare pentru executie proiecte nr. 26CI/2017.

Denumirea proiectului: "Transferul tehnologiei de pulverizare termica in arc electric activat pentru realizarea straturilor feromagnetice depuse pe suport din material plastic".

Categoria de proiect: Cec de inovare

Autoritatea Contractantă: UEFISCDI Bucuresti.

Contractor: Universitatea Tehnică „Gheorghe Asachi" din Iaşi.

P3 Membru - Contract de finanţare pentru executie proiecte nr. 185CI/2018.

Denumirea proiectului: "Transferul tehnologiei de obţinere a depunerilor de Ni-Cr rezistente la coroziune – la S.C. Rezistoterm SRL".

Categoria de proiect: Cec de inovare

Autoritatea Contractantă: UEFISCDI Bucuresti.

Contractor: Universitatea Tehnică „Gheorghe Asachi" din Iaşi.

P4 Membru - Proiectul privind învățământul secundar (ROSE)

Schema de granturi pentru universități – granturi necompetitive

Beneficiar: Universitatea Tehnică "Gheorghe Asachi" din Iași

Titlul proiectului: integrare cu succes la studii universitare la Facultatea de Știința și Ingineria Materialelor din Universitatea Tehnică "Gheorghe Asachi" din Iași, Success_Key

Acord de grant nr. 196/sgu/nc/ii din 13.09.2019

P5 Director contract – Contract cercetare științifică nr. 30675/02.09.2024

Denumirea proiectului: „Studii și cercetări privind pregătirea suprafeței pieselor din oțel carbon prin fosfatare cristalină în vederea protecției anticorozive" – S.C. Alvimec S.R.L.

Categoria de proiect: contract de cercetare științifică

Contractor: Universitatea Tehnică „Gheorghe Asachi" din Iaşi.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data: 05.10.2025 **Semnătura**

Anexa - Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă: Inginerie Mecanică

Numele şi prenumele: ș.l.dr.ing. Cazacu Cristina-Magda

A. Teza de doctorat.
“Cercetări privind dezvoltarea unor noi sisteme mecatronice de reabilitate a articulației gleznei”, anul 2020, Universitatea Tehnică “Gheorghe Asaschi” din Iași, domeniul Inginerie Mecanică, conducător de doctorat prof.univ.dr.ing. Doroftei Ioan

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.
C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.
D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.
E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Articol publicat în revistă cotată ISI, cu factor de impact

1. Doroftei, I., **Cazacu, C. M.,** & Alaci, S. (2023). *Design and Experimental Testing of an Ankle Rehabilitation Robot*. Actuators,12(6), MDPI, IF: 2,6
2. Doroftei, I., **Racu, C. M.,** & Baudoin, Y. (2021). *Development of a robotic platform for ankle joint rehabilitation*. Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, And Engineering, 64(1-S2), IF: 0.2
3. DOROFTEI, I., CRIVOI, O. V., **CAZACU, C. M.,** & ALACI, S. (2025). *SOME PARTICULARITIES OF INTERNAL-EXTERNAL GEAR PAIRS WITH ZERO DIFFERENCE IN NUMBERS OF TEETH*. ACTA TECHNICA NAPOCENSIS-Series: APPLIED MATHEMATICS, MECHANICS, and ENGINEERING, 68(1 & 2), IF: 0.2

Articol publicat în revistă indexata in baze de date internaţionale (BDI)

4. Doroftei, I., **Cazacu, C.M.** & Alaci, S. (2022). *ANKLE REHABILITATION ROBOTIC PLATFORM. PART A: STRUCTURAL SYNTHESIS*. Robotica & Management, 27(2).
5. Doroftei, I., Cazacu, C.M. & Alaci, S. (2022). *ANKLE REHABILITATION ROBOTIC PLATFORM. PART B: POSSIBLE CONSTRUCTIVE SOLUTIONS*. Robotica & Management, 27(2).
6. **Racu (Cazacu), C**., Doroftei, I., (2016). *Motion Simulation of a New Ankle Rehabilitation Device*. Robotica & Management, 21(1), pp. 30-35.
7. Doroftei, I., **Racu (Cazacu), C.,** (2015). *SIMULATION RESULTS OF AN ANKLE REHABILITATION DEVICE*. Robotica & Management, 20(2), pp. 27 – 30.
8. Doroftei, I., **Racu (Cazacu), C.,** (2015). *KINEMATICS OF A NOVEL ANKLE REHABILITATION DEVICE WITH TWO DEGREES OF FREEDOM*. Robotica & Management, 20(1), pp. 27 – 30.

G. Lucrări ştiinţifice publicate în reviste din străinătate.
H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate WoS (fără factor de impact):

1. Doroftei, I., Crivoi, O. V., & **Cazacu, C. M.** (2024, November). *Some Particular Theoretical Aspects of Internal-External Gear Pairs with Zero Difference in Numbers of Teeth*. In Joint International Conference of the International Conference on Mechanisms and Mechanical Transmissions and the International Conference on Robotics (pp. 219-227). Cham: Springer Nature Switzerland.

2**. Cazacu, CM.,** Doroftei, I. (2024). *Control Advances in Upper Limb Prostheses: A Review. Part I: Invasive Methods.* In: Lovasz, EC., Ceccarelli, M., Ciupe, V. (eds) Mechanism Design for Robotics. MEDER 2024. Mechanisms and Machine Science, vol 166. Springer, Cham.

3. **Cazacu, CM.,** Doroftei, I. (2024). *Control Advances in Upper Limb Prostheses: A Review. Part II: Non-Invasive Methods*. In: Lovasz, EC., Ceccarelli, M., Ciupe, V. (eds) Mechanism Design for Robotics. MEDER 2024. Mechanisms and Machine Science, vol 166. Springer, Cham

4. Sandu, RO., Doroftei, I., **Cazacu, CM.** (2024). *A Concise Review of Upper Limb Prostheses.* In: Advances in Service and Industrial Robotics. RAAD 2024. Mechanisms and Machine Science, vol 157. Springer, Cham.

5.Straticiuc, C., Doroftei, I., **Cazacu, CM.** (2024). *A Short Overview on Terrestrial Hybrid Locomotion Mobile Robots*. In: Advances in Service and Industrial Robotics. RAAD 2024. Mechanisms and Machine Science, vol 157. Springer, Cham.

6.Doroftei, I., **Racu, C. M.,** Honceriu, C., & Irimia, D. (2019). *A one-degree-of freedom ankle rehabilitation platform*. IOP Conference Series: Materials Science and Engineering, 591(1), p. 012076. IOP Publishing. - indexat WoS

7. **Racu, C. M.,** & Doroftei, I. (2018). *Compliant mechanism for ankle rehabilitation device; Part I: modelling and design*. IOP Conference Series: Materials Science and Engineering, 444(5), p. 052014. IOP Publishing- indexat WoS

8. **Racu, C. M.,** & Doroftei, I. (2018). *Compliant mechanism for ankle rehabilitation device. Part II: optimization and simulation results.* IOP Conference Series: Materials Science and Engineering, 444(5), p. 052015. IOP Publishing- indexat WoS

9. **Racu, C. M.,** Doroftei, I., Plesu, G., & Doroftei, I. A. (2016). *Simulation of an ankle rehabilitation system based on scotch-yoke mechanism.* In IOP Conference Series: Materials Science and Engineering, 147(1), p. 012084. IOP Publishing- indexat WoS

10. **Racu, C. M.,** & Doroftei, I. (2016). *Design, modelling and simulation aspects of an ankle rehabilitation device*. In IOP Conference Series: Materials Science and Engineering 145(5), p. 052008. IOP Publishing - indexat WoS

11. **Racu, C. M.,** & Doroftei, I. (2015). *Ankle rehabilitation device with two degrees of freedom and compliant joint.* In IOP Conference Series: Materials Science and Engineering, 95(1) p. 012054. IOP Publishing - indexat WoS

Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)

12. **Cazacu, C.M**. and Doroftei, I. (2023). *Preliminary Functionality Tests of an Improved Ankle Rehabilitation Device*. International Symposium on Measurements and Control in Robotics, pp. 215-223, Springer Nature Switzerland.

13. Doroftei, I., **Cazacu, C.M**.(2023). *Developments in the Design of an Ankle Rehabilitation Platform.* International Workshop on Medical and Service Robots, pp. 179-187, Springer Nature Switzerland.

14. **Racu (Cazacu), C. M.,** & Doroftei, I. (2020). *Preliminary results and evaluation of an ankle rehabilitation device*. IOP Conference Series: Materials Science and Engineering, 997, p. 012088. IOP Publishing

15. **Racu, C. M.,** & Doroftei, I. (2018). *New Concepts of Ankle Rehabilitation Devices—Part I: Theoretical Aspects.* New Advances in Mechanism and Machine Science, pp. 223-231

16. **Racu, C. M.,** & Doroftei, I. (2018). *New Concepts of Ankle Rehabilitation Devices—Part II: Design and Simulation.* New Advances in Mechanism and Machine Science, pp. 233-239

17. **Racu Cazacu, C.M.,** Doroftei, I. (2015). *Preliminary Ideas on the Development of a New Ankle Rehabilitation Device*. In Proceedings of the 14th IFToMM World Congress, pp. 439-447.

18. **Racu, C.,** & Doroftei, I. (2015). *PRELIMINARY MATHEMATICAL MODEL OF A NEW ANKLE REHABILITATION DEVICE*. Journal of Engineering Studies and Research, 21(2), pp. 78-82.

19. **Racu Cazacu, C. M.,** & Doroftei, I. (2015). *Design Aspects of a New Device for Ankle Rehabilitation*. In Applied Mechanics and Materials, 809, pp. 986-991. Trans Tech Publications.

20. **Racu Cazacu, C. M.,** & Doroftei, I. (2014). *Structural and kinematic aspects of a new ankle rehabilitation device*. In Applied Mechanics and Materials, 658, pp. 507-512. Trans Tech Publications

21. **Racu Cazacu, C. M.,** & Doroftei, I. (2014). An *overview on ankle rehabilitation devices*. In Advanced Materials Research, 1036, pp. 781-786. Trans Tech Publications.

Articol/studiu publicat în volumul unei manifestări ştiinţifice neindexate

22. **Racu (Cazacu) C**., Doroftei I., (2015). *Structural and Kinematic Aspects of a New Ankle Rehabilitation Device*. International Scientific Journal Machines, Technologies, Materials, Vol. 21/184, ISSN 1310-3946, pp. 12-15, Scientific Proceedings of the Scientific-Technical Union of Mechanical Engineering

23. Radu Mihai Iacob, Emil Budescu, **Cristina Magda Cazacu**, (2024). *CONCEPT FOR TRAINING THE REFLEXES OF THE FOOTBALL GOALKEEPER USING AN INTELLIGENT MECHATRONIC SYSTEM*. SPORT AND SOCIETY. Interdisciplinary Journal of Physical Education and Sports, pp.289-294.

J. Invenţii.

K. Contracte de cercetare.

1. Funcția: Asistent de cercetare, Aprilie 2021–August 2023
   Proiect: Development of a world-level neuroengineering research centre by European twinnning (BRAINTWIN).
   Contract: H2020 -WIDESPREAD-05-2020 nr.952378 – BRAINTWIN
   Beneficiar: Universitatea Tehnică ”Gheorghe Asachi” din Iași

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
20.10.2025

Cazacu Cristina-Magda

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Cazan Stelian

A. Teza de doctorat: **Contribuții privind calculul la solicitarea de contact concentrat a angrenajelor cilindrice cu dinți drepți și dinți înclinați**, 2023, Universitatea Tehnică Gheorghe Asachi, Iași, Inginerie Mecanică, prof. univ. dr. ing. emerit Spiridon Crețu.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate – nu există

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS – nu există

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local – nu există

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web – nu există

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Stelian Cazan, Spiridon Crețu, Claudiu Dănilă,*Tooth contact analysis of helical gears using semi-analytical m* International, 185-210, 2023

Stelian Cazan, Shubrajit Bhaumik, Viorel Paleu, Spiridon Crețu, *Developing a fast processing novel algorithm f* Symmetry, 15(2) 554, 2023

Ioan Doroftei, Daniel Chiriță, Ciprian Stamate, **Stelian Cazan**, Carlos Pascal, Adrian Burlacu, *Robotic syster dismantling of PCB waste*, Industrial Robot, 720-725, 2022

Gheorghe Pleșu, **Stelian Cazan,** *Contribution on the Optimization of the Spur Gears Design process using so* Materials 658:117-122, 2015

G. Lucrări ştiinţifice publicate în reviste din străinătate.

Ioan Doroftei, **Stelian Cazan,** Adrian Burlacu, Daniel Chiriță, *Perspectives on originally designed eco-friendly robotic cell for PCB dismantling*, Mechanisms and Machine Science, vol 127. Springer, Cham, 2023

Gheorghe Pleșu, **Stelian Cazan,** *A mathematical approach regarding a better geometry of the root fillet of symmetric and asymmetric gears with the main scope of increasing the fatigue strength of gear teeth and avoiding the occurrence of cracks*, IOP Conf. Ser.: Mater. Sci. Eng. **145** 042035, 2016

Stelian Cazan, Claudiu Dănilă, Spiridon Crețu, *Tooth contact analysis of spur and helical gears with crowned profile for pinion*, IOP Conf. Series: Materials Science and Engineering 724 (2020) 012030, International Conference on Tribology (ROTRIB'19), 2019

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS

***Stelian Cazan**, Spiridon Crețu, Viorel Goanță, Igor Blanari, Liviu Andrușcă, Măriuca Oprișan,* The environmental impact of high-performance spur and helical gears in industry, Environmental Engineering and Management Journal, 2025

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

Stelian Cazan, Spiridon Crețu,*Tooth contact analysis of spur and helical gears in case of shafts deflections*, ASME 2024 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Washington DC, ASME Proceedings, 2024

Gheorghe Pleșu, **Stelian** Cazan, On the optimization of the asymmetric spur gears fillet geometry using Bézier curves, IOP Conference Series: Materials Science and Engineering, Volume 145, Issue 2, 2015

Spiridon Crețu, **Stelian** Cazan, Nicolae Pop,*Tooth contact analysis of spur gears. Part 1 – SAM analysis of standard gears*, MATEC Web Conf. **Volume** 112, 2017, 21st Innovative Manufacturing Engineering & Energy International Conference – IManE&E 2017

Stelian Cazan, Spiridon Crețu,*Tooth contact analysis of spur and helical gears with end relief profiles*, IOP Conference Series: Materials Science and Engineering, Volume 444, Issue 2, 2018

Stelian Cazan, Daniel Chiriță, Ciprian Stamate, Dănuț Irimia, Adrian Burlacu, Ioan Doroftei *Dismantling strategy for capacitors placed on printed circuit boards: challenges and preliminary results*, IOP Conference Series: Materials Science and Engineering, Volume 997, The 9th International Conference on Advanced Concepts in Mechanical Engineering - ACME 2020 4-5, Iași, Romania, 2020

Spiridon Crețu, Nicolae Pop, **Stelian Cazan**, *Considerations regarding the pressures distribution on leads of spur gears*, IOP Conference Series: Materials Science and Engineering, Volume 444, Issue 2, 2018.

J. Invenţii.

Cerere de brevet de invenție privind crearea unei instalații robotizate privind recuperarea materialelor prețioase de pe placile de bază ale componentelor electronice.

K. Contracte de cercetare.

1. Tehnologii innovative pentru recuperarea avansată a materialelor din deșeuri de echipamente informatice și de telecomunicații – TRADE IT
2. Soluție integrată pentru printarea 3D a elementelor specifice arhitecturii ecleziastice și clădirilor monument – contract câștigat în cadrul competiției anuale de proiecte pentru tinerii cercetători Academia Oamenilor de Știință din România

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
20.10.2025

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele și prenumele: CHIFAN FLORIN

A. Teza de doctorat.
CERCETĂRI TEORETICE ȘI EXPERIMENTALE PRIVIND DINAMICA PROCESULUI DE FREZARE PE MAȘINI CU COMANDĂ NUMERICĂ, Universitatea Tehnică „Gheorghe Asachi" din Iași, Domeniul Inginerie Industrială, Conducător de Doctorat: Prof. univ. dr. ing. Cătălin-Gabriel DUMITRAȘ

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1.	M. Horodinca, **F. Chifan**, E. Paduraru, C. G. Dumitras, A. Munteanu, D.-F. Chitariu, *A Study of 2D Roughness Periodical Profiles on a Flat Surface Generated by Milling with a Ball Nose End Mill*, *Materials* , *17(*6), 1425, 2024; https://doi.org/10.3390/ma17061425
2.	E. Paduraru, C.G.Dumitras, D. F. Chitariu, M. Horodinca, **F. Chifan**, *Research on Additive Technique Parameter Optimization for Robotic Gripper Construction*, Machines, 11(6), 621, (2023), doi.org/10.3390/machines11060621(revista cotată ISI - factor de impact: 2,6– zona galbenă)
3.	C.G.Dumitraș, D. F. Chitariu, **F. Chifan**, C.G. Lateș, M.Horodincă, *Surface Quality Optimization in Micromachining with Cutting Tool Having Regular Constructive Geometry*, Micromachines, 13(3), 422, (2022), //doi.org/10.3390/mi13030422, (revista cotată ISI - factor de impact: 3,523– zona galbenă)
4.	A. Munteanu, D.-F. Chitariu, M. Horodinca, C.G. Dumitras, F. Negoescu, A. Savin, **F. Chifan**, *A Study on the Errors of 2D Circular Trajectories Generated on a 3D Printer*, Applied Science, 11(24), 11695, (2021), doi.org/10.3390/app112411695, (revista cotată ISI - factor de impact:2,838– zona galbenă)

Reviste indexate în baze de date

1.	Emilian Păduraru, Adriana Munteanu, **Florin Chifan,** *The pugh matrix application in case of robot grippers,* SCIENDO THE XXVIII INTERNATIONAL CONFERENCE, ISSN 978-83-67405-79-9, pg. 15-18, 2024 https://doi.org/ 10.2478/9788367405799-002
2.	**Florin CHIFAN**, Constantin LUCA, Mihăiță Horodincă, Cătălin G. DUMITRAȘ, *An Approach on a Transient Regime of a CNC Machining Center Spindle Drive System Using the Active Electrical Power Evolution,* RECENT J. Vol. 20, no. 3(59) (2019), pg.99-106 https://doi.org/10.31926/RECENT.2019.59.099 index copernicus; Revistă BDI (Index Copernicus).
3.	**Florin CHIFAN**, Cătălin G. DUMITRAS, Gheorghe PLEȘU, Vasile DAMASCHIN, *Free-form surface processing-issues regarding improving quality and productivity* , BULETINUL

	INSTITUTULUI POLITEHNIC DIN IAŞI, Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Tomul LXI (LXV),Fasc.4,2015, Secţia CONSTRUCŢII DE MAŞINI, https://www.cmmi.tuiasi.ro/wp-content/uploads/buletin/2015%20fasc%204/L7%20CM%204_2015.pdf Revistă BDI (Index Copernicus).
4.	Valeriu Fănică HRIB, **Florin CHIFAN,** Mariana CIORAP**,** Cătălin Gabriel DUMITRAȘ. *An study regarding a new concept of 3D printing using A 6 axis industrial robotic arm,* Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, ISSN 2537-4869, vol. 69(73) nr. 3, 2023. Revistă BDI (Index Copernicus). https://sciendo.com/journal/BIPCM.
5.	Valeriu Fănică HRIB, **Florin CHIFAN**, Cătălin Gabriel DUMITRAȘ, *COMPARATIVE STUDY BETWEEN CONVENTIONAL AND ROBOTIC METHODS IN 3D PRINTING,* BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Vol. 69 (73), Nr. 4, 2023, Secţia CONSTRUCŢII DE MAŞINI, DOI:10.2478/bipcm-2023-37;
6.	Dragoş Florin CHITARIU, Florin CHIFAN, Emilian PĂDURARU, Cătălin Gabriel DUMITRAȘ, Research on Development of Fragmentation Knives for Shredders Using Morphological Matrix, THE XXVII-th INTERNATIONAL CONFERENCE of INVENTICS "INVENTICA 2023. Sciendo. pp. 136-143 2023 https://doi.org/10.2478/9788367405201-014
7.	Emilian PĂDURARU, Cătălin Gabriel DUMITRAȘ, Dragoş Florin CHITARIU, **Florin CHIFAN**. *Study on optimizing materials for 3D gripper printing.* International Journal of Modern Manufacturing Technologies *vol. 14 nr. 2, 2022.* https://doi.org/ 10.54684/ijmmt.2022.14.2.174 Revistă BDI (Scopus).
8.	Mihăiță HORODINCĂ, Eduard-Neculai BUMBU, Adriana MUNTEANU, Dragoș Florin CHITARIU, **Florin CHIFAN,** *A study on the synthesis of 2D profiles for cycloidal discs used in cycloidal reduceres*, Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, ISSN 2537-4869, vol. 68(72) nr. 4 2022. Revistă BDI (Index Copernicus) https://sciendo.com/article/10.2478/bipcm-2022-0037.
9.	Mihăiță HORODINCĂ, Eduard-Neculai BUMBU, Dragoș Florin CHITARIU, Adriana MUNTEANU, **Florin CHIFAN**, George Iulian FIGURĂ. *A study of 2D profile for a cycloidal ring used in a cycloidal reducer,* Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, ISSN 2537-4869, vol. 68(72) nr. 4 2022. Revistă BDI (Index Copernicus) https://sciendo.com/article/10.2478/bipcm-2022-0038.
10.	Emilian PĂDURARU, Cătălin Gabriel DUMITRAȘ, Dragoș Florin CHITARIU, **Florin CHIFAN**. *Research on developing of a reconfigurable gripping mechanism with electric drive*. Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, ISSN 2537-4869, vol. 68(72) nr. 4 2022. Revistă BDI (Index Copernicus) https://sciendo.com/article/10.2478/bipcm-2022-0035 e (sciendo.com).
11.	Ana Maria BOCANET, Dragoș Florin CHITARIU, **Florin CHIFAN**, Emilian PADURARU, *Considerations Regarding Chips Processing Equipment Component of a Sustainable Metalworking Process*, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Vol. 65 (69), Nr. 2, 2019, Secţia CONSTRUCŢII DE MAŞINI, pp. 49-56. Revistă BDI (Index Copernicus) https://cmmi.tuiasi.ro/tome-6569-number-2-2019.
12.	**Florin CHIFAN,** Cătălin G. DUMITRAS, Dragos C. ACHITEI, Manuela C. PERJU, *Hardness modification of 90MNCRV8 steel through heat tratments.* International Student Innovation and Scientific Research Exhibition „Cadet INOVA 18", „Nicolae Balcescu" Land Forces Academy of Sibiu, Romania, 2018.nr.3/2018 pg.191-194 https://cadetinova.ro/index.php/ro/organizare/catalog/catalog-inova-18.
13.	**Florin CHIFAN**, Cătălin G. DUMITRAS, Gheorghe PLEȘU, *Aspects regarding the optimum cutting tool path in processing free-form*, Annals of the Academy of Romanian Scientists, Series on Engineering Sciences, ISSN 2067 - 2160, Volume 6, Number 1/2014, pp. 31-38. http://www.aosr.ro/wp-content/uploads/2021/10/Raport-AOSR-2014.pdf.
14.	Ioana CRĂCIUN, **Florin CHIFAN**, Cătălin Gabriel DUMITRAŞ. *A New Approach on Preventive Maintenance in Industry.* Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, ISSN 2537-4869, vol. 69 nr. 2 2023 https://sciendo.com/article/10.2478/bipcm-2023-0013.
15.	Emilian PĂDURARU, Adriana MUNTEANU, **Florin CHIFAN,** *Morphological matrices application in case of robot grippers,* The XXVII-th International Conferince of Inventics, INVENTICA 2023 Science of creativity, ISBN 978-83-67405-20-1 https://doi.org/10.2478/9788367405201-013.

16.	Fănică-Valeriu Hrib, **Florin Chifan,** Constantin-Cătălin Dosoftei, *IMPLEMENTATION OF USING COLLABORATIVE ROBOTS IN THE ADDITIVE MANUFACTURING PROCESS,* International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. XV, No. 2/2023 https://ijmmt.ro/international-journal-ijmmt/vol15no22023.
17.	Gheorghe Pleşu, **Florin CHIFAN**, *Study of staggered-tooth milling cutter and desidn of milling cutters with increased durability for processing screw compressors*, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Tomul LIX (LXIII), Fasc. 1, 2013, Secţia CONSTRUCŢII DE MAŞINI https://www.cmmi.tuiasi.ro/wp-content/uploads/buletin/2013%20fasc%204/L13%20CM%204_2013.pdf.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

J. Invenţii.

K. Contracte de cercetare.

K1	*Dezvoltarea instituțională a TUIASI prin creșterea vizibilității și a performanței cercetării*, tip PNCDI III – Proiect de Dezvoltare Instituțională – Proiect de finanțare a excelenței în educație, CDI nr. 9PFE/2018 (Asistent cercetare științifică), C.I.M nr.18537/31.05.2019.
K2	*Soluție inovativă privind creșterea performanțelor sondelor de extragere a petrolului*, cod PN-II-IN-CI-2012 -1- 0291, contract de finanțare 158CI / 03.10.2012, finanțator (Autoritate contractanta): UEFISCDI (Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării şi Inovării) (Specialist Proiectant în Software CAD/CAM).

L. Premii, distincţii.

2019	**Diplomă de excelență,** Dragoș Florin CHITARIU, **Florin CHIFAN**, Emilian PĂDURARU, *Concepția și realizarea de echipamente de fragmentare compactare a deșeurilor modulare, eficiente energetic*, ASSOCIATION of INVENTATORS 2019, romania2019.eu
	Diplomă de realizare, Medalia de AUR, Dragoș Florin CHITARIU, **Florin CHIFAN**, Emilian PĂDURARU, *Concepția și realizarea de echipamente de fragmentare compactare a deșeurilor modulare, eficiente energetic*, INVENTICA 2019
2020	**Medalia de ARGINT,** Emilian PĂDURARU, Dragoș Florin CHITARIU, **Florin CHIFAN,** *4 Jaws reconfigurable griper*, EURO IVENT ediția XII 2020
	Medalia de ARGINT, Dragoș Florin CHITARIU, Emilian PĂDURARU, **Florin CHIFAN,** *Energy efficient equipment for metallic chip fragmentation and compression*, EURO IVENT ediția XII 2020
	Diplomă de realizare, Medalia de AUR, Emilian PĂDURARU, Dragoș Florin CHITARIU, **Florin CHIFAN,** *4 Jaws reconfigurable griper*, INVENTICA 2020
2022	**Diplomă de onoare, Medalia de AUR,** Emilian PĂDURARU, Dragoș Florin CHITARIU, Cătălin Gabriel DUMITRAȘ, Mihăiță HORODINCĂ, Adriana MUNTEANU, Florin CHIFAN, Fănică Valeriu HRIB, *Modular gripper*, INVENTICA 2022
	Diplomă de excelență, Medalia de AUR, Emilian PĂDURARU, Dragoș Florin CHITARIU, Cătălin Gabriel DUMITRAȘ, Mihăiță HORODINCĂ, Adriana MUNTEANU, Florin CHIFAN, Fănică Valeriu HRIB, *Mecanism de prehensiune cu 4 fălci reconfigurabil*, PRO INVENT ediția XX 2022.

M. Alte realizări semnificative.

1	Păduraru, E., Chitariu, D. F., Dumitraș, C. G., Horodincă, M., Munteanu, A., **Chifan, F.,** Hrib, F. V., (2022), *Modular gripper,* Inventica 2022, ISSN: 1844-7880;
2	Păduraru, E., Munteanu, A., **Chifan, F**. (2023), *Morphological matrices application in case of robot grippers Matrix*, Inventica 2023

Data:

Anexa Lista de lucrari

Lista de lucrări în domeniul de studii universitare de licență INGINERIE MECANICĂ

Numele şi prenumele: CHIRIAC BOGDAN

A. Teza de doctorat.

„*Cercetări privind procesele de frecare și de uzare în tribositeme de alunecare cu suport de sticlă* ” specializarea Inginerie mecanică, diploma nr. 3427/19.12.2024, titlu acordat de Universitatea „Gheorghe Asachi” din Iaşi, Facultatea de Mecanică, conducător ştiinţific prof. dr. ing. Dumitru Olaru.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Achitei, G., Dontu, A. I., Chiriac, B., & Popescu, A. (2023). *State-of-the-Art and Future Trends of Thermoelectric Generation Systems in Automotive Industry* (pp. 1–8). https://doi.org/10.1007/978-3-031-45964-1_1

Cârlescu, V., Oprișan, C. M., Chiriac, B., Ianuș, G., & Olaru, D. N. (2022). *Influence of Hand Sanitisers on the Friction Properties of the Finger Skin Amid the COVID-19 Pandemic* (pp. 420–428). https://doi.org/10.1007/978-3-030-79165-0_39

Chiriac, B., Chiriac, E. A., Achitei, G., & Olaru, D. (2024a). Glass Wear with Different Powders (Eutalloy Tung Tec, Metco 82VF-NS and MTS 8013). *Bulletin of the Polytechnic Institute of Iași. Machine Constructions Section*, *70*(3), 35–44. https://doi.org/10.2478/bipcm-2024-0014

Chiriac, B., Chiriac, E. A., Achitei, G., & Olaru, D. (2024b). Wear of Glass with Soft Materials. *Bulletin of the Polytechnic Institute of Iași. Machine Constructions Section*, *70*(3), 57–64. https://doi.org/10.2478/bipcm-2024-0016

Chiriac, B., Oprisan, C. M., Carlescu, V., & Olaru, D. N. (2022). Friction coefficient between glass surfaces and soft materials. *IOP Conference Series: Materials Science and Engineering*, *1262*(1), 012004. https://doi.org/10.1088/1757-899X/1262/1/012004

Cojocaru, D., Ianuș, G., Cârlescu, V., Chiriac, B., & Olaru, D. (2025). Friction Torque in Miniature Ball Bearings. *Lubricants*, *13*(1), 12. https://doi.org/10.3390/lubricants13010012

Oprisan, C. M., Chiriac, B., Carlescu, V., & Olaru, D. N. (2020). Friction forces on human finger skin. *IOP Conference Series: Materials Science and Engineering*, *724*(1), 012059. https://doi.org/10.1088/1757-899X/724/1/012059

Oprișan, C. M., Chiriac, B., Cârlescu, V., & Olaru, D. N. (2020). Influence of the stiffness and the speed on the stick-slip process. *IOP Conference Series: Materials Science and Engineering*, *997*(1), 012016. https://doi.org/10.1088/1757-899X/997/1/012016

Oprişan, C. M., Chiriac, B., Tufescu, A., & Olaru, D. N. (2022). Static and dynamic friction coefficient in low loads and sliding speed conditions. *IOP Conference Series: Materials Science and Engineering*, *1262*(1), 012012. https://doi.org/10.1088/1757-899X/1262/1/012012

G. Lucrări ştiinţifice publicate în reviste din străinătate.

Chiriac B., Oprisan C.M., Carlescu V., Olaru D.N., *Static and Dynamic friction coefficient for glass surfaces*, 10th International Conference on Tribology – Balkantrib 20, Servia, 2021

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

J. Invenţii.

K. Contracte de cercetare.

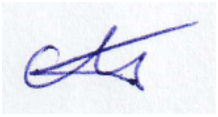
Nr.	Titlul proiectului	Număr contract/tip	Valoare insitutie (lei)
1.	Studiu de circulație privind organizarea traficului auto și pietonal în sat Valea Adâncă, Comuna Miroslava, Jud. Iași Director de proiect: Conf. Adrian Sachelarie **Membru în echipă: Chiriac Bogdan** (contribuție proprie 23,5% - certificat de director)	5039/2021	3808000
2.	Locuinte colective cu spatii comerciale la parter si parcare subterana pe teren proprietate prin demolare cladiri existente C.U. Nr. 1160/2021 Director de proiect: Conf. Lidia Gaiginschi **Membru în echipă: Chiriac Bogdan** (contribuție proprie 20% - certificat de director)	45296/2022	1261400
3.	Traficul auto si pietonal in satele Miroslava Gaureni, Balciu, Comuna Miroslava, Jud. Iasi Director de proiect: Conf. Adrian Sachelarie **Membru în echipă: Chiriac Bogdan** (contribuție proprie 20% - certificat de director)	163/2024	416500
4.	Creșterea deschiderii parcursului educațional către absolvire prin reducerea abandonului în primul an de studii la Facultatea de Mecanică de la Universitatea Tehnică „Gheorghe Asachi" din Iaşi (MEC4PASS) Director de proiect: Sef. lucr. Iulian Agape **Membru în echipă: Chiriac Bogdan** (contribuție proprie 4,42% - certificat de director)	ROSE AG 206SGU/NC/II/ 2019	700515

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
20.03.2025

Chiriac Bogdan



Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Mecanică

Numele şi prenumele: CIOBANU IULIA BRÎNDUŞA

A. Teza de doctorat:

Interacţiunea câmp gravitaţional-câmp electromagnetic, conducător ştiințific Prof. dr. fiz. Corneliu Ciubotariu, Universitatea "Al. I. Cuza" Iaşi, Facultatea de Fizică, Ordinul Ministrului Educaţiei Naţionale Nr. 3774 din 10.V.2000.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate:

1. Iulia Brînduşa Ciobanu, *Remarks on Modeling Interactions in Gravitational Fields*, Addleton Academic Publishers, New York, ISBN: 978-1-935494-00-3, LCCNumber: 2009904736, 413 pag., 2009.
2. B. Ciobanu, C. Gh. Buzea, M. Agop, D. Ţatomir *Generalized Superconductivity*, Nonlinear Phenomena in Materials Science, Published by Graphic Arts, Char. I. Papadopoulos S. A., Athena, Greece, ISBN 960-91 155-0-0, pp. 74-83, 1999.
3. M. Agop, C. Gh. Buzea, **B. Ciobanu**, V. Bahrin, C. Marin, V. Cojocaru, *Some Implications of Weyl- Dirac Type Theories,* Nonlinear Phenomena in Materials Science*,* Published by Graphic Arts, Char. I. Papadopoulos S. A., Athena, Greece, ISBN 960-91 155-0-0, pp.38-55, 1999.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS)

1. Iulia Brînduşa Ciobanu (coautor), *Experimentează, învaţă, descoperă*, *Îndrumar de laborator Fizică,* Editura Performantica, Iaşi, ISBN 978-630-328-164-3, 245 pag., 2025.
2. Gabriela Apreotesei, **Iulia Brînduşa Ciobanu**, *Electricitate, magnetism, fenomene optice. Teorie si aplicatii,* Editura PIM, Iaşi, ISBN 978-606-13-8838-7, 470 pag., 2024.
3. Iulia Brînduşa Ciobanu (coautor), *Îndrumar de lucrări practice pentru disciplina Fizică,* Editura Performantica, Iaşi, 166 pag., 2023.
4. Iulia Brînduşa Ciobanu, Gabriela Apreotesei, *Fenomene fizice şi aplicaţii,* Editura PIM, Iaşi, ISBN 978-606-13-7366-6, 189 pag., 2022.
5. Gabriela Apreotesei, **Iulia Brînduşa Ciobanu**, *Fizica pentru învâţământul tehnic superior. Teorie şi aplicaţii,* Editura PIM, Iaşi, ISBN 978-606-13-6500-5, 405 pag., 2021.

6. Iulia Brînduşa Ciobanu, *Fizică generală,* Editura PIM, Iaşi, ISBN 978-606-13-6512-3, 293 pag., 2020.

7. Gabriela Apreotesei, Iulia Brînduşa Ciobanu, *Aplicaţii ale fizicii clasice şi moderne pentru învâţământul tehnic superior",* Editura PIM, Iaşi, ISBN 978-606-13-538-4, 317 pag., 2019

8. Iulia Brînduşa Ciobanu, Gabriela Apreotesei, *Elemente de termodinamică şi fizică statistică*, Editura PIM, Iaşi, ISBN: 978-606-13-4737-7, 239 pag., 2018.

9. Iulia Brînduşa Ciobanu, *Influenţa activităţii solare asupra fenomenelor meteorologice*, Editura PIM, Iaşi, ISBN: 978-606-13-4175-7, 107 pag., 2017.

10. Iulia Brînduşa Ciobanu, Gabriela Apreotesei, *Introducere în studiul fizicii,* Editura PIM, Iaşi, ISBN: 978-606-13-3563-3, 530 pag., 2016.

11. Gabriela Apreotesei**, Iulia Brînduşa Ciobanu,** *Fizică tehnică pentru învăţământul superior,* Editura PIM, Iaşi, ISBN: 978-606-13-2749-2, 336 pag., 2015.

12. Iulia Brînduşa Ciobanu, Gabriela Apreotesei, *Elemente de fizică tehnică pentru învăţământul superior,* Editura PIM, Iaşi, ISBN: 978-606-13-2750-8, 219 pag., 2015.

13. Iulia Brînduşa Ciobanu, Gabriela Apreotesei, *Modelarea fenomenelor fizice cu aplicaţii în inginerie*, Editura PIM, Iaşi, ISBN: 978-606-13-2748-5, 343 pag., 2015.

14. Iulia Brînduşa Ciobanu, Gabriela Apreotesei, *Aplicaţii ale fenomenelor fizice în tehnică,* Editura PIM, Iaşi, ISBN: 978-606-13-2063-9, 165 pag., 2014.

15. Gabriela Apreotesei**, Iulia Brînduşa Ciobanu,** *Fenomene fizice cu aplicaţii în inginerie*, Editura PIM, Iaşi, ISBN: 978-606-13-2064-6, 302 pag., 2014.

16. Iulia Brînduşa Ciobanu, Gabriela Apreotesei, *Elemente de fizică tehnică,* Editura PIM, Iaşi, ISBN: 978-606-13-2065-3, 287 pag., 2014.

17. Gabriela Apreotesei**, Iulia Brînduşa Ciobanu,** *Elemente de fizică pentru învăţământul superior,* Editura PIM, Iaşi, ISBN: 978-606-13-0687-9, 281 pag., 2011.

18. Gabriela Apreotesei**, Iulia Brînduşa Ciobanu***, Electricitate şi Magnetism. Fenomene optice. Aplicaţii***,** Editura PIM, Iaşi, ISBN: 978-606-13-0069-3, 266 pag., 2010.

19. Iulia Brînduşa Ciobanu, *Elemente de mecanică cuantică,* Editura PIM, Iaşi, ISBN: 978-606-520-413-3, 347 pag., 2009.

20. Iulia Brînduşa Ciobanu, *Aspecte relativiste ale modelării unor interacţiuni în câmp gravitaţional*, Editura Ars Academica, Bucureşti, ISBN: 978-606-8017-18-1, 234 pag, 2009.

21. Iulia Brînduşa Ciobanu, Gabriela Apreotesei, *Fizică generală- Aplicaţii*, Editura PIM, Iaşi, ISBN: 978-606-520-414-0, 413 pag., 2009.

22. Irina Radinschi, **Brînduşa Ciobanu**, *Fizică pentru ingineri*, Editura Junimea Iaşi, ISBN(10) 973-37-1167-5, ISBN(13) 978-973-37-1167-4, 194 pag., 2006.

23. Irina Radinschi, **Brînduşa Ciobanu**, *Teste de Fizică*, Editura Junimea, Iaşi, ISBN(10) 973-37-1166-7, ISBN(13) 978-973-1166-7, 130 pag, 2006.

24. Brînduşa Ciobanu, Maricel Agop, Constantin Cotae, *Fizică- Optică şi electromagnetism,* Editura "Ştefan Procopiu", Iaşi, ISBN 973-95852-3-X, 270 pag, 1999.

25. Constantin Cotae, Maricel Agop, **Brînduşa Ciobanu**, *Fizică- Mecanică şi termodinamică clasică,* Editura "Ştefan Procopiu", Iaşi, ISBN 973-95852-3-X, 357 pag, 1999.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local:

1. Iulia Brînduşa Ciobanu, Gabriela Apreotesei, *Fizică generală. Noţiuni teoretice şi aplicaţii*, 398 pag., 2018.
2. Gabriela Apreotesei**, Iulia Brînduşa Ciobanu***, Elemente de fizică generală,* 356 pag., 2017
3. B. Ciobanu- coautor, *Teste de Fizică, I Mecanică,* coordonatori Sofia Melinte, Alexandrina Jeflea, Vasile Manta, Catedra de Fizică, Tipografia Universităţii Tehnice „Gh. Asachi" Iaşi- Rotaprint, 164 pag., 2002.
4. B. Ciobanu- coautor, *Probleme tip pentru testul grilă, Fizică, Admitere 2002*, Tipografia Universităţii Tehnice „Gh. Asachi" Iaşi- Rotaprint, 102 pag., 2002.
5. B. Ciobanu- coautor, *Mecanică. Fenomene termice. Fenomene electrice şi magnetice- Teste de Fizică pentru admitere la Facultatea de Automatică şi Calculatoare*, Gheorghe Zet, Vasile Manta, Nicoleta Carpinschi- coordonatori, Editura „ Gh. Asachi", Universitatea Tehnică Iaşi, ISBN 973-8050-85-5, 162 pag, 2001.
6. C. Cotae, M. Agop, **B. Ciobanu**, *Fizică generală- Curs pentru ingineri,*Vol. I, Tipografia Universităţii Tehnice „Gh. Asachi" Iaşi- Rotaprint, 356 pag., 1999.
7. B. Ciobanu, C. Cotae, M. Agop, *Fizică generală- Curs pentru ingineri,*Vol. II, Tipografia Universităţii Tehnice „Gh. Asachi" Iaşi- Rotaprint, 274 pag., 1999.
8. B. Ciobanu- coautor, *Teste de Fizică, I Mecanică,* coordonatori Sofia Melinte, Alexandrina Jeflea, Vasile Manta, Catedra de Fizică, Tipografia Universităţii Tehnice „Gh. Asachi" Iaşi- Rotaprint, 177 pag., 1999.
9. B. Ciobanu- coautor, *Teste de Fizică, II Fenomene termice,* coordonatori Constantin Cotae, Rodica Neagu, Dorin Condurache, Catedra de Fizică, Tipografia Universităţii Tehnice „Gh. Asachi" Iaşi- Rotaprint, 204 pag., 1999.
10. B. Ciobanu- coautor, *Teste de Fizică, III Electricitate pentru concursul de admitere la Universitatea Tehnică „Gh. Asachi" Iaşi,* coordonatori Gheorghe Zet, Georgeta Strat, Sergiu Istrate, Catedra de Fizică, Tipografia Universităţii Tehnice „Gh. Asachi" Iaşi- Rotaprint, 204 pag., 1999.
11. B. Ciobanu- coordonator şi coautor, *Teste de Fizică, II Fenomene termice,* coordonatori Ghiorghe Călugăru, Rodica Neagu, Brînduşa Ciobanu, Petru Nica, Catedra de Fizică, Tipografia Universităţii Tehnice „Gh. Asachi" Iaşi- Rotaprint, 196 pag., 1999.
12. B. Ciobanu- coautor, *Fizică clasică, Lucrări de laborator*, Tipografia Universităţii Tehnice "Gh. Asachi" Iaşi- Rotaprint, 217 pag., 1998.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web:

1. Iulia Brînduşa Ciobanu, *Curs de Fizică, http://www.phys.tuiasi.ro* → Studenți → Facultatea de Automatică şi Calculatoare, reactualizat 2025.
2. Iulia Brînduşa Ciobanu, *Laboratoare, http://www.phys.tuiasi.ro* → Studenți → Facultatea de Automatică şi Calculatoare, reactualizat 2025.
3. Iulia Brînduşa Ciobanu, Rezolvări de probleme*,Teste, http://www.phys.tuiasi.ro* → Studenți → Facultatea de Automatică şi Calculatoare, reactualizat 2025.

4. Iulia Brîndușa Ciobanu, *Suport de studiu – Testare interactivă on-line în Macromedia Flash*, www.iulia-physics.ro , reactualizat 2025.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale

F.1. Lucrări ştiinţifice publicate în reviste cotate ISI

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I.3. Alte lucrări ştiinţifice publicate în volumele unor conferinţe internaţionale şi naţionale

I.3.1. Lucrări ştiinţifice publicate în volumele unor conferinţe internaţionale

1. I. Radinschi and **B. Ciobanu**, *Study of a Stringy Solution,* Conferința Științifică Internațională Strategii XXI, Editura Universităţii Naţionale de Apărare „ Carol I", Bucureşti, ISBN: (10) 973-7854-35-7, ISBN: (13) 973-973-7854-35-3, pp.55-60, 2006.

2. I. Radinschi and **B. Ciobanu**, *Energy of a Dilaton-Maxwell Gravity Solution,* Conferința Științifică Internațională Strategii XXI, Editura Universităţii Naţionale de Apărare „ Carol I", Bucureşti, ISBN: (10) 973-7854-35-7, ISBN: (13) 973-973-7854-35-3, pp.50-55, 2006.

3. B. Ciobanu, I. Radinschi, *One Computational Program for the Performance Prediction of Yarns,* Proceedings of International Symposium "Present and Perspectives in Textile Engineering"- PER TEX-2005, Editura Performantica, Iaşi, ISBN 2973-730-120-X, pp.563-569, 2005, http://www.tex.tuiasi.ro/pertex.html

4. L. Ciobanu and **B. Ciobanu**, *Reliability and Risk in the Low Voltage Electrical Installations*, Proceedings of Twelf International Scientific- Technical Conference „ Trans & MOTOAUTO' 05", 23-25 November 2005, Veliko, Bulgaria, ISBN 954-9322, 2005.

5. B. Ciobanu, I. Radinschi, *Implementation of some physics tools,* Proceedings of International Symposium"Present and Perspectives in Textile Engineering"- PER TEX-2005, November 10-12, 2005, Iaşi, Editura Performantica, Iaşi, ISBN 2973-730-120-X, pp. 607-611, 2005, http://www.tex.tuiasi.ro/pertex.html

6. I. Radinschi and **B. Ciobanu**, *Study of Gravitational Field of a Charged Regular (ABG) Black Hole*, Proceedings of International Conference Universitaria Simpro 2005, Editura Universitas Petroşani, October 14-15, 2005, Petroşani, România, pp. 118-120, 2005, http://www.agir.ro/univers-ingineresc/manifestari_tehnico-stiintifece_1055.html

7. I. Radinschi and **B. Ciobanu**, *Einstein Energy-momentum Complex and Localization of Energy*, Proceedings of International Conference Universitaria Simpro 2005, Editura Universitas Petroşani, October 14-15, 2005, Petroşani, România, pp. 121-124, 2005, http://www.agir.ro/univers-ingineresc/manifestari_tehnico-stiintifece_1055.html
8. L. Ciobanu, **B. Ciobanu**, *Robot paralel acţionat cu motoare pas cu pas*, Volumul Primei Conferinţe Internaţionale de Sisteme Electromecanice- SIELMEC' 97, Chişinău, Republica Moldova, 16-18 octombrie, 1997, Editura Tehnică Chişinău, ISBN 9975-910-22-X, Vol. II, pp. 154- 159, 1997.
9. L. Ciobanu, **B. Ciobanu**, *Implicaţii ale alimentării motoarelor trifazate la reţeaua electrică monofazată*, Volumul Conferinţei Internaţionale pentru Construcţii şi Economia de Energie, Ediţia a-V-a, Vol.I, pp.257-262, 1995.
10. L. Ciobanu, **B. Ciobanu**, *Studiu comparativ asupra montajelor cu lămpi fluorescente*, Volumul Conferinţei Internaţionale pentru Construcţii şi Economia de Energie, Ediţia a-V-a, Vol.I, pp.247-250, 1995.
11. L. Ciobanu, **B. Ciobanu**, *Unele probleme privind fiabilitatea şi mentenanţa instalaţiilor de joasă tensiune*, Volumul Conferinţei Internaţionale pentru Construcţii şi Economia de Energie, Ediţia a-V-a, Vol.I, pp.251-256, 1995.

I.3.2. Lucrări ştiinţifice publicate în volumele unor conferinţe naţionale

1. B. Ciobanu, C. Ciubotariu, I. Radinschi, M. C. Babiuc(-Hamilton), *The electromagnetic field in a rotating universe*, Proceedings of SSAE - Present and Perspective, First Section, Editura „Ion Ionescu de la Brad", Iaşi, România, ISSN 1454-7414, pp. 160-165, Vol. 48, 2005.
2. I. Radinschi and **B. Ciobanu**, *The Gravitational Field in a Dyadosphere of a Charged Black Hole*, Creativitatea în Ştiinţă şi Tehnică, Bucureşti, Editura Universităţii Naţionale de Apărare „Carol I", Bucureşti, ISBN: 973-663-165-6, pp. 5-9, 2005.
3. B. Ciobanu and M. Agop, *Some aspects of the generalized superconductivity*, Proceedings of SSAE - Present and Perspective, First Section, Editura „Ion Ionescu de la Brad", Iaşi, România, ISSN 1454-7414, Vol. 48, 2005.
4. C. Neacşu, C. Ciubotariu, I. Radinschi, **B. Ciobanu**, *The relativistic plasma in a Gödel universe (rotational)*, presented by **B. Ciobanu**, The IV-th Conferences on Theoretical Physics, General Relativity and Gravitation, held May 1994, Bistriţa, published in Proceedings of the IV-th and V-th Conferences on Theoretical Physics, General Relativity and Gravitation, held May 1994 and 1995, Bistriţa, Vol. 4-5, pp. 31-40, Ed. by Romanian Society on General Relativity and Gravitation, Iaşi, România, 1995.

J. Invenţii.

K. Contracte de cercetare/granturi

1. PN-II, Program IDEI, *Modele clasice şi cuantice pentru câmpurile gauge*, Cod CNCSIS: ID-620, Contract nr.2/28.IX.2007, 2007-2010, Gheorghe Zet- director program, **Iulia Brînduşa Ciobanu**- membru, valoare totala 600000 RON.

2. 5/11.09.2007, PN II, *Sistem performant de procesare şi stocare a datelor în GRID pentru experimentele ATLAS-CERN şi H1-DESY*, 2007- 2009, Irina Radinschi- responsabil partener UTI, **Iulia Brînduşa Ciobanu**- membru, valoare totală 140000.
3. *Investigarea proprietăţilor fundamentale ale radionuclizilor de viaţă scurtă prin studii de dezintegrare şi în fascicul- RSHE*, CEX-D10-08/03.10.2005, 2005-2008, **Iulia Brînduşa Ciobanu - responsabil proiect, partener UTI**, valoare totală 70000 RON.
4. *Sistem de comunicare cu persoane cu handicap neuro-locomotor major -TELPROT*, 69 CEEX-II, 31.07.2006-15.08.2008, Vlad Cehan- director program, **Iulia Brînduşa Ciobanu** - membru, valoare totală 1360000 RON.
5. Grant CNCSIS tip A, GR 80/23.05.2007, Tema 45, *Modelarea unor soluţii de tip gaură neagră din cadrul teoriei de string*, Cod CNCSIS 122, Etapa 2, *Modelarea proprietatilor energetice ale unor gauri negre de tip string*, Irina Radinschi- director de grant, **Iulia Brînduşa Ciobanu**- membru, 8000 RON.
6. Grant CNCSIS tip A, GR. 63/19.05.2006, Tema 23, *Modelarea unor soluţii de tip gaură neagră din cadrul teoriei de string*, Cod CNCSIS 122, Etapa 1 *Energia unor soluţii de tip string în cadrul formalismelor lui Møller, Einstein, Landau şi Lifshitz, Papapetrou şi Weinberg (ELLPW)*, I. Radinschi- director de grant, **Iulia Brînduşa Ciobanu**- membru, 8000 RON.
7. International Program JINR (Joint Institute for Nuclear Research)-IFIN-HH, *Ţiţeica – Markov in the field of Theoretical Physics*, 2003-2009, JINR coordinator- Victor V. Voronin (Deputy Director of the Bogoliubov Laboratory of Theoretical Physics, Dubna-Moscow Region), IFIN-HH coordinator Sabin Stoica (Theoretical Physics Department), Cod înregistrare 0034-05/258, 2004, Activităţi/ rezultate: stagii de lucru şi colaborări în cadrul temelor 01-3-1029-1999/2008 (Nuclear Theory),
http://www.nipne.ro/international/cooperation/jinr.php
8. Grant CNCSIS tip A, Tema 73, Cod CNCSIS: 341, Etapa 3/2004 Tema: *Programe de calcul analitic pentru studiul modelelor autoduale*, Gheorghe Zet- director de grant, **Iulia Brînduşa Ciobanu**- membru, 7000 RON.
9. Grant CNCSIS tip A, Tema 41, Cod CNCSIS: 341, Etapa 2/2003 Tema: *Teorii gauge auto-duale pentru gravitatie*, Gheorghe Zet- director de grant, **Iulia Brînduşa Ciobanu**- membru, 5130 RON.
10. Contract ad. 157/17.02.1999/ Beneficiar MCT, Alexandrina Jeflea- responsabil, **Iulia Brînduşa Ciobanu**- membru, valoare 21mil lei, Faze: *Despre aderenţa filmelor metalice la substratul polimeric, Evaluarea gradului de fixare a stratului subţire pe suportul polimeric. Experimentări.*
11. Contract ad. 974/13.08.1998/II, Alexandrina Jeflea- responsabil **Iulia Brînduşa Ciobanu-** membru, valoare 9,5 mil.lei, Tema A-1 : *Fenomene de transport în straturi subţiri de conducţii diferite (realizarea straturilor, aderenţa la substrat, modele de conducţie, aplicaţii). Metode de obţinere a straturilor subţiri din metale nobile şi analiza straturilor realizate. Efectul stării de cristalinitate a substratului polimeric asupra calităţii filmului metalic depus.*
12. Contract nr: 390/1997. Beneficiar MCT, *Obţinerea straturilor subţiri din materiale semiconductoare, termoelectrice, utilizate în conversia directă a surselor neconvenţionale şi alte aplicaţii ale efectelor termoelectrice*, Alexandrina Jeflea- responsabil, **Iulia Brînduşa Ciobanu** – membru, Faza A.1: *Tratarea teoretică a fluxurilor de energie în module semiconductoare termoelectrice în straturi subţiri- studiu.*

13. Grant CNCSIS, Cod CNCSIS 582/1997, *Teorii relativiste si gauge ale corpurilor cuantice macroscopice* Etapa 2/1997: *Supraconductori şi suprafluide în câmp gravitomagnetic*, Corneliu Ciubotariu- director contract, **Iulia Brînduşa Ciobanu**- membru.
14. Contractul de cercetare, nr.625/96, Cod program 4.2.5, beneficiar MCT, *Obţinerea straturilor subţiri din materiale semiconductoare termoelectrice utilizate în conversia directă a surselor neconvenţionale şi alte aplicaţii ale efectelor termoelectrice*, Faza A.2. Măsurători specifice în laborator pe dispozitive proprii pentru straturile subţiri, valoare 10 mil lei, Alexandrina Jeflea- responsabil contract, **Iulia Brînduşa Ciobanu**- membru.
15. Grant CNCSIS, Cod CNCSIS 510/1996, *Teorii relativiste si gauge ale corpurilor cuantice macroscopice*, Corneliu Ciubotariu- director contract, **Iulia Brînduşa Ciobanu**- membru.
16. Contractul de cercetare, nr.906 B/1995, cod program 4.2.5, beneficiar MCT, *Obţinerea straturilor subţiri din materiale semiconductoare termoelectrice utilizate în conversia directă a surselor neconvenţionale şi alte aplicaţii ale efectelor termoelectrice*, valoare 4 mil lei, Alexandrina Jeflea- responsabil contract, **Iulia Brînduşa Ciobanu**- membru, Faza 1.1. *Studiul efectelor termoelectrice în straturi subţiri semiconductoare. Metode de obţinere*.

L. Premii, distincţii

Premierea rezultatelor cercetarii. Premii CNCSIS 2008 (http://www.cncsis.ro/premii_2008)
1. Cod CNCSIS 110, pentru articolul- **Brînduşa Ciobanu**, Irina Radinschi, *Modeling the Energy Distributions of a Dilaton-Maxwell Gravity Solution*, Romanian Journal of Physics, Vol. 53, Nos. 1-2. pp. 29-34, 2008.
2. Cod CNCSIS 111, pentru articolul- **Brînduşa Ciobanu**, Irina Radinschi, *Modeling the Electric and Magnetic Fields in a Rotating Universe,* Romanian Journal of Physics, Vol. 53, Nos. 1-2. pp. 405-415, 2008.

M. Alte realizări semnificative

Număr de citări: 62 ISI, 132 în total.

Membru în organizaţii profesionale:

- Societatea Română de Gravitaţie şi Relativitate Generală;
- Societatea Română de Fizică;
- European Society of Physics
- Balkan Society of Geometers;
- Who is Who World Society;
- membru fondator Alumni – Facultatea Construcţii de Maşini şi Management Industrial, Universitatea Tehnică „Gh. Asachi" din Iaşi.

Organizator de manifestări ştiinţifice:

- membru în comitetul de organizare al *Conferinţei Naţionale de Fizică Aplicată*, 2008, 2010, 2014, 2016, Departamentul de Fizică, Universitatea Tehnică „Gh. Asachi" din Iaşi;
- organizator principal şi membru în comitetul de organizare al *Conferinţei Internaţionale "Design, Technology and Management in Manufacturing",* 2010, Facultatea de Construcţii de Maşini şi Management Industrial, Universitatea Tehnică „Gh. Asachi" din Iaşi.

Activități în cadrul comunității academice

- îndrumător de an, seria Automatică Informatică Aplicată şi Sisteme Inteligente (Automatică şi Informatică Aplicată, Ingineria Sistemelor), studii de licenţă, anul I, Facultatea de Automatică şi Calculatoare din 2010 până în prezent;
- membru al Consiliului Facultăţii de Automatică şi Calculatoare, Universitatea Tehnică „Gh. Asachi", Iaşi 2008-2018, 2024 până în prezent;
- responsabil de laborator destinat studenților Facultății de Automatică şi Calculatoare din 2005 până în prezent;
- participare la *Tabăra de vară DevelopMe*, organizată de Liga studenţilor Facultăţii de Automatică şi Calculatoare, ediţiile 2022, 2023, 2024, 2025, în scopul promovării imaginii Facultăţii de Automatică şi Calculatoare;
- membru al Biroului Departamentului de Fizică al Universităţii Tehnice „Gh. Asachi" din Iaşi, 2007-2018;
- lider de sindicat al Departamentului de Fizică, din 2013 până în prezent;
- participare în calitate de expert în educaţie, la *Proiectul FIZTUIASI, Ateliere de fizică experimentală pentru elevi*, 1.03-25.10.2025, în scopul promovării imaginii Facultăţii de Automatică şi Calculatoare şi a învăţământului tehnic superior ieşean, în general;
- membru în Comisia de evaluare a Sesiunii de cercuri ştiinţifice studenţeşti din cadrul Departamentului de Fizică (2023, 2024, 2025);
- 57 de participări la workshopuri, la nivel naţional şi internaţional;
- membru în 7 comisii de concurs pe posturi didactice din învăţământul superior.

Data: 25.09.2025 Conf. dr. fiz. Ciobanu Iulia Brîndușa

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

TITULAR disciplină/ Numele și prenumele: **prof. dr. chim. Margareta Gabriela CIOBANU**

A. Teza de doctorat:

A1) Titlul tezei: "*Zeoliţi cristalini microporoşi de tip SAPO-n; caracterizare structural - adsorbtivă şi reactivitate*"
Domeniul: **CHIMIE**
Conducător de doctorat: Prof. dr. Nicolae Bâlbă
Universitatea: Universitatea „Al.I. Cuza", Iaşi, România
Data susţinerii publice a tezei de doctorat: 16 Iulie 1999, Universitatea „Al.I. Cuza", Iaşi, România
Titlul: **Doctor** în **Chimie** din 2000, în baza ordinului Ministrului Educaţiei Naţionale 3337/din 08.03.2000, Diploma seria A, nr. 0002766/din 26.01.2001

A. Teză de abilitare:

A2) Titlul tezei: „*Materiale micro- şi nanostructurate cu aplicaţii în medicină şi protecţia mediului"*
Domeniul: **CHIMIE**
Data susţinerii publice a tezei de abilitare: 27 Noiembrie 2020, Universitatea Tehnică „Gheorghe Asachi" din Iaşi, România
Titlul: **Conducător de Doctorat în domeniul Chimie**
Atestat de abilitare în baza ordinului Ministrului Educaţiei Naţionale nr. 3422/din 03.03.2021

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate:

B1) Angelova, M., Pastarmadzhieva, D. (edit.), **Gabriela Ciobanu** et al., *Survey on Entrepreneurial Culture and Attitudes Across Students*, Plovdiv University Press, eISBN 978-619-7768-26-8, 2024

B2) Maria Harja, **Margareta Gabriela Ciobanu**; *Eco-friendly Nano-adsorbents for Pollutant Removal from Wastewaters*, in *Handbook of Nanomaterials and Nanocomposites for Energy and Environmental Applications*, Editors: Kharissova Oxana Vasilievna, Torres-Martinez Leticia Myriam, Kharisov Boris Ildusovich (Eds.), Springer, ISBN: 978-3-030-11155-7, pp. 1-22, 2020

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS:

C1) Margareta Gabriela Ciobanu, *Analiza senzorială*, Ed. Performantica, Iaşi, ISBN 978-606-685-792-5, 500 pag. (format A4), 2021

C2) Margareta Gabriela Ciobanu, *Chimie - lucrări practice de laborator*, Ed. Performantica, Iaşi, ISBN 978-606-685-807-6, 200 pag. (format A4), 2021

C3) Margareta Gabriela Ciobanu, *Materiale micro- şi nanostructurate cu aplicaţii în medicină şi protecţia mediului*, Ed. Performantica, Iaşi, ISBN 978-606-685-799-4, 285 pag. (format A4), 2021

C4) Margareta Gabriela Ciobanu, *Chimie Generală*, Ed. Performantica, Iaşi, ISBN 978-606-685-745-1, 952 pg. (format A4), 2020
C5) Margareta Gabriela Ciobanu, *Chimie Generală*, Vol. 3 (curs), Ed. Performantica, Iaşi, ISBN 978-973-730-699-9, 463 pg. (format A4), 2016
C6) Margareta Gabriela Ciobanu, *Chimie Generală*, Vol. 2 (curs), Ed. Performantica, Iaşi, ISBN 978-606-685-402-3, 406 pg. (format A4), 2016
C7) Margareta Gabriela Ciobanu, *Chimie Generală*, Vol. 1 (curs), Ed. Performantica, Iaşi, ISBN 978-973-730-702-6, 323 pg. (format A4), 2010
C8) Margareta Gabriela Ciobanu, Gabriela Carja, *Biomateriale anorganice - Fundamente şi aplicaţii*, Ed. Performantica, Iaşi, ISBN 978-973-730-746-0, 230 pg. (format academic), 2010
C9) Margareta Gabriela Ciobanu, *Chimie – Manual de lucrări practice*, Ed. Performantica, Iaşi, ISBN 978-973-730-592-3, 176 pg. (format A4), 2009
C10) Margareta Gabriela Ciobanu, Laurenţiu Dan Ghenghea, Gabriela Cârjă, Maria Harja, *Materiale avansate – Zeoliţi cristalini microporoşi de tip SAPO – n*, Ed. Cermi, Iaşi, ISBN(19) 973-667-237-9, ISBN(13) 978-973-667-237-8, 216 pg. (format academic), 2006
C11) Margareta Gabriela Ciobanu, Constantin Luca, Ştefan Marcel Ciocîlteu, *Tehnici de analiză a materialelor - Metode chimice* (curs), Ed. Performantica, Iaşi, ISBN 973-730-001-7, 208 pg. (format academic), 2004
C12) Margareta Gabriela Ciobanu, Gabriel Dan Suditu, *Tehnici de analiză a materialelor - Metode chimice* (lucrări de laborator), Ed. Performantica, Iaşi, ISBN 973-7994-61-2, 138 pg. (format A4), 2004
C13) Maria Harja, **Margareta Gabriela Ciobanu**, *Materiale compozite anorganice*, Ed. Matrix Rom, Bucureşti, ISBN 973-685-701-8, 194 pg. (format academic), 2004
C14) Ciobanu Margareta Gabriela, *Chimie - Manual de lucrări practice* (pentru studenţii Facultăţii de Electrotehnică, secţia Energetică), Ed. Eurocart, Iaşi, ISBN 973-98637-4-4, 146 pg. (format A4; echivalent format academic = 194 pg.), 2002
C15) Margareta Gabriela Ciobanu, *Chimie* (curs), Ed. Panfilius, Iaşi, ISBN 973-85195-3-5, 223 pg. (format academic), 2001

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local: -

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web:

E1) Ciobanu Margareta Gabriela - Chimie – note de curs (409 pg.) - Suport informativ on-line: http://www.ch.tuiasi.ro/cv/ioba/ciobanugabriela/
E2) Ciobanu Margareta Gabriela - Chimie – lucrări practice (93 pg.) - Suport informativ on-line: http://www.ch.tuiasi.ro/cv/ioba/ciobanugabriela/
E3) Ciobanu Margareta Gabriela - Materiale biocompatibile – note de curs (100 pg.) - Suport informativ on-line: http://www.ch.tuiasi.ro/cv/ioba/ciobanugabriela/
E4) Ciobanu Margareta Gabriela, Structura atomului şi legături chimice – curs, laborator şi exerciţii (86 pg.) - Suport informativ on-line: http://posdru62485.discipline.upb.ro
E5) Ciobanu Margareta Gabriela, Compuşi chimici de importanţă tehnică – curs, laborator şi exerciţii (127 pg.) - Suport informativ on-line: http://posdru62485.discipline.upb.ro
E6) Ciobanu Margareta Gabriela, Apa în natură şi elemente de chimia mediului – curs, laborator şi exerciţii (55 pg.) - Suport informativ on-line: http://posdru62485.discipline.upb.ro

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale:

Lucrări ştiinţifice publicate în reviste cotate ISI
F1) Maria Harja, Mihaela Caftanachi, Mihaela Fanache (Vasiliu), **Gabriela Ciobanu**, *Fly ash waste for obtaining building materials with improved durability*, Scientific Study & Research - Chemistry & Chemical Engineering, Biotechnology, Food Industry (Studii şi Cercetări Ştiinţifice - Chimie şi Inginerie Chimică, Biotehnologii, Industrie Alimentară), 24 (1), pp. 049 – 060, 2023 ISI-IF: 0.300 (2023)
F2) Catalina Nutescu Duduman, Consuelo Gómez de Castro, Gabriela Antoaneta Apostolescu, **Gabriela Ciobanu,** Doina Lutic, Lidia Favier, Maria Harja, *Enhancing the TiO2-Ag Photocatalytic Efficiency by Acetone in the Dye Removal from Wastewater*, Water, Volume 14, Issue 17, Article Number 2711, 2022 ISI-IF: 3.000 (2023)
F3) Maria Harja, Carmen Teodosiu, Dorina Nicolina Isopescu, Osman Gencel, Doina Lutic, **Gabriela Ciobanu**, Igor Cretescu, *Using fly ash wastes for the development of new building materials with improved compressive strength*, Materials, 15 (2), article no. 644, 15 pagini (1-15), 2022 ISI-IF: 3.100 (2023)
F4) Mădălina Simona Bălţatu, Andrei Victor Sandu, Marcin Nabialek, Petrică Vizureanu, **Gabriela Ciobanu**, *Biomimetic deposition of hydroxyapatite layer on titanium alloys*, Micromachines, 12 (12), article number 1447, 12 pag., 2021 ISI-IF: 3.000 (2023)
F5) Harja Maria, Tataru-Farmus Ramona, Hultuana Droniuc Elisabeta, Gomez de Castro Consuelo, **Ciobanu Gabriela**, Lazar Liliana, *Influence of ethylenediamine content over performance of CO_2 absorption into potassium carbonate solutions*, Environmental Engineering and Management Journal, 20 (4), 507-516, 2021 ISI-IF: 0.900 (2023)
F6) Ivaniciuc Liliana, Sutiman Daniel, Ciocinta Ramona Carla, Favier Lidia, Sendrea Georgiana, **Ciobanu Gabriela,** Harja Maria, *Advanced recovery of calcium carbonate waste as a filler in waterborne paint*, Environmental Engineering and Management Journal, 20 (4), 569-577, 2021 ISI-IF: 0.900 (2023)
F7) Gabriela Buema, Gabriela Lisa, Olga Kotova, **Gabriela Ciobanu**, Liliana Ivaniciuc, Lidia Favier, Maria Harja, *Application of thermal analysis to improve the preparation conditions of zeolitic materials from flying ash*, Environmental Engineering and Management Journal, 20 (3), 377-388, 2021 ISI-IF: 0.900 (2023)
F8) Gabriela Buema, Nicoleta Lupu, Horia Chiriac, **Gabriela Ciobanu**, Roxana-Dana Bucur, Daniel Bucur, Lidia Favier, Maria Harja, *Performance assessment of five adsorbents based on fly ash for removal of cadmium ions*, Journal of Molecular Liquids, 333, Article no. 115932, 15 pag (1-15), 2021 ISI-IF: 5.300 (2023)
F9) Gabriela Buema, Maria Harja, Nicoleta Lupu, Horia Chiriac, Loredana Forminte, **Gabriela Ciobanu**, Daniel Bucur, Roxana Dana Bucur, *Adsorption performance of modified fly ash for copper ions removal from aqueous solution*, Water, 13 (2), Article Number: 207, 17 pagini (1-17), 2021 ISI-IF: 3.000 (2023)
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I14) Gabriela Ciobanu, Carja G., Apostolescu G., Apostolescu N., *The physicochemical properties of polyurethane membranes determined by swelling measurements*, Proceedings of SPIE - Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IV, Volume 7297, article 72970I, pp. 1-4, 2009 Proceedings ISI – doi: doi:10.1117/12.823628
I15) Carja G., **Gabriela Ciobanu**, Apostolescu G., Dranca S., *Hydrotalcite-like anionic clays substituted with iron / laccase, composites for biosensors applications*, Proceedings of SPIE - Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IV, Volume 7297, article 72970G, pp. 1-6, 2009 Proceedings ISI – doi: doi:10.1117/12.823626

Articole publicate în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)
I16) Carja G., Apostolescu N., **Gabriela Ciobanu**, Negut V., *Laccase - LDHs anionic clays substituted with iron as new biocomposites: Studies of their degradation as a function of temperature*, A Global Road Map for Ceramic Materials and Technologies: Forecasting the Future of Ceramics, International Ceramic Federation - 2nd International Congress on Ceramics, ICC 2008; Verona, Italy, 29 June - 4 July 2008. - Volum Proceedings: articol Code 94842, ISBN: 978-888080084-2; Publisher: Institute of Science and Technology for Ceramics, NRC Italy, pp. 1-6, 2008. Baza de date: SCOPUS

Articole publicate în volumul unei manifestări ştiinţifice neindexate în baze de date
I17) Istrati L., Harja M., Rusu N., Gavrilă L., **Gabriela Ciobanu,** *Environmental study regarding pollution in oil extraction areas, Bacau district, Romania. II. Pollution of the surface waters*; 9th International Research / Expert Conference "Trends in the Development of Machinery and Associated Technology", TMT 2005, Antalya, Turkey, 26 - 30 September 2005 - Volum Proceedings (pe CD), ISBN: 9958-617-21-8, pp. 1431 – 1434, 2005
I18) Ghenghea L.D., **Gabriela Ciobanu**, Beiu B., *Liquid state welding processes used for materials manufacturing*; A XIII – a Conferinţă Ştiinţifică cu participare Internaţională "TEHNOMUS XIII – Tehnologii şi Produse Noi în Construcţia de Maşini", Ediţia a XIII-a, 6 – 7 mai 2005, Universitatea "Ştefan cel Mare" Suceava - Volum Proceedings, Editura Universităţii Suceava, ISBN 973-666-154-7, pp. 311-314, 2005
I19) Ghenghea L.D., Muscă G., **Gabriela Ciobanu**, Beiu B., *Heat measurement in fusion welding processes*; A XIII – a Conferinţă Ştiinţifică cu participare Internaţională "TEHNOMUS XIII – Tehnologii şi Produse Noi în Construcţia de Maşini", Ediţia a XIII-a, 6 – 7 mai 2005, Universitatea "Ştefan cel Mare" Suceava

- Volum Proceedings, Editura Universităţii Suceava, ISBN 973-666-154-7, pp. 315-318, 2005
I20) Cârjă G., Irimia M., **Gabriela Ciobanu**, Mareci D., *Tailoring the nanoparticles of iron containing anionic clays through the coprecipitation synthesis method*; International Conference on Material Science and Engineering – BRAMAT 2005, 24-26 februarie 2005, Braşov - Volum Proceedings, ISBN: 973-635-454-7 (pe CD)
I21) Gabriela Ciobanu, Istrati L., Harja M., Cârjă G., Ciobanu O., *Preparation et caracteristique des membranes pour l'epuration des eaux*; "Actes du seminaire d'animation regionale SAR-2004, Maitrise et gestion de la qualite dans l'industrie alimentaire", 12-14 mai 2004, Universite Technique de Moldavie, Chişinău - Volum Proceedings, Editura Tehnica-Info Chişinău, ISBN 9975-63-233-5, pp. 220 – 223, 2004
I22) Harja M., Istrati L., **Gabriela Ciobanu**, *Considerations sur les emissions de dioxide de soufre,* "Actes du seminaire d'animation regionale SAR-2004, Maitrise et gestion de la qualite dans l'industrie alimentaire"; 12-14 mai 2004, Universite Technique de Moldavie, Chişinău - Volum Proceedings, Editura Tehnica-Info Chişinău, ISBN 9975-63-233-5, pp. 224-227, 2004
I23) Istrati L., Dabija A., Harja M., **Gabriela Ciobanu**, *Recherches concernant l'influence de SO_2 sur la qualite du vin rouge*; "Actes du seminaire d'animation regionale SAR-2004, Maitrise et gestion de la qualite dans l'industrie alimentaire", 12-14 mai 2004, Universite Technique de Moldavie, Chişinău - Volum Proceedings, Editura Tehnica-Info Chişinău, ISBN 9975-63-233-5, pp. 112-116, 2004
I24) Istrati L., Harja M., Dabija A., **Gabriela Ciobanu**, Ciocan M., *Implementation du systeme HACCP dans la chaine de fabrication des conserves composites*; "Actes du seminaire d'animation regionale SAR-2004, Maitrise et gestion de la qualite dans l'industrie alimentaire", 12-14 mai 2004, Universite Technique de Moldavie, Chişinău - Volum Proceedings, Editura Tehnica-Info Chişinău, ISBN 9975-63-233-5, pp. 25-29, 2004
I25) Gabriela Ciobanu, Harja M., Istrati L., Carja G., Ciobanu O., *Procedes membranaires pour traitement de l'eau*; Actes du troisieme Colloque Franco - Roumain de Chimie Appliquee COFrRoCA - 2004, 22-26 septembrie 2004, Slănic Moldova, Bacău - Volum Proceedings, ISBN 973-8392-36-5, pp. 403-406, 2004
I26) Gabriela Ciobanu, Ciobanu O., Sandu I., Pascu C., Sandu I.G., *Un nouveau type de generateur d'aerosol salin*; Actes du troisieme Colloque Franco - Roumain de Chimie Appliquee COFrRoCA - 2004, 22-26 septembrie 2004, Slănic Moldova, Bacău - Volum Proceedings, ISBN 973-8392-36-5, pp. 601 – 604, 2004
I27) Istrati L., Harja M., **Gabriela Ciobanu**, Gavrila L., *Obtention du carbonate de calcium d'usage pharmaceutique et cosmetique*; Actes du troisieme Colloque Franco - Roumain de Chimie Appliquee COFrRoCA - 2004, 22-26 sept. 2004, Slănic Moldova, Bacău - Volum Proceedings, ISBN 973-8392-36-5, pp. 559-561, 2004
I28) Harja M., Harja C.,. Istrati L, **Gabriela Ciobanu**, *Reduction du contenu en bioxyde de soufre a l'aide des suspensions de carbonate de calcium*; Actes du troisieme Colloque Franco - Roumain de Chimie Appliquee COFrRoCA - 2004, 22-26 septembrie 2004, Slănic Moldova, Bacău - Volum Proceedings, ISBN 973-8392-36-5, pp. 557-558, 2004
I29) Istrati L., **Gabriela Ciobanu**, Balasanian I., Harja M., Ciocan M., Gavrila L., *Valorisation du catalyseur Zn-Cr utilise pour la dehydrogenation du cyclohexanole a cyclohexanone*; Actes du troisieme Colloque Franco - Roumain de Chimie Appliquee COFrRoCA - 2004, 22-26 septembrie 2004, Slănic Moldova, Bacău - Volum Proceedings, ISBN 973-8392-36-5, pp. 420-423, 2004
I30) Neculaiasa M.S., Rujoiu F., Hristian L., **Gabriela Ciobanu**, Nantu C., Ţura V., Melnig V., *Proprietăţile tensionale ale materialelor plastice*; A XXXIII-a Conferinţă Naţională "Fizica şi tehnologiile educaţionale moderne", 15 mai 2004, Iaşi - Revista Ştiinţifică "V. Adamachi" Iaşi, vol. XII, nr. 1-4, pp. 159-162, 2004
I31) Ciobanu O., **Gabriela Ciobanu**, Cantemir D., *Web-based database of engineering symbols*; International Workshop "New WEB technologies for collaborative design, learning and training", 13-14 noiembrie 2003, Torino, Italia - Volum Proceedings, Editura Politeka-Torino, ISBN 88-87380-42-2, pp. 1-5, 2003

I32) Melnig V., **Gabriela Ciobanu**, Ciobanu C., Apostu M.O., *Characterization of polyurethanic membrane – silver – sulphathiazole drug delivery system*; Sesiunea anuală de comunicări ştiinţifice a Facultăţii de Fizică, Universitatea de Vest, Timişoara, 29-30 noiembrie 2002 - Volum Proceedings, pp. 155-159, 2002
I33) Gabriela Ciobanu, Melnig V., Popa M.I., Apostu M.O., Ciobanu C., Balau L., Ciobanu O., *Membrane poliuretanice utilizate drept sisteme cu eliberare controlată de medicamente*; Simpozionul Naţional de Biomateriale, 13-14 decembrie 2002, Bucuresti - Volum Proceedings, ISBN 973-652-808-3, pp. 125-130, 2002
I34) Popa M.I., Balău L., Roşca C., Lisă G., **Gabriela Ciobanu**, Melnig V., Apostu M.O., *Polizaharide – principii bioactive: caracterizare fizico-chimică*; Simpozionul Naţional de Biomateriale, 13-14 decembrie 2002, Bucuresti - Volum de articole, ISBN 973-652-808-3, pp. 346-352, 2002
I35) Melnig V., Popa M.I., **Gabriela Ciobanu**, Balău L., Apostu M.O., Bucur L., *Chitosan membrane: preparation and structural characterization*; Sesiunea anuală de comunicări ştiinşifice – cu participare internaţională – a Facultăţii de Fizică, Universitatea de Vest, Timişoara, 29-30 noiembrie 2002 -Volum Proceedings, pp. 150-154, 2002
I36) Bâlbă N., **Gabriela Ciobanu**, *Synthesis and characterization of some silicoaluminophosphate with SAPO-5 structure*; 8 Deutsche Zeolith –Tagung, Berlin – Adlershof, R.F.G., 4 – 6 Martz 1996, - Volum Proceedings, pp. 1-3, 1996

J. Invenţii:

J1) Brevet RO 131431 /30.05.2018 **Margareta Gabriela Ciobanu**, Ana Maria Mateiuc, Constantin Luca, *Procedeu de obţinere a unor biomateriale nanostructurate de tip hidroxiapatită substituită cu bismut pentru aplicaţii medicale*.
J2) Brevet RO 126849 /30.08.2012 **Margareta Gabriela Ciobanu,** Gabriela Carja, *Procedeu de obţinere a unor biocompozite pe bază de acetat de celuloză şi argile anionice*
J3) Brevet RO 122232/27.02.2009 Pascu C., Sandu I., **Margareta Gabriela Ciobanu**, Sandu I.G., Vasile V., Ciobanu O., Sandu A.V., Pascu A., *Metodă şi dispozitiv pentru determinarea „in situ" a aerosolilor salini*

K. Contracte de cercetare:

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie **INTERNAŢIONALĂ**
K1) Erasmus+ Programme – Strategic Partnership Project, number: 2023-1-BG01-KA220-HED-000154889 - Titlu proiect: *Academic Entrepreneurship Roadmap (acronim: AcEntRoad)* - Coordonator proiect: Plovdivski Universitet Paisiy Hilendarski, Plovdiv, Bulgaria - Partener 3: Universitatea Tehnică "Gheorghe Asachi" din Iaşi (TUIasi) - **Director** proiect Partener 3 (TUIasi): **Ciobanu Margareta Gabriela** - Perioada: 2023 – 2025

K2) Erasmus+ Programme – Strategic Partnership Project, number: 2017-1-TR01-KA205-039752

- Titlu proiect: *Mobile youth peer mentoring application to facilitate distance mentoring guidance for youth with disabilities (MyPeerMentor)*
- Coordonator proiect: Gazi Üniversitesi, Ankara, Turcia
- Partener 6: Universitatea Tehnică "Gheorghe Asachi" din Iaşi (TUIasi)
- **Director** proiect Partener 6 (TUIasi): **Ciobanu Margareta Gabriela**
- Perioada: 2017 – 2019

K3) Leonardo Da Vinci Multilateral Project, number: 540170-LLP-1-2013-1-TR-LEONARDO-LMP

- Titlu proiect: *Launching of Sector Skills Alliance for Training & Apprenticeship of Health Care and Food Supplements Salespersons (H-CARE)*
- Coordonator proiect: ISTANBUL IL MILLI EGITIM MUDURLUGU - HAYAT BOYU OGRENME BOLUMU – Turcia
- Partener 3: Universitatea Tehnică "Gheorghe Asachi" din Iaşi (TUIasi)
- **Director** proiect Partener 3 (TUIasi): **Ciobanu Margareta Gabriela**
- Perioada: 2014 – 2016

K4) Grant tip Bourse de Perfectionnement - Bourses de mobilités francophones, no. CE/MC/280/09

- Université Montpellier II - Sciences et techniques du Languedoc Montpellier, France
- **Director** grant: **Ciobanu Margareta Gabriela**
- Perioada: 2010

K5) Proiect bilateral România - Africa de Sud, PNCDI II, „CAPACITATI" Modul III, Programe Internationale de Cercetare; nr. 80/19.08.2008

- Titlu proiect: *Materiale nanostructurate cu capacitate de adsorbtie ridicata pentru indepartarea si recuperarea metalelor grele din apele reziduale*
- Director proiect: Prof. Dr. Ing. Gabriela Carja (Facultatea de Inginerie Chimica şi Protecţia Mediului, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată: 3 ani (2008 – 2010)

K6) Program COLAPE GIRD-CT-2002-00747 / 2002 din Programul Cadru 5 (FP5) cu Comunitatea Europeană

- Titlu proiect: *Continous on-line atmospheric pressure plasma equipment based on dielectric barrier dischange technology for surface processing of various papers & textiles, fibers for composites and plastics*
- Director proiect: Conf. Dr. Marius Caraiman (Facultatea de Textile, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată: 3 ani (2002 – 2005)

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie
NAŢIONALĂ

K7) Contract POSDRU/86/1.2/S/62485, Proiect ID 62485

- Titlu contract: *Sistem de formare și evaluare centrat pe student, online, la discipline fundamentale de licență și masterat din învățământul superior tehnic*
- Parteneri: Universitatea POLITEHNICA din București, Universitatea Tehnică din Cluj-Napoca, Universitatea Tehnică "Gheorghe Asachi" din Iași, Universitatea din Craiova
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată: 3 ani (2010 – 2013)

K8) Contract POSDRU/87/1.3/S/ 61397, Proiect ID 61397
- Titlu contract: *Reţea Naţională de Formare CONtinuă a CadrelOR Didactice din Învăţământul Preuniversitar Profesional şi Tehnic – CONCORD*
- Parteneri: Universitatea POLITEHNICA din București, Universitatea "Politehnica" din Timişoara, Universitatea Tehnică "Gheorghe Asachi" din Iaşi, Universitatea Tehnică din Cluj-Napoca, Centrul Naţional de Dezvoltare a Învăţământului Profesional şi Tehnic
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată: 3 ani (2010 – 2013)

K9) Contract CNCSIS - IDEI nr. 608 / 2009
- Titlu contract: *Cercetari avansate privind efectul de memorie la nanostructuri de tip LDHS*
- **Director** proiect: **Ciobanu Margareta Gabriela**
- Durată: 3 ani (2009 – 2011)

K10) Grant al Academiei Române nr. 59 / 17.04.2008
- Titlu contract: *Materiale avansate poroase cu aplicabilitate în procese de separare şi în biomedicină*
- **Director** proiect: **Ciobanu Margareta Gabriela**
- Durată: 1 an (2008)

K11) Grant al Academiei Române nr. 62 / 04.09.2007
- Titlu contract: *Materiale avansate poroase cu aplicabilitate în procese de separare şi în biomedicină*
- **Director** proiect: **Ciobanu Margareta Gabriela**
- Durată: 1 an (2007)

K12) Contract PNCDI2 – Parteneriate, nr. 71-020 / 18.09.2007
- Titlu contract: *Ansamble nanostructurate cu organizare structurala controlata de tip LDH cu aplicatii in protectia mediului (NATOEPA)*
- Director proiect: Prof. Dr. Ing. Gabriela Carja (Facultatea de Inginerie Chimica şi Protecţia Mediului, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată: 3 ani (2007 – 2010)

K13) Contract PNCDI2 – Capacitati, nr. 134 CP / I / 14.09.2007
- Titlu contract: *Largirea competentelor Laboratorului de Caracterizari Fizico-Chimice prin cumulari de tehnici experimentale avansate utilizate in studiul aplicatiilor argilelor nanostructurate LDH (LaCaFiA)*
- Director: Prof. Dr. Ing. Gabriela Carja (Facultatea de Inginerie Chimica şi Protecţia Mediului, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 2 ani (2007 – 2009)

K14) Contract PNCDI2 – Parteneriate, nr. 71-094 / 18.09.2007
- Titlu contract: *Tehnologii de mare performanta pentru cresterea durabilitatii pieselor*
- Director: Prof. Dr. Dragos Paraschiv (Facultatea de Constructii de Masini, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 3 ani (2007 – 2010)

K15) Contract de tip CEEX, Modulul I, M1 – C2 – 1121 Nr. 69 / 2006
- Titlu contract: *Reţea de cercetare şi servicii pentru sinteza nanostructurilor cu aplicaţii în produse avansate din industria textilă, acoperiri protectoare şi protecţia mediului (SINAPS)*
- Director partener 5 TUIasi: Prof. Dr. Ing. Gabriela Carja (Facultatea de Inginerie Chimica şi Protecţia Mediului, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 2 ani (2006 – 2008)

K16) Contract de tip CEEX, Modulul I, Nr. 61 / 28.07.2006
- Titlu contract: *Biosenzori magnetici şi magneto – electrochimici bazaţi pe nanoparticule magnetice pentru detecţia rapidă de biomolecule (BIOSNANOMAG)*
- Director partener 3 TUIasi: Prof. Dr. Ing. Gabriela Carja (Facultatea de Inginerie Chimica şi Protecţia Mediului, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 2 ani (2006 – 2008)

K17) Grant A , Nr. 80 GR / 23.05.2007, Tema 9, cod CNCSIS 229
- Titlu contract: *Nanoargile anionice şi nanohibrizi derivaţi cu proprietăţi texturale modelabile (NANOMODEL)*
- Director contract: Prof. Dr. Ing. Gabriela Carja (Facultatea de Inginerie Chimica şi Protecţia Mediului, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 1 an (2007)

K18) Grant de tip A, Nr. 242 / 2006
- Titlu contract: *Cercetarea structurii materialelor de înaltă performanţă fabricate prin aliere cu nanoparticule*
- Director contract: Prof. Dr. Ing. Laurentiu Dan Ghenghea (Facultatea de Mecanică, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 1 an (2006)

K19) Grant CNCSIS, 63 GR / 19.05.2006, Tema 4, cod CNCSIS 229
- Titlu contract: *Nanoargile anionice şi nanohibrizi derivaţi cu proprietăţi texturale modelabile (NANOMODEL)*
- Director contract: Prof. Dr. Ing. Gabriela Carja (Facultatea de Inginerie Chimica şi Protecţia Mediului, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 1 an (2006)

K20) Contract CEEX, Modulul I, Nr. 926 / 06.10.2005
- Titlu contract: *Noi nanocompozite multifuncţionale pe bază de argile anionice mezoporoase cu aplicaţii (NANOAGMAM)*
- Director contract: Prof. Dr. Ing. Gabriela Carja (Facultatea de Inginerie Chimica şi Protecţia Mediului, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 3 ani (2005 – 2008)

K21) Contract CEEX, Modulul I, Nr. 918 / 06.10.2005
- Titlu contract: *Efecte de suprafaţă în materiale magnetice nanometrice (ESMMN)*
- Director contract: Prof. Dr. Ing. Gabriela Carja (Facultatea de Inginerie Chimica şi Protecţia Mediului, Universitatea Tehnică "Gheorghe Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 3 ani (2005 – 2008)

K22) Contract cu Ministerul Educaţiei şi Cercetării; Nr. 618 / 1.08.1996
- Titlu contract: *Solide cristaline microporoase de tip SAPO-n*
- Director grant: prof. dr. N. Bâlbă (Facultatea de Chimie Industrială, Universitatea Tehnică "Gh. Asachi" Iaşi)
- **Ciobanu Margareta Gabriela – membru** în echipa proiectului
- Durată contract: 1 an (1996)

K23) Contract cu Ministerul Educaţiei şi Cercetării, Nr. 6570 / 26.07.1991 - Titlu contract: *Chimie supramoleculară. Studiul structurii şi funcţiei naturii prin intermediul membranelor semipermeabile* - Director contract: prof. dr. M. Bezdadea (Facultatea de Chimie Industrială, Universitatea Tehnică "Gh. Asachi" Iaşi) - **Ciobanu Margareta Gabriela – membru** în echipa proiectului - Durată contract: 3 ani (1991 – 1994)
K24) Contract cu I.C.I.T.P.R., Ploieşti, Nr. 2700 / 3.04.1990 - Titlu contract: *Catalizatori de hidrocracare şi hidroizomerizare pe bază de SAPO-5 promotat cu metale hidrogenante* - Director contract: prof. dr. N. Bâlbă (Facultatea de Chimie Industrială, Universitatea Tehnică "Gh. Asachi" Iaşi) - **Ciobanu Margareta Gabriela – membru** în echipa proiectului - Durată contract: 1 an
K25) Contract cu C.C.F.Ch. Săvineşti (filiala C.F.S. Iaşi), Nr. 3782 / 4.04.1989 - Titlu contract: *Studiul comportării unor noi catalizatori zeolitici în domeniul polimerilor filabili* - Director contract: prof. dr. N. Bâlbă (Facultatea de Chimie Industrială, Universitatea Tehnică "Gh. Asachi" Iaşi) - **Ciobanu Margareta Gabriela – membru** în echipa proiectului - Durată contract: 1 an
K26) Contract cu I.E.C.B., Bucureşti, Nr. 1568 / 8.02.1989 - Titlu contract: *Sinteze de site moleculare MAPSO-n cu proprietăţi catalitice şi de sorbţie* - Director contract: prof. dr. N. Bâlbă (Facultatea de Chimie Industrială, Universitatea Tehnică "Gh. Asachi" Iaşi) - **Ciobanu Margareta Gabriela – membru** în echipa proiectului - Durată contract: 1 an

L. Premii, distincţii:
(selecţie)

- 1) Premiul "GENIUS – Budapest" obţinut la "The GENIUS EUROPE International Exhibition of Inventions", 3 mai 2004, Budapesta, Ungaria.
- 2) Medalia de bronz obţinută la "Salon international des inventions - Geneve 2004", 2004, Geneva, Elveţia.
- 3) Medalia de bronz obţinută la „Salonul de Invenţii şi Inovaţii", 15-16 sept. 2005, Sevastopol, Ukraina.
- 4) NN07 Young Researcher Award la „4th International Workshop on "Nanosciences & Nanotechnologies" (NN07), 16-18 iulie 2007, Thessaloniky, Grecia.
- 5) Medalia de aur la „Salonul de Invenţii ARHIMEDE – 2008", Moscova, Rusia.
- 6) Medalie de aur la "Al V-lea Salon International de Inventii Sevastopol – 2008", 25 – 27 sept. 2008, Sevastopol, Ukraina.
- 7) Medalie de argint la „A 59-a ediţie a Concursului internaţional Bruxelles – EUREKA", organizat în cadrul Salonului INNOVA, 18-20 noiembrie 2010, Bruxelles-Belgia.
- 8) Medalie de aur la Salonul Internaţional de Inventică PRO INVENT, ediţia a XII-a, 19 - 21 martie 2014, Cluj-Napoca, Romania.
- 9) Medalia AGEPI – Agenţia de Stat pentru Proprietatea Intelectuală, Republica Moldova la: Salonul Internaţional de Inventică PRO INVENT, ediţia a XII-a, 2014, Cluj-Napoca, Romania, 19 - 21 martie 2014

10) Medalie de aur la: European Exhibition of Creativity and Innovation – EUROINVENT, VIIth Edition; 14 - 16 May 2015, Iasi, Romania
11) Medalie de argint la: "Târgul Internațional de Invenții și Idei Practice INVENT - INVEST 2017″, Ediția a VIII-a, Ungheni, ROMÂNIA - MOLDOVA, 12 – 15 Noiembrie 2017, Ungheni, Republica MOLDOVA
12) Medalie de AUR la: Xth Edition of European eExhibition of Creativity and Innovation – EUROINVENT, 17 - 19 May 2018, Iasi, Romania

M. Alte realizări semnificative:

Membru în asociaţii profesionale naţionale şi internaţionale:
- Societatea de Chimie din România (din 2000) asociată Societăţii EURACHEM
- Societatea Română de Biomateriale (din 2002)
- Societatea Română a Chimiştilor Cosmetologi (din 2012)
- Forumul Inventatorilor din Romania (din 2004)
- European Society of Chemistry – EUROCHEMS (din 2000)
- European Materials Research Society (din 2007)
- European Desalination Society – EDS (din 2006)
- European Membrane Society – EMS (din 2007)
- American Ceramic Society – AcerS (din 2013)
- European Society for Nanomedicine (din 2014)

Recenzor articole reviste ISI:

Microporous and Mesoporous Materials (Elsevier); Applied Surface Science (Elsevier); Materials Science and Engineering C (Elsevier); Surface and Coatings Technology (Elsevier); Journal of Membrane Science (Elsevier); Journal of Materials Engineering and Performance (Elsevier); Journal of Toxicology and Environmental Health Sciences; Science Journal of Chemical Engineering; Catalysis Communications; International Journal of Applied Ceramic Technology; Encyclopedia of Separation Science (Elsevier); Comprehensive Research Journal of Education and General Studies; Journal of Industrial and Engineering Chemistry, Korean Journal of Chemical Engineering, Coatings (MDPI), Materials (MDPI) etc.

Data, 20.10.2025

Semnătura,
prof. dr. chim. Margareta Gabriela CIOBANU

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Nume, prenume: Ciofu Ciprian

A. Teza de doctorat

Contribuii teoretice si experimentale privind precizia si calitatea canelurilor exterioare prelucrate prin frezare si rectificare

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

1. G. Muscă, V. Merticaru jr., C. Ciofu, C. Cărăuşu, L. Tăbăcaru, E. Muscă, M. Iosip Capitol în volumul: Creşterea competitivităţii companiilor folosind proiectarea asistată de calculator şi managementul datelor pe întreaga durată de dezvoltare a produsului, Editura PIM, Iaşi, 2008, ISBN 978-973-716-918-1, pp. 1-60

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Irina-Adriana Vieriu, Ciprian Ciofu, ANALYSIS OF CONTINUOUS IMPROVEMENT PROCESS INFLUENCE FACTORS OVER QUALITY TOOLS SELECTION, ModTech International Conference Modern Technologies in Industrial Engineering June 27-29, 2013, Sinaia, Romania
2. Ciprian Ciofu, Gabriel Ursescu, GEAR SHIFT ACTUATOR DESIGN FOR FORMULA STUDENT CAR, ModTech International Conference Modern Technologies in Industrial Engineering June 27-29, 2013, Sinaia, Romania
3. Ciprian Dumitru Ciofu & Dumitru Nedelcu, FINITE ELEMENT IN DESIGNING OF THE GATE LOCATION, SHAPE AND MOULDING INJECTION PATH, ModTech International Conference Modern Technologies in Industrial Engineering July 13-16, 2014, Gliwice, Poland
4. Ciprian Ciofu, Dumitru Nedelcu & Simona Plavanescu, SIMULATION AND OPTIMIZATION INJECTION NETWORK TO GET THE FIBER ORIENTATION AT OBTAINING SAMPLES FROM LIQUID WOOD, ModTech International Conference Modern Technologies in Industrial Engineering June 15-18, 2016, Iasi, Romania
5. Stefan Grigorean, Gheorghe Dumitraşcu & Ciprian Ciofu, THE INFLUENCE OF BIOGAS COMPOSITION UPON THE ATMOSPHERIC COMBUSTION, ModTech International Conference Modern Technologies in Industrial Engineering June 13-16, 2018, Constanta, Romania

D. Lucrări publicate în ultimii 10 ani în reviste şi volume de conferinţe cu referenţi (neindexate)

1. V. Merticaru jr., G. Muscă, C. Cărăuşu, C. Ciofu, About Concepts and Systems in the IT Structure for Integrated Manufacturing BUL. INST. POLIT. DIN IAŞI, Tom. LIV (LVIII), Fasc.1, 2008, ISSN 1011-2855, p.405-410; 12th International Conference TMCR-2008, 29-31 May 2008, Iasi, Romania

2. G. Muscă, V. Merticaru jr., C. Cărăuşu, C. Ciofu, PLM Concept and the Implementation of a PLM Solution within a Research Network BUL. INST. POLIT. DIN IAŞI, Tom. LIV (LVIII), Fasc.1, 2008, ISSN 1011-2855, p.411-416; 12th International Conference TMCR-2008, 29-31 May 2008, Iasi, Romania
3. C. Ciofu, G. Muscă, C. Cărăuşu, V. Merticaru jr., I. Filip, Quality Products Through Rapid Prototyping Concepts BUL. INST. POLIT. DIN IAŞI, Tom. LIV (LVIII), Fasc.2, 2008, ISSN 1011-2855, p.371-377; 12th International Conference TMCR-2008, 29-31 May 2008, Iasi, Romania

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1. Ciprian Dumitru Ciofu & Teodor Daniel Mindru, RESEARCHES CONCERNING SHAFTS AND GEARS MILLING PROCESS, International Journal of Modern Manufacturing Technologies ISSN 2067–3604, Vol. I, No. 1 / 2009
2. Ciprian Ciofu, Daniel Mindru, INJECTION AND MICRO INJECTION OF POLYMERIC PLASTICS MATERIALS, International Journal of Modern Manufacturing Technologies ISSN 2067–3604, Vol. V, No. 1 / 2013
3. Ciprian Ciofu, Gheorghe Cretu, SOME ASPECTS CONCERNING THE MICRO INDENTATION TESTING OF ULTRAMIDPLASTIC MATERIALS, International Journal of Modern Manufacturing TechnologiesISSN 2067–3604, Vol. VI, No. 2 / 2014
4. Constantin Carausu, Octavian Pruteanu, Ciprian Ciofu, PROCESSING BEARING RINGS BY COLD PLASTIC DEFORMATION. INFLUENCE OF THE DEFORMATION FORCE, International Journal of Modern Manufacturing TechnologiesISSN 2067–3604, Vol. VII, No. 2 / 2015
5. Ciprian Ciofu, Constantin Carausu, Simona Nicoleta Mazurchevici, Viorel Paunoiu, Bogdan Chirita, EQUIPMENT FOR TESTING THE WORM AND WORM GEAR ASSEMBLY FROM "LIQUID WOOD" AND COMPARATIVE MEF ANALYSES, International Journal of Modern Manufacturing TechnologiesISSN 2067–3604,Vol. X, No. 2/ 2018

E. Brevete obţinute în întreaga activitate

1. Ciofu, C., Ciurca Ioan, Bucovei Adrian, Freză melc, brevet nr 122810/2010
2. Coteata Margareta, Slatineanu Laurentiu, Ciofu Ciprian, Dispozitiv pentru realizarea orificiilor de sectiune transversala circulara prin eroziune complexa electrica si electrochimica, brevet nr. 123597/2014

(Data) **(Semnătura)**

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Ingineria Materialelor

Numele şi prenumele: Daniel Condurache

1. **Condurache, D.**, (2024)"Advances Representation of Higher-Order Kinematics of Motion. Hypercomplex Lie Groups and Lie Algebras", March 2024, DOI: 10.1007/978-3-031-51085-4_14, in book: Mechanisms and Machine Science, vol 154, Publisher: Springer, Cham. https://doi.org/10.1007/978-3-031-51085-4_14.
2. **Condurache, D**., Cojocari, M., Popa, I. (2023). "Hypercomplex Dual Lie Nilpotent Algebras and Higher-Order Kinematics of Rigid Body", Mechanisms and Machine Science, vol 127. Springer, Cham. https://doi.org/10.1007/978-3-031-25655-4_10
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4. **Condurache, D**., (2023). "Product of Exponential Formula of Multidual Quaternions and Higher-Order Kinematics," 2023 9th International Conference on Control, Decision, and Information Technologies (CoDIT), Rome, Italy, 2023, pp. 537-542, 10.1109/CoDIT58514.2023.10284240
5. **Condurache, D**., Sofan, M., Pisla, D. (2023). "Representations of Higher-Order Kinematics with Hypercomplex Commutative Nilpotent Algebra". In: Okada, M. (eds) Advances in Mechanism and Machine Science. IFToMM WC 2023. Mechanisms and Machine Science, vol 147. Springer, Cham. https://doi.org/10.1007/978-3-031-45705-0_53
6. **Condurache D.**, *Dual Lie Algebra Representations of Rigid Body Displacement and Motion. An Overview (I),* AAS 21-627**,** October 2022, In book: Advances in the Astronautical Sciences, Edition: Vol 177, 2022, pp. 1302-1320, ISBN 978-0-87703-683-8
7. **Condurache D.**, *Hyper-multidual Algebra and Higher-Order Kinematics*. Advances in Robot Kinematics 2022. ARK 2022. Springer Proceedings in Advanced Robotics, vol 24. Springer, Cham. https://doi.org/10.1007/978-3-031-08140-8_7, ISBN 978-3-031-081139-2
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9. **Condurache D.**, *Higher-Order Accelerations Field with Multidual Algebra*. Acoustics and Vibration of Mechanical Structures – AVMS-2021. Springer Proceedings in Physics, vol 274. Springer, Cham. https://doi.org/10.1007/978-3-030-96787-1_5, ISBN 978-3-030-96786-4
10. **Condurache D.**, *The Full-Body Kepler's Problem in a Non-Inertial Reference Frame. A Dual Lie Algebra Approach,* AAS 20-660**,** July 2020, In book: Advances in the Astronautical Sciences, Edition: Vol 175, 2021, Chapter: AAS 20-660, Publisher: Univelt, Incorporated, P.O. Box 28130, San Diego, California 92198

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12. **Condurache D.**, *Singularity-Free Extraction of a Dual Quaternion from Orthogonal Dual Tensor*. Springer Proceedings in Advanced Robotics, vol 15. 2020, Springer, Cham. https://doi.org/10.1007/978-3-030-50975-0_18, ISBN 978-3-030-50974-3.
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19. **Condurache D**., Burlacu A., *Recovering Dual Euler Parameters from Feature-Based Representation of Motion*, Advances in Robot Kinematics, pp.295-305, Springer International, 2014, ISBN: 978-3-319-06697
20. **Condurache D**., *Spacecraft Relative Orbital Motion*, Advances in Spacecraft Systems and Orbit Determination, Dr. Rushi Ghadawala (Ed.), Intech, 2012, ISBN: 978-953-51-0380-6

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21. Pisla, D., Carbone, G., **Condurache, D.**, Vaida, Advances in Service and Industrial Robotics RAAD 2024, Publisher: Springer Cham, ISBN: 978-3-031-59256-0.
22. Burlacu Adrian**, Condurache Daniel,** Corneliu Lazăr**,** *Motion Parameterization, and Control: Advances and Applications,* MATRIX ROM, 2021, ISBN 978-606-25-0653-7
23. **Condurache Daniel**, *A New General investigation of the Kinematics of the Rigid Bodies*, Polirom, 2010, ISBN 973-9476-21-X.
24. **Condurache Daniel**, *Capitole speciale de mecanică teoretică*_– Iaşi : Polirom, 2010. ISBN: 973-9476-22-8
25. **Condurache D**., *Reprezentari simbolice. Aplicatii in teoria semnalelor si studiul sistemelor dinamice (Symbolic Representations. Applications in Signal Theory and Dynamical Systems)*, Nord-Est, Iasi, 1996, ISBN 973-97101-8-2

26. Rusu, E., **Condurache D.**, *Culegere de probleme de mecanică și aplicații (Collection of mechanical problems and applications)*, Editura Universității Tehnice "Gheorghe Asachi", Iași, 1994

Refereed Journals

27. Iosif Birlescu, Nicoleta Tohanean, Calin Vaida, Bogdan Gherman, Deborah Neguran, Alin Horsia, Paul Tucan, **Daniel Condurache**, Doina Pisla, "Modeling and analysis of a parallel robotic system for lower limb rehabilitation with predefined operational workspace", Mechanism and Machine Theory, volume 198, 2024, 105674, ISSN 0094-114X, https://doi.org/10.1016/j.mechmachtheory.2024.105674.
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32. **Condurache D.,** *Higher-Order Relative Kinematics of Rigid Body, and Multibody Systems. A Novel Approach with Real and Dual Lie Algebras*, **Mechanism and Machine Theory,** vol. 176, 2022, 104999, ISSN 0094-114X, https://doi.org/10.1016/j.mechmachtheory.2022.104999
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106. **Condurache, D**., „Advances Representation of Higher-Order Kinematics of Motion. Hypercomplex Lie Groups and Lie Algebras, 25th International Symposium on Measurement and Control in Robotics, **Keynote**, Iasi, Romania, September 21 – 22, 2023.
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127. **Condurache D**., Ciureanu A., *Higher-Order Cayley Transforms for SE (3)*, **12th IFToMM International Symposium on Science of Mechanisms and Machines, SYROM 2017**, November 02-03, Iasi, Romania.
128. **Condurache D**., *On Board Complete Solution to the Full- Body Relative Orbital Motion Problem*, **68th International Astronautical Congress**, 25–29 September 2017, Adelaide, Australia.
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131. **Condurache D.**, Burlacu A., *Dual Tensor Solution To The Extended Wahba Problem*, 67th International Astronautical Congress (IAC), Guadalajara, Mexico, 26-30 September 2016.
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144. **Condurache D.**, Burlacu A., *On Six D.O.F Relative Orbital Motion Parametrization using Rigid Bases of Dual Vectors*, AAS/AIAA **Astrodynamics Specialist Conference**, Hilton Head, South Carolina, USA, August 11-15, 2013.
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168. **Condurache, D.,** Martinusi, V., *A Quaternionic Procedure in the Study of the Keplerian Relative Orbital Motion*, **International Conference "CAIUS IACOB",** Brasov, 2006.
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175. **Condurache, D**., *The Two Body Problem in Non-Inertial Reference Frames*, **Plenary Session, The 2nd International Symposium of Theoretical and Applied Mechanics "D.I.Mangeron",** Iaşi, Romania, 2005.
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178. **Condurache D.,** Matcovschi M.H., *On the n-Order Acceleration Distribution during Rigid Motion,* **7th International Symposium on Automatic Control and Computer Science**, Iasi, Romania, 2001.
179. **Condurache D.,** Matcovschi M.H., *Symbolic representation of continual and discrete signals on finite order algebras,* **7th International Symposium on Automatic Control and Computer Science**, Iasi, Romania, 2001.
180. **Condurache D.,** Poterasu V.F., *Active Optimal Loop Control to Reduce the Seismic Response of Nonlinear Isolation System*, **Transaction of the 9th International Conference on Structural Mechanics in Reactor Technology**, Lausanne, 1987.
181. **Condurache D.,** *Integral Algebraic Approach of Integral Transforms on Finite-Order Algebras,* **First International Conference on Industrial and Applied Mathematics ICIAM**, Paris, 1987.
182. **Condurache D.,** *A New Algebraic Procedure Concerning Symbolic Representation of Signals,* **First IMOAS-IFAC Symposium on Modeling and Simulation for Control Lumped and Distributed Parameter**, Lille-France, 1986.

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183. **Condurache, D**., *Advances Representation of Higher-Order Kinematics of Motion. Hypercomplex Lie Groups and Lie Algebras*, 25th International Symposium on Measurement and Control in Robotics, **Keynote**, Iasi, Romania, September 21 – 22, 2023.

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185. **Condurache, D**, *A General Method to Study the Motion in A Non-Inertial Reference Frame*, 3rd **International Conference on Computational Mechanics and Virtual Engineering** COMEC 2009 Brasov, October 2009, Keynote lecture.
186. **Condurache, D.**, *Foucault Pendulum Like Motion*, 36th **International Conference on Solid Mechanics, Acoustics and Vibrations** October 25-26, 2012, Cluj-Napoca, Romania, Keynote lecture.
187. **Condurache, D.**, *Models for the Rigid Body Motion: The Vector Parameterization of Dual Tensors*, 38th **International Conference on Mechanics of Solids, Acoustics and Vibrations**, 9-11 May 2014 (Keynote Lecture), Pitesti, Romania.
188. **Condurache D**., *A New Parametrization of Motion using Hypercomplex Algebra,* The 6th **International Conference on Advanced Composite Materials Engineering**, COMAT2016 & ICMSAV2016, October, 2016, Brasov, Keynote Lecture.
189. **Condurache D.**, *Higher-Order Kinematics of Rigid Bodies Motions. A Dual Lie Algebra Approach*, **41st International Conference on Mechanics of Solids, Acoustics and Vibrations "Prof. P.P. Teodorescu",** October 26-27, 2017, Cluj-Napoca, Romania, Keynote Lecture.

November 3, 2024 Prof. univ. dr. ing. Daniel Condurache

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: COTEATA MARGARETA

A. Teza de doctorat.

"Contribuţii la studiul procesului de prelucrare prin eroziune complexă, electrică şi electrochimică", 2009

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Slătineanu, L., Dodun, O., **Coteaţă, M.** and Beşliu, I. Nanoreliefs Obtained by Various Machining Methods. În vol. Nanostructures and Thin Films for Multifunctional Applications. Technology, Properties and Devices, editors: Tiginyanu Ion, Topala Pavel, Ursaki Veaceslav, Springer, 2016, p. 447-471, DOI: 10.1007/978-3-319-30198-3_14, ISBN:978-3-319-30198-3; 978-3-319-30197-6, ISSN: 1434-4904 (indexat ISI)
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C. **Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS**.

1. **Coteață M**, Tehnologii neconvenţionale de fabricaţie : suport de curs, Ed. PIM, Iași, 2021, 120 pag,
2. Slătineanu, L., Bohosievici, C., Grămescu, T., Paraschiv, D., Musca, G., Dodun, O., Nagîț, G., Nedelcu, D., Sover, A., Tăbăcaru, L.L., Cărăuşu, C., Creţu, G., Merticaru, V., **Coteaţă, M.**, Boca, M., Mihalache, M.A., Rîpanu, M.I., Mazurchevici, S.N., Mîndru, T.D., Boca, M.A., Hriţuc, A., Motaş, J.G., Aplicații de ingineria fabricației. Iași, Editura PIM, 2021, 417 p., ISBN 978-606-13-6104-5;
3. Dodun, O., **Coteaţă, M.,** Slătineanu, L. Prelucrări neconvenţionale cu energii concentrate. Îndrumar pentru lucrări de laborator. Iaşi: Editura Performantica , 126 p., ISBN 978-606-685-110-7 (43 *pag.– prelucrări cu fascicul laser*), 2014;

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Adomniței, I.; Cimpoeșu, R.; Chicet, D.L.; **Coteață, M**.; Lupu, F.C.; Bejinariu, C.; Andrușcă, L.; Paraschiv, P.; Axinte, M.; Bădărău, G.; Cimpoesu, N. Behavior of YSZ (High Y2O3 Content) Layer on Inconel to Electro-Chemical Corrosion. Materials 2025, 18, 400. https://doi.org/10.3390/ma18020400
1. Luțcanu, M.; Cimpoeșu, R.; Abrudeanu, M.; Munteanu, C.; Moga, S.G.; Coteata, M.; Zegan, G.; Benchea, M.; Cimpoeșu, N.; Murariu, A.M. Mechanical Properties and Thermal Shock Behavior of Al2O3-YSZ Ceramic Layers Obtained by Atmospheric Plasma Spraying. Crystals 2023, 13, 614. IF/2023=2.4
2. Luțcanu M, Istrate B, Coteață M, Știrbu I, Birnoveanu IT, Popa M, Manole V, Cimpoeșu N. 2022. Analysis of electrical discharge machining (EDM) cut of ceramic layers obtain through atmospheric plasma spraying (APS) on steel substrate. Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering. 65(SI IV),1209-14. IF/2021=0.07
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8. **Coteaţă M**, Slătineanu L, Beşliu Băncescu I, Hrițuc A. Analysis of EDM drilling of porous SiC/Al-Mg composite. AIP Conference Proceedings, **2019**, 2113(1), 110010. Esaform 2019, Victoria-Gasteiz, Spania. https://doi.org/10.1063/1.5112653
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10. **Coteaţă M**, Slătineanu L, Olaru S, Radovanovic M, Beşliu-Băncescu I. Tool electrode massic wear in electrochemical discharge drilling. Buletinul Institutului Politehnic din Iaşi, Secţia Construcţii de Maşini, **2017,** 63 (67)2, 57- 67, Index Copernicus
11. **Coteaţă M**, Slătineanu L, Beşliu I. Optimization of electrochemical discharge drilling process by means of grey relational analysis, TEHNOMUS - New Technologies and Products in Machine Manufacturing Technologies, **2017**, 16-21,
12. **Coteata M**, Floca A, Dodun O, Ionescu N, Nagit G, Slatineanu L. Pulse generator for obtaining surfaces of small dimensions by electrical discharge machining. Procedia CIRP, **2016**, 42, 715-720. https://doi.org/10.1016/j.procir.2016.02.307
13. **Coteata M**, Pop N, Schulze H-P, Slatineanu L, Dodun O. Investigation on hybrid electrochemical discharge drilling process using passivating electrolyte. Procedia CIRP, **2016**, 42, 778-782. https://doi.org/10.1016/j.procir.2016.02.318
14. Ciubotariu V, Cacu A, Rotundu I-A, Cucos MM, **Coteata M**. Influence of Some Factors on Surface Roughness Parameters at Electrical Discharge Machining. Appl. Mech. Mater., **2014**, 657, 291-295. IMANEE 2014. https://doi.org/10.4028/www.scientific.net/AMM.657.291
15. Madić M, Radovanović M, **Coteata M**, Janković P, Petković D. Multi-Objective Optimization of Laser Cutting Using ROV-Based Taguchi Methodology. AMM, **2015**, 809–810, 405–10. https://doi.org/10.4028/www.scientific.net/amm.809-810.405.
16. **Coteaţă M**, Dodun O, Slătineanu L, Beşliu I, Olaru S. Material removal rate in electorchemical discharge machining of small diameter holes. Revista de Tehnologii Neconvenţionale, **2015**, 19(4) 60-65.
17. **Coteaţă M**, Slătineanu L, Morar MC, Beşliu I. Obtaining Holes in Plexiglas Using Low Power CO2 Laser Beam, Polcom 2014, October 23-24, Applied Mechanics and Materials, Vol. 760, pp. 563-568, May. 2015, https://doi.org/10.4028/www.scientific.net/AMM.760.563, ISBN-13: 978-3-03835-443-7
18. **Coteata M**, Cretu G. ECDM Drilling Process Analysis via Taguchi Method. Appl Mech Mater., **2014**, 657, 337-341. IMANEE 2014. https://doi.org/10.4028/www.scientific.net/AMM.657.337
19. **Coteaţă M**, Slătineanu L, Pop N. Material removal rate at the electrochemical discharge drilling. **2014** International Conference on Production Research - Europe, Africa and Middle East 3rd International Conference on Quality and Innovation in Engineering and Management, July 1-5, 2014, Cluj-Napoca, Romania, ISBN: 978-973-662-978-5, 119-124, WOS:000346410700021

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Mihalache, A., Nagit, G., Ripanu, M.I., Slătineanu, L., Dodun, O., **Coteaţă, M.**, Laser Marking as a Result of Applying Reverse Engineering, Proceedings of 21st International Esaform Conference on Material Forming (ESAFORM 2018), AIP Conference Proceedings, vol. 1960, Article Number: UNSP 100010, 2018
2. Nagîţ G., Slătineanu L., Dodun, O., **Coteata, M.,** Besliu, I. Merticaru, V. Surface roughness at vibroburnishing. AIP Conference Proceedings 1896, 050011 (2017); https://doi.org/10.1063/1.5008056, ESAFORM 2017, Dublin
3. Dodun, O., Sanda Ilii Bangu, S., Slătineanu, L., Merticaru, V., **Coteata M.** and Besliu, I., Influence of Some Operating Parameters on the Kerf Size in Plasma Beam Cutting, Edited by: Chinesta, F; Cueto, E; AbissetChavanne, E, Conference: 19th International ESAFORM Conference on Material Forming (ESAFORM) Location: Nantes, FRANCE Date: APR 27-29, 2016
4. L. Slătineanu, O. Dodun, **M. Coteaţă**, I. Coman, V. Manole, C. V. Gika, Requirements statement in product design, Materials Science and Engineering, vol. 161, p. 296-303, 2016
5. Slatineanu, L., Dodun, O., **Coteata, M.,** Coman, I., Nagit, G., Manufacture of threads with variable pitch by using noncircular gears,7th International Conference on Advanced Concepts in Mechanical Engineering Book Series: IOP Conference Series-Materials Science and Engineering, 2016, Volume: 147

6. Slatineanu, Dodun, O., Carp, I., **Coteata, M.**, Besliu, I., Tool electrode wear in electrical discharge of small diameter holes, 4TH International Conference on Computing and Solutions in Manufacturing Engineering 2016 - COSME'16, Brasov, Romania, Nov 03-04, 2016, MATEC Web of Conferences, vol. 94, Published 2017, ISSN: 2261-236X

J. Inventii

1. Slătineanu, L., Anton, A.D., **Coteaţă, M.,** Carp, I. *Dispozitiv pentru studiul microprelucrabilităţii prin eroziune electrică*. Descriere de invenţie nr. 122666, 2006
2. Slatineanu, L., Dodun-Des-Perrieres, O., **Coteata, M.,** Uliuliuc, D. *Dispozitiv de prelucrat cu ultrasunete Descriere* de invenţie nr. RO125894-A2, 2009/2012
3. Slătineanu, L., Rădeanu, A., **Coteaţă, M.** *Dispozitiv pentru aliere superficiala si depunere prin scantei electrice.* Descriere de invenţie nr. RO127084-A2, 2010/2012
4. Slătineanu, L., Uliuliuc, D., **Coteaţă, M.,** Grigoraş, I. *Dispozitiv pentru prelucrarea prin electroeroziune a găurilor cu axă în formă de arc de cerc,* Descriere de invenţie nr. RO 128374 A2, 2011/2013
5. Gherman, L., Slătineanu, L., **Coteaţă, M**. *Dispozitiv pentru evaluarea prelucrabilităţii prin găurire cu forţă constantă de avans*. Descriere de invenţie nr. RO128618-A2, 2011/2013
6. Pop N; **Coteaţă, M.**. *Maşină pentru obţinerea orificiilor de mici dimensiuni prin eroziune complexă, electrică şi electrochimică* Descriere de invenţie nr. RO126546-A2
7. **Coteaţă**, **M.,** Slătineanu, L., Ciofu, C.D., *Dispozitiv pentru realizarea orificiilor cu secţiune transversală circulară prin eroziune complexă, electrică şi electrochimică*. Descriere de invenţie RO123597 B1, 2007/2014
8. Slătineanu, L., **Coteaţă, M**., Guşă, N., Ilii, S.M., Munteanu, A., *Dispozitiv pentru prelucrare electrochimică*. Descriere de invenţie RO 123566 B1, 2006/2013
9. Slătineanu L, Potârniche S, **Coteaţă M.**, Uliuliuc, D. *Dispozitiv pentru studiul efectului de impact generat de o granulă abrazivă*. Descriere de invenţie nr. RO125928-A2, 2009/2010
10. Slatineanu, L., Condrea, I., Hrituc, A., Besliu Bancescu, I., **Coteata, M.,** Oroian, B.C. *Sculă combinată pentru frezarea și prelucrarea prin deformare plastică superficială a suprafețelor plane*. RO135368 (B1), 2020-06-22
11. Slătineanu, L., Boca M, **Coteaţă M.,** Dodun-des Perrieres O, Nagîţ. Gh. *Dispozitiv pentru studiul rigidităţii unui strung universal cu rotirea arborelui principal*. Descriere inventiei RO133523 B1, 2024

K. Contracte de cercetare

1.***Coteaţă, M.*** *– director de proiect* - grant tip S (MCT) cu tema B16, contract nr.7004/2001*(in valoare de 1750 RON)* şi tip AT cod CNCSIS 16, tema 115, contract 33479/2002 *(in valoare de 3500 RON)* cu titlul: *Cercetări teoretice şi experimentale privind posibilităţile de prelucrare prin eroziune complexă, electrică şi electrochimică, pe o maşină de prelucrat prin electroeroziune cu electrod masiv,* în valoare totală de 5250 RON

2.***Coteaţă, M.*** *– director de proiect* - grant TD CNCSIS, tema 3/cod 62/2002, contract nr. 39593/6.11.2002, cu titlul: *Cercetări privind optimizarea procesului de prelucrare prin eroziune complexă, electrică şi electrochimică, 2002-2003,* în valoare totală de 1200 RON

3.***Coteaţă, M.*** *– director de proiect* - Grant AT cod CNCSIS 328, tema 58/2003 (in valoare de 3600 RON), si 80/2004 (in valoare de 8000 RON), contract 33371/29.06.2004, cu titlul*: Cercetări teoretice şi experimentale privind fenomenologia şi optimizarea unor procedee de prelucrare hibridă, prin descărcări electrice, asistate de ultrasunete,* în valoare totală de 11600 RON

4.***Coteaţă, M.*** *– director de proiect - Cercetări teoretice şi experimentale privind prelucrarea suprafeţelor de mici dimensiuni prin eroziune complexă, electrică şi electrochimică (grant CNCSIS tip TD, cod CNCSIS 150), perioada de derulare: 2005-2006,* în valoare totală de 10150 RON

5.***Coteaţă, M.*** *–Membru al echipei de cercetare* - Contract nr. 27637/14.03.2005, cod CNCSIS 564, tema 55, *cu titlul : Cercetări teoretice şi experimentale privind microfabricaţia prin metode neconvenţionale,* director proiect: prof.dr.ing Laurentiu Slatineanu

6.***Coteaţă, M.*** *–Membru al echipei de cercetare* - Contract 40222/2003, cod CNCSIS 849, tema 19 şi contract nr 33371 /29.06.2004 cod CNCSIS 849, tema nr. 70 : *Cercetari teoretice si experimentale privind prelucrabilitatea prin aschiere* director proiect: prof.dr.ing Laurentiu Slatineanu.

7. ***Coteaţă, M.*** *–Membru in echipa de cercetare* **-** Contract de cercetare ştiinţifică la Programul Cadru VI, FP6, secţiunea: *Horizontal research activities involving SMEs, FP6-2002-SME-1, Co-*

operative Research Project (CRAFT), CONTRACT No. COOP-CT-2005- 017991, cu titlul: Injection Moulding of Titanium Powders for Biomedical Applications – BIOTIP. Responsabil stiintific UTI: prof. dr. ing. Gheorghe Nagit, perioadă de derulare 2005-2007, valoare contract UTI: 71500 euro * 3,6 lei/€ =257400 lei. Valoare medie anuala de 16793,8 RON, echipa UTI 30 persoane, punctaj individual anual de 31,94p

8.***Coteaţă, M.*** *–Membru al echipei de cercetare* - Proiect CEEX, modul 3, contract nr. 20/2006, cu titlul "*Dezvoltarea unei retele de colaborare in domeniul tehnologiilor neconventionale*", perioada de derulare 2006-2008, director proiect: prof.dr.ing Laurentiu Slatineanu.

9. ***Coteaţă, M.*** *–Membru al echipei de cercetare* Proiect CEEX, modul 1, contract nr. 243/08.09.2006, cu titlul "*Retea nationala de cercetare in domeniul ingineriei integrate a produselor si proceselor, INPRO*" (director de proiect: prof. dr. ing. George Draghici, U.P. Timisoara, responsabil stiintific echipa UTI: Slatineanu Laurentiu). perioada derulare 2006-**2008**

10. ***Coteaţă, M.*** *–Membru al echipei de cercetare* - Proiect IDEI, PN II , Program Resurse Umane, contract nr. 73/2007, cod ID_625, *Modelare fenomenologică în cazul unor prelucrări cu particule acelerate,* director proiect: prof.dr.ing. Laurentiu Slatineanu,perioada derulare **2007-2010**, în valoare totală de 1000000 RON

11. ***Coteaţă, M.*** *–Membru al echipei de cercetare* - Proiect Capacităţi, PN II , Program Capacităţi, contract nr. 152/2007, *Centru inter-regional de competenţe în procesarea cu procedee neconvenţionale a materialelor avansate,* director proiect: prof.dr.ing. Laurentiu Slatineanu, perioada de derulare **2007- 2009**, în valoare totală de 824250 RON

12. ***Coteaţă, M. -*** *Director de proiect* – Proiectul privind Învățământul Secundar (ROSE), Schema de Granturi Competitive pentru Universități - SGCU-PV, cu titlul Bariere Ridicate Acum pentru Viitorul Elevilor la CMMI – BRAVE, Acord de Grant AG 324/SGU/PV/III/ 18.06.2020, Școală de vară pentru elevi cu durata de 2 săptămâni la CMMI (50 de liceeni anual: 2021-online, 2022, 2023 și 2024 – fizic), în valoare totală 914617 RON.

L. Premii, distincţii.

- în cadrul simpozionului internaţional DAAAM din 2008, organizat la Trnava, Slovacia, lucrarea prezentată a fost apreciată prin acordarea *premiului FESTO pentru tineri cercetători*, fiindu-mi acordată o bursă pentru susţinerea activităţii de cercetare în valoare de 500 de euro;
- în cadrul conferinţei internaţionale "Machine-Building and Technosphere of the XXI century" din septembrie 2006, Sevastopol, Ucraina am primit *premiul III* pentru lucrarea cu titlul "*Study regarding the energy balance of an ECDM process*", a cărei prim autor sunt.

J. Alte realizări semnificative.

Data,

Lista de lucrări în domeniul de studii universitare de licenţă: Mecatronică

Numele şi prenumele: DAVID ANA-MARIA

A. Teza de doctorat.
Titlul tezei de doctorat: "Contribuții privind extinderea domeniului de aplicare al unor teorii de stare limita, pentru materiale metalice" 2020
Profesor îndrumător: prof. univ. dr. ing. Paul Doru Bârsănescu
Distincție – Excelent / Summa cum Laude
Universitatea Tehnică "Gheorghe Asachi" din Iași, Domeniul Inginerie Mecanică, Iași (România).

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local; anexa V.3

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

Observație: Toate lucrările sunt publicate utilizând numele Comănici Ana-Maria.

1. **Comanici, A. M.**, & Barsanescu, P. D., *Modification of Mohr's criterion in order to consider the effect of the intermediate principal stress*, International Journal of Plasticity, 108, 40-54, 2018.
https://doi.org/10.1016/j.ijplas.2018.04.010 *FI: 9.8 (2022)*

2. Barsanescu, P. D., & **Comanici, A. M.**, *von Mises hypothesis revised*, Acta Mechanica, 228(2), 433-446, 2017.
https://doi.org/10.1007/s00707-016-1706-2 *FI: 2.7 (2022)*

3. **Comanici, A. M.**, Goanta, V., & Barsanescu, P. D., *Theoretical and experimental study of specimens with stress concentrators in dependence of stress triaxiality*, Ciência & Tecnologia dos Materiais, 29(1), e254-e261, 2017. https://doi.org/10.1016/j.ctmat.2016.09.001

4. Condurache, D., & **Comanici, A. M.**, *A Tensor closed-form solution of two-body problem in rotating reference frame*. Romanian Journal of Mechanics, 6(2), 31-45, 2021.
https://journals.srmta.ro/index.php/rjm/article/view/155

5. David, A., Barsanescu, P. D., & **Comanici, A. M.,** *About the sensitivity to hydrostatic pressure of Mohr-Coulomb criterion with circular failure envelope, dedicated to ductile materials*, In IOP Conference Series: Materials Science and Engineering, IOP Publishing, Vol. 400, No. 4, p. 042014, 2018. https://doi.org/10.1088/1757-899X/400/4/042014

6. David, A., **Comanici, A. M.**, Istrate, B., Munteanu, C., & Barsanescu, P. D., *Failure surfaces morphology for specimens with stress concentrators using scanning electron microscopy*, In IOP Conference Series: Materials Science and Engineering, IOP Publishing, Vol. 444, No. 6, p. 062018, 2018. https://doi.org/10.1088/1757-899X/444/6/062018

7. **Comanici, A. M.**, Sandovici, A., & Barsanescu, P. D., *Investigation of limit state criteria for amorphous metals*, In IOP Conference Series: Materials Science and Engineering, IOP Publishing, Vol. 147, No. 1, p. 012100, 2016. https://doi.org/10.1088/1757-899X/147/1/012100

8. **Comanici, A. M.**, & Barsanescu, P. D., *Considerations on elliptical failure envelope associated to Mohr-Coulomb criterion*, In IOP Conference Series: Materials Science and Engineering, IOP Publishing, Vol. 145, No. 4, p. 042006, 2016. https://doi.org/10.1088/1757-899X/145/4/042006

9. **Comanici, A. M.**, Goanta, V., Barsanescu, P. D., & Andrusca, L., *Study of a Specimen with Stress Concentrators in Multiaxial Tests*, In Applied Mechanics and Materials, Trans Tech Publications Ltd., Vol. 809, pp. 974-979, 2015. https://doi.org/10.4028/www.scientific.net/AMM.809-810.974

10. Barsanescu, P. D., **Comanici, A. M.**, Andrusca, L., & Savin, A., *Modified Mohr-Coulomb Theory for Triaxial State of Stress*, In Applied Mechanics and Materials, Trans Tech Publications Ltd., Vol. 809, pp. 658-663, 2015. https://doi.org/10.4028/www.scientific.net/AMM.809-810.658

11. **Comanici, A. M.**, Goanta, V., & Barsanescu, P. D. (2015). *STUDY OF A TRIAXIAL SPECIMEN AND A REVIEW FOR THE TRIAXIAL MACHINES*, Machines. Technologies. Materials., 9(12), 11-14, 2015. https://stumejournals.com/journals/mtm/2015/12/11

12. Andrusca, L., Goanta, V., Barsanescu, P. D., Savin, A., & **Comanici, A. M.**, *Stress state evaluation in biaxially loaded cruciform specimens*, In Applied Mechanics and Materials, Trans Tech Publications Ltd., Vol. 809, pp. 980-985, 2015. https://doi.org/10.4028/www.scientific.net/AMM.809-810.980

13. **Comănici**, A. M., Cârlescu, P. M., Bârsănescu, P. D. Ştefănescu, D. M., *Strain Gauge Rosette for Triaxial Strain Measurement*, XXI IMEKO World Congress 2015, Prague, Czech Republic, Vol. IMEKO2015 full papers book, Issue 1, pp 395-398, 2015. ISBN: 978-80-01-05793-3, 2015

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din tara, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

14. **Comanici, A. M.**, *The development of new limit stress state criteria for metallic materials*, Editura Academică “Matei-Teiu Botez”, Iasi, România, 1ere Seminaire Doctoral International Francophone, pp: 23-34, ISSN 2247-4161, 2016.

J. Invenţii.

K. Contracte de cercetare/granturi.

1. Director de proiect 3917/6.02.2025

Universitatea Tehnică "Gheorghe Asachi" din Iași

Contract de finanțare, tip agent economic

Cercetări privind funcționalitatea sistemelor de prindere ale conductelor colectoare din instalațiile de canalizare ce deservesc clădiri cu subsol tehnic

Perioada de derulare 6.02.2025-17.09.2025.

Valoarea contractului: 71.400 lei.

2. Director de proiect GI / P 22 / 2021

Universitatea Tehnică "Gheorghe Asachi" din Iași

Schema de granturi interne ”PUBLICAȚII”

Durată: 01.07.2021-15.12.2021;

Valoarea contractului de grant: 45.000 lei.

3. Membru echipă proiect GI / P 23 / 2021

Universitatea Tehnică "Gheorghe Asachi" din Iași

Schema de granturi interne ”PUBLICAȚII”

Director de proiect: prof. univ. dr. ing. Daniel Condurache

Durată: 01.07.2021-15.12.2021;

Valoarea contractului de grant: 45.000 lei.

L. Premii, distincții.

Premii și distincții internaționale:

Premii și distincții naționale:

Cod Contract: POSDRU/159/1.5/S/133652 – Obținerea unui premiu în cadrul proiectului pentru rezultate individuale deosebite, cu un punctaj maxim de 272,17.

Premierea rezultatelor cercetării - Articole, Competiția 2017 (PN-III-P1-1.1-PRECISI-2017-16247 Barsanescu, P. D., & Comanici, A. M. (2017). von Mises hypothesis revised. Acta Mechanica, 228(2), 433-446) (zona galbenă)

Premierea rezultatelor cercetării - Articole, Competiția 2018 (PN-III-P1-1.1-PRECISI-2018-26896 Comanici, A. M., & Barsanescu, P. D. (2018). Modification of Mohr's criterion in order to consider the effect of the intermediate principal stress. International Journal of Plasticity, 108, 40-54) (zona roșie)

M. Alte realizări semnificative.

Data 24.03.2025

Semnatura

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Dîrțu Evagrina

A. Teza de doctorat.

Evagrina Dîrțu, *Le Réalisme magique dans le roman français d'après 1900*; coordonator: Prof. univ. dr. Alexandru Călinescu; Universitatea „Alexandru Ioan Cuza" Iași, susținere publică – 25.09.2013 (calificativ: *summa cum laude*), Diplomă de doctor în domeniul Filologie, nr.651/13.02.2014, acordată de Ministerul Educației, Cercetării, Tineretului și Sportului, România

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Dîrțu, E., „Nostalgie et résistance à la nostalgie dans la fictionnalisation du communisme", in Patrizia Gasparini et Estelle Zunino (dir.), *Nostalgie. Conceptualisation d'une émotion*, PUN – Éditions Universitaires de Lorraine, Nancy, Franța, 2021, ISBN – 978-2-8143-0600-4, p.257-275 - **capitol**

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. Dîrțu, E., *Le Réalisme magique et le roman français*, ed. Institutul European, Iași, 2023, ISBN 978-606-24-0369-0, [editură clasificată A în Filologie, CNCS]
2. Dîrțu, E., *Rire et poésie (quelques réflexions sur la poésie de Raymond Queneau, Henri Michaux, Jacques Prévert*), ed. RISOPRINT, Cluj, 2023, ISBN 978-973-53-3079-8 [editură clasificată C în Filologie, CNCS]
3. Dîrțu, E., *Le français pour les filières architecture*, ed. Performantica, Iasi, 2023, ISBN – 978-630-328-012-7
4. Dîrțu, E., *English Practice for Technical Students*, ed. Performantica, Iasi, 2017, ISBN: 978-606-685-560-0, 90 p.
5. Dîrțu, E., „Le Temps des premières rencontres. La littérature de jeunesse – discours privilégié de la découverte du monde", in D.M. Popa (coord.), *La Rencontre ou le moment zéro du narratif*, Editura Stef, Iași, 2016, ISBN 978-606-575-592-5, p. 141-152 (**capitol**)
6. Dîrțu, E., „Revrăjirea lumii. Realismul magic între postcolonialism şi postmodernism", in A. Mihalache şi A. Cioflâncă (coord.), *Istoria recentă altfel: perspective culturale*, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, mai 2013, ISBN 978-973-703-883-8, p. 1009-1016 (**capitol**)

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Dîrțu, E., 2023, *Suport seminar_Limba franceză*, limbistraine.tuiasi.ro/Resurse.html
2. Dîrțu, E., suport de curs, 2019, *Limba engleză*, limbistraine.tuiasi.ro/Resurse.html
3. Dîrțu, E., 2019, *Support de cours – Français scientifique et technique*, limbistraine.tuiasi.ro/Resurse.html

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Ó Laoire, M., Baciu, I., Braund, H., Brogan, K., Dîrțu, E., Hurley, M., Walsh, S., *Internationalisation and Interculturalism in Three European Contexts: A Brief Review of Literature*, in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, Iași, editura Universității Tehnice „Gheorghe Asachi", Iași, 71/2025, ISSN 1224-5860, p. 9-22; indexare CEEOL (https://www.ceeol.com/search/journal-detail?id=1505)

2. Dîrțu, E., *Nature and Culture in the American Gothic (Ioana Baciu),* in *Les Cahiers Linguatek*, 2601-0313, vol. 7 (no.13/14), 2023, p. 287-289, indexare CEEOL, Fabula
3. Dîrțu, E., „Temps traumatique, temps impossible. Une lecture magico-réaliste du *Livre des Nuits* de Sylvie Germain", *Les Cahiers Linguatek*, Iași, editura Performantica, 7-8/2020, p.184-195; indexare Fabula, CEEOL (https://www.ceeol.com/search/article-detail?id=914646)
4. Dîrțu, E., „Quelques aspects de l'ambiguïté proustienne", in *Les Cahiers Linguatek*, Iași, editura Performantica, 3-4/2018, ISSN 2559-7752, p.188-194; indexare Fabula (https://www.fabula.org/actualites/les-cahiers-linguatek-no-3-4-l-ambiguite_88232.php)
5. Dîrțu, E., „Rire et Poésie", in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, Iași, editura Politehnium, 64/1-2/2018, ISSN 1224-5860, p. 55-59; indexare CEEOL (https://www.ceeol.com/search/journal-detail?id=1505)
6. Dîrțu, E., „Métamorphose et fiabilité narrative", in *Les Cahiers Linguatek*, Iași, editura Performantica, 1-2/2017, ISSN 2559-7752, p. 69-73, indexare Fabula (https://www.fabula.org/actualites/les-cahiers-linguatek_81731.php)
7. Dîrțu, E., „Terminology Teaching Strategies in the English Specific Purposes Class", in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, Iași, editura Politehnium, 62/2016, ISSN 1224-5860, p. 9-14; indexare CEEOL (https://www.ceeol.com/search/article-detail?id=539561)
8. Dîrțu, E., „La chambre (im)mobile des *Enfants terribles*" in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, tom LXII (LXVI), editura Politehnium, 2016, ISSN 1224-5860, p. 27-31 (https://www.ceeol.com/search/article-detail?id=1168721)
9. Dîrțu, E., „Possibility and Certainty. The Rhetoric of Magical Realism in *Sleep* by Haruki Murakami", in *Buletinul Ştiinţific al Universităţii "Mihail Kogălniceanu"*, vol. 23, nr. 1, Cugetarea, Iaşi, 2014, p.51-60; indexare CEEOL, Copernicus (https://www.ceeol.com/search/article-detail?id=48822; http://journals.indexcopernicus.com/issue.php?id=9358&id_issue=877809)

G. Lucrări ştiinţifice publicate în reviste din străinătate.

1. Dîrțu, E., „Stratégies syntaxiques, narratives et thématiques de la (dé)construction identitaire dans *Amour bilingue*", in *Interculturel Francophonie* no.34, ***„Abdelkébir Khatibi: le penser-écrire d'un intellectuel perspectiviste"***, ed. Alliance Française Lecce, Italia, nov.-dec. 2018, ISBN 978-88-95343-32-7 ; ISSN 2240-6263; indexare EBSCO (https://openurl.ebsco.com/EPDB%3Agcd%3A11%3A24938267/detailv2?sid=ebsco%3Aplink%3Acrawler&id=ebsco%3Agcd%3A134589379&link_origin=www.google.com), Fabula (https://www.fabula.org/actualites/interculturel-francophonies-n-34-novdec-2018-abdelkebir-khatibi-le-penser-ecrire-d-un_88343.php)

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Dîrțu, E., „La littérature et l'imaginaire", in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, tom LXI (LXV), editura Politehnium, 2015, ISSN 1224-5860, p. 33-40
2. Dîrțu, E., „Spatialité et temporalité dans *Le Rivage des Syrtes* de Julien Gracq. De l'extérieur, à travers, vers l'intérieur", in *Buletinul Institutului Politehnic din Iași. Secția Științe Socio-Umane*, tom LX (LXIV), editura Politehnium, 2014, ISSN 1224-5860, p. 63-69

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Dîrțu, E., „Entre temps cyclique et temps linéaire – temps, littérature, théologie", in Evagrina Dîrțu, Ioana Baciu (eds.), *Autour et à travers/În jurul și de-a lungul*, (Lucrările Simpozionului CRU TUIASI), Politehnium, 2022, ISBN 978-973-621-508-7, p.167-180, indexare fabula.org, CEEOL
2. Dîrțu, E., „Ironie ou sérieux du rire chez Michel Tournier dans *Le Roi des Aulnes*", in *Petit éloge de l'ironie. Actes du colloque international Journées de la Francophonie XXIVe édition*, textes réunis par Felicia Dumas, Junimea, Iași, 2019, ISBN 978-973-37-2315-8, p. 122-131, indexare CEEOL
3. Dîrțu, E., **„**L'Altérité aimantée et la guerre. Quelques considérations sur *Le Rivage des Syrtes*"

in *Francophonie et curiosité(s)*. Actes du colloque international Journées de la Francophonie XXIe édition, Iasi, 25-26 mars 2016, textes réunis par Felicia Dumas, éditions Junimea, Iaşi, 2017, ISBN 978-973-37-2016, p. 181-190, indexat Fabula.org

4. Dîrțu, E., „But Can We Do It Without Grammar?" Possible Answers in Foreign Languages Classs", in N.M. Iftimie și O.C. Rusu (coord.), *Discourse and Communicative Interaction*, Editura Politehnium, 2016, ISBN 978-973-621-455-4, p. 129-140
5. Dîrțu, E., „Magical Realism and Recipes of Cultural and Literary Anti-Hegemony. Theoretical Considerations", in D.M. Popa și N.M. Iftimie (coord.), *Relația identitate-alteritate și stereotipurile socio-culturale*, editura Performantica, 2015, ISBN 978-606-685-278-4, p. 94-99
6. Dîrțu, E., „Technical Academic Writing. Some Observations in an Applied Analysis", in *Limbaje aplicate in mediul academic*, editura Performantica, 2014, ISBN 978-606-685-235-7, p. 77-92
7. Dîrțu, E., „Le vraisemblable mis à jour. Une étude sur *Le Livre des Nuits* (Sylvie Germain)" in *Le recyclage culturel entre parasitisme, atrophie de l'imaginiare et invention seconde*. Actes du colloque international Journées de la Francophonie XVIIIe édition, Iasi, 29-30 mars 2013, textes réunis par Felicia Dumas, Editura Junimea, Iaşi, 2014, ISBN 978-973-37-1738-6, p. 50-60, indexat Fabula.org
8. Popescu (Dîrțu), E., „Réalisme magique et la démocratie du sacré. *La Sorcière* de Marie NDiaye", in *Text şi discurs religios*, Nr. 4/2012, Editura Universităţii „Alexandru Ioan Cuza", Iaşi, ISSN 2066-4818, p. 367-375, indexare Index Copernicus
9. Dîrțu, E., „Le Réalisme magique - un discours du monde réenchanté. Une étude sur Michel Tournier", in *Critical discourse and linguistic variation. New investigation perspectives: receptions, analyses, openings*, Nr. I, Editura Universităţii „Ştefan cel Mare", Suceava, 2011, ISBN 978-973-666-372-7, p. 99-102, indexat Fabula.org

J. Invenţii.

K.Contracte de cercetare/granturi.

1. Membru in proiectul "Achieving Internationalisation through best practice in Modern Foreign Language and Intercultural Communication pedagogies", proiect câștigat și finanțat în cadrul Alianței universitare INGENIUM în urma apelului de constituire de grupuri de cercetare interuniversitare
2. Titular, co-responsabil proiect - « Le Français mon atout. Employabilité et plurilinguisme » dans le cadre de l'Appel à manifestation d'intérêt dédié au 30ème anniversaire de l'AUF-ECO, Convention AUF-ECO-2024 DRECO-8394 / 23.04.2024, 900 euro
3. Titular, co-responsabil proiect - « Transversal(ité) dans l'Univers(ité). Développement et renforcement des compétences transversales chez les étudiants et les enseignants des filières techniques et d'architecture : communication, transdisciplinarité, autonomie », Convention AUF-ECO-535/18.05.2021, între AUF-ECO și Universitatea Tehnică „Gheorghe Asachi", 3.000 euro, 2021-2022
4. Titular, co-responsabil proiect - « SCIPO_UNIV : Le Pendule de Foucault -Science et Poésie dans l'Univers(ité) » în cadrul apelului AUF-ECO *Renforcement des capacités transversales des enseignants-chercheurs et la coopération interuniversitaire sur des projets synergiques* Convention AUF-ECO-535/29.05.2017, între AUF-ECO și Universitatea Tehnică „Gheorghe Asachi" Iasi), 5.000 euro, ian. 2019-iulie 2020
5. Titular, co-responsabil proiect - « Communication plurilingue et attitude entrepreneuriale chez les étudiants des sections techniques et d'architecture : compétences linguistiques et employabilité », Convention AUF-ECO-535/29.05.2017, între AUF-ECO și Universitatea Tehnică „Gheorghe Asachi", 5.000 euro, 2017-2018
6. Membru în proiectele - CNFIS-FDI-2025-F-0103, „Sinergii pentru Internaționalizarea Sustenabilă a TUIASI la nivel European și Mondial (SISTEM)", CNFIS-FDI-2024-F-0016, „Rethinking Skills for Internationalisation - iSKILLS"; ERASMUS-EDU-2022-EUR-UNIV, Id 101090042-INGENIUM, „INGENIUM Alliance of European Universities, INGENIUM, ca expert din partea TUIASI în pachetul de lucru 9 „INGENIUM for Non-discriminatory and Socially Engaged Higher Education", axa 3- „A multilingual and intercultural Alliance"; membru în proiectul SMILE 621433-EPP-1-2020-1-BE-EPPKA3-IPI-SOC-IN /2023; membru în proiectul ROSE, AG 348/SGU/SS/III - Susținerea tinerilor ingineri-manageri STIM@DIMA, 2023;

membru în proiectele de internaționalizare CNFIS-FDI-2023-F-0457, „Noi convergențe de internaționalizare la TUIASI – iAGILE"; „Internaționalizare prin cunoaștere transferabilă și vizibilitate (iTRANSFER)", CNFIS-FDI-2022-0021, „Internaționalizare prin Multiculturalism și Oportunități de Valorizare a Experiențelor (I-Move)"–CNFIS-FDI-2021-0426 ; „Internaționalizare creativă la TUIASI – INTER-BUZZ"–CNFIS-FDI-2020-0157; ERASMUS+ K103 – 2019-1-RO01-KA103-061457; „Internaționalizarea educației la TUIASI – INTERES TUIASI"–CNFIS-FDI-2019-0021; „Acces direct prin internaționalizare digital – DIGITALinTUIASI" – CNFIS-FDI-2018-0006; „Internațional la puterea t"–CNFIS-FDI-2017-0206

7. Membru în proiectul *Massive open online courses with videos for palliative clinical field and intercultural and multilingual medical communication* – 2014-1-RO01-KA203-002940, finanțat de Comisia Europeană prin programul KA2, membru în echipa științifică de dezvoltare și traducere a materialelor didactice și a cursului online, UMF Iasi, 2017

L. Premii, distincţii.

M. Alte realizări semnificative.

Traduceri de carte publicate la edituri CNCSIS sau internaționale:

1. A.V. Nesteruk, *Lumina de la Răsărit. Teologie, ştiinţă şi tradiţie ortodoxă răsăriteană*, Editura Patriarhiei, Editura Universității București, Editura Universității Iași, Bucureşti, 2017, co-traducător (traducere din lb. engleză)
2. *Teaching Contemporary Southeast European History*. Vol. I *The Cold War.* Vol. II *Wars, Divisions, Integration*, Neven Budak si Alexei Kalionski (eds.), Center for Democracy and Reconciliation in Southeast Europe, cu asistența Uniunii Europene, Thessaloniki 2016, membru în echipa de traducere (trad. din lb română)
3. Luce Irigaray: *Între Orient şi Occident*, Institutul European, Iaşi, 2010 (trad. din lb. franceză)
4. M. Pinçon, M. Pinçon-Charlot: *Sociologia burgheziei*, Institutul European, Iaşi, 2010 (trad. din lb. franceză)
5. P. Breton: *Convinge fără să manipulezi*, Institutul European, 2009 (trad. din lb. franceză)
6. Jean-Marie Secca, *Reprezentările sociale*, Institutul European, Iaşi, 2008 (trad. din lb. franceză)
7. Tanja Borzel, *Politicile europene de mediu, între succes şi eşec*, Institutul European, Iaşi, 2007 (trad. din lb. engleză)
8. J. Bremmer, H. Roodenburg, *O istorie culturală a umorului*, Institutul European, Iaşi, 2006 (trad. din lb. engleză)
9. I. Solcanu, *Romanian Art and Society*, traducere în colaborare cu Irina Scurtu, Editura Enciclopedică, Bucureşti, 2004 (trad. din lb. română)

Data: 19.10.2025

Nume, prenume
Dîrțu, Evagrina

Semnătura

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență
Inginerie Mecanică

Numele şi prenumele: Donțu Andrei-Ionuț

A. Teza de doctorat.

Contribuții teoretice și experimentale privind dezvoltarea unor senzori de monitorizare a masei autovehiculelor în mișcare, 2021, Universitatea Tehnică „Gheorghe Asachi" din Iași, domeniul Inginerie Mecanică, conducător de doctorat prof.univ.dr.ing. Edward Rakosi.

(inclusiv anul, universitatea, domeniul, conducătorul de doctorat)

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

Ca_1 - Andrei-Ionuț Donțu, *Sisteme de monitorizare a masei autovehiculelor aflate în mișcare în traficul urban și extraurban*, editura Performantica, Iași, ISBN 978-606-685-982-0, 2023.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local; anexa V.3

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

Dontu A.I., Ulian T., Rakosi E., Functional analysis of a new concept of WIM sensor by using Failure Mode and Effects Analysis (F.M.E.A.), Buletinul Institutului Politehnic din Iași, 2021

Dontu A.I., Ulian T., Rakosi E., Influence of a real estate construction area with mixed functions - Traffic Study, Buletinul Institutului Politehnic din Iași, 2021

Ulian T., **Dontu A.I.**, Theoretical research to improve the performance of a spark ignition engine by using zonal cooling principle, Buletinul Institutului Politehnic din Iași, 2021

Ulian T., **Dontu A.I.**, Cylinder head analysis from thermal point of view using Finite Element Method (FEM) of a spark ignition engine by using zonal cooling principle, Buletinul Institutului Politehnic din Iași, 2021

Sachelarie D., Achitei G., Munteanu A.I., Sachelarie, A.C., **Donțu A.I.**, Tcaciuc G.D., Popescu A., *Air Conditioning Systems in Vehicles: Approaches and Challenges*, *Sustainability*, 2025.

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din tara, recunoscute CNCSIS.

I. Lucrări științifice publicate în volumele conferințelor.

Achitei, G., Achitei, L., **Dontu, A.I.**, Sachelarie, A.C. (2025). Frictionless Braking Systems for Automotive Applications: State of the Art and Modern Trends. In: Chiru, A., Covaciu, D. (eds) CONAT 2024 International Congress of Automotive and Transport Engineering. CONAT 2024. Proceedings in Automotive Engineering. Springer, Cham. https://doi.org/10.1007/978-3-031-77631-1_15

Achitei G., **Dontu A.I.**, Chiriac B., Popescu A., *State-of-the-Art and Future Trends of Thermoelectric Generation Systems in Automotive Industry*, International Conference on Innovative Research Euroinvent,

In: Sandu, A.V., Vizureanu, P., Abdullah, M.M.A.B., Nabialek, M., Ghazali, C.M.R., Sandu, I. (eds) Selected Papers from ICIR EUROINVENT - 2023. ICIR EUROINVENT 2023. Springer Proceedings in Materials, vol 38. Springer, Cham. https://doi.org/10.1007/978-3-031-45964-1_1, 2023.

A.I. Dontu, *Calibrating a double aluminium bar with electrotensometric strain gauge attached*, The 10th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering, Volume 1262, Mechanics of Deformable Bodies, (2022), 012049, ACME 2022 Iași, doi: 10.1088/1757-899X/1262/1/012049, 2022.

A.I. Dontu, L. Gaiginschi, A. Sachelarie, *Automatically collecting data traffic in intersections by using video analytics software for vehicle counting*, The 10th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering, Volume 1262, Automotives. Engine and Transmission. Road Safety, (2022), 012063, ACME 2022 Iași, doi: 10.1088/1757-899X/1262/1/012063, 2022.

Ulian T.M., Rakosi E., **Dontu A.I.**, *Analysis of the cylinder head for a spark ignition engine using zonal cooling principle*, The XXXI-st SIAR International Congress of Automotive and Transport Engineering "Automotive and Integrated Transport Systems", IOP Conf. Series: Materials Science and Engineering, Volume 1220, Automotive Technology and Transportation, (2021), 012039, AITS 2021 Chișinău, Republica Moldova, doi: 10.1088/1757-899X/1220/1/012039, 2022.

Dontu A.I., Rakosi E., Barsanescu P.D., Ulian T.M., *New composite polymer sensor for vehicle weighing*, The XXXI-st SIAR International Congress of Automotive and Transport Engineering "Automotive and Integrated Transport Systems", IOP Conf. Series: Materials Science and Engineering, Volume 1220, Automotive Technology and Transportation, (2021), 012030, AITS 2021 Chișinău, Republica Moldova, doi: 10.1088/1757-899X/1220/1/012030, 2022.

Dontu A.I., Barsanescu P.D., Andrusca L., Danila N.A., *Weigh-in-motion sensors and traffic monitoring systems-Sate of the art and development trends*, The 9th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering, Volume 997, Automotives. Engine and Transmission. Road Safety, (2020), 012113, ACME 2020 Iași, doi: 10.1088/1757- 899X/997/1/012113, 2020.

Maftei A., **Dontu A.I.**, Barsanescu P.D., *Applying FMEA methodology to evaluate different shapes of car struts*, The 9th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering,Volume 997, Automotives. Engine and Transmission. Road Safety, (2020), 012120,ACME 2020 Iași, doi: 10.1088/1757-899X/997/1/012120, 2020.

Dontu A.I., Gaiginschi L., Barsanescu P.D., Rakosi E., Andrusca L., Danila N.A., *New concept of WIM system for urban traffic monitoring*, The 9th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering, Volume 997, Automotives. Engine and Transmission. Road Safety, (2020), 012114, ACME 2020 Iași, doi: 10.1088/1757-899X/997/1/012114, 2020.

Dontu A.I., Gaiginschi L., Barsanescu P.D., *Reducing the urban pollution by integrating weigh-in-motion sensors into intelligent transportation systems*. State of the art and future trends, The 7th Modern Technologies in Industrial Engineering, IOP Conf. Series: Materials Science and Engineering, Volume 591, Management of Industrial Processes, (2019), 012087, ModTech 2019 Iași, doi: 10.1088/1757-899X/591/1/012087, 2019.

Maftei A., **Dontu A.I.**, Gaiginschi L., Agape I., *Influence of speed bumps on braking distance*, International Conference on Innovative Research Euroinvent, IOP Conf. Series: Materials Science and Engineering, Volume 572, Materials & Life Science, (2019), 012098, ICIR EUROINVENT 2019 Iași, doi: 10.1088/1757- 899X/572/1/012098, 2019

Agape I., **Dontu A.I.**, Maftei A., Gaiginschi L., Barsanescu P.D., *Actual types of sensors used for weighing in motion*, International Conference on Innovative Research Euroinvent, IOP Conf. Series: Materials Science and Engineering, Volume 572, Materials & Life Science, (2019), 012102, ICIR EUROINVENT 2019 Iași, doi: 10.1088/1757-899X/572/1/012102, 2019.

Dontu A.I., Maftei A., Bârsănescu P.D., Sachelarie A.C., Budeanu B., *Method of preventing unwanted traffic in the "Tudor Vladimirescu" University Campus*, The 7th International Conference on

Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering, Volume 147, Automotives. Engine and Transmission. Road Safety, (2016), 012111, ACME 2016 Iași, doi: 10.1088/1757-899X/147/1/012111, 2016.

Maftei A., **Dontu A.I.**, Sachelarie A.C., Budeanu B., *Method of creating additional parking spaces in the "Tudor Vladimirescu" University Campus*, The 7th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering, Volume 147, Automotives. Engine and Transmission. Road Safety, (2016), 012112, ACME 2016 Iași, doi: 10.1088/1757-899X/147/1/012112, 2016.

J. Invenții.

Donțu A.I., Bârsănescu P.D., Andrușca L., Dănilă N.A., *Senzor pentru cântărirea autovehiculelor aflate în mișcare și monitorizarea traficului urban*, cerere de brevet nr. înregistrare OSIM: A/00132 din 06.03.2020.

K. Contracte de cercetare/granturi.

Contract nr. 915P/10.06.2015 - Studiu de circulație privind organizarea traficului auto și pietonal în zona adiacentă investiției S.C. United Business Center 5 S.R.L. din str. Sf. Lazăr nr. 27, Iaşi, cu luarea în considerare a influențelor asupra traficului în zona complexului Palas învecinat, valoare contract 12400 RON, 10 iunie 2015, poziția în contract: Asistent cercetare

Contract nr. 71P/21.01.2016 - Studiu de circulație privind organizarea traficului auto și pietonal în zona adiacentă investiției construire locuințe colective si împrejmuire pe teren proprietate prin desființare construcții existente din Iași, str. Toma Cozma, nr. 7b – 9, valoare contract 6960 RON, 21 ianuarie 2016, poziția în contract: Asistent cercetare

Contract nr. 2426P/05.12.2016 - Studiu de circulaţie privind organizarea traficului auto şi pietonal în zona adiacentă investiţiei construire imobil locuinte colective pe teren proprietate, din Iași, str. Păcurari, nr. 31-31a, valoare contract 5712 RON, 05 decembrie 2016, poziția în contract: Asistent cercetare

Contract nr. 19897/13.10.2017 - Studiu de circulație privind organizarea traficului auto şi pietonal în zona adiacentă investiţiei S.C. Sticknet Investment S.R.L. din Iasi, faza PUZ (construire ansamblu rezidential cu functiuni complementare privind servicii si activitati comerciale), strada Mitropolit Varlaam nr. 54, valoare contract 16065 RON, 13 octombrie 2017, poziția în contract: Asistent cercetare

Contract nr. 2329/2018 - Studiu de circulație privind organizarea traficului auto și pietonal în zona adiacentă investiției S.C. Corsini Ristorante Srl din str. Sf. Andrei din Municipiul Iaşi, valoare contract 23205 RON, 2018, poziția în contract: Asistent cercetare

Contract nr. PNIII9PFE/2018 - Dezvoltarea instituțională a TUIASI prin creșterea vizibilității și a performanței cercetării, valoare contract 2452900 RON – 2019 și 963120 RON - 2020, poziția în contract: Asistent cercetare

Contract nr. 2924/12.02.2019 - Studiu de circulație pentru organizarea traficului auto și pietonal în zona Complexului Palas, cu considerarea influențelor modificării P.U.Z. Palas Iaşi asupra traficului, valoare contract 14280 RON, 12 februarie 2019, poziția în contract: Asistent cercetare

Contract nr. 8957/2020 - Studiu de circulație privind organizarea traficului auto și pietonal în zona adiacentă investiției de construire imobil locuințe colective, spații comerciale, birouri și dotări aferente din Iaşi, strada Sfântul Andrei nr. 8 - 10, valoare contract 8600 RON, 2020, poziția în contract: Asistent cercetare

Contract nr. 18627/24.09.2020 - Studiu de circulație privind organizarea traficului auto și pietonal în zona adiacentă investiției S.C. Iulius Real Estate SRL - clădire pentru funcțiuni mixte: servicii, comerț, alimentație publică, amenajare spații exterior pentru găzduire monument al eroilor, zone de petrecere a timpului liber și parcare supraterană situată în sat Miroslava, jud. Iași, valoare contract 10710 RON, 12

octombrie 2020, poziția în contract: Asistent cercetare

ROSE AG 206SGU/NC/II/ 2019 - Creșterea deschiderii parcursului educațional către absolvire prin reducerea abandonului în primul an de studii la Facultatea de Mecanică de la Universitatea Tehnică „Gheorghe Asachi” din Iaşi (MEC4PASS), valoare contract 700515 RON, poziția în contract: 2019 - Expert coordonare studenți; 2020 - Expert instruire

ROSE AG 329SGU/PV/III/ 2020 - Școala de vară pentru elevi ”Vreau să fiu student”, valoare contract 201262,59 RON, poziția în contract: Formator

Contract nr. 2447/03.02.2021 - Studiu de circulație privind organizarea traficului auto si pietonal în zona adiacenta investiției de construire imobil locuințe colective, birouri și parcări subterane din Iași, bulevardul Carol I, nr. 26, valoare contract 10293 RON, 03 februarie 2021, poziția în contract: Asistent cercetare

Contract nr. 5040/03.2021 - Studiu de circulație privind organizarea traficului auto și pietonal în sat Valea Adâncă, comuna Miroslava, jud. Iași, valoare contract 38080 RON, Martie 2021, poziția în contract: Asistent cercetare

Contract nr. 45296/2022 - Locuințe colective cu spații comerciale la parter și parcare subterană pe teren proprietate prin demolare cădiri existente c.u. nr. 1160/2021, valoare contract 12614 RON, 2023, poziția în contract: Asistent cercetare

Contract nr. 11614/2024 - Analiza potențialelor soluții a unor sisteme de franare fara frecare utilizate in domeniul automotive - Frictionless Braking, valoare contract 33343,08 RON, 2024, poziția în contract: Asistent cercetare

Contract nr. 163/07.2024 - Studiu de circulație privind organizarea traficului auto și pietonal în satele Miroslava, Găureni, Balciu, comuna Miroslava, jud. Iași, valoare contract 41650 RON, iulie 2024, poziția în contract: Asistent cercetare

Contract nr. 22256/06.2025 - Studiu de circulație privind organizarea traficului auto și pietonal – faza PUZ – construire clădiri cu funcțiuni mixte: servicii, comerț, alimentație publică, servicii medicale, activități sportive și de recreere, stadion, parc, amenajări exterioare peisagere și rutiere, parcări supraterane situată în sat Tomești, județul Iași, valoare contract 22610 RON, iunie 2025, poziția în contract: Asistent cercetare

L. Premii, distincții.

Premii și distincții internaționale:

Premii și distincții naționale:

M. Alte realizări semnificative.

Data:
Septembrie 2025

Lista de lucrări în domeniul de studii universitare de licenţă INGINERIE MECANICĂ

Numele şi prenumele: Doroftei Ioan

I TEZA DE DOCTORAT

T1 *Cercetari teoretice si experimentale asupra unor mecanisme din structura robotilor*, Universitatea Tehnica "Gh. Asachi" Iasi, 11.06.1998.

II REALIZĂRI ÎN ACTIVITATEA DIDACTICĂ

II.1. Cărţi/cursuri (capitole teoretice redactate) publicate în edituri recunoscute (Ca):

Ca4 **I. Doroftei**, *Arhitectura şi cinematica roboţilor*, 210 pag., Editura Tehnica, Stiintifica si Didactica CERMI, Iaşi, 2002, ISBN 973-8188-39-3.

Ca3 A. Preumont, **I. Doroftei**, *Introduction à la robotique*, 228 pag., Editura Junimea, 2002, Iaşi, ISBN 973-37-0686-8.

Ca2 A. Popovici, **I. Doroftei**, C. Oprişan, G. Moldovanu, *Uniformizarea mişcării şi echilibrarea mecanismelor*, 160 pag., Editura Tehnica, Stiintifica si Didactica CERMI, Iaşi, 1998, ISBN 973-9378-42-0.

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II.3. Îndrumare publicate/culegeri de probleme (I):

I2 **I. Doroftei**, D. Leohchi, *Robotica – Indrumar de lucrari practice*, 120 pag., Ed. Tehnopres Iasi, 2008.

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Cap11 B. Hichri, L. Adouane, J. C. Fauroux, Y. Mezouar, **I. Doroftei**, *Cooperative mobile robot control architecture for lifting and transportation of any shape payload*. In Distributed Autonomous Robotic Systems, pp. 177-191. 2016, Springer, Tokyo.

Cap10 **I. Doroftei**, I. Conduraru, V. Horga, *Preliminary Ideas on the Odometry of an Omni-directional Mobile Robot*, Theodor Borangiu (ed.) Advances in Robot Design and Intelligent Control, Volume 371 of the series Advances in Intelligent Systems and Computing, Springer International Publishing, 2016, pp. 157-164.

Cap9 **I. Doroftei**, *A Hexapod Walking Micro-robot with Artificial Muscles*, E.-C. Lovasz et al. (eds.), Microactuators and Micromechanisms, Mechanisms and Machine Science 30, Springer International Publishing Switzerland 2015, pp. 99-120, DOI 10.1007/978-3-319-15862-4_9.

Cap8 Hichri, B., Adouane, L., Fauroux, J. C., Mezouar, Y., & **Doroftei, I**. (2014). *Cooperative lifting and transport by a group of mobile robots*. In Proceedings of the International Symposium on Distributed Autonomous Robotic Systems (DARS 2014). Daejeon, Korea: DARS.

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Cap6 F. Adascalitei, **I. Doroftei**, D. Lefeber, B. Vanderborght, *Conceptual Design of an Expressive Robotic Head*, I. Visa (Ed.) Mechanisms and Machine Science, Vol. 18 (The 11th IFToMM International Symposium on Science of Mechanisms and Machines Mechanisms and Machine Science), Springer International Publishing, pp.51-58, 2013.

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III.3. Articole/studii publicate în reviste de specialitate de circulaţie internaţională (Ri):

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Ri97 Cristina-Magda Cazacu, Vitalie Coadă, **Ioan Doroftei**, Stelian Alaci, “A COMPREHENSIVE REVIEW OF LOWER LIMB EXOSKELETONS”, acceptat pentru publicare in Environmental Engineering and Management Journal

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III.7. Articole/studii publicate în volumele unor manifestari stiintifice nationale (Vn):

Vn21 C. Oprişan, **I. Doroftei**, *Analiză privind comportarea dinamică a mecanismelor cu camă*, National Symposium PRASIC'02, Braşov, România, 2002, vol. "Mechanical Transmissions", pp. 311-316.

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Vn2 V. Secară, I. Cojocariu, **I. Doroftei**, *Folosirea sistemelor de stocare-manipulare pentru alimentarea strungurilor de copiat automate*, Simpozionul Naţional TEHNOMUS V, Suceava, 2-3 Iunie 1989, pag. 127-133.

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III.9. Editor de proceedings (Ed):

Ed20 Neagoe, M., **Doroftei, I.**, Lovasz, E. C. (Eds.), Advances in Mechanisms and Machine Science. SYROM 2025, Volume 198, Springer, Cham.

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Ed18 **Doroftei, I.**, & Lovasz, E. C. (Eds.). (2025). New Advances in Mechanisms, Mechanical Transmissions and Robotics: MTM & Robotics 2024 (Vol. 178). Springer Nature.

Ed17 **Ioan Doroftei** (Ed.), Advanced Robots: Design, Control and Application – 2nd Edition, 2024, ISBN: 978-3-7258-2756-5 (Hardback), ISBN: 978-3-7258-2755-8 (PDF), https://doi.org/10.3390/books978-3-7258-2755-58, MDPI, 378 pagini.

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Ed15 **I. Doroftei**, B. Kiss, Y. Baudoin, Z. Taqvi, S. Keller Fuchter (eds.), *25th International Symposium on Measurements and Control in Robotics - Proceedings of ISMCR 2023*, Mechanisms and Machine Science book series, Volume 154, 2024, ISBN: 978-3-031-51084-7, https://doi.org/10.1007/978-3-031-51085-4, Springer, Cham.

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Ed3 **I. Doroftei**, D. Leohchi, *Proceedings of The 3rd International Conference on Robotics, ROBOTICA 2006*, (38 de lucrări ştiinţifice selectate şi tipărite în limba engleză, însumând 260 pagini), Buletinul Institutului Politehnic Iasi, Tomul LII(LVI), Fascicula 7B, Sectia Constructia de Masini, 2006, ISSN 1011-2855.

Ed2 **I. Doroftei**, L. Hanganu, D. Leohchi, *Proceedings of The 2nd International Conference "Advanced Concepts in Mechanical Engineering", ACME'06*, (61 de lucrări ştiinţifice selectate şi tipărite în limba engleză, însumând 434 pagini), Buletinul Institutului Politehnic Iasi, Tomul LII(LVI), Fascicula 6B, Sectia Constructia de Masini, 2006, ISSN 1011-2855.

Ed1 **I. Doroftei**, L. Hanganu, D. Leohchi, *Proceedings of The 1st International Conference "Advanced Concepts in Mechanical Engineering", ACME'04*, (67 de lucrări ştiinţifice selectate şi tipărite în limba engleză, însumând 452 pagini), Buletinul Institutului Politehnic Iasi, Tomul L(LIV), Fascicula 6A, Sectia Constructia de Masini, 2004, ISSN 1011-2855.

IV. REALIZAREA DE PROIECTE DE CERCETARE-DEZVOLTARE PE BAZĂ DE CONTRACT/GRANT

IV.1. Contracte de cercetare-dezvoltare internationale, granturi de cercetare-dezvoltare câstigate prin competitie nationala, contracte de cercetare-dezvoltare încheiate cu institute de cercetare, companii, regii, societati comerciale (P):

P21 Grant DIGITAL-2021-EDIH-01 (Contract: 101083392, cod MySMIS 161826 - BRAINTWIN), DIGITAL INNOVATION ZONE EDIH–MANUFACTURING&SMART HEALTH for better buisness life and health in the North East Romania Region, Ioan Doroftei (EXPERT SENIOR).

P20 DIRECTOR GRANT INTERN, Denumire Program: Granturi interne TUIASI - Proiecte de inovare MEDTECH-PROOF of CONCEPT Finanţare: Proiect CNFIS-FDI-2022-0460 şi Venituri Proprii

TUIASI Număr contract de grant: 13 Perioada contractului de grant: 01.09.2022-30.11.2022 Valoare contractului de grant: 20.000 lei, Director de proiect Prof.univ.dr.ing. Ioan DOROFTEI

P19 MEMBRU ECHIPA (Director: Conf.univ.dr.ing. Nicolae Lucanu), Grant H2020 (Contract: H2020 - WIDESPREAD-05-2020 nr.952378 - BRAINTWIN), Development of a world-level neuroengineering research centre by European twinnning, 2020-2023, 271 250 Eur (TUIasi).

P18 MEMBRU ECHIPA (Director: Ioana Octaviana Topa), Grant PN-III-P2-2.1-PTE-2019-0731, *Dezvoltarea unui sistem logistic inteligent utilizând roboți mobili omnidirecționali autonomi (ROSY LOGISTIC*) – responsabil partener TUIASI S.l.dr.ing. Dosoftei Catalin, Coordonator: SELF TRUST SRL Iasi, 2020-2022, 881 000 lei.

P17 MEMBRU ECHIPA (Director: Conf.univ.dr.ing. Nicolae Lucanu), Grant H2020 (ORIZONT 2020, Axa POC-A.1-A.1.1.3-H-2016), *ACCESS 2020 - Centru Suport pentru elaborarea și implementarea proiectelor de cercetare-dezvoltare cu finanțare internațională în domeniul tehnologiilor noi și emergente*, 2020-2023, 2 999 812.74 lei.

P16 RESPONSABIL PARTENER, Grant PN-III-P1-1.2-PCCDI-2017-0652, Contract nr. 84PCCDI – 01.03.2018, cu titlul "*Tehnologii inovative pentru recuperarea avansată a materialelor din deşeuri de echipamente informatice şi de telecomunicaţii (TRADE-IT)*" – responsabil partener TUIASI, Prof.dr.ing. Doroftei Ioan, Coordonator: U.T. Cluj-Napoca (2018-2020), Beneficiar UEFISCDI.

P15 DIRECTOR DE GRANT, Grant IDEI, Cod ID_622, Contract nr. 84/01.10.2007: *Cercetari privind imbunatatirea functionarii rotilor de tip Mecanum si realizarea unui vehicul omnidirectional* (2007-2010), Beneficiar CNCSIS.

P14 MEMBRU ECHIPA (Director: Prof.dr.ing. V. Atanasiu), Grant IDEI, Cod ID_296, Contract nr. 67/01.10.2007: *Sinteza integrata optimala si prognoza preciziei miscarii in regim dinamic a servomecanismelor cu roti dintate cu utilizare in robotica si aplicatii biomecanice* (2007-2010), Beneficiar CNCSIS.

P13 MEMBRU ECHIPA (Director: Conf.dr.ing. S. Stanciu), Grant IDEI, Cod ID_616, Contract nr. 82/01.10.2007: *Noi aliaje cu memoria formei, tip beta, cu nanostructura modificata prin aliere complexa si educare termomecanica, utilizate pentru aplicatii robotice* (2007-2010), Beneficiar CNCSIS.

P12 MEMBRU ECHIPA (Director: Prof.dr.ing. V. Atanasiu), Grant CNCSIS tip A, Cod 189, Contract nr. 33GR/23.05.2007, *Dinamica mecanismelor cu roti dintate cilindrice cu includerea fenomenelor tribologice ale contactului cu rostogolire – alunecare ale dintilor in angrenare* (2007-2009), Beneficiar CNCSIS.

P11 MEMBRU ECHIPA (Responsabil UTI: S.l. dr.ing. F. Buium, Coordonator Univ. Al. I. Cuza Iasi), Grant CEEX PYTHAGORAS, Proiect finanţat de Ministerul Român al Educaţiei şi Cercetării prin grantul CEEX 133/2006 (2006-2008).

P10 RESPONSABIL UTI, Grant FP6 – IST 507728 (Coordonator: Kungliga Tehniska Hoegskolan, Suedia): European Robotics Network (EURON), 2005-2008.

P9 RESPONSABIL UTI, Grant FP6 – IST 16565 (Coordonator: Universitatea Transilvania Brasov): Virtual reality in Product design and Robotics (VEGA), 2006-2008.

P8 DIRECTOR DE GRANT, Grant CNCSIS tip A, Tema 30/2006, Tema 25/2005, Tema 22/2004, Cod 507, Contract nr. 33371/29.06.2004, *Cercetari privind optimizarea structural-cinematica, realizarea si controlul unor roboti mobili in conceptie modulara, cu aplicatii in educatie* (2004-2006), Beneficiar CNCSIS.

P7 MEMBRU ECHIPA (Director: Prof.dr.ing. V. Atanasiu), Grant CNCSIS tip A, Tema 6/2006, Tema 2/2005, Tema 2/2004 Cod 460, Contract nr. 33371/29.06.2004, *Modelarea dinamica, sinteza si controlul miscarii la transmisii cu roti dintate utilizate in servomecanisme si roboti* (2004-2006), Beneficiar CNCSIS.

P6 MEMBRU ECHIPA (Director: S.l. dr.ing. F. Buium), Grant CNCSIS tip A, Tema 48, Cod 305, Contract nr. 33371/2004, Tema 11, Cod 305, Contract nr. 33557/2003, Tema 50, Cod 192, Contract nr. 33479/2002, *Cercetări privind creşterea performanţelor dinamice ale maşinilor automate şi roboţilor industriali, pe baza optimizării preciziei constructive a mecanismelor componente* (2002-2004), Beneficiar CNCSIS.

P5 RESPONSABIL WG3, Contract cercetare HUDEM'97 (1997, finantat de Ministerul Apararii Nationale din Belgia: Robotized Humanitarian Demining), 1997-2002, Universatea Libera din Bruxelles si Academia Militara Regala Bruxelles.

P4 MEMBRU ECHIPA, CEE / ESPRIT Basic research working group n°8474 *LEGRO* on walking machines - membru in echipa Universitatii Libere din Bruxelles (prime contractor : TECNOSPAZIO S.p.A.)

P3 MEMBRU ECHIPA (Director: Prof.dr.ing. V. Merticaru), Grant MCT, *Optimizarea sintezei schemelor cinematice pentru creşterea randamentului mecanismelor din construcţia utilajelor de forjare* (1995-1997), Beneficiar MCT.

P2 DIRECTOR GRANT, Contract nr. 15 498/22.12.1993: *Optimizarea soluţiilor de proiectare a unor subansamble şi accesorii pentru maşini-unelte.*, Beneficiar CUG Iasi.

P1 MEMBRU ECHIPA (Director: Prof.dr.ing. V. Merticaru), Contract nr. 1559/2374-1991: *Cercetări privind metode de optimizare a mecanismelor* (1991-1994), Beneficiar MIS.

V. GRANTURI PENTRU ORGANIZARE DE MANIFESTĂRI ȘTIINȚIFICE SAU ȘCOLI DE VARĂ (G)

G1. GRANT SCOALA DE VARA, PROGRAM IDEI_SCOLI DE STUDII AVANSATE (SSA)_COMPETITIA 2012, PN-II-ID-SSA-2012-2-006, SUMMER SCHOOL ON HUMAN - MACHINE SYSTEMS, CYBORGS AND ENHANCING DEVICES, HUMASCEND, 2012, 70 250 lei.

G2. Contract de finanțare a manifestărilor științifice și evenimentelor asociate (The 12th IFToMM International Symposium on Science of Mechanisms and Machines - SYROM'2017), Nr. 55M/31.10.2017, Ministerul Cercetării și Inovării.

G3. Contract de finanțare a manifestărilor științifice și evenimentelor asociate (The 8th International Conference on Advanced Concepts in Mechanical Engineering - ACME 2018), Nr. 22M/06.06.2018, Ministerul Cercetării și Inovării.

Data:

Prof. univ. dr.ing. Ioan DOROFTEI

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Ermolai Vasile

A. Teza de doctorat.

Contribuții teoretice și experimentale privind obținerea pieselor multimaterial prin Fabricație aditivă cu Filament Fuzibil (FFF)

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

De completat

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Mihalache, M. A., Merticaru, V., **Ermolai, V.,** Andrusca, L., Cimpoesu, N., & Negoescu, F. (2025). A Proposed System for Temperature Measurement During Tensile Testing. Sensors, 25(17), 5494. (Q1)

2. Mihalache, A. M., Merticaru, V., **Ermolai, V.**, Dodun, O., Nagiț, G., Hrițuc, A., & Slătineanu, L. (2025). Friction in Cylindrical Joints. Lubricants, 13(2), 66 (Q2).

3 **Ermolai, V.**, Sover, A., Boca, M. A., Mihalache, A. M., Irimia, A. I., Hrițuc, A., & Stavarache, R. C. (2024). Mechanical behavior of macroscopic interfaces for 3D printed multi-material samples made of dissimilar materials. Mechanics & Industry, 25, 24. (Q3)

4 Hrițuc, A., **Ermolai, V.**, Mihalache, A. M., Andrușcă, L., Dodun, O., Nagîț, G., & Slătineanu, L. (2024). Compressive Behavior of Some Balls Manufactured by 3D Printing from Ceramic–Polymer Composite Materials. Micromachines, 15(1), 150. (Q2)

5 **Ermolai, V.,** Sover, A., Nagîț, G., Boca, M. A., & Irimia, A. I. (2023). Influence of Fused Filament Fabrication Raster Parameters over the Top Surface Topography. Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, And Engineering, 66(5). (Q4)

6 Marius-Andrei, Boca., Sover, A., Slătineanu, L., & **Ermolai, V**. (2023). Characterization of Printing Conditions of Powder-reinforced Resin by LCD Technology Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, And Engineering, 66(5). (Q4)

7 Rădulescu, B., Mihalache, A. M., Păduraru, E., Hriţuc, A., Rădulescu, M. C., Slătineanu, L., & **Ermolai, V**. (2023). Tensile Behavior of Chain Links Made of Polymeric Materials Manufactured by 3D Printing. Polymers, 15(15), 3178. (Q1)

8 **Ermolai, V.**, Sover, A., Nagîț, G., & Irimia, A. I. (2023). Shape recovery properties of PET-based 3D printed samples. Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, and Engineering, 65(4S). (Q4)

9 Mihalache, A. M., **Ermolai, V.**, Sover, A., Nagîț, G., Boca, M. A., Slătineanu, L., & Rîpanu, M. I. (2022). Tensile behavior of joints of strip ends made of polymeric materials. Polymers, 14(22), 4990. (Q1)

10 **Ermolai, V.**, Sover, A., & Nagit, G. (2022). Strength of Contact Geometry for Multi- material 3D-Printed Samples. Macromolecular Symposia. Vol. 404, No. 1, p.2100320. (Q4)

11 Mihalache, A., Hriţuc, A., Slătineanu, L., Nagîț, G., Dodun, O., **Ermolai, V**., Panaite, E. (2022). The Behavior of a 3D Printed Panel under Thermal Stress. Macromolecular Symposia. Vol. 404, No. 1, p. 2100332. (Q4)

12 Sover, A., **Ermolai, V**., Raichur, A. M., Ciobanu, R., Aradoaei, M., & Lucanu, N. (2021). Feasibility of producing core-shell filaments through fused filament fabrication. Polymers, 13(23), 4253. (Q1)

13 Hrițuc, A., Slătineanu, L., Dodun, O., Nagîț, G., Coteață, M., Boca, M. A., **Ermolai, V.** (2021). Sustainable Manufacture of Bearing Bushing Parts. Sustainability, 13(19), 10777. (Q1)

14 Condrea, I., Oroian, B., Botezatu, C., Marius, Boca., Mihaela, Etcu, **Ermolai, V**., Galmadi, G. (2020). Use of Some Triz Principles in The Case of Designing Research Equipment. Acta Technica Napocensis-Series: Applied Mathematics, Mechanics, and Engineering, 63(3s). (Q4)

15 Savu, C. F., **Ermolai, V.,** Guriță, C. I., Cazacu, V. C., & Taormina, G. (2017). Behavior under contact loading of surface asperities obtained by turning. In MATEC Web of Conferences (Vol. 112, p. 01017). EDP Sciences. (Q4)

G. Lucrări ştiinţifice publicate în reviste din străinătate.

Sover, A., & **Ermolai, V.** (2024). MULTI-MATERIAL SHAPE MEMORY POLYMERS: DESIGN CONSIDERATIONS AND IMPLEMENTATION. International Journal, (15), 7.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1 Mititelu, N. R., Rîpanu, M. I., & **Ermolai, V**. (2025). Artificial intelligence in structural crack detection using image processing techniques. In Journal of Physics: Conference Series (Vol. 3071, No. 1, p. 012013). IOP Publishing.

2 **Ermolai, V**., Sover, A., Iimia, A. I., Mititelu, N. R., Ripanu, M. I., & Ciaun, G. (2025, August). A New Cube-based Topological Interlocking Element. In Journal of Physics: Conference Series (Vol. 3071, No. 1, p. 012024). IOP Publishing.

3 **Ermolai, V**., Sover, A., & Irimia, A. I. (2025, June). Improving Surface Finish of FFF Printed Parts: The Role of Scarf Seam Parameters. In International Conference Innovation in Engineering (pp. 31-42). Cham: Springer Nature Switzerland.

4 Hrițuc, A., Crăciun, E., Andrușcă, L., Mihalache, A. M., Coteață, M., **Ermolai, V**., & Slătineanu, L. (2025, June). Buckling Behavior Of Tubular Parts Made of Polylactic Acid. In Macromolecular Symposia (Vol. 414, No. 3, p. 70054).

5 Irimia, A. I., **Ermolai, V.,** & Nagîț, G. (2025). Study on the tightness of parts manufactured by FDM.

6 Pohontu, A., & **Ermolai, V**. (2024). Artificial Intelligence in Maritime Domain Awareness Applications: Trends and Prospects. In Digital Transformation: Exploring the V2 Impact of Digital Transformation on Organizational Processes (pp. 193-204). Cham: Springer Nature Switzerland.

7 **Ermolai, V.**, Sover, A., & Nagîț, G. (2024, March). Influence of contact interface design over the bond for-mation of 3D printed parts. In 5th International Conference. Business Meets Technology. Editorial Universitat Politècnica de València.

8 Irimia, A. I., **Ermolai, V.**, Stavarache, R., & Nagîț, G. (2024). Brief overview over Fused Filament Fabrication infillpParameters.

9 **Ermolai, V.**, Rîpanu, M.I., Merticaru V., Irimia, A.I., Mihalache, M.A., Sover, A., Mititelu, R.N. & Pișta. I.M., XYZ calibration cube - a misleading tool for achieving print accuracy. Materials Research Proceedings, 46.

10 Irimia, A.I., **Ermolai, V**., Nagîț, G., Mihalache, M.A., Rîpanu, M.I. & Stavarache, R.C., Addressing surface quality via seam alignment parametrization. Materials Research Proceedings, 46.

11 Merticaru, V., Mihalache, M.A., Rîpanu, M.I., Merticaru, E., Rusu, B., **Ermolai, V.**, Axiomatic design theory as a design thinking tool for mastering industrial process variables inventorying, Materials Research Proceedings, Vol. 46, pp 370-384, 2024

12 **Ermolai, V.,** & Sover, A. (2023). Multi-material 3D Printed Interfaces. Influencing Factors and Design Considerations. In International Conference on Reliable Systems Engineering (pp. 135-146). Cham: Springer Nature Switzerland.

13 **Ermolai, V.**, Sover, A., & Lang, A. (2023). Characterisation of the shape memory effect of PET polymer by FFF 3D printing. Materials Research Proceedings, 28.

14 **Ermolai, V.**, Sover, A., & Nagît, G. (2023). Design and testing of multi-material flexure hinges for Fused Filament Fabrication. In 4th Int. Conf. Business Meets Technology 2022 (pp. 1-11). Editorial Universitat Politècnica de València.

15 Eva, S. C., Sover, A., & **Ermolai, V.** (2023). The impact of the G-code flavour selection in FFF. In 4th International Conference Business Meets Technology 2022 (pp. 54-62). Editorial Universitat Politècnica de València.

V16 **Ermolai, V.**, Sover, A., & Nagîţ, G. (2022). Design and physical validation of a non-planar interlocking element for tubular structures. In IOP Conference Series: Materials Science and Engineering (Vol. 1235, No. 1, p. 012003). IOP Publishing.

17 **Ermolai, V.**, Sover, A., & Nagîţ, G. (2022, March). Influence of contact geometry over the filament bond of polylactic acid blends. In IOP Conference Series: Materials Science and Engineering (Vol. 1235, No. 1, p. 012004). IOP Publishing.

18 **Ermolai, V.**, Sover, A., & Nagîţ, G. (2022). Influence of bond interface over the lap-shear performance of 3D printed multi-material samples. In MATEC Web of Conferences (Vol. 368, p. 01005). EDP Sciences.

19 **Ermolai, V.**, Nagîţ, G., Sover, A., & Surugiu, I. (2022). Design and Testing of Multi-Material Shape-Changing Flexure Hinges for Fused Filament Fabrication. Bulletin of the Polytechnic Institute of Iași. Machine constructions Section, 68(3), 19-30.

20 **Ermolai, V.**, Sover, A., Boca, M. A., Hriţuc, A., Slătineanu, L., Nagîţ, G., Stavarache, R. C. (2022). Mechanical behaviour of macroscopic interfaces for 3D printed multi-material samples. In MATEC Web of Conferences (Vol. 368, p. 01004). EDP Sciences.

V21 **Ermolai, V.**, Irimia, A. I. (2021). Development of Fused Filament Fabrication desktop 3D printer enclosure using axiomatic design principles. In IOP Conference Series: Materials Science and Engineering (Vol. 1174, No. 1, p. 012017). IOP Publishing.

22 Cosmin, R., **Ermolai, V.**, Irimia, A., & Etcu, M. (2021). Using axiomatic design principles for the development of a device to measure the positioning error of an industrial robot. In IOP Conference Series: Materials Science and Engineering (Vol. 1174, No. 1, p. 012018). IOP Publishing.

23 Stavarache, R. C., **Ermolai, V.**, Ripanu, M. I., Andruşcă, L., Mareş, M., & Dodun, O. (2021). Infill pattern optimization of fused filament fabrication samples for enhanced mechanical properties. Scientific Bulletin Series C: Fascicle Mechanics, Tribology, Machine Manufacturing Technology, 35, 80-85.

24 **Ermolai, V.**, & Irimia, A. I. Influence of nozzle parameters in 3D printing under the manufacturing time. Bulletin of the Polytechnic Institute of Iași. Machine constructions Section, 67(3), 63-72.

25 Surugiu, I., Hriţuc, A., **Ermolai, V.**, & Boca, M. A. (2022). Observatii privind realizarea unor piese din oţeluri de damasc. In Conferinţa tehnico-ştiinţifică a studenţilor, masteranzilor şi doctoranzilor (Vol. 1, pp. 664-668).

J. Invenţii.

K. Contracte de cercetare.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
20.10.25

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele și prenumele: **FRANKE (MISINCIUC) BIANCA-IULIANA**

A. Teza de doctorat.

Idiomatic expressions in English, German, Spanish, Portuguese and Romanian: A comparative study – teză de doctorat în domeniul Filologie, modulul Lingvistic, susţinută în luna mai 2018 la Universitatea „Al. I. Cuza" din Iaşi, sub coordonarea prof. univ. dr. Ştefan Avădanei, confirmată în baza Ordinului Ministrului Educaţiei Naţionale nr. 4193 din data de 27.07.2018, cu distincţia „*Summa cum Laude*", publicată în anul 2020 la Editura Performantica Iaşi acreditată CNCSIS, ISBN 978-606-685-716-1.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

Bianca-Iuliana Misinciuc, *Idiomatic expressions in English, German, Spanish, Portuguese and Romanian: A comparative study*, Performantica, Iaşi, 2020, ISBN 978-606-685-716-1.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Bianca-Iuliana Franke (Misinciuc), *Conceptualization, symbolism and metonymy as mechanisms of metaphorical meaning in idiomatic expressions: Interlinguistic comparison,* Buletinul Institutului Politehnic din Iaşi, Volumul 70 (74), nr. 3-4, Secţia Ştiinţe Socio-umane, 2024, ISSN 1224-5860, pp. 21-34, baza de date CEEOL.

Bianca-Iuliana Franke (Misinciuc), *Unique words and the cultural concepts behind them: discovering the world through language,* Les Cahiers Linguatek, Volumul 7, nr. 13-14, 2023, ISSN 2601-0313, ISSN-L 2559-7752, pp. 190-196, baze de date FABULA, CEEOL.

Bianca-Iuliana Misinciuc, *An experimental analysis of metaphorical thinking in relation to idiomatic expressions,* Philobiblon, Volumul XXIV, nr. 2, 2019, ISSN 2247-8442, ISSN-L 1224-7448, pp. 265-275, baze de date Clarivate Analytics, ERIHPLUS, Scopus, EBSCOhost, WorldCat.

Bianca-Iuliana Misinciuc, *Symbols and concepts as instruments of metaphorical meaning in idiomatic expressions: the figurative value of honey, fire and sand in different languages,* Buletinul Institutului Politehnic din Iaşi, Volumul 65 (69), nr. 3-4, Secţia Ştiinţe Socio-umane, 2019, ISSN 2501-8760, pp. 75-81, baza de date CEEOL.

Bianca-Iuliana Misinciuc, *The reflection of spatial reality in the creation, understanding and use of idioms,* Les Cahiers Linguatek Volume 3, Nos. 5/6, Espace & Langage, 2019, ISSN 2559-7752, ISSN-L 2559-7752, pp. 147-158, baze de date FABULA, CEEOL.

Bianca-Iuliana Misinciuc, *Thematic metaphors in idiomatic expressions – illustrated with examples from English, German, Spanish, Portuguese and Romanian*, Buletinul Institutului Politehnic din Iaşi,

Volumul 64 (68), nr. 1-2, Secţia Ştiinţe Socio-umane, 2018, ISSN 2501-8760, pp. 27-36, baza de date CEEOL.

Bianca-luliana Misinciuc, *Metaphorical views on death in idioms – A comparative analysis of expressions from German, English, Spanish, Portuguese and Romanian*, Les Cahiers Linguatek No. 3/4, L'Ambiguïté, 2018, ISSN 2559-7752, ISSN-L 2559-7752, pp. 439-446, baza de date FABULA.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

Bianca-luliana Franke (Misinciuc), *The miserable empath. About the dark side of emotional intelligence*, 12th International Conference: Synergies in Communication (SiC), Section 6: Multidisciplinary Approaches to Human Experience, Editura ASE, ISSN 2668-9375, Bucureşti, 2025.

Bianca-luliana Franke (Misinciuc), *The curse of intelligence: The lone genius and the mad scientist,* Mad Science International Interdisciplinary Conference. Innovation, Genius, Madness, Les Cahiers Linguatek 15-16, Editura Politehnium, Iaşi, 2024.

Bianca-luliana Franke (Misinciuc), *Natural mechanisms, pedagogical techniques and potential challenges in the process of multilingual language acquisition in a young child*, Values, systems, education. Challenges and Perspectives, International Conference „Education in the Perspective of Values", XVth edition, Editura Eikon, e-ISBN 978-606-49-1052-3, Bucureşti, 2023.

Bianca-luliana Franke (Misinciuc), *Humour in variants of idiomatic expressions*, Means and meanings of communication, Section: Language and Communication, The Proceedings of the International Conference „Communication, Context, Interdisciplinarity", Volume no. 7, Editura Arhipelag XXI Press, ISBN 978-606-93691-9-7, Tîrgu Mureş, 2022.

Bianca-luliana Misinciuc, *A comparative approach to smart features of higher education institutions: UNI Konstanz and UAIC Iaşi*, "Smart Cities": Oraşul Inteligent – Shaping the Cities of Tomorrow – Proceedings of the Smart Cities Conference, 7th Edition, 2019, Editura Universul Academic, ISBN 978-606-9062-44-9, Editura Universitară, ISBN 978-606-28-1118-1, ISSN 2501-1677, ISSN-L 2501-1677, Bucureşti, 2020.

J. Invenţii.

K. Contracte de cercetare.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
15.10.2025

Lista de lucrări în domeniul de studii universitare de licenţă INGINERIE MECANICĂ

Numele şi prenumele: Goanță Viorel

A. Teza de doctorat.
Titlul tezei: Contribuţii privind studiul materialelor ceramice tehnice din punct de vedere al rezistentei mecanice / Iasi : Univ. Tehnica, 1998. -Rectorat UT Iasi Ado UTI/R 1ex; 358689

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Testing of composite materials used in wind turbinee blades, Moraraș Ciprian, Goanță Viorel, Generis Publishing, 2025, ISBN 979-8-89966-090-0

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. „Rezistenţa materialelor - noţiuni fundamentale", Viorel GOANȚĂ, Ed. Gh. Asachi, Iasi, 2001, ISBN 973-8050-97-9"
2. „Materiale ceramice tehnice", Viorel GOANȚĂ. Ed. Performantica, Iaşi, 2003, ISBN 973-7994-15-9
3. „Tensiuni remanente", Paul-Doru BĂRSĂNESCU, Viorel GOANȚĂ, s.a, , Ed. Gh. Asachi, Iasi, 2003, ISBN 973-8292-91-3
4. „Mecanica ruperii", VIOREL GOANTA, Editura Tehnopress, Iaşi, 2006, ISBN 973-702-299-8
5. „Expertize în Ingineria mecanică", Viorel GOANȚĂ, , Valerian Palihovici Ed. Tehnopress, Iaşi, 2006, ISBN 973-702-298-x
6. „Tensiuni remanente din îmbinări sudate", Sergiu GHERASIM, Viorel GOANȚĂ, s.a, Ed. Tehnopress, Iaşi, 2010, ISBN 978-973-702-813-64.
7. „Metode moderne de detectare a defectelor", Gh. Amza, V. GOANȚĂ, s.a, Editura Academiei Oamenilor de Stiinţă din România, Bucureşti, 2011, ISBN 978-606-8371-47-4
8. „Materiale compozito-ceramice", Viorel GOANȚĂ, Ed. Tehnopress, Iaşi, 2011, ISBN 978-973-702-825-9
9. ."Mecanica ruperii", Viorel GOANȚĂ – Indrumar de laborator- Editura Tehnopress Iasi 2017, ISBN 978-606-687-326-0
10. "Analiza riscului şi Expertize în Inginerie", Viorel GOANȚĂ,- Editura Tehnopress Iasi 2017, ISBN 978-606-687-298-0
11. "Analiza riscului şi Expertize Tehnice în Ingineria Mecanică", Viorel GOANȚĂ – LABORATOR- Editura Tehnopress Iasi 2017, ISBN 978-606-687-299-7
12. . Oboseala materialelor, Viorel Goanță, Editura Universității Tehnice „Gheorghe Asachi" din Iași, Iasi, 2023, ISBN: 978-973-621-526-1
13. . Oboseala materialelor – indrumar de laborator – ,Viorel Goanță, Editura Universității Tehnice „Gheorghe Asachi" din Iași, Iasi, 2023, ISBN: 978-973-621-525-4

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Oboseală şi mecanica ruperii" – LABORATOR – varianta electronică-2020
2. Oboseală şi mecanica ruperii – CURS – varianta electronică - 2020
3. "Mecanica ruperii" – LABORATOR- – varianta electronică-2019
4. "Analiza riscului şi Expertize Tehnice în Ingineria Mecanică" – LABORATOR – varianta electronică-2018
5. "Defectoscopie" – LABORATOR – varianta electronică-2021

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale

1. ELENA-ROXANA COSAU[1] and VIOREL GOANTA[1,*] , STUDY ON TEMPERATURE SHOCK TESTS PERFORMED ON CHARGING CABLES FOR ELECTRIC VEHICLES, BULETINUL INSTITUTULUI

*Corresponding author; *e-mail*: viorel.goanta@academic.tuiasi.ro

POLITEHNIC DIN IAŞI Publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi Volumul 71 (75), Numărul 4, 2025 Secţia CONSTRUCŢII DE MAŞINI, DOI:10.2478/bipcm-2025-0033

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26.	OPROTEH-Bacău, 2009, VIII-th International Conference "Constructive and Technological Design optimization in the machine building Field" - OPROTECH-2009, MĂSURAREA TENACITĂŢII LA FISURARE ÎN CONDUCTE PE BAZA INTEGRALEI J, Conf. dr. ing. Viorel GOANŢĂ Drd. Constantin BÎTCĂ
	- LA CONFERINŢE ŞI CONGRESE NAŢIONALE
1.	ARMR 2018, Some issues on the mechanical properties degradation in operating railroad tracks, Experimental determination of fracture toughness values for the three material batches, Viorel Goanţă, Marian Mareş, Igor Blanari
2.	ARMR 2018, Some issues on the mechanical properties degradation in operating railroad tracks, Experimental determination of fatigue lifetime duration for the three material batches, Viorel Goanţă, Marian Mareş
3.	ARMR 2017, FRACTURE TOUGHNESS EVALUATION OF A Ni_2MnGa ALLOY THROUGH MICRO INDENTATION UNDER MAGNETO-MECHANICAL LOADING, GOANŢĂ Viorel, Prof. Dr. Eng.Department of Mechanical Engineering, Mechatronics and Robotics, „Gheorghe Asachi" Technical University of Iaşi, Romania, CIOCANEL Constantin, Assoc. Prof. Dr. Eng. Department of Mechanical Engineering, Northern Arizona University, AZ, USA
4.	The use of two experimental methods for determining the variation of the crack length in relation to the number of duty cyclesViorel Goanţă, Marian Mareş, Bogdan Leiţoiu Universitatea Tehnică "Gheorghe Asachi", Bd. Mangeron, 57, Iaşi, ARMR 2014
5.	FEA study on the microparticle addition for autonomic healing of some polymer composites Viorel Goanţă, Mareş MARIAN ARMR 2015
6.	The influence of accidentally appeared stress raisers, on the components lifetime duration, Viorel GOANŢĂ, Marian MAREŞ ARMR 2016
7.	The stress raisers effects on the materials mechanical characteristics,analyzed by local microhardness measurements, Viorel GOANŢĂ, Marian MAREŞ, ARMR 2016

K. Invenţii.

	- descrieri brevetate	Brevet
	1. Dispozitiv pentru înregistrarea tensiunilor și deformațiilor, nr. 127771/26.02.2016, Autori: Forna Norina Consuela, Andronache Monica, Goanță Viorel 2. Metodă de evaluare a nivelului deformației plastice a unei piese, nr. 127437/28.04.2017, Autor: Goanță Viorel 3. Metodă pentru determinarea caracteristicilor elastice pentru materialele compozite polimerice armate cu țesătură, nr. 126965/30.08.2018, Autori: Goanță Viorel, Leițoiu Bogdan 4. Dispozitiv pentru încercarea la oboseală prin răsucire cu acționare pulsatorie, nr. 132447/30.03.2022, Autor: Goanță Viorel 5. Dispozitiv pentru testarea la solicitarea de tracțiune și torsiune cu o mașină de testare ciclică, nr. 132884/29.07.2022, Autor: Goanță Viorel 6. Extensometru pentru determinarea deformațiilor de tracțiune și torsiune ale unor epruvete, nr. 133851/28.02.2023, Autori: Goanță Viorel, Leițoiu Bogdan 7. Stand la solicitarea compusă de tracțiune- torsiune, 133445/2024, Autor: Goanță Viorel	DA

L. Contracte de cercetare/granturi.

director

Nr.crt	Titlul proiectului	Număr contract/tip	Valoare instituție	Perioada / Anul
1.	*1. Proiect International "Program in Materials, Additive and Manufacturing, and Multiscale materials Engineering", W911NF2020024/2020 (subcontract 25212/2020 – 504141/2020), Valoare TUIASI: 100000 USD, 9 membri. Valoare echipamente: 45000 Euro; Cota echipamente Goanță: 20%. P=(0.2*45000/100)*15=1350*	*", W911NF2020024/2020 (subcontract 25212/2020 – 504141/2020)*	*Valoare TUIASI: 100000 USD,*	2020-2023
2.	*1. Project Component 1 Ortomag- "Aliaje biodegradabile pe bază de Mg pentru implanturi ortopedice - ORTOMAG" - PN-III-P1-1.2-PCCDI-2017-0239, 60PCCDI/2018, Valoare Proiect TUIASI:445000 Ron, 14 membri. . Valoare echipamente:285000 ron; Cota echipamente Goanță: 10%. P=(0.1*285000/4.7/100)*10)=946.8*	*- PN-III-P1-1.2-PCCDI-2017-0239, 60PCCDI/2018,*	118620.00 + 113476.50 + 182628.00+30275.50=338242	2018-2021
3.	Prelucrări mecanice axe hidraulice	Ctr.***/2020	3800	2020
4.	Incercari pompe injective, DELPHI Iaşi	Ctr. 23375/2018	5347,14	2018
5.	Incercari esantioane conducte	Ctr. 26735/2018	2368,90	2018
6.	Expertiză metalurgică sină semibună tip 65" cod CPV: 71319000-7 – CFR Iasi	219/10.05.2016	63.295 lei/40000	2016
7.	Cercetari aplicative in vederea elaborarii si studiului materialelor compozito-ceramice tehnice utilizate in tehnica de varf PN II, modul IV (IDEI) CNCSIS	Grant tip IDEI Cod CNCSIS ID_597, Contract nr. 82/01.10.2007	736560 RON	2007-2010
8.	Servicii de consultanţă pentru activitatea de dezvoltare experimentală. Elaborare procedură de testare şi validare internă pentru prototipul Parcări metalice modulare S.C. SimProMet S.R.L.	Contract 840P/2014	20500 RON	2014
9.	Calcul dispozitiv susţinere S.C. Cablero S.R.L.	Contract 913P/06.07.2001	50 RON	2001
10.	Determinarea rezistenţei la fisurare şi a tensiunilor remanente pentru materialul ceramic CER 110	Contract 7534/28.05.1996	240 RON	1996

	„Electroceramica” Turda			

Membru colectiv

Nr.crt	Titlul proiectului	Număr contract/tip	Valoare instituţie	Perioada/ Anul
1	„Monitorizarea integritatii structurale si autoreparareа palelor de turbine eoliene şi a altor structuri din compozite inteligente”, (STHEMOWTB)	PN II parteneriate, nr.59 /2014	75036 lei/40000	2014-2017
2	SP1-Cooperation/ Collaborative project/ Large scale integrating project, ASSET – ROAD, ASSET Advanced Safety and Driver	FP7 No. 217643, SCP7-GA-2008-217643	128.160 Euro /40000 (partea româna -UTI)	2008-2011
3	„Reţea Naţională de Formare CONtinuă a CadrelOR Didactice din Învăţământul Preuniversitar Profesional şi Tehnic – CONCORD”	POSDRU/87/1.3/S/61397	1892777 lei /200000 (UTI)	2007–2013
4	Tip Support Action pentru FP-7 ASSET-Road	308EU/27.04.2009	126130 Lei/200000	2009-2011
5	Sistem de management prin procedee neinvazive a caracteristicilor fizico-mecanice, fiabilitatii si degradarii materialelor compozite, tehnologii embedded pentru monitorizare in timpul exploatarii; aplicatii la compozite lignocelulozice, structuri usoare din materiale compozite, compozite nanostructurate	Colab CEEX 1590/27.07.2006	187000 Lei /200000 (UTI)	2006-2008
6	Monitorizarea, diagnoza si repararea structurilor complexe din materiale avansate	Colab PNII 71016/18.09.2007	55400 Lei/200000 (UTI)	2007-2010
7	Sisteme de detectie bazate pe arii de senzori electromagnetici pentru caracterizarea solului si recunosterea obiectelor ingropate	Grant 32134/2008	30.000 RON/200000 pt. UTI	2008-2011
8	Cercetari privind optimizarea organelor de lucru pentru pregatirea patului germinativ in concordanta cu cerintele unei agriculturi durabile	Grant tip PC, acronim SOILCONS, Contract nr. 52107/01/10/2008	39730 lei/200000	2008-2011

9	Evaluarea tenacităţii la fisurare, a vitezei de fisurare şi a tensiunilor remanente din conductele magistrale de abur viu provenind de la cazanul nr. 1 de 420t/h din CET Giurgiu care vor fi montate la S.C. TERMICA S.A. Suceava.	Contract nr. 7907p /06.11.2007	30000 lei/40000	2007
10	Sisteme avansate de evaluare nedescriptibile a fenomenelor de oboseala mecanica si /sau termica a structurilor mecanice complexe.	390 (1998P)/12.07.2002,	38960000 ROL =3896 RON /200000	2002-2004
11	Modelarea degradărilor de oboseală a oţelurilor austenitice utilizate în centrale nucleare şi evaluarea lor nedestructivă prin procedee electromagnetice şi de ultrasunete.	Grant 33371/2004	150000000 ROL =15000 RON /200000	2004
		Grant 34664/2005	150000000 ROL =15000 RON /200000	2005
12	Cercetări privind creşterea preciziei şi lărgirea domeniului de măsurare la determinarea tensiunilor remanente în materiale metalice şi nemetalice.	Grant 7004/2001 Tip C, ANSTI cod B7	35600000 ROL =3560 RON /200000	2001
		Grant 33479/2002 Tip A, CNCSIS tema 87	500000000 ROL =50000 RON /200000	2002

M. Premii, distincţii.

1. Premiu Contract FP 5 – premiu pe cercetare UTI 2014
2. PN-III-P1-1.1- PRECBVT-2018- 1453 Viorel GOANTA UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" IAŞI Metoda pentru determinarea caracteristicilor elastice pentru materiale compozite polimerice armate cu tesatura, Subprogram 1.1 - Resurse Umane - Premierea rezultatelor cercetarii - brevete, Competitia 2018
3. PN-III-P1-1.1- PRECBVT-2018- 1323 Metoda de evaluare a deformatiei plastice a unei piese 2017 Universitatea Tehnică "Gheorghe Asachi" Iaşi, Viorel Goanta, Subprogram 1.1 - Resurse Umane - Premierea rezultatelor cercetarii - brevete, Competitia 2018 Rezultate evaluare_Lista 4 - brevete acordate in anul 2017 - 03.08.2018

N. Alte realizări semnificative.

Data, 19 octombrie 2025

Prof. univ. ab. dr. ing. Viorel Goanţă

LISTA DE LUCRĂRI
în domeniul de studii universitare de licenţă in domeniul
INGINERIE MECANICĂ

Numele şi prenumele: GRIGORAȘ Ștefan

A. Teza de doctorat

Contributii cu privire la posibilitatile de reducere a consumului de rulmenti prin elaborarea unor metode de reconditionare se de reutilizare a acestora
- titlu acordat de Institutul Politehnic "Gh. Asachi" Iaşi, (cond. şt. Prof.univ.dr.ing. Mihai GAFITANU)

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

1. "TRANSMISII PLANETARE, PRECESIONALE ŞI ARMONICE"
Autori: I. Bostan, V. Dulgheru, Şt. Grigoraş
Editura Tehnică Bucureşti- Editura "Tehnica" Chişinău,1997, Bucureşti
ISBN: 973-31-1069-8; ISBN:9975-910-20-3.

2. "INTRODUCERE MATEMATICĂ ÎN STUDIUL FIABILITĂŢII SISTEMELOR"
Autori: V. Sava, Şt. Grigoraş, Fl. Tudose-Sandu Ville, M. Tiron
Editura "TEHNICA" Chişinău, 1997
ISBN-9975-910-27-0.

3. "BAZELE PROIECTĂRII ORGANELOR DE MAŞINI" –vol. I
Autori: Şt. Grigoraş, C. Ştirbu, R. Grigorescu, Fl. Tudose-Sandu Ville
Editura "TEHNICA-INFO" Chişinău, 2000
ISBN-9975-910-93-9.

4. "BAZELE PROIECTĂRII ORGANELOR DE MAŞINI" –vol. II
Autori: Şt. Grigoraş, C. Ştirbu, R. Grigorescu, Fl. Tudose-Sandu Ville
Editura "TEHNICA-INFO" Chişinău, 2000
ISBN-9975-910-93-9.

5. " ANALIZA FIABILITĂŢII"
Ştefan Grigoraş
Editura "TEHNICA-INFO" Chişinău, 2002
ISBN-9975-63-072-3

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. „ INGINERIA FIABILITĂŢII" – vol. I
Ştefan Grigoraş
Editura „JUNIMEA" Iaşi, 2003
ISBN-973-37-0836-4

2. „ECOMECA" – 411 pag.
Ştefan Grigoraş, s.a(colectiv national – 16 autori) – contributia proprie: 84 pag.
Editura Universitatii Transilvania, Brasov, 2006
ISBN – (10)973-635-839-9 – (13)978-973-635-839-5

3. „ INGINERIA FIABILITĂŢII” –vol II
Ştefan Grigoraş
Editura „JUNIMEA” Iaşi, 2007
ISBN-978-973-1230-5

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

A. Carti:

1. “ORGANE DE MAŞINI”
L. Hostiuc, Şt. Grigoraş, Gh. Bariz
Rotaprint Universitatea Tehnică Iaşi, 1992,34-145.

B. *Îndrumare de proiect şi laborator*:

1. “CONTROLUL VIBRAŢIILOR ŞI ZGOMOTULUI” - Îndrumar de laborator
M. Gafiţanu, Sp. Creţu, B. Drăgan, Şt. Grigoraş, I. Oancea
Rotaprint Institutul Politehnic Iaşi, 1981,25-34;108-118.

2. “ANGRENAJE” - Îndrumar de proiectare
M. Gafiţanu, Sp. Creţu, Şt. Grigoraş, C. Ştirbu, Gh. Hagiu
Rotaprint Institutul Politehnic Iaşi, 1983, 25-185; 229-271; 275-283; 287-294.

3. “ORGANE DE MAŞINI” - Îndrumar de laborator
M. Gafiţanu, Sp. Creţu, C. Racocea, Gh. Bariz, I. Oancea, P. Ivănică,
Şt. Grigoraş, D. Olaru, Gh. Hagiu, C. Ştirbu
Rotaprint Institutul Politehnic Iaşi, 1985, 82-112.

4. “MECANISME, ORGANE DE MAŞINI ŞI MECANICĂ FINĂ”-Îndrumar de laborator
B.Drăgan, L. Hostiuc, Şt. Grigoraş, Gh. Hagiu, M. Hantelmann,
D. Receanu, D. Leohchi, L. Hanganu
Rotaprint Institutul politehnic Iaşi, 1991, 64-104.

5. “ANGRENAJE” - Îndrumar de proiectare
Sp. Creţu, Gh. Hagiu, Şt. Grigoraş, D. Leohchi, M. Hantelmann, C. Ştirbu, R.Bălan
Rotaprint Institutul Politehnic Iaşi, 1992, 171-295; 328-349.

6. “ORGANE DE MAŞINI” - Îndrumar de proiectare
L. Hostiuc, Şt. Grigoraş, Il. Rusu, C. Bujoreanu, B. Drăgan, M. Tiron
Rotaprint Universitatea Tehnică Iaşi, 1995, 6-198.

7. “CALITATE, FIABILITATE, MENTENABILITATE” - Îndrumar de laborator
Şt. Grigoraş, V. Sava, C. Cojocaru, Fl. Tudose-Sandu Ville
Rotaprint Universitatea Tehnică Iaşi, 1999, 1-49.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale

1. Marin, D.; Hadar, A.; Ionita, S.; Grigoras, S. & Szabo, A. (2010). A New Principle for Differential Gearboxes, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, 20-23rd October 2010, Zadar, Croatia, ISSN 1726-9679, ISBN 978-3-901509-73-5, Katalinic, B. (Ed.), pp. 0145-0146, Published by DAAAM International Vienna, Vienna

2. Stirbu, C.; Hanganu, L. C. & Grigoras, S. (2010). A Method for Spherical Rolling Bearings Quick Tests, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, 20-23rd October 2010, Zadar, Croatia, ISSN 1726-9679, ISBN 978-3-901509-73-5, Katalinic, B. (Ed.), pp. 0115-0116, Published by DAAAM International Vienna, Vienna
3. Grigoras, S.; Stirbu, C.; Hanganu, L. C. & Dumitru, M. (2010). Testing Rig for Reliability Control of Rolling Bearings, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, 20-23rd October 2010, Zadar, Croatia, ISSN 1726-9679, ISBN 978-3-901509-73-5, Katalinic, B. (Ed.), pp. 0239-0240, Published by DAAAM International Vienna, Vienna
4. Hanganu, L. C.; Grigoras, S.; Stirbu, C. & Hadar, A. (2010). Experimental Reserches on the Yarn Tension Variation Influenced by the Ring Position Against Textile Spindle Specific to Ring Frames, Annals of DAAAM for 2010 & Proceedings of the 21st International DAAAM Symposium, 20-23rd October 2010, Zadar, Croatia, ISSN 1726-9679, ISBN 978-3-901509-73-5, Katalinic, B. (Ed.), pp. 0639-0640, Published by DAAAM International Vienna, Vienna

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS

1. „CONSIDERATION ON MOBILE MECHATRONICS SYSTEMS FOR TEXTILE EQUIPMENT „
L. Hanganu, St. Grigoras, G. Ianus
Buletinul Institutului Politahnic Iasi, 2008, Tom LIV(LVIII), Fasc. 4

2. „THE RELIABILITY OF THE POCKET-HEXAGONAL KEY COUPLING FOR THE BOLTS”
St. Grigoras, L. Hanganu, G. Ianus
Buletinul Institutului Politahnic Iasi, 2008, Tom LIV(LVIII), Fasc. 3.

3 „TESTING RIG FOR RELIABILITY CONTROL OF ROLLING BEARINGS”
St. Grigoras, G. Ianus, L. Hanganu
Buletinul Univ. de Nord Baia Mare, 2008, Seria C, Vol. XXII

4. ESTIMATION OF THE GREASES DURABILITY IN BALL BEARINGS, CONSIDERING THE LOADING CHARGE”
G. Ianus, L. Hanganu, and St. Grigoras,
BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI Tomul LIV (LIVIII) Fasc.1
CONSTRUCTII DE MASINI -2008

5. FUNCTIONAL PARAMETRES AND TRIBOLOGICAL ASPECTS OF TUBING AND CASING CONNECTIONS - Stirbu Cr., Grigoras St.- ROTRIB 2010

I. Lucrări ştiinţifice publicate în volumele conferinţelor

b.Articole publicate integral în volumele conferinţelor (manifestărilor) internaţionale

1. “MODERN THREADED JOINTS FOR TUBING AND CASING. CONSTRUCTIVE SOLUTIONS ANG GENERAL THEORETICAL CONSIDERATIONS”
C.Stirbu, St.Grigoras
International Conference *MECHANICS AND MACHINE ELEMENTS*, Sofia, 2005

2. THEORETICAL AND EXPERIMENTAL ANALYSIS OF A NEW THREADED INTEGRAL JOINT TYPE FOR TUBING AND CASING

St.Grigoras , C.Stirbu.
International Conference *MECHANICS AND MACHINE ELEMENTS*, Sofia, 2005

3. RELIABILITY CONTROL OF ROLLING BEARINGS. A NEW VERSION OF TESTING RIG
St.Grigoras , C.Stirbu.
International Conference *MECHANICS AND MACHINE ELEMENTS*, Sofia, 2006

4. A NEW VERSION OF THREADED JOINTS - *PETROTUB JOINT*
C.Stirbu, St.Grigoras
International Conference *MECHANICS AND MACHINE ELEMENTS*, Sofia, 2006

5. TAPERED THREADED JOINT FOR TUBING AND CASING. THEORETICAL CONSIDERATION AND DESIGN PROBLEMS
St.Grigoras , C.Stirbu.
International Conference *MECHANICS AND MACHINE ELEMENTS*, Sofia, 2006

6. A SINGLE STEP CYLINDRICAL TAPERED JOINT FOR TUBING AND CASING. CORELATION BETWEEN THEORETICAL AND EXPERIMENTAL CONSIDERATION.
C.Stirbu, St.Grigoras
International Conference *MECHANICS AND MACHINE ELEMENTS*, Sofia, 2006

***c**. Lucrari stiintifice publicate la conferinte din tara*

1. "METODA DE CALCUL A TOLERANŢELOR NECESARE LA EXECUŢIA UNOR ZONE DE ETANŞARE COMPLEXĂ CU CONSIDERAREA DEFORMAŢIILOR DE CONTACT"
M. Gafiţanu, Şt. Grigoraş, Gh. Bariz, C. Ştirbu
Tehnologii şi produse noi în Construcţia de maşini, Universitatea "Ştefan cel Mare" Suceava - TEHNOMUS VIII, 1995, 125-132.

2. "TEHNOLOGIE DE CONTROL A PRECIZIEI EXECUŢIEI UNOR ZONE DE ETANŞARE COMPLEXĂ PRIN SUPRAFEŢE NEPARALELE"
Gh. Bariz, Şt. Grigoraş, C. Ştirbu
Tehnologii şi produse noi în Construcţia de maşini, Universitatea "Ştefan cel Mare" Suceava - TEHNOMUS VIII, 1995, 25-28.

3."ASPECTE CONSTRUCTIVE, FUNCŢIONALE ŞI DE CALCUL ASUPRA ÎMBINĂRILOR BURLANELOR DE TUBAJ ŞI ŢEVILOR DE EXTRACŢIE. SOLUŢII CONSTRUCTIVE ŞI CRITERII DE ANALIZĂ A EFICIENŢEI"
M. Gafiţanu, Şt. Grigoraş, Gh. Bariz, C. Ştirbu, Gh. Hagiu, T. Dumitrache, D. Mircea
Simpozion "PETROTUB-35", Roman, 1992,9-14.

4. "ASPECTE CONSTRUCTIVE, FUNCŢIONALE ŞI DE CALCUL ASUPRA ÎMBINĂRILOR BURLANELOR DE TUBAJ ŞI ŢEVILOR DE EXTRACŢIE. ANALIZĂ TEORETICĂ. CRITERII DE CALCUL"
M. Gafiţanu, Şt. Grigoraş, Gh. Bariz, C. Ştirbu, Gh. Hagiu, T. Dumitrache, D. Mircea
Simpozion "PETROTUB-35", Roman, 1992,15-19.

5. „CONSIDERATII GENERALE PRIVIND IMPLEMENTAREA POLITICII ECOLOGICE IN PROIECTARE SI TEHNOLOGIE"
St. Grigoras, C.Racocea
Seminarul National de Organe de Masini, 2005, Brasov

J. Invenţii

1. "DISPOZITIV PENTRU ÎNCERCAREA RULMENŢILOR RADIAL-AXIALI CU ROLE CONICE PE DOUĂ RÂNDURI" –B. I. Nr.80271/14.05.1980
   C.Racocea, M. Florea, V. Cioarec, L. Hostiuc, N. Mocanu, Şt. Grigoraş, A. Tabarcea, I. Visu, L. Sachelaru

-Dispozitivul a fost executat şi a intrat în dotarea Intreprinderii "Rulmentul" din Alexandria fiind utilizat la sortarea rulmenţilor biconici tip 390905 ce echipează cutiile de viteze ale autoturismelor Dacia.

2. "MAŞINĂ PENTRU ÎNCERCĂRI LA OBOSEALĂ" –B. I. Nr.87308/30.07.1984
   Sp. Creţu, Gh. Constantin, Şt. Grigoraş, Gh. Iliescu, T. Nestor
   - Brevetul a fost prezentat la al 22^{E} SALON INTERNATIONAL DES INVENTIONS-Geneva,1994, unde a obţinut ***Medalia de argint*** ;
   - Pe baza acestui brevet au fost executate maşinile ce echipează linia de încercări la oboseală existentă la U. T. Iaşi, Facultatea de Mecanică, Catedra de Organe de maşini şi utilaje.

3. "ÎMBINARE PENTRU BURLANELE DE TUBARE ŞI ŢEVILE DE EXTRACŢIE" –B. I. Nr.106902/30.07.1993
   M. Gafiţanu, Şt. Grigoraş, Gh. Bariz, C. Ştirbu, Gh, Hagiu, T. Dumitrache, D.S. Mircea

   - Brevetul a fost prezentat la al 22^{E} SALON INTERNATIONAL DES INVENTIONS-Geneva,1994, unde a obţinut ***Medalie de aur*** ;
   - Brevetul a fost prezentat şi la al 46eme SALON MONDIAL DE L`INNOVATION, DE LA RECHERCHE ET DES NOUVELLES TECHNOLOGIES-Bruxelles, 1997,unde a obţinut ***Medalie de aur cu menţiune*** ;
   - Brevetul este utilizat în producţia de serie a îmbinărilor de tip "PETROTUB" la S.C.PETROTUB S.A. Roman, până în prezent fiind echipate cu o astfel de îmbinare 3 sonde pentru extracţia de gaze.

4. "ÎMBINARE FILETATĂ PENTRU MATERIAL TUBULAR" – B.I.Nr.116105/2000
   T. Dumitrache, M. Gafiţanu, Şt, Grigoraş, Gh. Bariz, C. Ştirbu, Gh. Hagiu, D.S. Mircea

K.Contracte de cercetare

A. Contracte de cercetare:

1. "LUCRARI DE SERVICE PRIVIND PROIECTAREA, EXECUTIA , TESTAREA PERFORMANTELOR SI OMOLOGAREA IMBINARILOR DE TIP " PETROTUB" -III – Contract nr.11891/2000 cu S.C. PETROTUB S.A. Roman.
   St.Grigoras, M.Gafitanu. C.Stirbu

2. "ELABORAREA METODOLOGIEI GENERALE DE CALCUL SI PROIECTARE A IMBINARILOR DE TIP " PETROTUB " I – Contract nr.11890/1998 cu S.C. PETROTUB S.A. Roman.
   St.Grigoras, M.Gafitanu, C.Stirbu.

3. "ELABORAREA METODOLOGIEI GENERALE DE CALCUL SI PROIECTARE A IMBINARILOR DE TIP " PETROTUB " II – Contract nr.11890/1999 cu S.C. PETROTUB S.A. Roman.
   St.Grigoras, M.Gafitanu, C.Stirbu.

4. "ELABORAREA METODOLOGIEI GENERALE DE CALCUL SI PROIECTARE A IMBINARILOR DE TIP " PETROTUB " III – Contract nr.11890/2000 cu S.C. PETROTUB S.A. Roman.
   St.Grigoras, M.Gafitanu, C.Stirbu.

B. Proiecte de cercetare cu Ministerul Educaţie Naţionale

1. Program INOVARE – Pr. 285/05.11.2008 – „REDUCTOR DIFERENTIAL CU DOUA TREPTE DE REDUCERE, CU APLICATII INTR-O GAMA LARGA DE PUTERI SI RAPOARTE DE TRANSMISIE »
   Director : St. Grigoras
2. PROGRAM CEEX nr. 205/20.07.2006 – 3 ani –M.Ed.C.-C.N.C.S.I.S.
   „DOCUMENTARE, SPECIALIZARE ŞI CERCETĂRI PRELIMINARE PRIVIND REALIZAREA SISTEMELOR MECATRONICE MOBILE INTELIGENTE CU IMPACT ECOLOGIC PENTRU ECHIPAMENTE TEXTILE”
   L. Hanganu, G. Ianus, St. Grigoras, s.a.
3. PROGRAM CEEX nr. 205/20.07.2007 –M.Ed.C.-C.N.C.S.I.S.
   „DOCUMENTARE, SPECIALIZARE ŞI CERCETĂRI PRELIMINARE PRIVIND REALIZAREA SISTEMELOR MECATRONICE MOBILE INTELIGENTE CU IMPACT ECOLOGIC PENTRU ECHIPAMENTE TEXTILE”
   L.Hanganu, G. Ianus, St. Grigoras, s.a.
4. PROGRAM CEEX nr. 205/20.07.2008 –M.Ed.C.-C.N.C.S.I.S.
   „DOCUMENTARE, SPECIALIZARE ŞI CERCETĂRI PRELIMINARE PRIVIND REALIZAREA SISTEMELOR MECATRONICE MOBILE INTELIGENTE CU IMPACT ECOLOGIC PENTRU ECHIPAMENTE TEXTILE”
   L. Hanganu, G. Ianus, St. Grigoras, s.a.
5. GRANT M.Ed.C.-C.N.C.S.I.S. nr. 560/2005 – 2 ani
   “TEHNICI, METODE SI TEHNOLOGII DE PROIECTARE, REALIZARE, TESTARE SI IMPLEMENTARE A UNOR NOI TIPURI DE IMBINARI ALE TEVILOR DE EXCTRACTIE SI COLOANELOR DE TUBAJ, CU REFERIRI LA TUBULATURA STANDARD”
   Stirbu, St. Grigoras
6. GRANT M.Ed.C.-C.N.C.S.I.S. nr. 560/2006
   “TEHNICI, METODE SI TEHNOLOGII DE PROIECTARE, REALIZARE, TESTARE SI IMPLEMENTARE A UNOR NOI TIPURI DE IMBINARI ALE TEVILOR DE EXCTRACTIE SI COLOANELOR DE TUBAJ, CU REFERIRI LA TUBULATURA STANDARD”
   C. Stirbu, St. Grigoras
7. GRANT M.Ed.C.-C.N.C.S.I.S. nr. 546/2005 – 3 ani
   “STUDIUL SISTEMELOR MECANICE CU RULMENTI SITUATE IN CAMPURI ELECTROMAGNETICE”
   C. Racocea, C. Racocea, St. Grigoras, s.a.
8. GRANT M.Ed.C.-C.N.C.S.I.S. nr. 546/2006
   “STUDIUL SISTEMELOR MECANICE CU RULMENTI SITUATE IN CAMPURI ELECTROMAGNETICE”
   C. Racocea, C. Racocea, St. Grigoras, s.a.
9. GRANT M.Ed.C.-C.N.C.S.I.S. nr. 546/2007
   “STUDIUL SISTEMELOR MECANICE CU RULMENTI SITUATE IN CAMPURI ELECTROMAGNETICE”
   C.Racocea, C. Racocea, St. Grigoras, s.a.
10. Proiect POSDRU 64227/2010
    “FPRMAREA PERSONALULUI DIDACTIC DIN INVATAMANTUL SECUNDAR (ISCED 2-3) IN VEDERA UTILIZARII TEHNOLOGIEI INFORMATIEI SI A INSTRUMENTELOR E-LEARNING IN ACTIVITATEA DIDACTICA”
    St. Grigoras, G.Ianus, L.Hanganu s.a.

C. *Proiecte si programe cu Uniunea Europeană*

D. Participare efectivă cu susţinere de lucrări la manifestări ştiinţifice internaţionale

1. The 26th Israel Conference on Mechanical Engineering, Haifa, 1996- 1 lucrare .

2. The 27th Israel Conference on Mechanical Engineering, Haifa, 1998- 3 lucrări .

3. 11th Intrnational Colloquium-Industrial and Automotive Lubrication, Esslingen, Germany, 1998- 1 lucrare .

4. 46eme SALON MONDIAL DE L` INNOVATION, DE LA RECHERCHE ET DES NOUVELLES TECHNOLOGIES-EUREKA`97, Bruxelles, 1997- un brevet medaliat cu aur .

5. Mobilitate de 2 săptămâni în Franţa(Amiens şi Compiegne) - Proiect LEONARDO DA VINCI nr. PL-83509.

6. Mobilitate de 2 saptamini in Franta (U.T.Compiegne) – Proiect LEONARDO DA VINCI nr. RO/2000/85107/EX.

7. ASME-GREEK SECTION, First National Conference on Recent Advances in Mechanical Engineering, Patras, Greece, 2001 – 4 lucrări prezentete ; chairman la 2 secţiuni.

8. BALKANTRIB`2002 , Kayseri, Turcia, 2002 – 4 lucrări; chairman la secţiunea A4.

9. ROTRIB-03, Galaţi, România, 2003 – 1 lucrare; chairman la secţiunea C3.

10. Mobilitate de 2 saptamini in Belgia(Ooestende – COC) – Proiect LEONARDO DA VINCI nr. RO/2003/PL1138/EX, 2004.

11. International Conference *MECHANICS AND MACHINE ELEMENTS*, Sofia, 2005 – 2 lucrari

12. International Conference *MECHANICS AND MACHINE ELEMENTS*, Sofia, 2006 – 4 lucrari.

13. DAAAM INTERNATIONAL VIENNA – *INTELLIGENT MANUFACTURING & AUTOMATION* ,
TRNAVA, 2008 – 3 lucrari

14. DAAAM INTERNATIONAL VIENNA – *INTELLIGENT MANUFACTURING & AUTOMATION* ,
Viena, 2009 – 6 lucrari ; Membru in Comitetul de Program.

L. Premii, distincţii.

1. *Medalie de aur* - 22e Salon International des Inventions - Geneva, 1994 - "*Assemblage direct de tubes d'extraction petroliers*".
2. *Medalie de argint* - 43 th World Exhibition of Innovation, Research and New Technology – Bruxelles 1994 - "*A new version of the contact fatigue steel testing machine".*
3. *Medalie de aur cu menţiunea juriului* - 46 e Salon Mondial de l'Inventation de la Recherche et des Nouvelles Technologier – Bruxels, Eureka, 1997 – "*Raccord pour tubes de convelage et toubes d'extraction*".
4. *Medalia jubiliara 1992* – 35 ani de existenta – S.C. PETROTUB S.A. Roman
5. *Diploma de excelenta, 2007* – Senatul UTI, aniversare 194 ani de *Scoala Superioara de Inginerie in Limba Romana*;
6. *Medalia jubiliara, 2007* – Senatul UTI, aniversare 194 ani de *Scoala Superioara de Inginerie in Limba Romana*;
7. *Diploma de excelenta, 2003* – Senatul UTI, aniversare *Zilele Universitatii Tehnice „Gheorghe Asachi „ Iasi.*
8. *Medalia jubiliara, 2003* – Senatul UTI, aniversare *Zilele Universitatii Tehnice „Gheorghe Asachi „ Iasi.*
9. *Medalia jubiliara 2009* – 60 de ani de invatamant – Academia Tehnica Militara;

10. *Medalia jubiliara 2011* – 70 de ani de invatamant in domeniul constructiilor – Fac Constructii si instalatii – U.T. Iasi

M. Alte realizări semnificative.

Recunoastere nationala si internationala:

- Nominalizare in editiile 2005 si 2011-2012 ale Enciclopediei Personalitatilor din Romania - *Who`s Who in Science and Engineering*
- Invitatie oficiala de nominalizare in *2000 Outstanding Intelectuals of the 21st Century* si in *Top 100 Engineers 2011* – INTERNATIONAL BIOGRAFICAL CENTRE, Cambridge, England
- Invitatie oficiala de nominalizare in *ONE WORLD SERIES IN ENGINEERING* 2012 - INTERNATIONAL BIOGRAFICAL CENTRE, Cambridge, England
- Invitatie oficiala de nominalizare lca *Deputy Director General from Romania* – 2012, INTERNATIONAL BIOGRAFICAL CENTRE, Cambridge, England

Data: Septembrie 2025

Prof.univ.dr.ing. GRIGORAȘ Ștefan

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Stefan GRIGOREAN

A. Teza de doctorat.
„Cercetari privind combustoare adaptabile sistemelor solare hibride cu ciclu inchis" – coordonator: Prof.Univ. Gheorghe DUMITRASCU

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Dumitrașcu Gheorghe, Aristotel Popescu, Michel Feidt, Ștefan Grigorean „Studies on Closed Irreversible Cycles Analysis Based on Finite Physical Dimensions Thermodynamics" - Newest Updates in Physical Science Research Vol. 4, Editura: B P International, pg 115 -135, DOI: https://doi.org/10.9734/bpi/nupsr/v4/5716D, 2021
2. Dumitrașcu Gheorghe, Aristotel Popescu, Michel Feidt, **Ștefan Grigorean** *„Study on Endoreversible Trigeneration Cycles Design Based on Finite Physical Dimensions Thermodynamics"* - Newest Updates in Physical Science Research Vol. 4, Editura: B P International, pg 136 - 157 DOI: https://doi.org/10.9734/bpi/nupsr/v4/5716D, 2021

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local; anexa V.3

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. Gheorghe DUMITRAȘCU, Michel FEIDT, Aristotel POPESCU, Ștefan GRIGOREAN „Endoreversible Trigeneration Cycle Design Based on Finite Physical Dimensions Thermodynamics" – Energies, Vol. 12, Issue 16, 2019, (Impact Factor 3.004), https://doi.org/10.3390/en12163165, ISSN: 1996-1073;
2. Gheorghe DUMITRAȘCU, Michel FEIDT, Ștefan GRIGOREAN „Finite Physical Dimensions Thermodynamics Analysis and Design of Closed Irreversible Cycles" Energies, Vol. 14, Issue 12, 2021, (Impact Factor 3.004), https://doi.org/10.3390/en14123416, ISSN: 1996-1073
3. Stefan PREDOI, Gheorghe DUMITRAȘCU, Ștefan GRIGOREAN „The Regression Rate-Based Preliminary Engineering Design of Hybrid Rocket Combustion System" Processes, Vol.10, Issue 4, 2022 (Impact Factor 2.8), https://doi.org/10.3390/pr10040775
4. Ștefan GRIGOREAN, Gheorghe DUMITRAȘCU, „Influence of air preheating temperature and air dilution ratio upon atmospheric combustion of natural gas" Buletinul Institutului Politehnic din Iasi, Volumul 64 (68), Numărul 1, anul 2018 Secţia CONSTRUCŢII DE MAŞINI
5. Ștefan GRIGOREAN, Gheorghe DUMITRAȘCU, Michel FEIDT, Bogdan HORBANIUC "The influence of the Hydrogen in the composition of natural gas upon the atmospheric combustion with large excess air" Revista Termotehnica, numarul 2/2018, pagina 28-35, ISSN-L 1222-4057,Online ISSN 2247-1871, https://www.agir.ro/buletine/3030.pdf
6. Ștefan GRIGOREAN, Gheorghe DUMITRAȘCU, Ciprian CIOFU „New design proposal for an air-fuel injector swirler with variable effect" International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Special Issue, Vol. XII, No. 3 / 2020, https://www.ijmmt.ro/vol12no32020/06_Stefan_Grigorean.pdf
7. Florin Stefan MUSTAȚĂ, Bogdan – Constantin CONDURACHE, Antonela CURTEZA, Ciprian Dumitru CIOFU, Stefan GRIGOREAN „Magnetic Composites From Recycled Materials", ISSN 2067-3604, VolXV, No.2 / 2023

G. Lucrări științifice publicate în reviste din străinătate.

H. Lucrări științifice publicate în reviste din tara, recunoscute CNCSIS.

I. Lucrări științifice publicate în volumele conferințelor.

1. Gheorghe DUMITRAȘCU, Michel FEIDT, Ștefan GRIGOREAN „Closed Irreversible Cycles Design based on Finite Physical Dimensions Thermodynamics" MDPI Proceedings 2020,Vol. 54, 2020, ISSN 2504-3900, https://doi.org/10.3390/WEF-06905
2. Ștefan GRIGOREAN, Gheorghe DUMITRAȘCU, Ciprian CIOFU "The influence of biogas composition upon the atmospheric combustion" IOP Conference Series: Materials Science and Engineering, Volume 400, 4, 2018, Characterization, Modeling and Simulation of Mechanical Processes, https://doi.org/10.1088/1757-899X/400/4/042027;
3. Ștefan PREDOI, Ștefan GRIGOREAN, Gheorghe DUMITRAȘCU „Comparative analysis regarding burning process for different fuels in hybrid rocket engines" AIP Conference Proceedings, volume 2190, issue 1, 2019, https://doi.org/10.1063/1.5138585;
4. Ștefan GRIGOREAN, Gheorghe DUMITRAȘCU, Ștefan PREDOI "Oxy-combustion simulation of ethylene" IOP Conference Series: Materials Science and Engineering, Volume 595, number 1, 2019, https://doi.org/10.1088/1757-899X/595/1/012014
5. Gheorghe DUMITRAȘCU, Michel FEIDT, Abdul Rahman Jarjes NAMAT, Ștefan GRIGOREAN, Bogdan HORBANIUC "Thermodynamic analysis of irreversible closed Brayton engine cycles used in trigeneration systems" IOP Conference Series: Materials Science and Engineering, Volume 595, number 1, 2019, https://doi.org/10.1088/1757-899X/595/1/012022;
6. Ștefan PREDOI, Ștefan GRIGOREAN, Gheorghe DUMITRAȘCU „Case study regarding the use of three different fuels in a multi-stage hybrid rocket engine" IOP Conf. Series: Materials Science and Engineering, 2020, volume 997, https://doi.org/10.1088/1757-899X/997/1/012153;
7. Ștefan PREDOI, Ștefan GRIGOREAN, Gheorghe DUMITRAȘCU "Comparative analysis regarding hybrid rocket engines with single or multi-stages" AIP Conference Proceedings, volume 2307, 2020, https://doi.org/10.1063/5.0032760;
8. Gheorghe DUMITRAȘCU, Michel FEIDT, Ștefan GRIGOREAN „Closed Irreversible Cycles Design based on Finite Physical Dimensions Thermodynamics" MDPI Proceedings, Vol. 58, ISSN 2504-3900, 2020, https://doi.org/10.3390/WEF-06905;

J. Invenții.

1. Brevet de invenție „Stand experimental pentru analiza proceselor de ardere a combustibililor gazoși", Ștefan Grigorean, Gheorghe Dumitrașcu – **Brevet RO 135603**
2. Brevet de inventie „Injector turbionator cu vane frontale cu inclinare variabila", Stefan Grigorean, Gheorghe Dumitrascu – **Brevet RO 135482**

K. Contracte de cercetare/granturi.

L. Premii, distincții.

Premii și distincții internaționale:

Premii și distincții naționale:

M. Alte realizări semnificative.

Data 15.09.2025

Semnatura

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Nume si Prenume: Herghiligiu Ionuț Viorel

A1. Teza de doctorat

A1.1. Titlul tezei: "Cercetări privind Sistemul de management de mediu ca proces complex la nivelul organizaţiilor"

Domeniul de doctorat: Inginerie si management

Anul susținerii tezei: 2013 Anul confirmării titlului de Doctor: 2014

A1.2. Titlul tezei: : "Recherche sur le système de management environnemental comme un processus complexe au sein des organisations"

Domeniul de doctorat: Science de l'Ingénieur

Anul susținerii tezei: 2013 Anul confirmării titlului de Doctor: 2014

A2. Teza de potdoctorat

A2.1. Titlul tezei: "Evaluarea statistica a sustanabilitatii organizationale"

Domeniul: Cibernetica si statistica

Anul susținerii tezei: 2021 Anul eliberarii adestatului de studii postdoctorale: 2022

A.1. ACTIVITATEA DIDACTICĂ ȘI PROFESIONALĂ

Nr.crt.	Titlul lucrării
1.1 Cărți/manuale/monografii/ capitole în cărți de specialitate	
A.1.1.1 Cărți/manuale/monografii/ capitole de specialitate ca autor	
A.1.1.1.1 Cărți/manuale/monografii/ capitole de specialitate ca autor in edituri internationale	
1.	*The Implementation of a New Technology Based on the Monte Carlo Simulation in the Field of Sustainable Dependability in Operation,* **Herghiligiu I.**, Vilcu A., Pislaru M., capitol în Innovation in Sustainable Management and Entrepreneurship, Editori: Prostean G., Villahoz J.J.L., Brancu L., Bakacsi G., Springer Proceedings in Business and Economics. Springer, Cham., 333-344, 2020. ISBN: 978-3-030-44711-3.
2.	*EMS Implementation: A Theoretical Process Design Approach*, **Herghiligiu I.V.**, Robu I.B., capitol în Organizations and Performance in a Complex World, Editori: Orăștean R., Ogrean C., Mărginean S.C., Springer Proceedings in Business and Economics, Springer, Cham., 67-78, 2020. ISBN: 978-3-030-50676-6.
3.	*Environmental management: EMS as organizational complex process*, **Herghiligiu I.V.**, Ed. Tehnica-Info, Chisinau, Moldova, 2019, ISBN 978-9975-63-452-6. 504.06 H 51.
4.	*Corporate social responsibility practices*, **Herghiligiu I.V.**, Ed. Tehnica-Info, Chisinau, Moldova, 2016, ISBN 978-9975-63-397-0. 334:316.43 H 51.
A.1 .1.1.2 Cărți/manuale/monografii/ capitole de specialitate ca autor in edituri nationale (edituri recunoscute)	
1.	*Research and technological transfer in footwear manufacturing*, Bilalis N., Antoniadis A., Souto Bizarro R.,

	Herghiligiu I.V., Ed. Performantica, Iaşi, Romania, 2018, ISBN 978-606-685-593-8.

Nr.crt.	Titlul lucrării
A.1.2 Alte materiale didactice – inclusiv în format electronic (pentru format electronic - echivalent format A4 text fără figuri cu minimum 3200 caractere inclusiv spații)	
A. 1.2.1 Suporturi de curs/ Îndrumare	
1.	*Management și ingineria sistemelor de producție – note de curs, Ediția a doua revizuită și actualizată*, **Herghiligiu I.V.**, Lupu L.M., Ed. Performantica, Iași, Romania, 2024. ISBN-978-630-328-121-6.
2.	*Management și ingineria sistemelor de producție – îndrumar de lucrări și proiect, Ediția a doua revizuită și completată*, **Herghiligiu I.V.**, Ed. Performantica, Iași, Romania, 2024. ISBN-978-630-328-122-3.
3.	*Management și ingineria sistemelor de producție – note de curs*, **Herghiligiu I.V.**, Lupu L.M., Ed. Performantica, Iași, Romania, 2019, ISBN 978-606-685-675-1
4.	*Management și ingineria sistemelor de producție – îndrumar de lucrări și proiect,* **Herghiligiu I.V.**, Ed. Performantica, Iași, Romania, 2019, ISBN 978-606-685-678-2
5.	*Managementul mediului – note de curs*, **Herghiligiu I.V.**, Lupu L.M., Ed. Performantica, Iași, Romania, 2024, ISBN 978-630-328-113-1
6.	*Managementul mediului – elemente construcție sistem de management de mediu*, **Herghiligiu I.V.**, exemplificări elemente proiect (format electronic), Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de licență – Inginerie și management, 2020. Managementul mediului – elemente construcție sistem de management de mediu_Herghiligiu_2020.pdf (tuiasi.ro)
7.	*Teoria probabilităților și statistică matematică,* curs (format electronic), Vilcu A., **Herghiligiu I.V.**, Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de licență – Inginerie și management, 2020. https://edu.tuiasi.ro/pluginfile.php/86757/mod_resource/content/1/TPMS%2C%20note%20de%20curs%2C%20Iasi%2C%202020.pdf
8.	*Sisteme informaționale pentru management – note de curs*, **Herghiligiu I.V.,** Lupu L.M., curs (format electronic), Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de licență – Inginerie și management, 2022. https://edu.tuiasi.ro/pluginfile.php/136053/mod_resource/content/1/Curs_disciplina%20SIM%20-%20note%20de%20curs_Herghiligiu%20I.V%20si%20Lupu%20M.L_2022-2023.pdf
9.	*Managementul instituțiilor publice – note de curs*, curs (format electronic), **Herghiligiu I.V.,** Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de master – Inginerie și management, 2023. https://classroom.google.com/c/NTk0MjA0ODg1MzA1/p/NjExMjQzNjk5NTEy/details
10.	*Management – note de curs*, **Herghiligiu I.V.**, Lupu L.M., curs (format electronic), Universitatea Tehnică "Gheorghe Asachi" din Iași, domeniul de licență – Inginerie și management, 2024.

A.2. ACTIVITATEA DE CERCETARE

Nr. crt.	Titlul articolului
A.2.1. Articole indexate în reviste WoS și în volumele unor manifestări științifice indexate WoS, vizibile în baza de date	
Articole în reviste cotate WoS	
1.	*Sustainable innovation management model based on Value Engineering Method,* Vilcu A., Palici A., **Herghiligiu I.V.**, Pislaru M., Ionesi S-D., Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 67, 1337-1346, 2024. WOS:001469721900047 https://www.webofscience.com/wos/woscc/full-record/WOS:001469721900047
2.	*Information System Evaluation from a Green Production Management Perspective in an Automotive Sector Company,* Pohontu-Dragomir S.C., **Herghiligiu I.V.**, Vilcu A., Cojocaru M., Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 67(2), 841-848, 2024. WOS:001362561700042 https://www.webofscience.com/wos/woscc/full-record/WOS:001362561700042

3.	*Circular Causality Analysis of Corporate Performance and Accounting Quality in M&As,* **Herghiligiu I.V.**, Dicu R.M., Aevoae G.M., Sahlian D.N., Popa A.F., Robu I.B., PLOS ONE, 19(10), e0308608, 2024. https://doi.org/10.1371/journal.pone.0308608. Articol **publicat în revistă din quartila: Q1** https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0308608
4.	*Digital security system with artificial intelligence module for data communications into manufacturing company,* Vilcu A., Todiric D., **Herghiligiu I.V.**, Verzea I., Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 66(4), 529-538, 2023. WOS:001236162800001. https://www.webofscience.com/wos/woscc/full-record/WOS:001236162800001
5.	*Sustainable Corporate Performance Based on Audit Report Influence: An Empirical Approach through Financial Transparency and Gender Equality Dimensions*, **Herghiligiu I.V.**, Robu I.B., Istrate M., Grosu M., Mihalciuc C.C., Vilcu A., Sustainability, 15(18), 14033, 2023. WOS:001145327300001. https://doi.org/10.3390/su151814033. **Articol publicat în revistă din quartila: Q2** https://www.webofscience.com/wos/woscc/full-record/WOS:001145327300001
6.	*Mergers & Acquisition Decisions in the Energy Sector Based on Financial Transparency and Audit Opinions,* Robu I.B., Aevoae G.M., Mardiros D.N., **Herghiligiu I.V.**, Eastern European Economics, Routledge Journals, Taylor & Francis LTD, 1–37, 2023. WOS:001026472900001. https://doi.org/10.1080/00128775.2023.2225484. https://www.webofscience.com/wos/woscc/full-record/WOS:001026472900001
7.	*Can Teleworking Lead to Economic Growth during Pandemic Times? Empirical Evidence at the European Union Level,* Robu I.B., Dicu R.M., **Herghiligiu I.V.**, Sahlian D.N., Vuta M., 12(1), 154, 2023. WOS:000910266700001. https://doi.org/10.3390/electronics12010154. **Articol publicat în revistă din quartila: Q2** https://www.webofscience.com/wos/woscc/full-record/WOS:000910266700001
8.	*Manufacturing companies sustainability profile: identification based on Multiple Correspondence Analysis,* **Herghiligiu I.V.**, Vilcu A., Robu I.B., Pohonu-Dragomir S.C., Acta Technica Napocensis Series-Applied Mathematics Mechanics and Engineering, 65(4), 1177-1184, 2022. WOS:000969679100026. https://www.webofscience.com/wos/woscc/full-record/WOS:000969679100026
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Nr. crt.	Titlul articolului
A.2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale	

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Nr. crt.	**Titlul articolului**
A. 2.3 Articole în extenso în reviste/ volumele unor manifestări științifice naționale/ internaționale neindexate	
Articole în extenso în reviste/ volumele unor manifestări științifice naționale/ internaționale neindexate	
1.	*The Influence of the Online Environment on Group Behaviour,* Vilcu A. Lazarescu R., **Herghiligiu I.V.**, The 18th International Scientific Conference eLearning and Software for Education, 1-6, 2022. 10.12753/2066-026X-22-000
2.	*Sustainable Decisions in M&As Based on Audit Opinion and Financial Transparency. Empirical Evidence Regarding the Energy Sector from BRICS Countries,* Robu I.B., Toma C., Aevoae G.M., **Herghiligiu I.V.**, Sandu C.B., Proceedings of the 16 th International Conference Accounting and Management Information Systems AMIS 2022, 182-201, 2022. ISSN 2247-6245. ISSN-L 2247-6245.
3.	*Organisational Behaviour Model Based on Principal Component Analysis Assessmen,* Vilcu A., **Herghiligiu I.V.**, Proceedings of the 39 th International Business Information Management Association Conference (IBIMA), Business Excellence and Innovation Management: A 2025 Vision to Sustain Economic Development in the Era of Pandemic, Editor Khalid S. Soliman, 2386-2392, 2021. ISBN: 978-0-9998551-8-8. ISSN: 2767-9640.
4.	*Factors That Influence Sustainability Environmental Dimension: A Methodological Framework Approach,* **Herghiligiu I.V.**, Robu I.B., Vilcu A., Proceedings of the 38th International Business Information Management Association Conference (IBIMA), Innovation Management and Sustainable Economic Development in the Era of Global Pandemic, Editor Khalid S. Soliman, 7644-7652, 2021. ISBN: 978-0-9998551-7-1. ISSN: 2767-9640
5.	*Statistical Analysis on Dimensions Associated to Environmentally Sustainable Main Vector – EMS*, **Herghiligiu I.V.**, Robu I.B., Asandului A.L., Proceedings of the 36th International Business Information Management Association Conference (IBIMA), 4-5 November 2020, Granada, Spain, Editor Khalid S. Soliman, Sustainable Economic Development and Advancing Education Excellence in the Era of Global Pandemic, 2020, 12973-12981
6.	*Process design: a theoretical approach to organizational EMS implementation,* Iatco G., **Herghiligiu I.V.**, Simpozionul Internaţional "Universul Ştiinţelor", Ediţia a VIII-a, 22 octombrie 2017, Editura PIM, Iasi, Romania, 1-6. ISBN 978-606-576-722-2.
7.	*Organizational barriers associated to environmental management system integration,* **Herghiligiu I.V.**, Iatco G., Herghiligiu C.M., Simpozionul Internaţional "Universul Ştiinţelor", Ediţia a VIII-a, 22 octombrie 2017, Editura PIM, Iasi, Romania, 1-6. ISBN 978-606-576-722-2.

8.	*Analyze of Relationship Between the Intellectual Capital and The Stages of Acquisition Process of Organizational Knowledge,* Luca (Cososchi) D.G., Luca A., Lupu L.M., **Herghiligiu I.V.**, *Proceedings of 16th Romanian Textiles and Leather Conference - CORTEP 2016,* 27-29 October 2016 Iaşi, Romania, Editor:Conf. Univ. dr. ing. Manuela Avadanei (coord.), Editura Performantica Institutul Naţional de Inventică, Iaşi, ISSN-L 2285-5378, 416-423, 2016.
9.	Pohonţu A.I., Baulant C., **Herghiligiu I.V.**, *How organizations cope with knowledge economy? Formalising a "learning by sharing" process inside the organizations,*Innovation Forum VI – 2014: Crisis, innovation and transition, Pôle universitaire Léonard De Vinci, Paris la Défense, France, 2014. Online: http://cit2014.sciencesconf.org/resource/page/id/24
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11.	*Model teoretic conceptual pentru decizia de mediu*, **Herghiligiu I.V.**, Workshop „Tendinţe şi cerinţe de interdisciplinaritate în cercetare. Prezentarea rezultatelor obţinute de doctoranzi", POSDRU CUANTUMDOC/ 107/1.5/S/79407 - "Studii Doctorale pentru Performanţe Europene în Cercetare şi Inovare CUANTUMDOC", proiect cofinanţat din Fondul Social European în perioada 1 decembrie 2010 - 30 noiembrie 2013, Editura POLITEHNIUM, Iaşi, ISBN 978-973-621-408-0, pp. 73 – Secţiunea: Şcoala Doctorală a Facultăţii de Textile Pielărie şi Management Industrial, Universitatea Tehnica "Gheorghe Asachi" din Iasi, Romania, 2013. https://scholar.google.ro/citations?user=a5fxN-oAAAAJ&hl=ro

A.3. RECUNOAȘTEREA ȘI IMPACTUL ACTIVITĂȚII

Nr. crt	Denumire premiu
A. 3.1 Premii	
A.3.1.1 premii internaționale	
1.	**Medalie de argint:** *Organizational Sustainability: Neural Network Modeling for Probability-Based Scoring,* Herghiligiu I.V., Robu I.B., Vilcu A., Pislaru M., Ivascu L., Pohontu-Dragomir C.S., Budeanu C.I., 17th European Exhibition of Creativity and Innovation, Iasi, Romania, 8-10 May 2025
2.	**Medalie de bronz:** *Financial statement fraud detection with support vector machine,* Burlacu G., Robu I.B.,, Herghiligiu I.V., 17th European Exhibition of Creativity and Innovation, Iasi, Romania, 8-10 May 2025.
3.	**Medalie de excelenta:** *Sustainable or just greenwashing experts? An analysis of companies listed on the Bucharest Stock Exchange,* Rosca I.D., Robu I.B.,, Herghiligiu I.V., Chiru C.S., 17th European Exhibition of Creativity and Innovation, Iasi, Romania, 8-10 May 2025
4.	**Medalie de argint:** *Fraud Risk Assessment Using Artificial Neural Network***,** Burlacu G., Robu I.B.,, Herghiligiu I.V., 16th European Exhibition of Creativity and Innovation, Iasi, Romania, 6-8 June 2024
5.	**Medalie de argint:** *Exploratory Study on the Influence of Audit Opinion on the Share Prices of Companies Listed on the Bucharest Stock Exchange,* Mocanu A., Robu I.B.,, Herghiligiu I.V., 16th European Exhibition of Creativity and Innovation, Iasi, Romania, 6-8 June 2024
6.	**Medalie de argint:** *Technical resilience - models, metrics, methods and algorithms*, Vilcu A., Herghiligiu I.V., Robu I.B., Pislaru M., Verzea I., Ivascu L., Herghiligiu C.M., EUROIENVENT 2023, 11-13 mai, Iasi, Romania.
7.	**Medalie de bronz:** *Organizational sustainability score – probability approach using fuzzy logic*, Herghiligiu I.V., Robu I.B., Pislaru M., Ivascu L., Herghiligiu C.M., EUROIENVENT 2023, 11-13 mai, Iasi, Romania.
8.	**Medalie de excelenta in inovare:** *Fraud Risk Analysis and Assessment in Financial Auditing under the Covid-19 Influenc*e, Burlacu G., Robu I.B., Herghiligiu I.V., Vilcu A., EUROIENVENT 2023, 11-13 mai, Iasi, Romania.
9.	**Diploma de excelenta:** *Development Of Organizational Innovation Capability By Delone And Mclean Model*, Pohonțu-Dragomir S.C., Herghiligiu, I.V., Vilcu A., EUROIENVENT 2023, 11-13 mai, Iasi, Romania.
10.	**Diploma de excelenta:** *Management si ingineria sistemelor de productie – indrumar de lucrari si proiect*, Herghiligiu I.V., Ed. Performantica, Iaşi, Romania, 2019, ISBN 978-606-685-678-2, EUROIENVENT 2023 Book Salon, 11-13 mai, Iasi, Romania.

11.	**Medalie de argint:** *Management si ingineria sistemelor de productie – note de curs*, Herghiligiu I.V., Lupu L.M.,, Ed. Performantica, Iaşi, Romania, 2019, ISBN 978-606-685-675-1. EUROIENVENT 2023 Book Salon, 11-13 mai, Iasi, Romania.
12.	**Medalie de bronz:** *Using fuzzy logic in energy sector M&AS, based on sustainability dimensions and audit opinion*, Robu I.B., Herghiligiu I.V., Dicu R., Aevoae G.M., Vîlcu A., Balan C.. EUROIENVENT 2022, 14th European Exhibition of Creativity and Innovation Iasi, Romania, 26-28 May 2022
13.	**Medalie de argint:** *The evolution of teleworking in the European Union based on fuzzy logic. Empirical evidence during the COVID 19 pandemic*, Dicu R., Aevoae G.M., Robu I.B., Herghiligiu I.V., Vîlcu A., Sandu C.B., EUROIENVENT 2022, 14th European Exhibition of Creativity and Innovation Iasi, Romania, 26-28 May 2022
14.	**Medalie de argint:** *The importance of Monte Carlo - based technologies in operational management*, Vîlcu A., Herghiligiu I.V., Robu I.B.., EUROIENVENT 2022, 14th European Exhibition of Creativity and Innovation Iasi, Romania, 26-28 May 2022
15.	**Diploma de excelenta:** *Business sustainability assessment operated to identify an associated profile*, **Ionut Viorel Herghiligiu**, Ioan-Bogdan Robu, Adrian Vilcu, Marius Pislaru, EUROIENVENT 2021 - 13th European Exhibition of Creativity and Innovation, Iasi, Romania, 20-21 May 2021
16.	**Medalie de aur:** *Statistical model on technical system powered by artificial intelligence*, Adrian Vîlcu, **Ionuț Herghiligiu**, Bodan Robu. EUROIENVENT 2021 - 13th European Exhibition of Creativity and Innovation, Iasi, Romania, 20-21 May 2021
17.	**Medalie de aur:** Fractal solutions to EMS integration in order to improve business performance, The 23rd International Exhibition of Inventics - "INVENTICA 2019**"** Iași, România [ARUT grant/ **Ionut Viorel HERGHILIGIU**,]
18.	**Outstanding contribution in reviewing:** JOURNAL OF CLEANER PRODUCTION, Elsevier, Amsterdam, The Netherlands
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21.	**Medalie de bronz :** *Eco-intelligent system for environmental sustainability assessment based on soft-computing techniques integrated framework. INTEL-ECO,* EUROINVENT, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, 17-19 May 2018
22.	**Diploma de excelenta:** *Assessing sustainable development of the Romanian listed companies based on hierarchical fuzzy logic,* EUROINVENT, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, 17-19 May 2018
23.	**Diploma de excelenta:** *Fractal design solutions for EMS integration in order to improve business performance*, EUROINVENT, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, 17-19 May 2018]
24.	**Medalie de argint**: *Fractal design: the ultimate state to improve EMS integration*, EUROINVENT, 9th European Exhibition of Creativity and Innovation, Iasi, Romania, 25-27 May 2017
25.	**Medalie de argint**: *Environmental Fraud Risk assessment based on Fuzzy approach*, EUROINVENT, 9th European Exhibition of Creativity and Innovation, Iasi, Romania, 25-27 May 2017
26.	**Medalie de aur**: *Theoretical framework regarding the organizational factors which determines the EMS implementation,* THE 20th INTERNATIONAL SALON OF RESEARCH, INNOVATION AND TECHNOLOGICAL TRANSFER "INVENTICA 2016" IASI: 29.06–01.07.2016, ROMÂNIA, ISSN: 1844-7880
27.	**Medalie de aur**: *Evaluation framework of the organizational corporate social responsibility (CSR) practices,* THE 20th INTERNATIONAL SALON OF RESEARCH, INNOVATION AND TECHNOLOGICAL TRANSFER "INVENTICA 2016" IASI: 29.06–01.07.2016, ROMÂNIA, ISSN: 1844-7880
28.	**Medalie de aur**: *Analytical procedures used in environmental fraud auditing,*THE 20th INTERNATIONAL SALON OF RESEARCH, INNOVATION AND TECHNOLOGICAL TRANSFER "INVENTICA 2016" IASI: 29.06–01.07.2016, ROMÂNIA, ISSN: 1844-7880
29.	**Medalie de argint**: *Environmental fraud risk assessment matrix,* EUROINVENT, 8th European Exhibition of Creativity and Innovation, 19-21 May 2016, Iaşi Romania, ISBN: 987-606-775-212-0
30.	**Medalie de argint**: *A theoretical framework regarding the Environmental management system as organizational complex process,* EUROINVENT,7th European Exhibition of Creativity and Innovation, 14-16 May 2015, Iaşi Romania, ISBN: 978-606-13-2474-3
31.	**Medalie de argint**: *A theoretical framework regarding the assessment of the Environmental Fraud Risk,* EUROINVENT, 7th European Exhibition of Creativity and Innovation, 14-16 May 2015, Iaşi Romania, ISBN: 978-606-13-2474-3
32.	**Medalie de aur**: *Environmental decision seen as a fractal process*, EUROINVENT, 5th European Exhibition of Creativity and Innovation, 9-11 May 2013, Iaşi, România, ISBN: 978-973-703-891-3

33.	**Medalie de argint**: *Fractal design: A new path to improve the dynamic of organizational competitiveness*, EUROINVENT, 6th European Exhibition of Creativity and Innovation, 22-24 May 2014, Iaşi Romania
A.3.1.2 premii naționale în domeniu	
34.	**Premiul de excelenta stiintifica al revistei Audit Financiar** [Camera Auditorilor Financiari din Romania] – pentru articolul „Fundamentarea deciziilor privind investițiile de portofoliu pe baza opiniei de audit în cazul firmelor cotate la Bursa de Valori București", Congresul al VII-lea al profesiei de auditor financiar – CAFR 2021; autori: Aevoae G., Robu I.B., Dicu R., **Herghiligiu I.V.**
35.	**Diploma de excelenta:** *Process design: a theoretical approach to organizational EMS implementation,* Simpozionul Internaţional "Universul Ştiinţelor", Ediţia a VIII-a, 22 octombrie 2017, Iasi, Romania
36.	**Diploma de excelenta:** *Organizational barriers associated to environmental management system integration,* Simpozionul Internaţional "Universul Ştiinţelor", Ediţia a VIII-a, 22 octombrie 2017, Iasi, Romania

Data: *01.10.2025*
Prof.dr.habil. Ionuț Viorel HERGHILIGIU

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă Inginerie Mecanică

Numele şi prenumele: **Homutescu Vlad Mario**

A. Teza de doctorat.

1. Homutescu V. M., Contribuţii la simularea numerică a maşinilor Stirling, 2004, îndrumător ştiinţific prof.univ.dr.ing. Emil Jugureanu, specializarea Inginerie mecanică, Universitatea "Gheorghe Asachi" din Iaşi

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. Giurcă V., Homutescu V.M., Homutescu C.A., Bazele dinamicii gazelor. Vol. I. Ed. Cermi Iaşi, ISBN 973-9378-09-9, 1998, 326 p., 40r/p, 100 ex., cota la Biblioteca Naţională III 235568.
2. Zubcu D.S., Zubcu V., Dragomir-Stanciu D., Homutescu V.M., Homutescu C.A., Condensatoare de abur. Ed. „Gheorghe Asachi" Iaşi, ISBN 973-9178-61-8, 1998, 92 p., 40 r/p, 100 ex., cota la Biblioteca Naţională II 458337.
3. Homutescu C.A., **Homutescu V.M.**, Homutescu A., Maşini şi instalaţii termice. Ed. CERMI, Iaşi, 1999, ISBN 973-9378-74-9, 272 p., 45 r/p, 100 ex.
4. **Homutescu V.M.**, Homutescu C.A., Homutescu A., Maşini şi instalaţii termice şi hidraulice. Ed. CERMI, Iaşi, 2001, ISBN 973-8000-90-4, 268 p., 45 r/p, 110 ex., 7 ex. la Biblioteca T.U. Iaşi.
5. Homutescu C.A., Savitescu Gh., Jugureanu E., **Homutescu V.M.**, Introducere în maşini Stirling. Ed. CERMI, Iaşi, 2003, ISBN 973-667-016-3, 124 p., 49 r/p, 100 ex.
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7. **Homutescu V.M.**, Bălănescu D.-T., Echipamente termice. Ejectoare. Editura Performantica, Iaşi, 2018, 177 p., tiraj 70 ex., ISBN 978-606-685-605-8, 41 r/p, Arial 11.
8. Bălănescu D.-T., **Homutescu V.M.**, Generatoare de abur. Calculul termic – îndrumar pentru proiect. Editura Performantica, Iaşi, 2018, 164 p., tiraj 70 ex., ISBN 978-606-685-602-7, 47 r/p, TNR 10.
9. Bălănescu D.T., **Homutescu V.M.**, Construcția și calculul cazanelor și turbinelor. Editura Performantica, Iaşi, 2021, ISBN 978-606-685-813-7, 209 p., tiraj 60 ex., 4 ex. la Biblioteca Universităţii.
10. **Homutescu V.M.**, Bălănescu D.-T., Ulian T.-M., Compresoare cu piston. Îndrumar de proiect. Editura Performantica, Iaşi, 2022, ISBN 978-606-685-962-2, 186 p., tiraj 70 ex., 4 ex. la Biblioteca Universităţii, Arial 12, 41 r/p.
11. Bălănescu D.-T., **Homutescu V.M.**, Atanasiu M.-V., Generatoare de abur. Aplicații în Mathcad. Ed. Performanica, Iași, 2023, 259 p., 45 r./p, 4 ex. la Biblioteca Universităţii, ISBN 978-630-328-055-4.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

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1. Compresoare, curs, 2018-2024, 170 p. http://mario-homutescu.mec.tuiasi.ro/

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

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22. Bălănescu D.-T., **Homutescu V.M.**, Straw Energy saving Solution: Power Plant Based on a Hot Air Turbine. Procedia Engineering, volume 181, 2017, pp 698-705, 10th International Conference Interdisciplinarity in Engineering, INTER-ENG 2016; Petru Maior University of Tîrgu Mureş, Romania; 6 October 2016 through 7

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L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
11 octombrie 2025

prof. univ. dr. ing. Vlad Mario Homutescu

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **BOGDAN HORBANIUC**

A. Teza de doctorat. *Contribuţii la stocarea energiei termice prin schimbare de fază*, 1996

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

a. Horbaniuc B., *Refrigeration and Air-Conditioning*, în *Encyclopedia of Energy*, Volume 5, Elsevier Inc., N.Y, ISBN 978-0-12-176480-7, 261-289, **2004**

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Horbaniuc B., *Termodinamică tehnică* – Vol.1, ed. AGIR, ISBN 978-973-720-614-5, **2015**

2. Horbaniuc B., Dumitrascu Gh., *Procese de ardere*, ed. Politehnium, ISBN 978-973-621-241-3, **2008**

3. Dumitrascu Gh., Horbaniuc B., *Optimizarea exergoeconomica*, ed. Politehnium, ISBN 978-973-621-242-0, **2008**

4. Horbaniuc B., *Instalaţii frigorifice şi de condiţionare în industria alimentară*, Vol. II, *Maşini şi instalaţii frigorifice specifice industriei alimentare*, Editura „Cermi" Iaşi, ISBN 978-973-667-206-4, 291 pag., **2007**

5. Horbaniuc B., *Instalaţii frigorifice şi de condiţionare în industria alimentară*, Vol. I, *Termodinamică. Teoria frigului şi climatizării*, Editura „Cermi" Iaşi, ISBN 978-973-667-214-9, 333 pag., **2006**

6. Horbaniuc B., Dumitraşcu Gh., *Thermodynamique technique et transfert de chaleur,* Editura "SATYA", Iaşi, ISBN 973-97945-6-4, 216 pag., **1997**

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Horbaniuc B., Căliman R., *Termotehnică şi maşini termice – îndrumar de laborator,* Rotaprint executat la Universitatea din Bacău, Bacău, 362 pag., **1993**

2. *** *Probleme de termotehnică,* Membru în colectivul de redactare al Catedrei de Termotehnică de la Institultul Politehnic Iaşi. Culegere editată la Centrul de multiplicat cursuri al Institutului Politehnic Bucureşti, pentru uzul studenţilor care participă la concursul profesional de Termotehnică, Bucureşti, **1986**

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale (BDI).

1. Horbaniuc B., Dumitraşcu G., Atanasiu M., Finite-difference approach of ice build-up around a cylindrical pipe, *IOP Conf. Series: Materials Science and Engineering*, **997** (2020) 012146 IOP Publishing doi:10.1088/1757-899X/997/1/012146, **2020**

2. Horbaniuc B., Dumitraşcu G., Dumencu A., Two-dimensions finite-difference heat transfer study for a single borehole heat storage system during a seasonal charge-discharge cycle, *IOP Conf. Series: Materials Science and Engineering*, 595 (2019) 012009 IOP Publishing doi:10.1088/1757-899X/595/1/012009, **2019**

3. Dumitrașcu G., Feidt M., Namat A.R.J., Grigorean Ş., Horbaniuc B., Thermodynamic analysis of irreversible closed Brayton engine cyclesused in trigeneration systems, *IOP Conf. Series: Materials Science and Engineering*, 595 (2019) 012022 IOP Publishing doi:10.1088/1757-899X/595/1/012022, **2019**

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5. Dumencu A., Horbaniuc B. and Dumitraşcu G., Study of a two-dimension transient heat propagation in cylindrical coordinates by means of two finite difference methods, *IOP Conf. Series: Materials Science and Engineering* 147 (2016) 012139 doi:10.1088/1757-899X/147/1/012139, **2016**

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8. Horbaniuc B., Dumitraşcu Gh., *Comparison Between a Retrofitted and a Newly-Designed Oxycombustion Boiler Intended to Be Used in Carbon Dioxide Sequestration*, Environmental Engineering and Management Journal, **13** (9), 2269-2274, **2014**

9. Horbaniuc B., Dumitraşcu Gh., Feidt M., Dumencu A., *Finite Difference Approaches for One-Dimension Solid-Liquid Phase Change in Plane and Cylindrical Geometries*, Applied Mechanics and Materials, 659, 389-394, (BDI: scientific.net/AMM.659.389) **2014**

10. Horbaniuc B., Dumitraşcu Gh., Panaite C.E., *NOx Emissions of a Natural Gas-Fired Steam Boiler Using Oxycombustion*, Environmental Engineering and Management Journal, **9** (10), 1375-1380, **2010**

11. Dumitraşcu Gh., Horbaniuc B., Cozmâncă-Pătraşcu A., *Study of the Environmental Effects of Heating Systems*, Environmental Engineering and Management Journal, **9** (10), 1427-1430, **2010**

12. Dumitraşcu Gh., Horbaniuc B., *Solar-Assisted Joule-Brayton Engines Used to Reduce Carbon Dioxide Emissions*, Environmental Engineering and Management Journal, **9** (10), 1431-1435, **2010**

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Agronomie, vol. **55**, nr.2, Editura „Ion Ionescu de la Brad" Iaşi, Editat cu sprijinul Ministerului Educaţiei şi Cercetării, pp. 79 - 83, ISSN 1454-7414, **2012**

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9. Horbaniuc B., Dumitraşcu Gh., *Algorithm for Oxygen-Enriched Combustion*, Bul. Ins. Polit. Iaşi, **LIV** (**LVIII**), fasc.2, Constr. Maşini, 247-252, **2008**

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11. Homutescu V.M., Dumitrascu Gh., Horbaniuc B., *Evaluation of the Work Lost due to Leaks through Cylinder-Displacer Gap*, Termotehnica, serie nouă, anul XII, 2, ISSN 1222-4057, 70-74, 2008

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15. Horbaniuc B., Dumitraşcu Gh., *Outward Solidification around Cylindrical Metallic Walls*, Buletinul Institutului Politehnic din Iaşi, publicat de Universitatea Tehnică "Gh. Asachi", Iaşi, LII (LVI), Fasc. 6C, Secţia Construcţii de Maşini, ISSN 1011-2855, 157-164, 2006

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17. Ioan C.C., Horbaniuc B., Dumitraşcu Gh., *Education for Sustainable Development Guidelines,* Environmental Engineering and Management, An International Journal, **4** (3), 405-419, **2005**

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33.Horbaniuc B., Dumitraşcu Gh., Stadoleanu O.V., *The Study of Heat Conduction in Solidification around Cylindrical Walls,* Bul. Ins. Polit. Iaşi, **XLIII** (**XLVII**), *1-2*, Constr. Maşini, 77-85, **1997**

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J. Invenţii.

K. Contracte de cercetare.

1. Cercetări pentru realizarea de noi tipuri de recuperatoare de căldură aer - aer, 1984, I.P.Iaşi, beneficiar INCERC Bucureşti, colaborator principal

2. Recuperatoare de căldură cu fluid intermediar cu amestec, 1985, I.P.Iaşi, beneficiar INCERC Bucureşti, colaborator principal

3. Studiu şi soluţie privind utilizarea transformatoarelor de căldură pentru recuperarea căldurii din apele tehnologice de răcire, 1986/1987, I.P.Iaşi, beneficiar Intr. Metalurgica Iaşi, colaborator principal

4. Studii şi cercetări privind unele măsuri de raţionalizare şi economisire a energiei termice, 1988/1989, I.P.Iaşi, beneficiar Intr. Textile Vaslui, colaborator principal

5. Sistem sorb-ejector pentru pompe multietajate care să permită o diferenţă de nivel între sorb şi pompă mai mare de 10 m, 1990, I.P.Iaşi, beneficiar IUPS Botoşani, colaborator principal (53/8647)

6. Studii şi cercetări privind realizarea unor motoare Stirling de mică putere pentru agricultură, 1991/1992, I.P.Iaşi, beneficiar CNCSU-MIS Bucureşti, colaborator principal (1555)

7. Studii şi cercetări privind stocarea căldurii şi frigului bazat pe călduri latente, 1991/1993, I.P.Iaşi, beneficiar CNCSU-MIS Bucureşti, responsabil temă (1556)

8. Metode moderne de intensificare a transferului de căldură (transferul de căldură la utilizarea amestecurilor bifazice aer-apă, la schimbătoare de căldură cu plăci, la curgerea cu vârtejuri tip Taylor), 1994/1997, I.P.Iaşi, beneficiar CNCSU-MIS Bucureşti, colaborator principal (10116/C76)

9. Grant internaţional în cadrul programului SOCRATES-Grundtvig "Education for Sustainable Development" SUSTRAIN *Development and testing of training modules and methods for a sustainable development*, 100734-CP-1-2002-1-BE-GRUNDTVIG-G1/2003, Director grant: Dumitraşcu Gh., **2003-2007**

10. Grant CEEX *Echipament de metalizare prevăzut cu sistem inteligent Fuzzy Logic pentru comanda şi controlul procesului de pulverizare termică* (Acronim EMCSI). 173/2006, Director grant: Prof.dr.ing. Constantin Baciu, Universitatea Tehnică „Gh. Asachi" Iaşi, **2006-2008**

11. Grant CEEX *Straturi tip barieră termică pentru pistoanele motoarelor cu ardere internă* (Acronim BarTer), 260/2005, Director grant: Prof.dr.ing. Constantin Baciu, Universitatea Tehnică „Gh. Asachi" Iaşi, **2006-2008**

12. Grant CEEX *Cercetări privind realizarea noii tehnologii de obţinere a sculelor de deformare plastică la rece tip ştanţe, matriţe, poansoane, dornuri de tragere, scule de laminare la rece-extrudare şi organelor de maşini supuse la uzare tip tije, axe, arbori, supape de presiune, nucă pivot, prin borocarbovanadizare rapidă, controlată*

electrotermic (Acronim BOVA CONTROL), 8/2005, Director grant: Prof.dr.ing. Constantin Baciu, Universitatea Tehnică „Gh. Asachi" Iaşi, **2006-2008**

13. Grant CEEX *Noi tipuri de camere de ardere policarburante cu funcţionare în regim pulsatoriu*, acronim PULSOCAM, director grant prof.dr.ing. Dumitraşcu Gheorghe, Universitatea Tehnică „Gh. Asachi" Iaşi, **2006-2008**

14. Grant PN II/ Parteneriate, *Instalaţie de generare a ceţii pentru protecţia plantelor contra factorilor nefavorabili ai mediului, utilizând camere de ardere pulsatorie*, acronim PULSOPROTECT director grant prof.dr.ing. Dumitraşcu Gheorghe, Universitatea Tehnică „Gh. Asachi" Iaşi **2007-1010**

15. Grant tip A., *Studiul sistemelor energetice cu oxi-combustie* Director grant: Prof.dr.ing. Dumitraşcu Gh., Universitatea Tehnică „Gh. Asachi" Iaşi, **2007-2008**

16. Grant POSDRU „Inginerie de mentenanţă pentru ELI-NP", ID 142253, Coordonator partener Universitatea Tehnică „Gh. Asachi" Iaşi, **2014-2015**

L. Premii, distincţii.

M. Alte realizări semnificative.

Numit prin O.M. 252/02.06.2014, membru în Colegiul Consultativ pentru Cercetare-Dezvoltare şi Inovare, din cadrul M.E.N.

Numit de Ministerul Învăţământului şi Cercetării **NCP** (National Contact Point – Punct Naţional de Contact) pentru Răspândirea Excelenţei şi Extinderea Participării (Spreading Excellence and Widening Participation) în cadrul **Programului Orizont 2020**, finanţat de UE − noiembrie 2013

Editor al volumelor Colocviului Francofon COFRET 2010 organizat la Iaşi

Membru (începând cu 2010) în Comitetul de Organizare al Colocviilor Francofone COFRET organizate odată la 2 ani alternativ în Franţa şi România (cu excepţia anului 2012, când a fost organizat în Bulgaria, la Sozopol)

Membru în colectivul de redactare a Toolkit-ului de educaţie pentru dezvoltare durabilă elaborat în cadrul grantului internaţional nr. 100734-CP-1-2002-1-BE-GRUNDTVIG-G1/2003 cu acronimul SUSTRAIN (Development and testing of training modules and methods for a sustainable development) – beneficiar Comisia Europeană (program SOCRATES-Grundtvig) 2004 − 2006

Coordonatorul numărului 5-6/2002 al revistei "Construcţia de Maşini", dedicat Catedrei de Termotehnică de la Universitatea Tehnică "Gh. Asachi" Iaşi.

Membru (pentru anul 2001) în calitate de referent ştiinţific în Comitetul Ştiinţific al primei **Conferinţe Internaţionale de Transfer de Căldură şi Masă şi Mecanica Fluidelor (HEFAT 2001)**, organizată de Rand Afrikaans University din Johannesburg, Africa de Sud.

Participant (în intervalul 20-31 iulie 2000) la **Şcoala Internaţională de Vară** organizată de Universitatea "Ovidius" Constanţa pe tema "Conversia şi Conservarea Energiei şi Impactul

asupra Mediului", cu o prelegere pe tema controlului puterii turbinelor cu gaze prin răcirea aerului furnizat de compresor.

Prelegere cu titlul "*Some Considerations on Power Control in the Gas Turbine Section of Co-Generation Systems by Using Air Cooling and Steam Injection*" prezentată la la Şcoala Internaţională de Vară organizată de Universitatea "Ovidius" (în intervalul 20-31 iulie 2000) Constanţa "Conversia şi Conservarea Energiei şi Impactul asupra Mediului".

Specializare ca **research scholar** (în perioada iulie – septembrie 1999) la ***Duke University, Durham, North Carolina*** din S.U.A. in cadrul unui contract de cercetare finanţat de **Compania *Boeing*** privind minimizarea generării de entropie în sistemele de climatizare ale aeronavelor de pasageri şi militare. În această calitate am fost invitat de Departamentul de Inginerie Mecanică şi Ştiinţa Materialelor de la Universitatea Duke.

Consultant al Companiei **American Air Liquide Inc.,** (Countryside, IL, USA), în perioada decembrie 1998 – iulie 1999, pe problema dezvoltării unui nou concept în domeniul arderii cu aer îmbogăţit cu oxigen la generatoarele de abur supracritice de mare şi foarte mare putere utilizate în centralele termoelectrice din SUA.

Participant cu bursă la ***Institutul NATO de Studii Avansate*** în cadrul unui curs de vară organizat în iulie 1998 la Neptun (România) pe tema "Optimizarea termodinamică a sistemelor termodinamice complexe".

Membru (în 1998) în Consiliul Ştiinţific al Conferinţei **ECOS '98**, Nancy, Franţa, în calitate de referent ştiinţific pentru lucrările propuse spre prezentare.

Referent ştiinţific (pentru peer review) al revistei cotate I.S.I. *Energy – The International Journal*, editată de grupul Elsevier.

Data, 26.01.2025

Prof.dr.ing. **Bogdan Horbaniuc**

Sinteza număr lucrări pe categorii:

		Total	Prim autor	Coautor
1	Reviste din strainatate I.S.I.	19	10	8
2	Reviste cu referenti din tara	41	22	19
3	Volume conferinte internationale-Romania	11	4	7
4	Volume (proceedings) conferinte internationale	50	23	27
5	Alte reviste din tara si conferinte nationale	13	3	10
6	Alte publicatii	6	2	4
	TOTAL	**140**	**64**	**75**

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Conf. dr. ing. IANUȘ GELU

A. Teza de doctorat

Contribuții la studiul influenței lubrificației asupra fiabilității rulmenților (lubrifianți plastici)
Conducător stiintific : prof. dr ing. Mihai GAFITANU
Anul sustinerii : 2001

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

1. GELU IANUȘ, VISARION MĂTIEȘ, GHEORGHE PRISĂCARU, ș.a. Mecanică fină și Mecatronică vol.2 Ed. "Tipografia Centrală" Chișinău ISBN 978-5-88554-127-5, 2022.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Andrei Zamă, Viorel Paleu, Gelu Ianus, Preload testing system for angular contact ball bearings using shape memory alloy modules. Conference: 15th International Conference on Tribology ROTRIB'24: Reconfigure Tribology for the Future, 18-20 April, At: Bucharest, ROMANIA, ACTA TECHNICA NAPOCENSIS, Vol. 67, Issue Special IV, Series: APPLIED MATHEMATICS, MECHANICS, AND ENGINEERING, August, 2024
2. Ciolacu F., Ianuș G., Marian G., Munteanu C., Paleu V., Nazar B., Istrate B., Gudîma A., Daraduda N., A Qualitative Assessment of the Specific Woody Biomass of Fruit Trees (2022) Forests, 13 (3), art. no. 405, DOI: 10.3390/f13030405, WOS:000775378000001 FI (2021):3.282
3. Marian G., Ianuș G., Istrate B., Banari A., Nazar B., Munteanu C., Măluțan T., Gudîma A., Ciolacu F., Daraduda N., Paleu V., Evaluation of Agricultural Residues as Organic Green Energy Source Based on Seabuckthorn, Blackberry, and Straw Blends, (2022) Agronomy, 12 (9), art. no. 2018, DOI: 10.3390/agronomy12092018, WOS:000856162800001, FI (2021): 3.949
4. Nastasa R.O., Tufescu A., Munteanu C., Istrate B., Przybyl A., Ianus G., Contact Stress Simulation for Mg-0.5Ca-xMn Alloys used for Medical Application, (2022) Archives of Metallurgy and Materials, 67 (2), pp. 405 - 408, DOI: 10.24425/amm.2022.137771, WOS:000813489200003, FI (2021): 0.633
5. C I Bradu and G Ianuș*, A prospective view on biodegradable lubricants for hybrid and electric vehicles, IOP Conference Series: Materials Science and Engineering, Volume 1262, The 10th International Conference on Advanced Concepts in Mechanical Engineering (ACME 2022) 09/06/2022 - 10/06/2022 Online, DOI 10.1088/1757- 899X/1262/1/012001
6. Ianuș, G., Cojocaru, D., Oprisan. M.C., Paleu, V., Olaru, D.N., Power loss in grease lubricated ball bearings

IOP Conference Series: Materials Science and Engineering, 2020, 724(1), 012009
WOS:000619349400009; DOI: 10.1088/1757-899X/724/1/012009; ISSN: 1757-8981;
7. Ianuș, G., Cojocaru, D., Oprișan, M.C., Carlescu, V., Olaru, D.N., Friction models for grease lubricated ball -race contacts, IOP Conference Series: Materials Science and Engineering, 2020, 997(1), 012012
DOI: 10.1088/1757-899X/997/1/012012; ISSN: 17578981;
8. G Ianuș, A C Dumitrașcu, V Cârlescu and D N Olaru, Friction torque in thrust ball bearings grease lubricat ed. IOP Conf. Series: Materials Science and Engineering, 147 (2016) 012026, DOI 10.1088/1757-899X/147/1/012026
9. Marian Grigore, lanuș Gelu, Istrate Bogdan, Gudima Andrei, Nazar Boris, Pavlenco Andrei, Banari Alexandru, Daraduda Nicolae, Quality of pellets produced from agricultural wood residues specific to thePrut river basin, BicnnK arpapHOÎ HayKu npnnopHOMop'n, DOI: https://doi.org/10.31521/2313-092X/2021-1(109)-11, CZU: 662,6381, Pag. 84-93
10. D Cojocaru, G Ianuș, V Cârlescu, Film thickness in miniature ball bearing grease lubricated,
IOP Conference Series: Materials Science and Engineering 1262 (1), 012005, 2022, DOI 10.1088/1757-899X/1262/1/012005
11. NA Nițu, M Benchea, G Ianuș, C Bujoreanu, Noise Attenuation Analysis of a Multilayer Wall, Innovations in Mechanical Engineering II, 47-57,2022, Springer, Cham. https://doi.org/10.1007/978-3-031-09382-1_5
12. M Benchea, C Bujoreanu, G Ianus, Acoustic Performance of Some Lined Dissipative Silencers, Innovations in Mechanical Engineering, 302-311, 2022, Springer, Cham. https://doi.org/10.1007/978-3-030-79165-0_29
13. Marian Grigore, Ianuș Gelu, Gudima Andrei, Nazar Boris, Istrate Bogdan, Banari Alexandru, Pavlenco Andrei, Daraduda Nicolae, The calorific value of pellets produced from raw material collected fromboth sides of the Prut river, Journal of Engineering Sciences, DOI: https://doi.org/10.52326/jes.utm.2022.29(4).10, CZU: 620.952:662.63(478+498), Pag. 126-137
14. Simulation of high-pressure pump behaviour after running in urban regime
Iordache, R.C., Bujoreanu, C., Petrea, N.D., Ianuș, G.
IOP Conference Series: Materials Science and Engineering, 2020, 997(1), 012014
DOI: 10.1088/1757-899X/997/1/012014; ISSN: 17578981;
15. Evaluation of friction behaviour on human finger skin considering precision grip task
Carlescu, V., Oprișan, C.M., Ianuș, G., Olaru, D.N.
IOP Conference Series: Materials Science and Engineering, 2020, 997(1), 012007
DOI: 10.1088/1757-899X/997/1/012007; ISSN: 17578981;
16. In situ study on the condensate latent heat recovery and its economic impact in the case of a 60 kW condensing boilers system, Bălănescu, D.T., Homutescu, V.M., Ianuș, G., Popescu, A.
IOP Conference Series: Materials Science and Engineering, 2020, 997(1), 012139
DOI: 10.1088/1757-899X/997/1/012139; ISSN: 17578981
17. Study on the in situ performance of a 60 kW condensing gas boilers thermal installation and economic assessment , Bălănescu, D.T., Homutescu, V.M., Ianuș, G., Lupu, A.G.
IOP Conference Series: Materials Science and Engineering, 2020, 997(1), 012140
DOI: 10.1088/1757-899X/997/1/012140; ISSN: 17578981;
18. Experimental and theoretical insight into formulations based on poly(Vinyl alcohol boric acid) and diclofenac sodium salt, Irimiciuc, S.-A., Ianus, G., Agop, M., ...Paun, V.-A., Paun, V.-P.

UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, 2020, 82(3), pp. 219-230 WOS:000555516500020; ISSN: 1223-7027;

19. Experimental study of acoustic performances of reactive engine mufflers
Bujoreanu, C., Tufescu, A., Benchea, M., Ianuș, G.
IOP Conference Series: Materials Science and Engineering, 2019, 564(1), 12077
DOI: 10.1088/1757-899X/564/1/012077; WOS:000562599900076; ISSN: 1757-8981

20. Experimental study of acoustic performances of reactive engine mufflers Bujoreanu, C., Tufescu, A., Benchea, M., Ianuș, G.
IOP Conference Series: Materials Science and Engineering, 2019, 564(1), 12077 DOI: 10.1088/1757-899X/564/1/012077; WOS:000562599900076; ISSN: 1757-89

21. Carmen Bujoreanu, Marcelin Benchea, Gelu Ianuș, Jose Machado, Theoretical and Experimental Considerations on Acoustic Attenuation of Plenum Boxes Lined with Different Materials, HELIX 2018: Innovation, Engineering and Entrepreneurship pp 547-553, Lecture Notes in Electrical Engineering book series (LNEE, volume 505)

22. M I Nazare, V Paleu, S Bhaumik, G Ianuș and D N Olaru, Performances of automotive lubricants - tests on four ball machine, IOP Conference Series: Materials Science and Engineering,Volume 444, November 2018

23. I. Agape, L. Gaiginschi, G. Ianuș, N. Cimpoeșu The Analysis of an Internal Combustion Engine breakdown - Case Study.- IOP Conf. Series: Materials Science and Engineering 209 (2017) 012077 doi: 10.1088/1757-899X/209/1/012077

D. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Reviste

E. Brevete obţinute în întreaga activitate

BRV 1 Brevet de inventie nr. 127562 A2 - RO-BOPI 6/2012, din 29.06.2012
Titlul brevetului : Procedeu și microtribometru inerțial pentru studiul fenomenului de frecăre de rostogolire .
Autor brevet :Olaru Dumitru, Stamate Vasile Ciprian, Prisăcaru Gheorghe, **Ianuș Gelu**

BRV 2 Brevet de inventie nr. 127849 A2,- RO-BOPI 9/2012, din 28.09.2012
Titlul brevetului: *Microtribometru gravitațional pin-disc pentru studiul fenomenului de frecare de alunecare*
Autor brevet : Olaru Dumitru, Stamate Vasile Ciprian, Prisăcaru Gheorghe, **Ianuș Gelu,** Dumitrașcu Alina Corina

Data: 7. 03. 2025 **Semnătura:**

Anexa Lista de lucrari

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: șef lucrări univ. dr. ing. IGNĂTESCU-MANEA IRINA

A. Teza de doctorat.
„Contribuţii la reducerea impactului căilor de comunicaţie asupra mediului înconjurător”, 2010, Universitatea Tehnică „Gh. Asachi” Iaşi, Inginerie civila, prof. univ. dr. ing. HORIA ZAROJANU

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

Andrei Slonovschi, Liviu Prună, Irina IGNĂTESCU-MANEA, Ioana-Roxana Baciu Infografică. Autocad. Comenzi ce permit modificarea proprietăților obiectelor. Comenzi, setări și stiluri de cotare. Cotarea desenelor tehnice. Comenzi de interogare. Comenzi ce permit crearea contururilor închise. Editura Pim, Iași, 2024, ISBN 978-606-13-8168-5

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Irina IGNĂTESCU MANEA, ”A PRACTICAL STUDY ON THE SURFACES OCCUPIED BY SANITARY FIXTURES IN THE BATHROOM”, JIDEG vol. 19 No. 2 (2024): ISSUE 2, 2024, pg. 19-28
2. Irina IGNĂTESCU MANEA, Vanda-Ligia DĂNĂILĂ, „STUDY ON IMPROVING THE TEACHING METHODS OF GRAPHIC DISCIPLINES AFTER THE PANDEMIC”, JIDEG vol. 19, ISSUE 1, 2024, pg. 251-256
3. Vanda-Ligia DĂNĂILĂ, Irina IGNĂTESCU MANEA, „INFLUENCE OF PARAMETERS OF THE ELECTRO-HYDRAULIC DEFORMING EQUIPMENT ON THE GEOMETRIC CHARACTERISTICS OF WORKPIECE”, JIDEG vol. 19, ISSUE 1, 2024, pg. 45-48
4. Oana NECULAI, Irina IGNĂTESCU-MANEA, Ana-Maria TOMA, Liliana BODESCU „HYPERBOLIC SUSPENDED GREENHOUSES”, JIDEG vol. 17, ISSUE 2, 2022, pg. 65-68
5. Ana-Maria TOMA, Irina IGNĂTESCU MANEA, Oana NECULAI “AUTOCAD CAN BE FUN!”, JIDEG vol. 17, ISSUE 2, 2022, pg. 61-64

6. Roxana Hobai, Irina IGNĂTESCU-MANEA – Considerations regarding Buhăieşti – Roman railway, articol acceptat spre publicare (la data de 14 mai 2010) în Analele Universităţii "Al. I. Cuza", Seria Geografie, Editura Universităţii "Al. I. Cuza" Iaşi, 2010
7. Irina IGNĂTESCU-MANEA – Cuantificarea impactului căilor de comunicaţie asupra terenurilor agricole, Revista Drumuri Poduri nr. 136, 2009, ISSN 1222-4235, pag. 16÷18

I. Lucrări ştiinţifice publicate în volumele conferinţelor.
1. Irina IGNĂTESCU MANEA, Oana NECULAI, Ana-Maria TOMA, „A STUDY ABOUT BUILDING A GARDEN INSIDE A KINDERGARTEN", 9th International Conference on Engineering Graphics and Design 2024, JIDEG vol. 19, ISSUE 1, 2024, pg. 213-218, June 14-15, 2024, Cluj-Napoca
2. Ana-Maria TOMA, Irina IGNĂTESCU MANEA, Oana NECULAI, „METHODS OF GENERATING AUTOCAD 3D SECTIONS", 9th International Conference on Engineering Graphics and Design 2024, JIDEG vol. 19, ISSUE 1, 2024, pg. 121-124, June 14-15, 2024, Cluj-Napoca
3. Zarojanu, H., Gh., Irina IGNĂTESCU-MANEA – Traficul rutier echivalent – criteriu în cadrul rezistenţei ecologice, articol acceptat spre publicare (la data de 17.02.2010) în Vol. Congresului naţional de Drumuri şi Poduri (cu participare internaţională), 2010
4. Irina IGNĂTESCU-MANEA – Fragmentarea habitatului, Vol. A VI-a Conferinţă Naţională Drumul şi Mediul Înconjurător, Ed. InterGraf, Băile Herculane, 2005, ISBN 973-87345-5-X, pag. 96÷102.
5. Irina MANEA, Coman, D. – Beton asfaltic pentru straturi rutiere drenante şi fonoabsorbante, Revista Drumuri Poduri nr. 66, 2002, ISSN 1222-4235, pag. 21÷23

J. Invenţii.

K. Contracte de cercetare.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
1.10.2025

Nume, semnătura
Irina Ignătescu-Manea

* Conform H.G. 1175/ 2006

Anexa Lista de lucrări

LISTA DE LUCRĂRI ÎN DOMENIUL DE STUDII UNIVERSITARE DE LICENTA PENTRU SPECIALIZAREA INGINERIE MECANICĂ

Numele și prenumele: Iordache Constantin-Răzvan

A. Teza de doctorat.

"Cercetări privind reducerea uzurii mecanismului rolă-sabot din pompele de înaltă presiune de tipul rampă comună", 2023, Universitatea Tehnică "Gheorghe Asachi" din Iași, Domeniul Inginierie Mecanică, Conducator de doctorat Prof. Dr. Ing. Bujoreanu Carmen

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Petrea N. D., Iordache R. C., Bujoreanu C., Analysis of Ball Check Valves with Conical and Spherical Seat Designs from Common-Rail Pumps, Machines, 10(10), 959, 2022
2. Iordache C.R., Bujoreanu, C., Alaci S., Ciornei F. C., Romanu I. C., Wear Reduction on the Roller–Shoe Mechanism at High Operation Loads, Coatings, 10, 959, 2024
3. Iordache R. C., Petrea N. D., Bujoreanu C., Theoretical performance of exhaust valves in high-pressure pumps under maximum flow rates, Environmental Engineering and Management Journal, 2024
4. Iordache R.C., Bujoreanu C., Failure of roller-shoe contact from high pressure injection pumps, Buletinul Institutului Politehnic din Iaşi, Vol. 65, pp. 27-34, 2019
5. Iordache R.C., Bujoreanu C., Fractures analysis in high-pressure pumps, Buletinul Institutului Politehnic din Iaşi, Vol. 67, pp. 31-38, 2021
6. Iordache R. C., Bujoreanu C., High-pressure pumps evolution and wear analysis methods, Buletinul Institutului Politehnic din Iaşi, Vol. 68, pp. 107-117, 2022
7. Iordache R. C., Bujoreanu C., Olaru D., Clearance optimization for roller-shoe transmission mechanism from diesel high-pressure common rail pumps. Acta Technica Napocensis (Rotrib), 2024

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Iordache R. C., Bujoreanu C., Ciornei F. C., Scuffing analysis of roller-shoe mechanism after an aggressive test, IOP Conference Series: Materials Science and Engineering, ModTech, vol. 591, 2019
2. Iordache R. C., Petrea N. D., Bujoreanu C., Wear's issues on common rail high-pressure pumps, IOP Conference Series: Materials Science and Engineering, Rotirb, vol. 724, 2019
3. Iordache R. C., Bujoreanu C., Petrea N. D., Ianuș G., Simulation of high-pressure pump behaviour after running in urban regime, IOP Conference Series: Materials Science and Engineering, ACME, vol. 997, 2020
4. Iordache R. C., Petrea N. D., Bujoreanu C., Study of roller-shoe contact during high-pressure injection pump normal operation, IOP Conference Series: Materials Science and Engineering, IMANEE, vol. 1253, 2022
5. Iordache R. C., Bujoreanu C., Influence of test parameters on the operation of automotive high-pressure pumps, IOP Conference Series: Materials Science and Engineering, ACME, vol. 1262, 2022

J. Invenţii.

K. Contracte de cercetare.

1. Membru în proiectul POCU/626/6/13/130661, Proiect cofinanţat din Fondul Social European prin Programul Operaţional Capital Uman 2014 - 2020 , Axa prioritară 6 - Educaţie şi competenţe, Obiectivul specific 6.13,
Denumirea proiectului: Stagii de PRACTICă performante pentru studenții Universității Tehnice "Gheorghe Asachi" din Iași – PRACTIC,
Director de proiect: Seghedin Neculai Eugen,
Denumire functie: Tutor

2. PROIECTUL PRIVIND ÎNVĂȚĂMÂNTUL SECUNDAR (ROSE) - Şcoala de vară pentru elevi „Vreau să fiu student" (MECSTUD), Acord de grant nr. 329/SGU/PV/III din 22.06.2020
Director de proiect: Ianuș Gelu
Denumire funcție: Expert Organizare Activitati (EOA)

L. Premii, distincţii.

M. Alte realizări semnificative.

Data, 20.10.2025

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **Jitaru Oana**

A. Teza de doctorat.

Competenţă civică şi comportament prosocial în contextul crizei din România (Coordonator Prof. Univ. Dr. Septimiu Chelcea), Universitatea din Bucureşti, Facultatea de Sociologie şi Asistenţă Socială, 2012.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

Gavril, Oana. (2002). *Psihologie managerială*. Stog, Larisa şi Caluschi, Mariana (coord.) Chişinău: Editura "Cartier".

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

Jitaru, Oana și Bobu, Roxana. (2023). Dezvoltare personală și consiliere în carieră. Ghid pentru profesori și studenți. Iași: Editura Performantica, acreditată CNCSIS București, 1142/30.06.2003 ISBN 978-630-328-058-5.

Jitaru, Oana. (2018). *Metode interactive pentru stimularea învățării eficiente*. Iași: Editura Performantica.

Gavril Jitaru, Oana. (2015). (coord.). *Teme de pedagogie generală.* Iași: Editura Performantica.

Gavril Jitaru, Oana. (2015). *Aplicații didactice pentru teoria educației. Comunicare educațională asertivă*. Iași: Editura Performantica.

Gavril, Oana. (2002)**.** *Asertivitatea de la abilitate la competenţă*. Iaşi: Editura Performantica.

Caluschi, Mariana (coord.), **Gavril Jitaru, Oana**, Șerban, Mihaela, Urmă, Daniel și Nechifor, Constantin. (2008). *Comportamentul consumatorului de la tradiții la integrare europeană*. Iași: Editura Performantica.

Caluschi, Mariana (coord.). **Gavril Jitaru Oana**, Pântia, Ana Maria şi Măgurianu, Adrian Liviu. (2003). *Managerul inventator - o nouă profesie?*. Iaşi: Editura Performantica

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Jitaru, Oana, Bobu, Roxana și Bostan, Cristina Maria. (2023). Social and Emotional Skills in Adapting Students to the Academic Environment. Revista Românească pentru Educaţie Multidimensională, 15, 1, 590-605, https://doi.org/10.18662/rrem/15.1/713, ISSN: 2066-7329 | e-ISSN: 2067-9270. Covered in: Web of Science (WOS); EBSCO; ERIH+; Google Scholar; Index Copernicus; Ideas RePeC; Econpapers; Socionet; CEEOL; Ulrich ProQuest; Cabell, Journalseek; Scipio; Philpapers; SHERPA/RoMEO repositories; KVK; WorldCat; CrossRef; CrossCheck.

Jitaru, Oana and Bobu, Roxana. (2023). Students` Resilience And Personal Development In Covid 19 Pandemic Pages: 441 - 450 Author(s), 9th International Conference Edu World 2022 "Education Facing Contemporary World Issues" (EDU WORLD 2022), 03-04 June, 2022, Pitești, Romania, Web of Science Conference Proceedings Citation Index - Social Sciences & Humanities (CPCI-SSH). https://www.europeanproceedings.com/book-series/EpES.

Anghel, Ionica Ona and **Jitaru, Oana**. (2019). Strategies of Assertive Communication in the Teaching Profession. *The European Proceedings of Social and Behavioural Sciences*. 90-98, e-ISSN: 2357-1330, doi:10.15405/epsbs.2019.08.03.11, https://www.futureacademy.org.uk/files/images/upload/EDUWORLD2018F011.pdf. WOS:000582461100011

Tiron, Elena and **Jitaru, Oana.** (2016). Academic Learning in the Technical Field. Styles of Learning in Students Department for Teaching Stuff Formation in the Technical Field, *Indian Journal of Applied Research*, 6, 9, 224-227 (IF: 3.919, IC value: 74.50).

Ilinca, Mircea, Carcea, Maria, Anghel, Ona şi **Jitaru, Oana**. (2005). *Work in Progress - Computer Software for Predicting Steadiness of the Students. În vol. "Frontier in Education", Indianapolis* SUA, IEEE 07803.9077.6.

Jitaru, Oana, Bobu, Roxana și Anghel, I.Ona, (2024). Enhancing a creative personal branding based on social competence, Proceeding of THE XXVIIITH INTERNATIONAL CONFERENCE OF INVENTICS, *Inventics 2024, Science of creativity*, pp. 40-49, ISSN: 1844-7880. DOI: 10.2478/9788367405799-fm, DOI: 10.2478/9788367405799-toc. https://doi.org/10.2478/9788367405799-fm. Baze de date: SCIENDO

Bobu, Roxana și **Jitaru, Oana.** (2024). Cognitive distortions and students' self-evaluation, in *Values, education, responsability. Pedagogical research*. (pp. 201-207), International Conference "Education in the Perspective of Values", the XVIth edition, held at the "1 December 1918" University of Alba Iulia - Romania, on October 9 - 11, 2024. https://www.ceeol.com/search/book-detail?id=1285986. Baze de date: CEEOL

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2022

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2022

Proiect "Dezvoltarea culturii antreprenoriale a studenților de la inginerie și arhitectură prin crearea unei rețele de centre de pregătire în antreprenoriat-AntreprenorIng", Contract de finanţare: POCU/379/6/21, 2020-2022.

2022-2024

Contract individual de muncă nr. 22262/18.02.2022, expert formator cadre didactice/COR: 235104, Rețea de laboratoare didactice pentru discipline generale, specifice studiilor de ingineri – NETLAB; AG288/SGU/CI/III

2022

Stagii de practică performante pentru studenții Universității Tehnice Gheorge Asachi Iași – PRACTIC, 2022.Contract de finanțare POCU/626/6/13/130661; Post ocupat – expert consiliere.

2022

Contract individual de muncă nr. 21804/08.10.2021, formator consiliere profesională și orientare în carieră, Proiect "Inginer în devenire la CMMI-I.D. CMMI"- AG 347/SGU/SS/III (11.10.2021 – 31.01.2022).

2021-2023

Contract individual de muncă nr. 21154/31.05.2021, expert în științele educației, Proiectul "Platformă integrată pentru îmbunătățirea calității procesului didactic, prin digitalizarea activităților de respectare a eticii și integrității academice, de urmărire a angajabilității absolvenților, CNFIS-FDI-2021-0598.

2021-2023

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2020

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2020

Integrare cu succes la studii universitare la Facultatea de Știința și Ingineria Materialelor - SUCCESS KEY / acord de grant nr.196/SGU/NC/II; Post ocupat: expert formator; an 1 de implementare 2019-2020, an 2 de implementare 2020-2021

2019-2021

Proiectul privind învățământul secundar (ROSE), schema de granturi pentru universități – necompetitive, codul proiectului ROSE nr. 195/SGU/NC/II/13.09.2019, acronim STEPUP, titlul proiectului: !Îmbunătățirea ratei de retenție a studenților in primul an de studii universitare, prin prevenirea abandonului de la Facultatea Inginerie Chimica si Protecția Mediului "Cristofor Simionescu"

2018-2019

Proiectul privind învățământul secundar (ROSE), schema de granturi pentru universități – Centru de învățare (SGU-CI), codul proiectului: ROSE nr. 83/SGU/CI/I

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2019-2024

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2019-2024

Proiectul privind Învățământul secundar ROSE, nr. 18667/28.06.2019, Școala de vară pentru elevi, ”Reacționează chimic cu mediul de la TUIASI” (RCM TUIASI).

2019-2024

Proiectul privind Învățământul secundar ROSE, nr. 18401/20.05.2019, Școala de vară pentru elevi, ”Șansa la Educație la Știința și Ingineria Materialelor (SESIM).

2018-2019

Proiectul privind învățământul secundar (ROSE), schema de granturi pentru universități – Centru de învățare (SGU-CI), codul proiectului: ROSE nr. 83/SGU/CI/I

Titlul proiectului: „Reducerea abandonului școlar al studenților din anul întâi prin activități remediale și de consiliere în Centrul de Învățare din cadrul TUIAȘI (REMEDIUM)”, 2018-2019.

2018-2019

Proiectul privind învățământul secundar (ROSE), schema de granturi pentru universități – necompetitive, codul proiectului: ROSE nr. 89/SGU/NC/I , Acronim STOP ABANDON, titlul proiectului: ”Croiește-ți viitorul cu încredere la Facultatea de Textile-Pielărie și Management Industrial din Iași”, 2018-2019.

2018-2019

Proiectul privind învățământul secundar (ROSE), schema de granturi pentru universități – necompetitive, codul proiectului: ROSE nr. /SGU/NC/I , Acronim C.I.V.I.C., titlul proiectului: ”Construim împreună viitori ingineri constructori”, 2018-2019.

2018

CNFIS-FDI-2018- 0479, 2018

2018

Contract nr. 2016-1-RO01-KA202-024710 Acronim E&E FASHION, Learning program for i-VET teachers and in-company trainers in the field of Work Based Learning, 2018

2006-2008

Proiect CEEX nr. 210 – Sistem decizional multicriterial şi instrumente inteligente destinate dobândirii de avantaj competitiv durabil pe pieţe turbulente în industria de textile şi confecţii (ExplorVIRT). Universitatea Tehnică “Gheorghe Asachi” din Iași – coordonator, Institutul Naţional de Inventică Iaşi – partener 3. Membru în echipa de cercetare a I.N.I. – 15.12.2006 – 15.12.2008. Total proiect: 1.482.600 Ron, din care INI – 156.350 Ron.

2006-2008

Proiect CEEX nr. 106 – Cercetări exploratorii privind crearea şi dezvoltarea interfeţei consumator-produs de încălţăminte în vederea realizării rapide a prototipurilor (SIDEMINT), Universitatea Tehnică "Gheorghe Asachi" din Iași – coordonator, Institutul Naţional de Inventică Iaşi – partener 3. Membru în echipa de cercetare a I.N.I. – 15.12.2006 – 15.12.2008.
Total proiect: 1.475.300 Ron, din care INI – 147.600 Ron.
2015
Proiect P.O.S.D.R.U. – "Formarea Profesională: cheia pentru dezvoltare în carieră și un acces egal pe piața muncii" , COD SMIS: 52237 finanțat prin FSE, P.O.S.D.R.U 2007 – 2013, Centrul de Dezvoltare Socială T&CO, CDS Iași.
2001- 2003
Director de proiect, grant de tip AT (MEC) CNCSIS (nr. 7060 din 5.11.2001; nr. 33490 din 17.07.2002) – „Modelele şi metodologia inventicii/creativităţii ca fundament în dezvoltarea competenţelor sociale manageriale. Inventica aplicată", Institutul Naţional de Inventică Iaşi.

L. Premii, distincţii.

2014 – Diplomă de excelență acordată pentru colaborarea fructuoasă în realizarea manifestărilor științifice de performanță și promovarea culturii și valorilor în formarea cadrelor didactice, oferită de asociația Națională a Psihologilor de Familie din România.

2014 – Diploma of Honour, "In recognition of high scientific contribution and loyalty to The XVIII-th International Conference "Inventica 2014, 2-4 iulie 2014, Iași, România.
2011 – Diploma Award Research Performance, acordată pentru Caluschi, Mariana, **Jitaru, Oana** și Ciobanu, Ana Maria – reprezentanți ai Grupului creativ "Discovery", Universitatea "Petre Andrei" din Iași, *In recognition of high scientific contribution and loyalty* to The XV-th International Exhibition of research, Innovation and technological Transfer, "Inventica 2011", 8-10 iunie 2011, Iași, România.

2010 – Special Prize from Ingenious Young School oferită Grupului creativ studențesc "Discovery" for Excelence in the techinal Creation, The XIV-th International Exhibition of Research, Innovation and Technological Transfer, "Inventica 2010", 9-11 iunie, Iași, România.

2009 - *Diploma și Medalia Salonului Inventica 2009* pentru *Inaltul nivel inovativ-inventiv și al realizărilor științifice,* The 13-th International Salon of Research, Innovation and Technological Transfer, Inventica 2009, 4-6 iunie 2009, Iași, România.

2008 – Diplomă de excelență obținută la Salonul Internațional Jubiliar al Cercetării, Invențiilor și Transferului Tehnologic, Inventica 2008, 14-24 mai 2008, Iași, România.

2007 - Diploma de excelență și Medalie de excelență pentru implicarea în proiectul "Sistem decizional multicriterial și instrumente inteligente destínate dobândirii de avantaj competitiv durabil pe piețe turbulente în industria de textile și confecții – SIDEMINT", Salonul Național de Inventică PRO INVENT, ediția a V a 2007, Cluj-Napoca.

2005 – **Premiul Academiei Române „Constantin Rădulescu Motru"** pentru lucrarea în colaborare – Caluschi, Mariana (coord.), **Gavril Jitaru Oana**, Pântia, Ana Maria şi Măgurianu, Adrian Liviu. (2003). *Managerul inventator - o nouă profesie?*. Iaşi: Editura Performantica.

Data,
08.04.2025

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

FABIAN CEZAR LUPU, ș.l.dr.ing.

A. Teză de doctorat.

Obținerea și studiul proprietăților de utilizare a unor blindaje obținute prin pulverizare la rece pe oțel 52100. Dată susținere publică: 26.04.2024. Universitatea Tehnica „Gheorghe Asachi'' din Iași. Domeniul: Ingineria Materialelor. Conducător de doctorat: Prof.univ.dr.ing MUNTEANU Corneliu.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

Carte de specialitate. Fabian Cezar Lupu, Corneliu Munteanu, Bogdan Istrate. Armours with special properties obtained by cold spraying on 52100 steel. Editura. Generis Publishing. 2024. pagini: 174. 979-8-89248-581-4.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute

CNCSIS.

Indrumar de laborator. Munteanu Corneliu, Istrate Bogdan. Lupu Fabian Cezar. Stiinta si ingineria materialelor. Editura. StudIS. 2023. pag. 229. ISBN: 978-606-48-1023-6

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1 Cazac, A.M. Chelariu, R.G. Cimpoesu, R. Bernevig, M.A. Benchea, M. Jurca, A.M. Radu, A.M. Vasilescu, G.D. Busoi, B.G. **Lupu, F.C.** Badarau, G. Bejinariu, C. Investigation of CuTi Alloy for Applications as Non-Sparking Material. Applied sciences. 2024. Vol. 14 (24).

2 Ropotoae, A.I. Istrate, B. Munteanu, C. **Lupu, F.C.** Usage of thermal coatings for the improvement of material properties for ballistic protection in the military field. A review. Buletinul institutului politehnic din Iaşi. 2024 Vol 70 (74).

3 **Lupu, F.C.** Munteanu, C. Istrate, B. Improvement of the mechanical and microstructural properties of the materials used for armour by surface deposition using the Cold Spray method. INCAS. 2024. Vol 16 (4). pp. 73-80.

4 Ioncică, A. Munteanu, C. Istrate, B. **Lupu, F.C.** Modern surface deposition methods for improving the properties of materials. Buletinul institutului politehnic din Iaşi. 2024 Vol 70 (74).

5 **Lupu, FC**; Munteanu, C; Sachelarie, AC; Arsenoaia, VN; Istrate, B. Improving the Usage Properties of Steel Using Cold Spray Deposition: A Review. 2023 Vol. 13 (2) DOI10.3390/cryst13020245. FI= 2.7

6 Moraras, CI. Husaru, D. Goanta, V. Barsanescu, PD. **Lupu, FC**. Munteanu, C. Cimpoesu, N. Cosau, ER. A New Method for Compression Testing of Reinforced Polymers. Polymers. 2024. Vol 16 (21). DOI10.3390/polym16213071. Fi= 4.7

7 **Lupu, FC**. Munteanu, C. Müftü, S. Benchea, M. Cimpoesu, R. Ferguson, G. Boese, S. Schwartz, P. Istrate, B. Arsenoaia, VN. Evaluation of the Wear Properties and Corrosion Resistance of 52100 Steel Coated with Ni/CrC by Cold Spraying. 2024. Coatings. Vol. 4 (1). DOI10.3390/coatings14010145 Fi= 3.4

8 Epure, C. Munteanu, C. Istrate, B. Harja, M. **Lupu, F.C**. Luca, D. Innovation in the Use of Recycled and Heat-Treated Glass in Various Applications: Mechanical and Chemical Properties. Coatings 2025, Vol. 15(6), pp. 651.

9 Munteanu, C. Melnic, I. Istrate, B. Hardiman, M. Gaiginschi, L. **Lupu, F.C.** Arsenoaia, V.N. Chicet, D.L. Zirnescu, C. Badiul, V. A Comprehensive Review of Improving the Durability Properties of Agricultural Harrow Discs by Atmospheric Plasma Spraying (APS). Coatings 2025, Vol. 15(6), pp. 632

10. Adomniței, I. Cimpoeșu, R. Chicet, D.L. Coteață, M. **Lupu, F.C.** Bejinariu, C. Andrușcă, L. Paraschiv, P. Axinte, M Bădărău, G. Cimpoeșu, N. Behavior of YSZ (High Y_2O_3

Content) Layer on Inconel to Electro-Chemical Corrosion. Materials. 2025 Basel Vol. 18, Iss. 2. pp.400.

11. Feraru, M. Mazurchevici, S.N. Lohan, N.M. Benchea, M. **Lupu, F.C.** Nedelcu, D. Tribological and Structural Properties of Copper-Coated 3D-Printed Parts from Biodegradable Polymers. Micromachines 2025, Vol. 16(1), pp. 100

12. Cristisor, D. Chicet, D.L. Istrate, B. Munteanu, C. **Lupu F.C.** Thermal shock behavior of Cr_2O_3-based plasma sprayed coatings. Thermal shock behavior of Cr2O3-based plasma sprayed coatings. Journal of Engineering Sciences and Innovation. 2025. Vol. 10, Issue 1. pp. 43 – 54.

13. Luca, D. Sărbătoare, I.D. Munteanu, C. **Lupu, F.C**. Luca, Dorian Țugui, C.A. Structure and Mechanical Properties of Tubular Steel Products Processed by Cold Rotary Swaging. Crystals 2025, Vol. 15(10), pp. 836.

K. Contracte de cercetare.

P1. Membru proiect: 13ROMD – PN-IV-P8-8.3.ROMD 2023-0108. Titlu: Îmbunătățirea durabilității grapelor cu discuri prin acoperiri termice în jet de plasmă.
Buget total proiect: 477.500,00lei din care revine TUIASI 238.750,00lei
Perioada derulare: 2024-2026
Numar de membri:13

P2. Membru proiect: PNCDI IV-5.6-24Sol(T24)/2024.Titlu: Combatant Digital
Buget total proiect: 5.000.000,00lei din care revine TUIASI 750.000,00lei
Perioada derulare: 2024-2026
Numar de membri:5

L. Premii, distincţii.

1. Lupu Fabian-Cezar. Coordonator: prof.univ.dr.ing Corneliu Munteanu. Premiul al III-lea la concursul PatriotFest2023 (Cercul Militar Național) la categoria Creativitate pentru securitate cu lucrarea „Cold spray pentru îmbunătățirea proprietăților materialelor pentru blindaje’’.

2. Lupu Fabian-Cezar. Coordonator: prof.univ.dr.ing Corneliu Munteanu. Premiul „Gheorghe Vasilca 2024’’ acordat la INCAS Institutul Național de Cercetare Dezvoltare Aerospațială ’’Elie Carafoli’’

Anexa Lista de lucrări

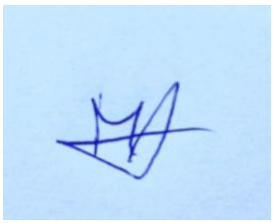
Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Mămăligă Andrei

A. –
B. –
C. –
D. –
E. –
F. –
G. –
H. Brezuleanu, M.-M., Verzea I., Mămăligă A., 2025. ANALYSIS REGARDING THE DEVELOPMENT OF LEADERSHIP SKILLS FOR INCREASING ORGANISATIONAL PERFORMANCE. CASE STUDY IN A BUSINESS CONSULTING COMPANY FOR EUROPEAN FUNDS. 11th International Conference on Manufacturing Science and Education
I. –
J. –
K. –
L. –
M. –

Data,
27.10.2025

Semnătura,



Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Şef lucr.dr.ing. MARDARE IRINA

A. Teza de doctorat.

Cercetări asupra unui sistem hidraulic de cântărire în mişcare, susţinută public în 15 mai 2013.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. Irina Tiţa, Irina Mardare, Acţionări hidraulice şi pneumatice. Îndrumar de laborator. Vol.1., Editura Pim, ISBN 978-606-13-1690-8. 2014.
2. Irina Mardare, Cântărirea în mişcare a vehiculelor, Editura Pim, ISBN 978-606-131-640-3, 2013.

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local; anexa V.3

E. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. Mardare Irina, Tiţa Irina, Zaharia Alexandru Constantin, aspects regarding the dynamic behavior of a hydraulic cylinder, Buletinul Institutului Politehnic din Iaşi, Vol 67 (71), Nr. 1, Secţiunea Construcţii de maşini, pp 41-50, 2021.

2. Mardare Irina, Tiţa Irina, Researches Regarding the Influence of Temperature on a Weigh-in-Motion Hydraulic System, Applied Mechanics and Matterials, Vol. 657 (2014), pp. 679-683, Trans Tech Publications, Switzerland, www.scientific.net/AMM.657.679 .

3. Zahariea D., Mardare I., VWSD-software for numerical simulation of the wind speed distribution in atmospheric boundary layer. I. General considerations, ACTA TECHNICA NAPOCENSIS, Applied Mathematics and Mechanics, 52, vol. II, pg. 99-104, ISSN 1221-5872. The Ist International Symposium on Green Energy, ISGE 2009, Cluj-Napoca 2009.

G. Lucrări ştiințifice publicate în reviste din străinătate.

H. Lucrări ştiințifice publicate în reviste din tara, recunoscute CNCSIS.

1. Irina MARDARE, Irina TIŢA, Some aspects regarding the influence of temperature in a wim hydraulic system, Academic Journal Of Manufacturing Engineering, Vol. 12, Issue 2/2014, pp 37-43, ISSN 1583-7904.

2. Mardare Irina, Tiţa Irina, Analysis of the influence of a hydraulic resistance on the behavior of a hydraulic WIM system, Buletinul Institutului Politehnic din Iaşi, Tomul LIX (LXIII), Fasc. 4, Secţia Construcţii de maşini, pp 91-96, 2013.

3. Mardare I., Damaschin V., Afrăsinei M., Analysis of the influence of loading force variation on the hydraulic WIM system behavior, Buletinul Institutului Politehnic din Iaşi, Tomul LIX (LXIII), Fasc. 4, Secţia Construcţii de maşini, pp 85-90, 2013

4. Tiţa Irina, Mardare Irina, Some Aspects Regarding Hydraulic Systems With Secondary Control, Buletinul Institutului Politehnic din Iaşi, Tomul LVIII (LXII), Fasc.1, Secţia Construcţii de maşini, pp.179-184, 2012.

5. Mardare Irina, Tiţa Irina, Force Sensor in a WIM Hydrostatic System, Buletinul Institutului Politehnic din Iaşi, Tomul LVIII (LXII), Fasc.1, Secţia Construcţii de maşini, pp.90-95, 2012.

6. Afrăsinei M., Călăraşu D., Damaschin V., Mardare I., Olaru A., Analisis by numerical simulation of a new self-adaptive hydraulic system used at wind turbines, Tomul LVIII (LXII), Fasc.1, Secţia Construcţii de maşini, pp.1-7, 2012.

7. Mardare Irina, Tiţa Irina, Bârsănescu Paul, Aspects regarding Hydraulic Devices for Pressure Measuring in Static and Dynamic Working Conditions, , Buletinul Institutului Politehnic din Iaşi, Tomul LIII (LVII), Fasc.5, Secţia Construcţii de maşini, pp.333-336, 2007.

8. Zahariea D., Rusu I.I., Mardare I., Educational Software for Numerical Modeling of the Potential Field Applications in Fluid Mechanics. IV. Characteristic Problems and Solving Methods, Buletinul Institutului Politehnic din Iași publicat de Universitatea Tehnică "Gh. Asachi" Iași, Tomul LII (LVI), Fasc. 5B, 2006, Secția Construcții de Mașini, ISSN 1011-2855, pg. 791-795, Conferința Internațională de Comunicări Științifice "Tehnologii moderne, calitate, restructurare", TMCR-2006, 25 mai-27 mai 2006, Iași.

9. Rusu I.I, Zahariea D., Ciobanu B., Tiţa I., Mardare I., Comparative Results Regarding the Hydrostatic Breaking Tests for the Longitudinally Welded Steel Pipes, Romanian Technical Science Academy-University of Bacău, 2004, pg. 137-140, ISBN-973-8392-25-X. The 10th International Conference of Fracture Mechanics.

I. Lucrări științifice publicate în volumele conferințelor.

1. Irina Tița, Irina Mardare, Dorin Emil Husaru, Theoretical aspects concerning working fluids in hydraulic systems, IManE&E, 2017, MATEC Web of Conferences, 112, 10015 (2017), DOI: 101051/matecconf/201711207014.

2. Irina Tița, and Irina Mardare, Researches regarding primary control in hydraulic systems, IManE&E, 2017, MATEC Web of Conferences, 112, 07015 (2017), DOI: 101051/matecconf/201711210015.

3. I Mardare, I Tiţa, R I Pelin, Researches regarding a pressure pulse generator as a segment of model for a weighing in motion system, 7th International Conference on Advanced Concepts in Mechanical Engineering, IOP Conf. Series: Materials Science and Engineering 147 (2016) 012060 doi:10.1088/1757-899X/147/1/012060

4. Mardare Irina, Tiţa Irina, Some Aspects regarding the Ecodesign of Hydraulic WIM System, Proceedings of the 5th Inthernational Conference on Advenced Concepts in Mechanical Engineering, Iaşi, ACME 1-10, 14-15 June 2012.

5. Mardare Irina, Tiţa Irina, „Aspects Concerning Hydraulic Systems with Hydropneumatic Accumulators", Proceedings of the 5th Inthernational Conference on Advenced Concepts in Mechanical Engineering, Iaşi, ACME 1-11, 14-15 June 2012.

6. Mardare Irina, Tiţa Irina, Some aspects regarding WIM systems, Modeling and Optimization in the Machines Building Field, "Vasile Alcsandri" University of Bacau, Vol. 16, No.1, pp. 64-69, 2010.

7. Tiţa Irina, Călăraşu Doru, Mardare Irina, Some aspects on saving and recovering energy in hydraulic systems, Modeling and Optimization in the Machines Building Field, "Vasile Alcsandri" University of Bacau, Vol. 15, No.3, pp.81-84, 2009.

8. Tiţa I., Călăraşu D., Mardare I., Mathematical modelling of a hydraulic system for weigh in motion, Conferinţa Ştiinţifică Internaţională TMCR, vol. 3, ediţia XI-a, pp. 146-149, 2007.

9. Zahariea D., Mardare I., Educational Software for Numerical Modelling of the Potential Field Applications in Fluid Mechanics. VII. Linear Distributed Source, Conferința Internațională de Comunicări Științifice "Tehnologii moderne, calitate, restructurare", TMCR-2007, 30 mai-1 iunie 2007, Chișinău, Universitatea Tehnică a Moldovei, Vol. III, ISBN 978-9975-45-034-8, ISBN 978-9975-45-037-9, pg. 150-154.

10. Zahariea D., Mardare I., Educational Software for Numerical Modelling of the Potential Field Applications in Fluid Mechanics. I. International Achievements, Conferința Internațională de Comunicări Științifice "Tehnologii moderne, calitate, restructurare", TMCR-2005, 19 mai-21 mai 2005, Chișinău, Universitatea Tehnică a Moldovei, Vol. IV, ISBN 9975-9875-7-5, pg. 425-428.

J. Invenții.

K. Contracte de cercetare/granturi.

1. Zahariea D., Rusu I.I., Mardare I., PFSIM: Software educațional pentru modelarea numerică a câmpurilor potențiale în mecanica fluidelor și aplicațiile ei tehnice, Contract de cercetare Nr. 2741/19.05.2006, Act adițional 2007, Tema 56, Cod 585. Beneficiar: CNCSIS. Executant: Catedra Mecanica Fluidelor, Mașini și Acționări Hidraulice și Pneumatice, Facultatea Construcții de Mașini și Management Industrial, Universitatea Tehnică „Gheorghe Asachi" din Iași. Valoare: 21000 RON.

2. Zahariea D., Rusu I.I., Mardare I., PFSIM: Software educațional pentru modelarea numerică a câmpurilor potențiale în mecanica fluidelor și aplicațiile ei tehnice, Contract de cercetare Nr. 2741/19.05.2006, Tema 81, Cod 585. Beneficiar: CNCSIS. Executant: Catedra Mecanica Fluidelor, Mașini și Acționări Hidraulice și Pneumatice, Facultatea Construcții de Mașini și Management Industrial, Universitatea Tehnică „Gheorghe Asachi" din Iași. Valoare: 22000 RON

3. Zahariea D., Rusu I.I., Mardare I., PFSIM: Software educațional pentru modelarea numerică a câmpurilor potențiale în mecanica fluidelor și aplicațiile ei tehnice, Contract de cercetare Nr. 27637/14.03.2005, Tema 60, Cod 585. Beneficiar: CNCSIS. Executant: Catedra Mecanica Fluidelor, Mașini și Acționări Hidraulice și Pneumatice, Facultatea Construcții de Mașini și Management Industrial, Universitatea Tehnică „Gheorghe Asachi" din Iași. Valoare: 24000 RON.

4. Popescu Th., Mardare I., Hidrodinamica vârtejurilor cu aplicaţii Contract CNCSIS-A consortiu 33/2005-2007, Tema 27688, cod SICOB 644.

5. Călăraşu D., Zahariea D., Ibănescu R., Scurtu D., Alexandrescu A., Popescu D., Şerban E., Tiţa I., Ciobanu B., Patelli D., Ştrobel N., Mardare I., Năstase E.V., Mihai C., Cimut B., Afrăsinei M., Franc D., Popescu C., Sisteme hidraulice adaptive pentru turbine eoliene de mică putere, Contract PNII-P4 1467/14.09.2007, contract finanţare 21-047/18.09.2007, acronym SHATEMP;

6. Ciobanu B., Călăraşu ., Zahariea D., Scurtu D., Popescu Th., Tiţa I., Mardare I., Năstase E.V., Vehicul cu autosustentaţie pentru supravegherea aeriană a mediului natural, Contract PNII-P4 2160/26.09.2008, contract finanţare 32-123/01.10.2008, acronym MEDIAS;

7. Tiţa I., Călăraşu D., Zahariea D., Scurtu D., Şerban E., Popescu Th., Horodincă M., Ciobanu B., Patelli D., Mardare I., Năstase E.V., Sisteme hidraulice adaptive cu reglare secundară utilizate în scopul creşterii eficienţei energetic la consumatorii industriali, Contract PNII-P42703/26.09.2008, contract

finanţare 22-111/01.10.2008, acronym SHARS;

8. Scurtu D., Călăraşu D., Zahariea D., Popescu Th., Ciobanu B., Tiţa I., Mardare I., Năstase E.V., Aplicaţie electro-energetică curată, cu micro-hidrocentrală având în componenţă agregat submersibil, într-o locaţie pe râul Prut, Contract PNII-P4 3588/26.09.2008, contract finanţare 22-129/01.10.2008, acronym HydroCleanEnergy.

9. Seghedin E. N. (responsabil), Zahariea D. (responsabil MFMAHP), Dezvoltarea platformei de cercetare pentru energie eficientă și durabilă ENERED, Contract Uniunea Europeană și Guvernul României, 2012-2015.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data
20.10.2025

Semnatura:

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Merticaru Eugen

A. Teza de doctorat.

MERTICARU Eugen, "CONTRIBUTII PRIVIND STUDIUL COMPORTARII DINAMICE A MECANISMELOR CU CAME", conducător ştiinţific Prof. dr. ing. Cezar Duca, 21 iunie 2003, Universitatea Tehnica "Gh. Asachi" Iasi.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

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J. Invenții.

1). **Merticaru, Eugen**, Merticaru, V., V., 2001, Mecanism planetar inversor, Cerere de brevet de inventie, nr. a 2001 00702 din 18.06.2001

2). Slatineanu Laurentiu, Grigore Edmond-Rosario, Miron Dumitru, Chirila Viorel, **Merticaru Eugen**, Sandu Sinica - Dispozitiv de prelucrat prin electroeroziune - brevet nr. 105782 B1/8.11.89

K. Contracte de cercetare/granturi.

1). Contract (cu agent economic) nr. 930P/19.07.2013 – Tema "Fiabilitatea cuptoarelor de clincher din industria cimentului", Beneficiar S.C. EXPERT REPARATII S.R.L., Tasca, jud. Neamt, director de contract Popescu Gabriel, valoare contract: 18.000 RON+TVA(24%)=22.320 RON, Punctaj director: 2.2320/10.000=2,232, Punctaj membru: 2,232/4=0,558.

2). Program POSDRU/2/1.2/S/2

Codul proiectului: 1622

Titlu: "Dezvoltarea unui sistem operational al calificarilor din invatamantul superior din Romania"-DOCIS

Proiect strategic, finantat din Fondul Social European, Programul Operational Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013,

Axa prioritara 1, „Educatia si formarea profesionala in sprijinul cresterii economice şi dezvoltării societăţii bazate pe cunoastere",

Domeniul major de interventie 1.2 - „Calitate in invatamantul superior"

Durata proiectului: 36 de luni

Durata de implementare a proiectului: noiembrie 2008 - octombrie 2011

Promotor: Agentia Nationala pentru Calificarile din Invatamantul Superior si Parteneriat cu Mediul Economic si Social - ACPART

Program co-finantat de Fondul Social European prin Programul Operational Sectorial Dezvoltarea Resurselor Umane si Guvernul Romaniei

Fonduri alocate: 17 milioane lei (RON).

Funcţia: Merticaru Eugen – Expert pe termen scurt, pentru programul de studii de licenţă *Bioinginerie* .

3). Grant CNCSIS tip A, Modelarea stocastica a preciziei mecanismelor complexe cu aplicatie in cresterea productivitatii si a preciziei functionale a sistemelor de dozare-ambalare a produselor, (director de grant Fl. Buium), beneficiar CNCSIS, 2006-2007-2008, cod CNCSIS 273, valoare 10.000 RON, Punctaj director: 10.000 /50.000=0,2 , Punctaj membru: 0,2/4=0,05.

4). Contract nr. 33371/tema nr. 9-2004, Cod CNCSIS-474, Cuantificarea si optimizarea efortului fizic in jocurile sportive, (director de grant E. Budescu, 2004), beneficiar CNCSIS, valoare 99 milioane lei. (9900 RON), Punctaj director: 9900/50.000=0,19 , Punctaj membru: 0,19/4=0,05.

5). Cercetari privind cresterea performantelor dinamice ale masinilor automate si robotilor industriali prin optimizarea preciziei constructive a mecanismelor componente (director de grant Fl. Buium, 2002-2003-2004), beneficiar CNCSIS, valoare 232 milioane lei. (23200 RON), Punctaj director: 23200/50.000=0,46 , Punctaj membru: 0,46/4=0,11.

6). Contract nr. 6177, Tema B32, Cercetari privind cresterea performantelor dinamice ale mecanismelor de viteza mare cu came disc si bare prin optimizarea legaturilor excedentare (2000-2001),

Beneficiar MCT – ANSTI, Bucuresti, 26.000.000 lei. (2600 RON), Punctaj director: 2600/50.000=0,05 , Punctaj membru: 0,05/4=0,01.

7). Contract nr. 37089, Tema 50/2000, Reducerea socurilor si vibratiilor din functionarea mecanismelor de viteza mare cu came disc si bare prin optimizarea numarului de legaturi excedentare (2000-2001), Beneficiar C.N.C.S.U. - C.N.C.S.I.S., Bucureşti, 25.000.000 lei; (2500 RON), Punctaj director: 2500/50.000=0,05 , Punctaj membru: 0,05/4=0,01.

8). Strategii şi algoritmi pentru ameliorarea indicilor dinamici de calitate a mecanismelor şi maşinilor - beneficiar C.N.C.S.U. - C.N.C.S.I.S. Bucureşti, 1998-1999-2000, 100.000.000 lei; (10000 RON), Punctaj director: 10000/50.000=0,2 , Punctaj membru: 0,2/4=0,05.

9). Mecanisme cu roti dintate cu numar mic de dinti - beneficiar MCT- ANSTI, Bucuresti, 1997-1998- 1999, 91.800.000 lei; (9180 RON), Punctaj director: 9180/50.000=0,18 , Punctaj membru: 0,18/4=0,04.

10). Cercetări privind proiectarea asistată de calculator a mecanismelor performante camă-bare de viteză mare - beneficiar MCT – ANSTI, Bucuresti, 1997 – 1998 - 1999, 99.300.000 lei; (9930 RON), Punctaj director: 9930/50.000=0,2 , Punctaj membru: 0,2/4=0,05.

11). Optimizarea modelarii dinamice a mecanismelor cu elemente elastice pentru studiul vibratiilor in functionare – beneficiar CNCSU-MEN, Bucuresti, 1997, 4.000.000 lei; (400 RON), Punctaj director: 400/50.000=0,008 , Punctaj membru: 0,008/4=0,002.

12). Cercetari privind influenta preciziei constructive si cinematice asuora parametrilor dinamici in mecanismele complexe – beneficiar CNCSU - MEN, Bucuresti, 1997, 4.000.000 lei; (400 RON), Punctaj director: 400/50.000=0,008 , Punctaj membru: 0,008/4=0,002.

13). Cercetari privind optimizarea constructiv-functionala a mecanismelor din masinile de ambalat - beneficiar Ministerul Cercetarii si Tehnologiei, Bucuresti, 1994 - 1995 – 1996 – 1997, 17.885.000 lei; (1788,5 RON), Punctaj director: 1788,5/50.000=0,03 , Punctaj membru: 0,03/4=0,008.

14). Optimizarea sintezei schemelor cinematice pentru cresterea randamentului mecanismelor din constructia de utilaje pentru forjare - beneficiar Ministerul Cercetarii si Tehnologiei, Bucuresti, 1995 – 1996 – 1997, 41.000.000 lei; (4100 RON), Punctaj director: 4100/50.000=0,082 , Punctaj membru: 0,082/4=0,02.

15). Termomanometru cu azot lichid – beneficiar S.C. AMC S.A.,Vaslui,1995, 5.000.000 lei , (500 RON), Punctaj director: 500/10.000=0,05 , Punctaj membru: 0,05/4=0,01.

16). Reductor cu roti cilindrice cu numar mic de dinti – beneficiar S.C. IMA S.A., Iasi,1994, 2.500. 000 lei; (250 RON), Punctaj director: 250/10.000=0,025 , Punctaj membru: 0,025/4=0,006.

17). Cercetari privind utilizarea sistemelor CAD/ CAM in perfectionarea ambalajelor si a masinilor de ambalat – beneficiar MCT, Bucuresti, 1994, 5.000.000 lei; (500 RON), Punctaj director: 500/50.000=0,01 , Punctaj membru: 0,01/4=0,002.

18). Optimizarea solutiilor de proiectare a unor subansamble si accesorii pentru masini-unelte - beneficiar S.C. "FORTUS" S.A. Iasi, 1994, 5.000.000 lei (500 RON), Punctaj director: 500/10.000=0,05 , Punctaj membru: 0,05/4=0,01.

L. Premii, distincții.

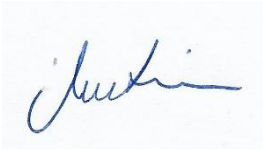
Premii și distincții internaționale:

Premii și distincții naționale:

M. Alte realizări semnificative.

Data 8-12-2023

Semnatura



Anexa Lista de lucrări

Lista de lucrări în domeniul de licență Inginerie Mecanica

Numele şi prenumele: Ș. l. dr. ing. Morăraș Ciprian Ionut

A. Teza de doctorat.

Studii și cercetări privind influența solicitărilor din exploatare asupra caracteristicilor de material și a comportării structurii paletelor de turbină eoliană", domeniul Inginerie Mecanică, Universitatea Tehnică "Gheorghe Asachi" din Iasi, conducătorul de doctorat: Prof. Univ. dr. ing. Goanță Viorel

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Sergiu Gabriel Pal ,Viorel Goanta, **Ciprian Ionut Moraras** andVlad Carlescu, Mechanical Behavior Analysis of Polypropylene-Based Composites and a Photopolymer Resin via Tensile and Scratch Testing, Polymers 2025, 17(16), 2180; https://doi.org/10.3390/polym17162180
2. Cristina (Cîșlariu) Vasilache, **Ciprian-Ionuț Morăraș**, Viorel Goanță, Georgeta Zegan, Maria-Antonela Beldiman, Aspects concerning the elastic properties of the aligner materials, Romanian Journal of Oral Rehabilitation, Vol. 17, No.1 January-March 2025, DOI : 10.62610/RJOR.2025.1.17.34
3. Cristina (Cîșlariu) Vasilache, **Ciprian-Ionuț Morăraș**, Viorel Goanță, Georgeta Zegan, Georgiana Macovei, Maria-Antonela Beldiman, Aspects concerning the mechanical resistance of the aligner materials, Romanian Journal of Oral Rehabilitation, Vol. 17, No.1 January-March 2025, DOI : 10.62610/RJOR.2025.1.17.11
4. **Ciprian Ionut Morăras** ,Dorin Husaru, Viorel Goantă, Paul Doru Barsanescu, Fabian Cezar Lupu, Corneliu Munteanu, Nicanor Cimpoesu and Elena Roxana Cosau, A New Method for Compression Testing of Reinforced Polymers, Polymers 2024, 16(21), 3071, https://doi.org/10.3390/polym16213071
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Data: 20.10.2025. .....

Nume, prenume
Morăraș Ciprian Ionuț

Semnătura ...

Anexa Lista de lucrari

LISTA DE LUCRĂRI ÎN DOMENIUL DE STUDII UNIVERSITARE DE LICENTA INGINERIE MECANICĂ

Numele şi prenumele: **ADRIANA MUNTEANU**

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2. Seghedin Niculae, **Adriana Munteanu,** *The two cultures and the third culture,*The XX- th International Conference of Inventics, Inventica 2016, ISSN: 1844-7880, Editura Performantica pg.27-35, 2016

4. **Adriana Munteanu,** Dragos-Florin Chitariu, Ana-Maria Bocaneţ, *Mind Mapping Technique For Teaching In Measurement Fiel*, The XXII International Conference "Inventica 2018, "Internationala http://ini.tuiasi.ro/ 74-82 ISSN: 1844-7880, Performantica

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E. Brevete obţinute în întreaga activitate

1. Slatineanu, L., Coteata, M., Ilii, S.M., **Munteanu, A**., *Dispozitiv pentru prelucrare electrochimica,* Oficiul de Stat pentru Inventii şi Marci, nr.123566, 2013

2 Apetrei, L., Slatineanu, L., **Munteanu, A**., Dodun, O. *Dispozitiv pentru orientarea si fixarea semifabricatului la gaurirea cu ajutorul ultrasunetelor,* Oficiul de Stat pentru Inventii şi Marci, nr.122529, 2009

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Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă INGINERIE MECANICA

Numele şi prenumele: Prof. Univ. Dr. Ing. CORNELIU MUNTEANU

A. Teza de doctorat : "Cercetări privind tehnologia de obţinere a benzilor metalice amorfe magnetice continue şi studiul proprietăţilor acestora", Iaşi, 1994

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. T. Nikolaou, D. Koloktsa, G. Stavrakakis, A. Apostolou, **C. Munteanu** – Managing Indoor Enviroments and Energy in Buildings with Integrated Intelligent Systemsm , ISSN 1865-3529, Springer 2015.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

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9. Știința și Ingineria Materialelor – Indrumar de laborator **(229 pagini),** Munteanu Corneliu**, Istrate Bogdan, Lupu Fabian Cezar, Ed. "StudIS", 2023, Iași, ISBN: 978-606-48-1023-6**

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

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analysis of Al2O3 40TiO(2) coating deposited on a shaft sleeve of hydraulic pump, IOP Conference Series-Materials Science and Engineering, Volume: 724, Article Number: 012063, DOI: 10.1088/1757-899X/724/1/012063, Published: 2020

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H. Invenţii.

1. Procedeu de obţinere a feroborului. - Sandu, I., **C. Munteanu**, Ungureanu, C., Muller, K.H., Ghiroagă, D.- Dosar OSIM - 147.038 din 4.03.1991; Brevet 107.695 cu Hotărârea nr. 4/623 din 30.11.1993.
2. Chit pentru mobilă. - Sandu, I., Arhire, P., Tacu, C., Mangalagiu, I., Bejan, V., **C. Munteanu**, Samoilă, G., Ciocîrlie, I., Pintea, A. - Dosar OSIM - 146.899 din 11.02.1991.
3. Procedeu de obţinere a unui prealiaj necesar microalierii cu bor şi aluminiu în metalurgia neconvenţională. Sandu, I., **C. Munteanu**, Gh. Călugăru,, Ungureanu, C., Ghiroagă, D.- Dosar OSIM - 147.039 din 4.03.1991.
4. Metodă de reducere a zgurificării aliajelor tipografice topite. Sandu, I., I. Rusu, , Plăhteanu, B., Palihovici, V., **C. Munteanu**, Veringu, I. - Dosar OSIM - 148.754 din 18.11.1991.
5. Procedeu şi instalaţie pentru obţinerea benzilor continue subţiri din materiale metalice amorfe. **C. Munteanu**, Gh. Călugăru,, Sandu, I., I. Rusu, , I. Apachiţei, , Munteanu, I., Băluţă, Gh. - Dosar OSIM - 200.284 din 9.03.1992. Brevet publicat în septembrie 1994.
6. Metodă de obţinere a pulberilor metalice feromagnetice amorfe şi semicristaline. **C. Munteanu**, Gh. Călugăru,, I. Apachiţei, , I. Rusu, , Stanciu, S., Sandu, I.- Dosar OSIM - 003.154 din 21.01.1992.
7. Process for the micro crystalline phosphate-coating of iron-based metal pieces,
Patent Number: RO125457-A2,
Patent Assignee: Univ. Tehnica Gh. Asachi Iasi
C. Bejinariu, **C. Munteanu**, C. Predescu, s.a.
8. MFG. thin layer printing alloys with protective superficial layers by spreading thin molten layer of lead, antimony, and tin on surface and applying continuous gas diffuse comprising two mixtures
Patent Number: RO111474-B1
Patent Assignee: Inst. Politehnic Iasi
I. Sandu, I. Rusu, B. Plahteanu, **C. Munteanu**, s.a.
9. Tehnologie de realizare a unui scut termic a incintei de protectie a informatiilor electronice la bord, **C. Munteanu**, P. Motoiu s.a., medalia de aur la EUROINVENT, brevet propus spre publicare in 2011
10. Micro-alloying pre-alloy fabrication includes dissolving borax in aluminium with gluxing for dipping in molten bath
Patent Number: RO108003-B1
Patent Assingnee: Inst. Politehnic Iasi
I. Sandu, **C. Munteanu**, G. Calugaru, C. Ungureanu, s.a
11. Dispozitiv pentru recondiţionat contacte electrice şi recuperat deşeuri de argint
I. Alexandru, S. Oprinca, **C. Munteanu**
Revista "Inventica" - I.P. Iaşi - Brevet Nr. 95.890/l988.

I. Contracte de cercetare.

1. Grant CNCSIS / 1997, 1997-1998
2. Program CERES/2002, 2002-2004
3. Proiect de cercetare INOVARE: „Concept inovativ de realizare in jet de plasmă a straturilor dure cu proprietăţi controlate, rezistente la uzură şi coroziune ».CEEX 67/2006, 2006-2008
4. Proiect de cercetare INOVARE: „Tehnologii noi pentru realizarea produselor subtiri din materiale metalice amorfe cu proprietati magnetice speciale", C100/2007, 2007-2010
5. Proiect de cercetare INOVARE :„Durificarea termica a incintei de protectie a informatiilor electronice de bord", C199/2008, Director Proiect, 2008 – 2011
6. „Formarea cadrelor didactice universitare si a studentilor in domeniul utilizarii unor instrumente moderne de predare-invatare-evaluare pentru disciplinele matematice, in vederea crearii de competente performante si practice pentru piata muncii" POSDRU/56/1.2/S/32768, 2009-2013
7. "Recunoasterea perioadelor de studii-cheia cunoasterii" POSDRU/2/1.2/S/6,Manager Proiect, 2009 - 2012
8. Obtinerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale, Nr. Contract 60 PCCDI/2018, PN-III-P1-1.2-PCCDI-2017-0239, 2018-2020
9. Contract Nr. 7294/2019 " Cercetări stiintifice și aplicatii practice pentru prototipurile C.En in domeniul stocarii hidrogenului in materiale din sticla", C.En Ltd, Valoare contract (TUIASI) : 216311,4 Lei, 8 membri
10. Contractul tip Agent economic nr. W911NF2020024/2020 (subcontract 25212/2020 – 504141/2020) cu tema "Program in Materials, Additive and Manufacturing, and Multiscale materials Engineering" (3ME),Director - Prof.univ.dr.ing. Corneliu Munteanu, Valoare:100000 USD, 2021-2022
11. Grant pentru sustinerea capacității de publicare, Grant Intern GI/P8/2021, Director: Prof. Corneliu Munteanu, Valoare : 44999,51 Lei.
12. Process Engineering –Klarwin – Contract nr. 19511/20.09.2018 - agent economic , 2018-2019 , Director – Prof.dr.ing. Munteanu Corneliu
13. Program RELANSIN/2001, 2001-2004
14. Asigurarea calitatii in invatamantul superior din Romania", POSDRU/2/1.2/S/1. Proiect coordonat de ARACIS, Expert, 2009-2011
15. Management Academic universitar, POSDRU/2.1/S1. Proiect coordonat de UEFISCDI, Expert, 2008-2011
16. "Predictii de coroziune pentru biomateriale de titan cu suprafete neomogene mocro si nanostructurate utilizand retele neuronale", 266/05.10.2011–PN–II–ID– PCE–2011–3–0218, 2011-2014
17. "Noua metodă de îmbunătățire a proprietăților de memoria formei prin controlul migrației atomice". Grant PN - II–ID–2012–4–0033, 2013-2015
18. Bridge Grant Project "Tehnologii performante pentru obtinerea de structuri 3D cu aplicatii in securitate", PN-III-P2-2.1-BG-2016-0290, 2016-2018
19. Proiect RO-MD – "IMPROVING THE QUALITY OF SOLID BIOFUELS PRODUCED FROM RAW MATERIAL COLLECTED FROM BOTH SIDES OF PRUT RIVER " – 2Soft 1.2/44 - BCS, 2020-2022,
20. Contract agent economic Nr. 14921/03.08.2020, "Analize microstructurale, compoziționale (SEM-EDX) și difracție de raze X pentru diverse materiale", 2020-2021, Valoare: 2305 Lei

J. Premii, distincţii.

Premiere articole stiintifice UEFISCDI

2013:

1. The estimation of corrosion behaviour of ZrTi binary alloys for dental applications using electrochemical techniques, MATER CHEM PHYS,
2. Preliminary electrochemical testing of some Zr-Ti alloys in 0.9% NaCl solution, MATER CORROS,

2014:

3. Electrochemical behaviour of ZrTi alloys in artificial physiological solution simulating in vitro inflammatory conditions, APPL SURF SCI
4. Electrochemical behavior of new experimental TiNbZrAl alloys for dental applications, MATER CORROS
5. APPLICATION OF DYNAMIC ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY TO THE EVALUATION OF THE CORROSION RESISTANCE OF A HISTORIC, EUROPEAN JOURNAL OF SCIENCE AND THEOLOGY
6. The estimation of corrosion behavior of new TiNbTaZr alloys for biomedical applications, MATER CORROS

2015:

7. Tinctorial Response of Recycled PET Fibers to Chemical Modifications during Saponification and Aminolysis Reactions, IND ENG CHEM RES
8. Ni ferrite highly organized as humidity sensors, MATERIALS CHEMISTRY AND PHYSICS
9. Multiscale Electrochemical Investigation of the Corrosion Resistance of Various Alloys Used in Dental Prostheses, METALLURGICAL AND MATERIALS TRANSACTIONS BPROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE
10. Evaluation of the corrosion resistance of plasma nitrided austenitic stainless steel, INTERNATIONAL JOURNAL OF MATERIALS RESEARCH
11. The estimation of corrosion behavior of thermal oxidized TiNbTaZr alloys for biomedical applications, MATERIALS AND CORROSIONWERKSTOFFE UND KORROSION
12. Degradation characteristics of Mg0.8Ca in saline solution with and without albumin protein investigated by electrochemical impedance spectroscopy, MATERIALS AND CORROSIONWERKSTOFFE UND KORROSION

2016:

13. Effect of thermal oxidation on electrochemical corrosion behaviour of ZrTi alloys for dental applications, MATERIALS AND CORROSIONWERKSTOFFE UND KORROSION
14. Pyramidal growth of ceria nanostructures by pulsed laser deposition, APPLIED SURFACE SCIENCE
15. In vivo degradation behavior and biological activity of some new Mg-Ca alloys with concentration's gradient of Si for bone grafts, APPLIED SURFACE SCIENCE
16. Alendronate-loaded modified drug delivery lipid particles intended for improved oral and topical administration, MOLECULES
17. Premiu de Excelenta – 2019 si Medalia ”Gh. Asachi”- ”Grupul care a contribuit la atragerea celor mai multe fonduri publice pentru cercetarea stiintifica” pentru activitatea din perioada 2016-2018

18. Premiu de Excelenta – 2021 si Medalia ”Gh. Asachi ”-” Grupul care a contribuit la atragerea celor mai multe fonduri private pentru cercetarea stiintifica” pentru activitatea din perioada 2018-2020
19. Premiu de Excelenta – 2022 si Medalia ”Gh. Asachi ”-” Cercetatorul cu cele mai bune performanțe în cercetarea stiintifica” pentru activitatea din perioada 2019-2021

K. Alte realizări semnificative.

Data: 19.12.2023

*** Conform H.G. 1175/ 2006**

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele și prenumele: Năstase Eugen-Vlad

A. Teza de doctorat.

A1. *Cercetări teoretice şi experimentale privind influenţa unor parametri constructivi şi hidraulici asupra performanţelor miniturbinelor hidraulice*, 2012 (diploma cu seria H nr. 0016039 emisă în baza Ordinului Ministrului Educației, Cercetării, Tineretului și Sportului nr. 6149 din 07.11.2012, înregistrată la Universitatea Tehnică „Gheorghe Asachi" din Iași cu numărul 2599 din 23.11.2012), Conducător ştiinţific: Prof.univ.dr.ing. Călăraşu Doru

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

C1. Cazimir B., **Năstase E.V.**, *Tehnologia Construcţiei de Maşini*, Editura PIM, Iaşi, 2008.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

F1. E.V. NĂSTASE, *Research on the treatment of wastewater and possibilities for optimizing the technological route*, Buletinul Institutului Politehnic din Iaşi, Secţia Construcţii de Maşini, Volumul 70 (74), Numărul 4, 2024

F2. E.V. NĂSTASE**,** *Simulating water flow through a hydraulic channel using Ansys*, Buletinul Instiuttului Politehnic din Iasi, Volumul 68,Numărul 4, 2022

F3. E.V. NĂSTASE*, Studies on the Design Models of Horizontal Axis Wind Turbines*, Buletinul Institutului Politehnic din Iasi, Volumul 67 (71), Numărul 1, pp.9-18, 2021

F4. E.V. NĂSTASE, *Design and flow simulation for a centrifugal pump with double suction impeller*, (https://doi.org/10.1051/matecconf/201817805018 178, 05018, 6 pg., 2018,)

F5. E.V. NĂSTASE, *Influence of the material used to build the blades of a wind turbine on their starting conditions*, MATEC Web of Conferences 112, 10017, 6 pg., 2017 (https://doi.org/10.1051/matecconf/201711210017). MATEC

F6. E.V. NĂSTASE, *CFD analysis regarding the influence of impeller parameters on the performance of a sigle-stage centrifugal pump*, Buletinul Institutului Politehnic din Iasi, Volumul 62 (66), Numărul 2, pp.49-54, 2016.

F7. E.V. NĂSTASE, *Determination of local losses in a globe valve at different openings*, ACTA TECHNICA CORVINIENSIS, Bulletin of Engineering, Tome IX Fascicule 3, 2016, pg.47-50.

F8. E.V. NĂSTASE, *Contrastive analisys of the flow around an airfoil*, Buletinul Institutului Politehnic din Iasi, Volumul 62 (66), Numărul 2, pp.43-48, 2016.

F9. E. V. NĂSTASE, D. CĂLĂRAŞU, *Influence of chord variation on the performance of a kinetic miniturbine*, Buletinul Institutului Politehnic din Iasi, Tomul LVIII, Fasc.1, pp.118-121, 2012.

F10. E. V. NĂSTASE, D. CĂLĂRAŞU, *Theoretical research regarding the blades number influence of the miniturbine efficiency*, Buletinul Institutului Politehnic din Iasi, Tomul LVIII, Fasc.1, pp..122-125, 2012
F.11. E. V. NĂSTASE, D. SCURTU , D. CĂLĂRAŞU, B. CIOBANU, „*Design methodology of kinetic hydraulic turbines*", International Journal of Modern Manufacturing Technologies, ISSN 2026-3604, Vol.III, No.1, pp. 51-56, 2011.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.
I1. E.V. NĂSTASE, D. CĂLĂRAŞU, *Flow simulation for kinetic minihidroturbine*, Buletinul Institutului Politehnic din Iasi, Tomul LVII, Fasc.3, pp.327-334, 2011;
I2. E.V.NĂSTASE, D.CĂLĂRAŞU, Comparative analysis between eolian and kinetic minihidroturbine, Buletinul Institutului Politehnic din Iasi, Tomul LVII, Fasc.3, pp.323-326, 2011.
I3. M. COTEAŢĂ, L. SLĂTINEANU, A. MUNTEANU, NĂSTASE, E. *Supply source for electrochemical discharge drilling*. Annals of DAAAM for 2009 & Proceedings of the 20th International Symposium, Volume 20, No.1, ISSN 1726-9679, ISBN 978-3-901509-70-4< Editor B. Katalinic, Published by DAAAM International, Viennam Austria, EU, 2009, 0013-0014;
I4. E.V.NĂSTASE, *The study of local speed in laminar flow on profile of a blade*, Buletinul Institutului Politehnic din Iasi, Tomul LV, Fasc.4, pp.250-256, 2009;
I5. E.V.NĂSTASE, D.SCURTU, *Site survey for hydraulic mini-turbine,* Buletinul Institutului Politehnic din Iasi, Tomul LV, Fasc.4, pp.241-249, 2009;
I6. B. CIOBANU¸ D. CUCIUREANU, D. CĂLĂRAŞU, D. SCURTU, E.V. NĂSTASE, *Theoretical and Experimental Approach of Undershot Water Wh*eels, Proceedings of the International Conference on Hydraulic Machinery and Equipments, HME 2008, Timişoara, 16-17 October 2008, published in Scientific Bulletin of „Politehnica" University of Timişoara, Transactions on Mechanics, Tom 53 (67), Special Issue, pp. 121-124, ISSN 1224-6077, 2008.
I7. I.A. ACATRINEI, S. GHIORGHIŢĂ, E. NĂSTASE, P. DUŞA, *Cockpit For Flexible Manufacturing Systems Management*, „Tehnologii Moderne, Calitate, Restructurare" vol. 3, ed. 11, Chişinău, 2007.
I8. S.C. GHIORGHIŢĂ, A ACATRINEi, E. NĂSTASE, P. DUSA, *Aspecte privind integrarea bibliotecilor de repere în diferite medii CAD* „Tehnologii Moderne, Calitate, Restructurare" vol. 3, ed. 11, Culegere de lucrări ştiinţifice, Chişinău, Ed. UTM, ISBN 978-9975-45-034-8, 2007.
I9. E.V. NĂSTASE, ACATRINEI ANGEL, GHIORGHITA SEBASTIAN, *Aspecte privind modelarea sistemelor utilizand UML*, Tehnologii Moderne, Calitate, Restructurare" vol. 3, ed. 11, Chişinău, 2007.
I10. L.APETREI, M. COTEAŢĂ, A. MUNTEANU, S.ILII, E. NĂSTASE, *The influence of the input parameters on ultrasonic microdrilling productivity*, Maşinostroenie i tehnosfera XXI veka. Sbornik trudov Sevastopole. Doneţk , ISBN 966-7907-20-1, pp 133-137,2006.
I11. E.V. NĂSTASE, I. OANCEA, *A parallel analysis of two simulation medium*, Buletinul Institutului Politehnic din Iasi, Tomul LII (LVI), Fasc.5B, pp 739-742; 2006.
I12. I. OANCEA E.V. NĂSTASE, *Comparative Analysis of two innovative projects realised with computer aided technological innovation*, Buletinul Institutului Politehnic din Iasi, Tomul LII (LVI), Fasc.5E, 2006

J. Invenţii.

K. Contracte de cercetare.

În calitate de membru:

K1. . Popescu D., Ciobanu B.,, Călăraşu D., Zahariea D., Panaite E. C., Tiţa I., Mardare I., Popescu Th., Scurtu D., Alexandrescu A., Popescu C., Franc D., **Nastase E.V**. Denumirea Programului: PN II - PARTENERIATE ÎN DOMENII PRIORITARE, PROIECTE COLABORATIVE DE CERCETARE APLICATA, Codul proiectului, PN-II-PT-PCCA-2013-4-1901, *TURBINE HIDRAULICE TRANSVERSALE PENTRU PICOSISTEME BAZATE PE ENERGII REGENERABILE (PICOTURB)*, Autoritate contractanta: Unitatea Executiva pentru Finantarea Învatamântului Superior, a Cercetarii, Dezvoltarii si Inovarii, Perioada derularii proiectului: 1.07.2014-30.09.2017

K2. D. Scurtu, D. Călăraşu, B.Ciobanu, **V.Năstase,** Proiect de cercetare ştiinţifică PN II – P4 -39/09.2012, Acronim: DOUBLE T-VAx***, Sistem de generare a energiei electrice utilizând turbine eolianacu dublu effect, pentru asigurarea autonomiei energetice în aplicaţii specifice***. Coordonator proiect Institutul Naţional De Cercetare Dezvoltare în Inginerie Electrică ICPE-CA, Responsabil din partea UTI, Scurtu Dan.

K3. D.Scurtu, Călăraşu D., Zahariea D., Popescu Th., Ciobanu B., Tiţa I., Mardare I., **Năstase E.V.,**Contract PNII-P4 3588/26.09.2008, contract finanţare 22-129/01.10.2008, acronim HydroCleanEnergy, *Aplicaţie electro-energetică curată, cu micro-hidrocentrală având în componenţă agregat submersibil, intr-o locaţie pe râul PRUT*. Coordonator proiect: Institutul Naţional de Cercetare-Dezvoltare în Inginerie Electrică ICPE-CA (INCDIE ICPE-CA).

K4. Ciobanu B., Călăraşu D., Zahariea D., D.Scurtu, Popescu Th., Tiţa I., Mardare I., **Năstase E.V**.,Contract PNII-P4, 2160/26.09.2008,contract finanţare 32-23/01.10.2008, acronim MEDIAS, Denumiere: *Vehicul cu auto-sustentaţie pentru supravegherea aeriană a mediului natural*, Coordonator proiect: Universitatea „Dunărea de Jos" Galaţi.

K5.Tita I., Călăraşu D., Zahariea D., Horodinca M., Scurtu D., Serban E., Popescu Th., Ciobanu B., Patelli D., Mardare I., **Nastase E.V**, Hutusoru C., Cimut B., Franc D., Afrasinei M., Program P4 "Parteneriate în Domenii Prioritare" contract 22111/01.10.2008, acronim SHARS, Denumire proiect: *Sisteme hidraulice adaptive cu reglare secundara utilizate in scopul cresterii eficientei energetice la consumatori industriali,* Coordonator proiect: Universitatea Tehnică Gheorghe Asachi din Iaşi.

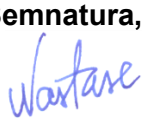
K6. D. Călăraşu, D. Zahariea, R. Ibănescu, D. Scurtu, A. Alexandrescu, D. Popescu, E. Şerban, Th. Popescu, I. Tiţa, B. Ciobanu, D. Patelli, N. Ştrobel, I. Mardare, **E.V. Năstase,** C. Mihai, B. Cimut, M. Afrasinei, D. Franc, C. Popescu, *Sisteme hidraulice adaptive pentru turbine eoliene de mică putere*, Contract PNII-P4 1467/14.09.2007, contract finanţare 21-047/18.09.2007, acronim SHATEMP;

Premii, distincţii.

L. Alte realizări semnificative.

Data,
20.10.2025

Semnatura,



Anexa Lista de lucrari

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Lect. Dr. Fiz. Nechifor Cristina-Delia

A. Teza de doctorat.

Studiul proprietăţilor fizico-chimice ale unor aliaje polimere cu potenţiale aplicaţii biomedicale, **2011,** Universitatea "Alexandru Ioan Cuza" din Iași, Domeniul Fizică, conducător doctorat: prof. univ. dr. Dorohoi Dana-Ortansa.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

Cap.9. Effects of Gamma Irradiation on Polymer Materials Used in Biomedical Applications, Nechifor C.D., În **ELECTROMAGNETIC RADIATION IN ANALYSIS AND DESIGN OF ORGANIC MATERIALS. ELECTRONIC AND BIOTECHNOLOGY APPLICATIONS**, Ed. Dorohoi D.O., Barzic A.I., Aflori M., CRC Press Taylor & Francis Group, **2017**, ISBN-13: 978-1-4987-7580-9.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Îndrumar de laborator Fizică pentru învățământul preuniversitar: EXPERIMENTEAZĂ. ÎNVAȚĂ. DESCOPERĂ, Ed. Performantica, 2025, ISBN: 978-630-328-164-3, Autori: Băcăiță, S.E., Ciobanu, I.B., Nechifor, C.D, et. all.
2. Îndrumar de lucrări practice pentru disciplina Fizică, Ed. Performantica, Iași, **2023**, ISBN 978-630-328-060-8, 172 de pagini.
3. Caiet de lucrări practice la disciplina **Fizică Generală, specialize CMMI,** Petru Edward NICA, Cristina-Delia NECHIFOR, Rodica BĂDESCU, Ed. PIM Iasi, **2013**, ISBN 978-606-13-0035-8, 76 de pagini.
4. Caiet de lucrări practice la disciplina **Bazele fizice ale măsurătorilor electrice de distanţă**, Rodica BĂDESCU, Dorin CONDURACHE, Cristina-Delia NECHIFOR, Petru NICA, Ed. PIM Iasi, **2010**, ISBN: 978-606-520-765-3, 51 de pagini
5. Caiet de lucrări practice la disciplina **Fizică pentru Facultatea de Mecanica,** Alexandrina JEFLEA, Dorin CONDURACHE, Petru NICA, Cristina-Delia NECHIFOR, Ed. PIM Iasi, **2011**, ISBN978-606-13-0215-4, 42 de pagini
6. Caiet la disciplina **Fizică 2, pentru Facultatea de Chimie Industriala,** Rodica BĂDESCU, Petru NICA, Cristina-Delia NECHIFOR, Ed. PIM Iasi, **2011,** ISBN 978-606-13-0210-9, 96 de pagini.
7. Caiet de lucrări practice la disciplina **Fizică Generală, specialize TCM,** Petru Edward NICA, Cristina-Delia NECHIFOR, Rodica BĂDESCU, Dorin CONDURACHE, Ed. PIM Iasi, **2010**, ISBN 978-606-13-0035-8, 91 de pagini.
8. Caiet de lucrări practice la disciplina FIZICA II, SIM, Petru Edward NICA, Rodica BĂDESCU, Dorin CONDURACHE, Cristina-Delia NECHIFOR, Ed. PIM Iasi, **2010**, ISBN 978-606-13-0216-1, 46 de pagini.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Suport de curs, **2024**, FIZICĂ_IEEIA_6101-6104_2024-2025 | General | Microsoft Teams
2. Suport de curs, **2023**, publicat pe pagina: https://teams.microsoft.com/l/channel/19%3adep21LxTZz0iuNCJ6PQIaZwNed9ie_OU-cmHRb9YbzQ1%40thread.tacv2/General?groupId=9fdb029d-0b24-4987-b036-572b775d1c7b&tenantId=607d63ca-9f36-4ad8-9f71-8b3efc392eb1

3. Suport de lucru pentru seminarii, **2024**, FIZICĂ_IEEIA_6101-6104_2024-2025 | General | Microsoft Teams
4. Îndrumar laborator, **2024**: FIZICĂ_IEEIA_6101-6104_2024-2025 | General | Microsoft Teams

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Barzic, AI; Albu, RM; Stoica, I**; Nechifor, CD**; Avadanei, MI; Dimitriu, DG ; Dorohoi, DO, Birefringent polyvinyl alcohol layers as retardation components for display devices, POLYMERS FOR ADVANCED TECHNOLOGIES 35(1), DOI10.1002/pat.6196, **2024**;
2. Dorohoi, DO; Postolache, M; **Nechifor, CD**; Dimitriu, DG; Albu, RM; Stoica, I.; Barzic, AI; Review on Optical Methods Used to Characterize the Linear Birefringence of Polymer Materials for Various Applications, MOLECULES 28(7), DOI10.3390/molecules28072955, **2023**;
3. Androne, DAM; **Nechifor, C**; Postolache, M; Dimitriu, DG; Dorohoi, DO; UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS**,** 85(2), pp.:199-212, https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rez3f8_168882.pdf; **2023.**
4. Lutcanu, M; Coteata, M; Bernevig, MA; **Nechifor, CD**; Cazacu, MM; Paraschiv, P; Istrate, B.; Badarau, G.; Sandu, IG; Cimpoesu, N; Obtaining and Analyzing the Al2O3-Zr02 Ceramic Layers on Metallic Substrate, ARCHIVES OF METALLURGY AND MATERIALS 67(2), pp.:479-485, DOI10.24425/amm.2022.137780, **2022**.
5. Postolache, M; Dimitriu, DG; **Nechifor, CD**; Bota, SC ; Closca, V. ; Dorohoi, DO; Birefringence of Thin Uniaxial Polymer Films Estimated Using the Light Polarization Ellipse, POLYMERS 14(5), DOI10.3390/polym14051063, **2022**.
6. Cheptea, C.; Sunel, V; Morosanu, AC; Dimitriu, DG; Dulcescu-Oprea, MM; Angheluta, MD; Miron, M; **Nechifor, CD**; Dorohoi, DO; Malancus, RN; Optimized Synthesis of New N-Mustards Based on 2-Mercaptobenzoxazole Derivatives with Antitumor Activity, BIOMEDICINE 9(5), DOI10.3390/biomedicines9050476, **2021**.
7. Barzic, AI, Albu, RM; **Nechifor, CD**; Postolache, M; Logigan, C.; Dorohoi, DO, Surface Processing of Polyethylene Terephthalate for Orientation of Nematics in Display Devices, MATERIALE PLASTICE 57(2), pp.: 1-7, DOI: 10.37358/MP.0.0.5344, **2020**.
8. **Nechifor, CD**; Aflori, M; Dorohoi, DO, Anisotropy of Thin Foils Obtained from Microwave-Irradiated Poly(Vinyl Alcohol) Aqueous Solutions, POLYMERS 11(6), 10.3390/polym11061072, **2019.**
9. **Nechifor, CD**; Postolache, M; Albu, RM; Barzic, AI; Dorohoi, DO, Induced birefringence of rubbed and stretched polyvinyl alcohol foils as alignment layers for nematic molecules, POLYMERS FOR ADVANCED TECHNOLOGIES, 30(8), pp.: 2143-2152, DOI: 10.1002/pat.4647, **2019.**
10. Barzic A.I., Nechifor C.D., Stoica, I, Dorohoi, D.O., On the Effects of UV Radiation on the Release Ability of Glucose Embedded in Hydroxypropyl Cellulose Films, JOURNAL OF MACROMOLECULAR SCIENCE PART B-PHYSICS 55(6), pp.: 575-590, **2016**.
11**. Nechifor, C.D**.; Zelinschi, C. B.; Dorohoi, D. O., Evaluation of Film Forming Polymeric Solutions for Skin Wound Dressing, MATERIALE PLASTICE 52(2), pp.:249-253, **2015**.
12. **Nechifor, C-D;** Barzic, A. I.; Stoica, I.; Closca, V.; Dorohoi, D.-O., Study on glucose release ability from hydroxypropyl cellulose films, POLYMER BULLETIN, 72(3), pp.: 549-563, **2015.**
13. **Nechifor, Cristina-Delia**; Zelinschi, Carmen Beatrice; Dorohoi, Dana-Ortansa, Influence of UV and Gamma radiations on the induced birefringence of stretched poly(vinyl) alcohol foils, Journal of Molecular Structure, 1062, pp. 179-184, **2014**.
14. Melniciuc, NP; Closca, V; **Nechifor, CD**; Dorohoi, DO, Anisotropy of Ternary Solutions Containing 1,2,4-Triazoli-1-UM Phenacylids, Studied by Spectral Means, REVUE ROUMAINE DE CHIMIE 59(5), pp.: 359-364, **2014**.
15. Cigu, TA; **Nechifor, CD**; Sunel, V; Dorohoi, DO; Cheptea, C, Optimization Reaction for Obtaining New Hydrazidones with Biological Action, REVUE ROUMAINE DE CHIMIE 59(9), pp.: 739-747, **2014**.

16. **Cristina-Delia Nechifor,** Carmen-Beatrice Zelinschi, Iuliana Stoica, Valentina Closca, Dana-Ortansa Dorohoi, Spectral Studies of Donepezil Release from Streched PVA Polymer Films, Journal of Molecular Structure 1044, pp. 262-267, **2013.**

17. **Cristina-Delia Nechifor**, Ecaterina Angheluţă, Dana-Ortansa Dorohoi, Birefringence of Poly (Vinyl Alcohol) (PVA) Thin Foils, Revista Materiale Plastice 47 (2), pp. 164-166, 2010.

18. **Cristina-Delia Nechifor,** Dana- Ortansa Dorohoi, Effects of UV Exposure on Poly (hydroxy urethane) -Poly (vinyl alcohol) (PHU-PVA) Blends for Polymer Membranes, Revista de Materiale Plastice 47 (3), pp. 306-310, **2010**.

19. **Cristina-Delia Nechifor**, Dana-Ortansa Dorohoi, Constantin Ciobanu, The Influence of Gamma Radiations on Physico-Chemical Properties of Some Polymer Membranes, Romanian Journal of Physics 54 (3-4), pp. 349-359, **2009**.

20. **Nechifor, Cristina-Delia**, Ciobanu, Catalina Liana, Dorohoi, Dana-Ortansa, Ciobanu, Constantin, Polymeric Films Properties of Poly (vinyl alcohol) and Poly (hydroxy urethane) in Different Concentrations, University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics, 71 (1), pp. 97-106, **2009**.

21. Daniela Babuşca, Mihaela Maria Dulcescu, **Cristina Delia Nechifor**, Dana Ortansa Dorohoi, Spectral Characteristics of P-Phenyl-Pyridazinium-Benzoyl-2,4,6-Picril Methylid (Ppbpm) Ternary Hydroxyl Solutions, Buletinul Institutului Politehnic din Iasi, Sectia Matematica, Mecanica Teoretica, Fizica. Tomul LIX (LVIII), Fasc.3, **2013**

22. Cristina Marcela Rusu, Dana Ortansa Dorohoi, **Cristina Delia Nechifor**, Theoretical Estimation of Some Parameters of B6 Vitamin in Polar Solvents, Buletinul Institutului Politehnic din Iasi, Sectia Matematica, Mecanica Teoretica, Fizica. Tomul LIX (LVIII), Fasc.3, **2013**

23. Cristina Marcela Rusu, Claudia Nadejde, **Cristina Delia Nechifor**, Theoretical and Experimental Study of B12 Vitamin in Polar Solvents**,** Buletinul Institutului Politehnic din Iasi, Sectia Matematica, Mecanica Teoretica, Fizica. Tomul LIX (LVIII), Fasc.4, **2013**

24**. Cristina-Delia Nechifor**, Sebastian Popescu, Dana-Ortansa Dorohoi, Surface Molecularly Imprinted of Polypropilene for Glucose Recognition Using UV Grafting Method. Preliminary Evaluation, Buletinul Institutului Politehnic din Iasi, Sectia MATEMATICA, MECANICA TEORETICA, FIZICA. Tomul LVIII (LXII), Fasc.2, pp 79-88, **2012**.

25**. Cristina-Delia Nechifor**, Sebastian Popescu, Study on Surface Energy of Polypropilene UV-Photo-Grafted with Glucose, Buletinul Institutului Politehnic din Iasi, Sectia MATEMATICA, MECANICA TEORETICA, FIZICA. Tomul LVIII (LXII), Fasc.1, pp 79-88, **2012**.

26**. Cristina-Delia Nechifor**, Marian Luţcanu, Salicylic Acid Release From Dissolvable Polymeric Blends, Buletinul Institutului Politehnic Din Iasi, Sectia MATEMATICA, MECANICA TEORETICA, FIZICA. Tomul LVI (LIX), Fasc.4, pp. 241-250, **2010**.

27. **Cristina-Delia Nechifor**, Marian Luţcanu, Evaluation of the Swelling Index for Some Hydrophilic Polymers, Buletinul Institutului Politehnic Iasi,Sectia MATEMATICA, MECANICA TEORETICA, FIZICA. Tomul LVI (LX), fasc. 3, pp.143-150, **2010**.

28. **Cristina-Delia Nechifor**, Ecaterina Angheluță, Dana-Ortansa Dorohoi, Visible Birefringence of PVA Thin Foils, Buletinul Institutului Politehnic Iasi,Sectia MATEMATICA, MECANICA TEORETICA, FIZICA. Tomul LV (LIX), Fasc.1, pp 123-127, **2009**.

29. Oana Niculescu; **Cristina-Delia Nechifor**, On the Effects of Low Pressure Argon Plasma Treatment on PVA Films, Buletinul Institutului Politehnic Din Iasi, Sectia MATEMATICA, MECANICA TEORETICA, FIZICA. Tomul LV (LIX), Fasc.1, pp 67-75, **2009**.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. **Cristina-Delia Nechifor**, Dana- Ortansa Dorohoi, Constantin Ciobanu, Polymeric Films Under UV and Gamma Radiations, The annals of the "Dunarea de Jos" University of Galati, Mathematisc, Physics, Chemistry, Informatics fascicle II, supplement, year II (XXXI), pp. 141-147, **2008**.

2. D. Mihăilescu**, Cristina-Delia Nechifor**, M. Straticiuc, Mirela Bercea, Cross sections and protons optimum energy ranges for some medical radioizotopes production, ANALELE ŞTIINŢIFICE ALE UNIVERSITĂŢII "AL. I. CUZA" IAŞI, Tomul III, Biofizică, Fizică medicală şi Fizica mediului, pp.31-36, **2007**.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. **Cristina-Delia Nechifor**, Liana Cătălina Ciobanu, Dana- Ortansa Dorohoi, Constantin Ciobanu, UV treatment of some polymer membranes obtained from poly (hydroxy-urethane) and poly (vinyl alcohol), Proceedings of ECOMAT **2008**.

2. **Cristina-Delia Nechifor**, Ecaterina Angheluţă, DanaOrtansa Dorohoi, Evaluation of Polyvinyl Alcohol Films with Different Stretching Degree, poster, A XXXVI Conferinţă Naţională Fizica şi Tehnologiile Educaţionale Moderne, 16-17 Mai 2008, Iasi, Romania, publicată în Revista Ştiinţifică "V. Adamachi", pp. 76-78, **2008**.

3. Mihaela Miron, **Cristina Nechifor**, Dana Ortansa Dorohoi, Physical-chemical Principles of the Human Eye Accommodation, poster, A XXXVI Conferinţă Naţională Fizica şi Tehnologiile Educaţionale Moderne, 16-17 Mai 2008, Iasi, Romania, publicată în Revista Ştiinţifică "V. Adamachi", pp. 86-88, **2008**.

4. Ecaterina Angheluţă, **Cristina-Delia Nechifor**, Dana Ortansa Dorohoi, Medii Anizotrope, poster, A XXXVI Conferinţă Naţională Fizica şi Tehnologiile Educaţionale Moderne, 16-17 Mai 2008, Iasi, Romania, publicată în Revista Ştiinţifică "V.Adamachi", Vol. XVII - Nr.1, pp. 93-95, **2008**.

5. **Cristina Delia Nechifor**, Mihai Straticiuc, Mirela Bercea, Dan Mihailescu, Cross sections and protons optimum energy ranges for 123 I and 201 Tl production, poster, A XXXVI Conferinţă Naţională Fizica şi Tehnologiile Educaţionale Moderne, Mai 2007, Iasi, Romania, publicată în Revista Ştiinţifică "V. Adamachi", pp. 122-123, **2007**.

6. **Cristina-Delia Nechifor**, Maura Ioana Petcu, Dan Mihailescu, Monte Carlo simulation of high energy radiation trajectories inside different materials, a XXXV-a Conferinţă Naţională "Fizica şi Tehnologiile Educaţionale Moderne", mai 2006, Iasi, Romania, publicată în Revista Ştiinţifică "V. Adamachi", pp. 111-112, **2006**

7. **Cristina-Delia Nechifor**, M. Bodale, 3D Measurement of radiation dose in tele-cobalt-therapy, a XXXIV-a Conferinţă Naţională "Fizica şi Tehnologiile Educaţionale Moderne", mai 2005, Iasi, Romania, publicată în Revista Ştiinţifică "V.Adamachi", Vol. XIV - Nr.1, pp. 76-78, **2005**.

J. Invenţii.

K. Contracte de cercetare.

1. Director de proiect cercetare: „*Biosenzori cu cristale lichide ancorate pe substrat de alcool polivinilic modificat fizic (PVA-BIOSENZ)",* Tip Program: Granturi naţionale de cercetare – ARUT, **Grant nr. GNaC2023_264/2024**

2. Cercetător Post-doctoral in proiectul: Obţinerea polimerilor cu capacitate de recunoaştere moleculară pentru sistemele de eliberare controlata de medicamente, utilizând iradierea UV ca metoda fizică de grefare, finaţat prin competiţie prin proiectul: POSDRU/89/1.5/S/63663

L. Premii, distincţii.

M. Alte realizări semnificative.

Data,
02.10.2025

Nume, semnătura
Lector Dr. fiz. Nechifor Cristina-Delia

* Conform H.G. 1175/ 2006

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă Inginerie Mecanică

Numele şi prenumele: Prof. Em. Dr. Ing. Dumitru OLARU

A. Teza de doctorat. CERCETĂRI PRIVIND CREŞTEREA TURAŢIEI RULMENŢILOR RADIAL-AXIALI CU BILE, iulie 1992, Cond. Prof. em. Dr. ing. Mihai GAFIŢANU

B. -

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. Gafitanu, M.D.,Cretu,Sp.,Nastase,D.,**Olaru, D.N. : RULMENŢI. PROIECTARE SI TEHNOLOGIE**, Vol.I, Bucureşti, Editura Tehnică, 1985; (Premiul Academiei Române – 1987)
2. Gafitanu, M.D.,Cretu,Sp.,Nastase,D.,Racocea,C., Coman, Gh., Nestor,T.,**Olaru, D.N. : RULMENŢI. PROIECTARE SI TEHNOLOGIE**, Vol.II, Bucureşti, Editura Tehnică, 1985; (Premiul Academiei Române – 1987);
3. **Olaru, D.N., FUNDAMENTE DE LUBRIFICATIE,** Editura "Gh.Asachi", Iaşi, 2002, 250 pagini. ISBN 973-8292-02-6
4. Tabacaru Lucian, **Olaru Dumitru, LUBRIFICAŢIE. NOŢIUNI DE BAZĂ SI APLICAŢII,** Editura **TEHNICA- INFO,** Chisinău, 2003;
5. Gelu Ianus**,Dumitru Olaru,**Alina Corina Dumitrascu, **ROCESE TRIBOLOGICE IN MICROSISTEME, Ed. POLITEHNIUM**, Iasi, 2009;
6. Niţu Constantin, Dumitru Olaru, Carmen Sticlaru, **COMPONENTELE SISTEMELOR MECANICE SI MECATRONICE, Ed. Academiei Oamenilor de ştiinţă din România, Bucureşti,** 2011, ISBN 978-606-8371-42-9;
7. Gheorghe Prisacaru, Vlad Carlescu,**Dumitru Olaru, ACTUATORI NECONVENTIONALI ÎN MECATRONICĂ,** Ed. **TEHNOPRES,** 2013, ISBN – 973-702-142-8 (format academic),180 pagini
8. Dumitru N. Olaru, **TRIBOLOGIE.Ediţia a II-a, Revizuită şi adăugită**, **Editura Universităţii Tehnice "Gheorghe Asachi" din Iaşi**, 2023,240 pag. ISBN ISBN 978-973-621-535-3.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local; anexa V.3

1. **Olaru**,**D.N., TRIBOLOGIE**, Rotaprint U.T. "Gh.Asachi" Iaşi, 1995, 280 pagini;
2. Bercea I., **Olaru, D.N**., **TRIBOLOGIA SISTEMELOR MECANICE,** Rotaprint U.T.Iaşi,1998, 270 pagini.
3. Gafiţanu, M.D., Creţu, Sp., Bariz,Gh., **Olaru,D.N.: Organe de Maşini. Indrumar de laborator**, Litografia I.P.Iaşi, 1987, 120 pagini;
4. Creţu, Sp., **Olaru, D.N.,** Prisacaru Gh., Tudose Fl., Balan,R.: **TRIBOLOGIE. Indrumar de laborator,** Litografia I.P.Iaşi, 1990, 100 pagini.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1.Dumitru Olaru, **TRIBOLOGIE**, Suport de curs în format electronic ppt,2016, www.mectuiasi.ro/index.php/studenti/download-descarca2

2. **D. Olaru**, Gh. Bodi, M.R.Balan, C. V. Stamate, M.Benchea, TRIBOLOGIE. Aplicatii (Lucrări de laborator şi probleme) în format electronic, www.mectuiasi.ro/index.php/studenti/download-descarca2
3.**Dumitru Olaru**, TRIBOLOGIE-CURSURI CU APLICATII Iaşi, 2020 (Format online) ; https://mec.tuiasi.ro/wp-content/uploads/2020/09/DUMITRU-OLARU_TRIBOLOGIE-CURSURI-CU-APLICATII.pdf

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

F1. Prim -autor şi co-autor de articole publicate în reviste de specialitate din străinătate **cu factor de impact inclus în Journal of Citation Reports**

1. **D.N.Olaru** and M.D.Gafitanu: *Starvation in Ball Bearings*, **Wear**,170 (1993),219-234;
2. **D.N.Olaru** and M.D.Gafitanu: *Lubrication Safety in High-Speed Ball Bearings*, **Lubrication Science**, 9-4, August 1997,pp 365- 389;
3. **D.N.Olaru** and M.D.Gafitanu: *A New Methodology to Estimate Starvation in Ball Bearings* , **Tribotest Journal**,4-1,1997,p.93- 106;
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1. **Olaru D.,** C. Stamate - *Rolling friction in the mechatronic microsystems,* ***Proc. of VAREHD Conference Vol.14****, 2008,122-126;*

2. Stamate C**., D. Olaru** - *A new pin disc microtribometer,* ***Proc. of VAREHD Conference Vol.14****, 2008,144-149;*

3. Mihai BAICEANU, Cezar OPRISAN, **Dumitru OLARU:** *INFLUENCE OF FRICTION IN THE DYNAMIC RESPONSE OF A FOUR-BAR MECHANISM WITH CLEARANCE JOINTS*, **Proceedings of VAREHD**, Vol. 16, 2012, pp. 97- 102.

4. Stamate C., **D. Olaru,** Gh. Prisăcaru, Gelu Ianus - *Rolling Friction in the Mechatronic Microsystems,* International Conference „**6th Workshop on European Scientific and Industrial Collaboration on Promoting Advanced Technologies in Manufacturing" – WESIC'08**, 25-26 September 2008, Bucharest, Romania, pp.295-302, ISSN: 1584-5982;

5. **Olaru,D.N.,** Gafiţanu, M.D.,Silion,D.,Secuiu,Gh., ***Thermal Effects and Lubrication Starvation in High-Speed Ball Bearings. Analytical and Experimental Investigations,*** **Proceedings of 6th International Congress on Tribology –EUROTRIB'93,** Budapesta,1993,vol.4,p.228-233

6. Olaru, D.N., Gafitanu,M.D., *Minimum Film Thickness and Limit Speed for Ball Bearings*, **Proceedings of. 6th Nordic Symp.on Tribology, NORDTRIB'94**, Uppsala, Sweden,1994, p.204 - 212.

7. Olaru, D.N., Bercea, M., Bercea, I., V. Paleu.,***The Behaviour of the Lubricant Oils Blended with Olefin Polymers***. **Proceedings of the 11th International Colloquium Tribology** Esslingen (Germany) , January 13-15, 1998, Vol.II, pp.202-208.

8. Olaru, D.N.,Lorenz,P., Rudy,D., Cretu,Sp., Prisacaru,Gh., *Tribology Improving the Quality in the Linear Rolling Guidance Systems.Part 1 Friction in Two Contact Points Systems*, **Proc. of the 13th International Colloquium on Tribology, Esslingen,** 15-17 January,2002,

9. Olaru,D.N., Lorenz, P., Rudy,D., *Tribology – Improving the Quality in the Linear Rolling Guidance Systems*. *Part 2 Friction in Four Contact Points Systems*, **Proc. of the 13th International Colloquium on Tribology, Esslingen** , 15-17 January, 2002.

10. Olaru, D.N., Olaru – Zaharia, O.D.,*A Biotribological Systematization in the Human Joints*, **Proc. of the 13th International Colloquium on Tribology, Esslingen,** 15-17 January, 2002

11. Gafitanu,M.D.,**Olaru,D.N.,** Croitoru,L.,*Friction Losses in the Ball-Races Interactions for High-speed Ball Bearings. A Computer program and experimental results,* **Proceedings of 6thInternational Congress on Tribology –EUROTRIB'93,** Budapesta,1993,vol.4,p.181- 186;

12. Gafiţanu,M.D., Silion,D., Ianuş, G., **Olaru,D.N**., *A General Model for Grease Deterioration in Ball Bearings***, Proceedings of 6th International Congress on Tribology –EUROTRIB'93,** Budapesta,1993,vol.2 ,p.355-359;

13. Hantelmann,M. Balan,M.,**Olaru,D.N**., *A General Angular Ball bearing Friction Torque Model,* **Proceedings of 6th International Congress on Tribology –EUROTRIB'93,** Budapesta,1993,vol.4, p.198-203;

14. Bercea,I., Creţu,Sp., Mitu,N., Olaru,D.N., Lefter,D., *A Non-Newtonian Treatment of the rib-Roller End Contact in Tapered Roller Bearings* **, Proceedings of.6th Nordic Symp.on Tribology, NORDTRIB'94**, Uppsala, Sweden,1994,p.711-720;

15. Gafitanu,M., Ianus,G. Silion,D., **Olaru,D.N**, *The Bearing Lubrication with Minimal Quantities of Grease*, **Proc.of 4th Int. Conf. of the Egyptian Society of Tribology**, Cairo,1995, p.339 - 346

16.Bercea, I., Cretu, Sp., Mitu, N., **Olaru, D.N**.,*The Effect of the Oil Flow on Friction Torque in A Tapered Roller Bearing,* **Proceedings of the 10th International Colloquium Tribology** T.A.Esslingen, (Germany), 1996, January 9-11, Vol. 3, pp. 1595-1605.

17.Bercea, I., Bercea M., **Olaru, D.N.,** Pohontu, M., *The Performance of Thickened Polymer - Lubricant Oils in Rolling Bearings*. **Proceedings of 11th International Colloquium Tribology** Stuttgart/Ostfildern (Germany), January 13-15, 1998, Vol.I, pp.601-615

18.Bujoreanu, C., **Olaru, D. N**., Popinceanu, N., *Scuffing Prediction in High Speed Angular Contact Ball Bearings***, Proceeding of 11th International Colloquium,** Stuttgart/Ostfildern (Germany), 13-15 January, 1998, Vol.I, p.655-661.

19.Gafitanu, M, Ianus, G. F.Farcas, **Olaru, D.N.,** *Grease Reliability in Ball Bearing Applications*, **Proceedings of 11th Int.Colloquium on Tribology**, Stuttgart/Ostfildern (Germany),13-15 January 1998, vol.I,p. 587-591;

20.Prisacaru,Gh., **Olaru,D.N.,** Cretu,Sp., Lefter,D., *Influence of the Rib-Roller End Contacts Geometry on the Cylindrical Roller Bearing Lubrication* **,Proceeding of 11th International Colloquium,** Stuttgart/Ostfildern (Germany) 13-15 January, 1998, Vol.I, p.645-653;

21.Cretu S, **Olaru D.N.**, Prisacaru Gh., Bercea I, Mitu N.,*The effect of rib-roller end contact geometry on friction torque in a cylindrical roller bearing* ,**Proceedings of the 11th International Colloquium Tribology**, Stuttgart/Ostfildern (Germany), Jan. 13-15, 1998, p. 617-624

22.Bercea,I.,Mitu,N.,Cretu,Sp., **Olaru, D.N.** ,*Influence of Initial Axial Compression on Double-Row Tapered Roller Bearing Reliability*, **Proceedings of 8th Int.Conf. on Tribology, NORDTRIB'98**, Denmark, 1998, vol.II, p-497-506;

23.Damian, I., Oancea, I., **Olaru, D.N.,** Cretu, Sp**.,** *Theoretical formulation regarding the evaluation of misalignment effects on power losses in angular ball bearings***, Proceedings of the 3rd International Conference of Tribology BALKANTRIB'99**, june 2-4 , Sinaia, p.71-79,vol.III, 1999.

24.Paleu, V., Cretu, Sp**., Olaru, D**., Prisecaru, Gh., Bercea, I., *Numerical results of a quasi-static analysis on hybrid ball bearing***, Proceedings of the 3rd International Conference of Tribology Balkantrib'99**, June 2-4 , Sinaia, p.81-89, vol.III, 1999.

25.Bujoreanu**,** C.G., Cretu, Sp., **Olaru, D.N**., Popinceanu, N.G., *Some kinematics aspects in an angular contact ball-bearing***, Proceedings of the 3rd International Conference of Tribology Balkantrib'99**, june 2-4 , Sinaia, p.103-112, vol.III, 1999.

26. Cretu, Sp., Paleu, V., Tudor, A., **Olaru, D.N**., Lefter, D., *Hybrid rolling bearings-a better solution for bearings workings in special environments*, **Proceedings of the 3rd International Conference of Tribology Balkantrib'99**, june 2-4 , Sinaia, p.229-237, vol.II, 1999.

27. C.Bujoreanu, **D.N. Olaru**, Sp. Cretu, N. Popinceanu, D. Nelias, *Scuffing Approach for an angular Contact Ball-Bearing***, Proceedings of the 12th International Colloquium Tribology Stuttgart/Ostfildern** (Germany), Esslingen,January 2000, Vol II, pp. 1245-1259.

28. Paleu, V., Cretu, Sp., **Olaru, D.N**., Lefter, D., "*Quasi-Static Analysis and Endurance Prediction for a Hybrid Ball Bearing -Numerical Results*", **Proceedings of the 12thInternational Colloquium Tribology 2000 – Plus,** Stuttgart/Ostfildern, Technische Akademie Esslingen (Germany), January 11-13,

2000, Vol. II, pp. 1309-1321.

29. Paleu, V., **Olaru, D.N.,** Cretu, Sp., *"Power Loss Prediction for a Hybrid Rolling Bearing",* **Proceedings of the 12th International Colloquium Tribology 2000 – Plus**, Stuttgart/Ostfildern, Technische Akademie Esslingen (Germany), January 11-13, 2000, Vol. II, pp. 1263-1269.

30. Olaru D.N., Lorenz ,P. Rudy, D., Prisacaru Gh., Friction in Linear Rolling Systems, **Proc. of. Int. Tribology Conference ROTRIB 2003**, Galati, Sept. 2003.

43 lucrări publicate în volume ale unor conferinţe naţionale (TRIBOTEHNICA'80, TRIBOTEHNICA '82, TRIBOTEHNICA '84, TRIBOTEHNICA '87, TRIBOTEHNICA'90, PRASIC'90, ROTRIB'96, BALKANTRIB'99, etc.

E. LISTA BREVETELOR DE INVENŢIE:

1. Title: **Process and Inertial Micro-Tribometer for Studying Rolling Friction, Patent Number(s): RO127562-B1**, Patent Assignee: UNIV IASI TEHNICA ASACHI GHEORGHE, Inventor(s): **OLARU D**; STAMATE V C; PRISACARU G; IANUS G.

2. Title: **Gravity Pin-on-Disc Micro-Tribometer for Studying the Sliding Friction Phenomenon, Patent Number(s): RO127849-A2,**Patent Assignee: UNIV IASI TEHNICA ASACHI GHEORGHE, Inventor(s): **OLARU D**; STAMATE V C; PRISACARU G;.IANUS G,DUMITRASCU C.A.

K. Contracte de cercetare/granturi

GRANTURI CNCSIS

I. Director de grant:

1. Grant CNCSU tip A, Cod 524/1996
Tema: OPTIMIZAREA PROCESELOR TRIBOLOGICE DIN ARTICULAŢIILE SISTEMELOR DE PROTEZARE ALE APARATULUI LOCOMOTOR UMAN
Director grant: Dumitru OLARU
Valoare 5.000.000 lei (800 USD)

2. Grant CNCSU Tip A Cod 1136/1997
Tema: OPTIMIZAREA PROCESELOR TRIBOLOGICE DIN ARTICULAŢIILE SISTEMELOR DE PROTEZARE ALE APARATULUI LOCOMOTOR UMAN
Director grant: Dumitru OLARU
Valoare totala 8 000 000 lei (900 USD)

3.Grant CNCSU Tip A Cod 1132/1997
Tema : STUDIUL PIERDERILOR PRIN FRECARE IN RULMENŢII RADIALI SI RADIAL AXIALI CU BILE, IN CORELAŢIE CU ABATERILE DE MONTAJ SI CU RIGIDITATEA ARBORILOR
Director grant: Dumitru OLARU
Valoare 10.000.000 lei (1400 USD)

4.Grant CNCSU Tip A Cod 517/1998 Tema 1
Tema: STUDIUL PIERDERILOR PRIN FRECARE ÎN RULMENŢI RADIAL-AXIALI CU BILE IN CORELAŢIE CU ABATERILE DE MONTAJ ŞI CU RIGIDITATEA ARBORILOR**.**
Director grant: Dumitru OLARU
. Valoarea 16.000.000 lei (1900 USD)

5.Grant CNCSIS Tip A, Cod 540/1999, Tema 12, Contract 34280/1999 :
Tema: CERCETĂRI PRIVIND CREŞTEREA PERFORMANTELOR TRIBOSISTEMELOR CU DESTINAŢII SPECIALE PRIN UTILIZAREA MATERIALELOR CERAMICE. APLICAŢII LA RULMENŢI SI SISTEME DE PROTEZARE.
Director grant: Dumitru OLARU
Valoarea 45 000 000 lei (3000 USD)

6.Grant CNCSIS Tip A Cod 886/2000, Tema 8, Contract 37089/2000 :
Tema: CERCETĂRI PRIVIND CREŞTEREA PERFORMANTELOR TRIBOSISTEMELOR CU DESTINAŢII SPECIALE PRIN UTILIZAREA MATERIALELOR CERAMICE. APLICAŢII LA RULMENŢI SI SISTEME DE PROTEZARE.
Director grant: Dumitru OLARU
Valoarea 45 000 000 lei (2000 USD)

7.Grant CNCSIS Tip A Cod 282/2001, Tema 48, Contract 37089/2001
Tema: CERCETĂRI PRIVIND FIABILITATEA SISTEMELOR DE GHIDARE LINIARE CU ROSTOGOLIRE, IN CORELAŢIE CU PROCESELE TRIBOLOGICE SI PRECIZIA DE FUNCŢIONARE
Director grant: Dumitru OLARU Valoarea 55 000 000 lei (2114 EUR)

8. Grant CNCSIS Tip A. Tema nr.. **24** COD CNCSIS **403/2002**
Tema: CERCETĂRI PRIVIND FIABILITATEA SISTEMELOR DE GHIDARE LINIARE CU ROSTOGOLIRE, IN CORELAŢIE CU PROCESELE TRIBOLOGICE SI PRECIZIA DE FUNCŢIONARE
Director grant: Dumitru OLARU
Valoare 50.000.000 Lei (1600 EUR)

9. Grant CNCSIS Tip A. Tema nr.. **29** COD CNCSIS **326/2003**
Tema: CERCETĂRI PRIVIND FIABILITATEA SISTEMELOR DE GHIDARE LINIARE CU ROSTOGOLIRE, IN CORELAŢIE CU PROCESELE TRIBOLOGICE SI PRECIZIA DE FUNCŢIONARE
Director grant: Dumitru OLARU
Valoare 67.000.000 Lei (1750 EUR)

10. Grant CNCSIS Tip A. Contract nr. 33371/2004, tema 30 –Anul 2004
CERCETARI PRIVIND FIABILITATEA SISTEMELOR MECATRONICE IN CORELATIE CU PROCESELE MACRO-,
MICRO- SI NANOTRIBOLOGICE Autoritatea Contractanta – UEFISCSU
Contractor: Universitatea Tehnică „Gh. Asachi" din Iasi
Director grant: Dumitru OLARU
Valoare contract: 100000000 ROL (2467 EUR)

11. . Grant CNCSIS Tip A. Contract nr. 34664/2005, tema 37- Anul 2005
CERCETARI PRIVIND FIABILITATEA SISTEMELOR MECATRONICE IN CORELATIE CU PROCESELE MACRO-,
MICRO- SI NANOTRIBOLOGICE Autoritatea Contractanta – UEFISCSU
Contractor: Universitatea Tehnică „Gh. Asachi" din Iasi
Director grant: Dumitru OLARU
Valoare contract: 180000000 ROL (4969,49 EUR)

12. PROGRAM PN II – IDEI cod ID 607 contract 381/2007 (2007)
CERCETĂRI PRIVIND REDUCEREA FRECĂRII ÎN MICROSISTEME MECATRONICE
Autoritatea Contractanta – UEFISCSU Contractor: Universitatea Tehnică „Gh.Asachi" din Iasi
Director grant: Dumitru OLARU
Valoare contract: 41400RON (12418 EUR)

13. PROGRAM PN II – IDEI cod ID 607 -2008, contract 381/2007 (2008)
CERCETARI PRIVIND REDUCEREA FRECARII INMICROSISTEME MECATRONICE
Autoritatea Contractanta – UEFISCSU Contractor: Universitatea Tehnică „Gh.Asachi" din Iasi
Director grant: Dumitru OLARU
Valoare contract: 355505,80 RON (96.597 EUR)

14. PROGRAM PN II – IDEI cod ID 607 -2009, contract 381/2007 (2009-2010)
CERCETARI PRIVIND REDUCEREA FRECARII INMICROSISTEME MECATRONICE
Autoritatea Contractanta – UEFISCSU Contractor: Universitatea Tehnică „Gh.Asachi" din Iasi
Director grant: Dumitru OLARU
Valoare contract: 126968,94 RON (29.962 EUR)

15. PROGRAM PN II – IDEI cod ID 607 contract 381/2007 –Anul 2010
Tema: CERCETĂRI PRIVIND REDUCEREA FRECĂRII ÎN MICROSISTEME MECATRONICE
Autoritatea Contractanta – UEFISCSU Contractor: Universitatea Tehnică „Gh.Asachi" din Iasi
Director grant: Dumitru OLARU
Valoare contract: 147766,79 RON (35090 EUR)

II. Membru în colectiv de cercetare

1. Grant CNCSU – BM tip D
Tema: ASIGURAREA CALITĂŢII SI FIABILITATII SISTEMELOR MECANICE IN CORELAŢIE CU PROCESELE TRIBOLOGICE SI FENOMENELE DE OBOSEALA MECANICA
Director tema: prof.dr.ing.Spiridon CRETU,
Valoarea totală **60 000** USD
Perioada 1998-2002;

2. Contract POSDRU/87/1.3/S/64069 FLEXFORM
(Platforma profesionala flexibila pe platforme mecatronice)-Program de formare,
BeneficiarUniversitatea Tehnica din Cluj Napoca,
Director TUIasi **Prof. Prisacaru Gheorghe**;
Valoare : 1 330 825 RON

3. Contract PN II 1731, (Contract fin. 71-129/2007)- UEFISCDI
Beneficiar Universitatea Tehnica din Cluj Napoca,
Director: **prof. Gheorghe Prisacaru;**
Valoare 131 086 RON

4. POSDRU/87/1.3/S/61397
- Retea Natională de Formare CONtinuă a CadrelOR Didactice din Învătământul Preuniversitar Profesional si Tehnic **– CONCORD**
Finantator: Fondul Social European prin Programul Operational Sectorial pentru Dezvoltarea Resurselor Umane 2007 –2013
Beneficiar: Universitatea "Politehnica" Bucuresti
Partener 2: Universitatea Tehnică „Gheorghe Asachi" din Iasi
Expert operational (expert pe termen lung) responsabil domeniul inginerie mecanică (partener 2):
Prof. Gheorghe Prisacaru
Valoare contract: 753 844 (RON)

5. Grant PNII 71129/2007
Sisteme mecatronice de acţionare realizate cu noi tipuri de actuatori pentru aplicatii in robotica si in alte domenii
Director grant: **prof. dr. ing. Gheorghe Prisacaru**
15.000 RON – 2007; 87.200 RON – 2008; 10.386 RON – 2009; 18.500 RON – 2010
Total: 131.086 RON – cotă de participare de 33% = 43.695 RON (11 776 EUR)

L. Premii şi distincţii

1. **Premiul Academiei Române pentru monografia: RULMENŢI. PROIECTARE SI TEHNOLOGIE, Vol.I şi Vol II, Bucureşti, Editura Tehnică, 1985;**

M. Alte activităţi de cercetare:

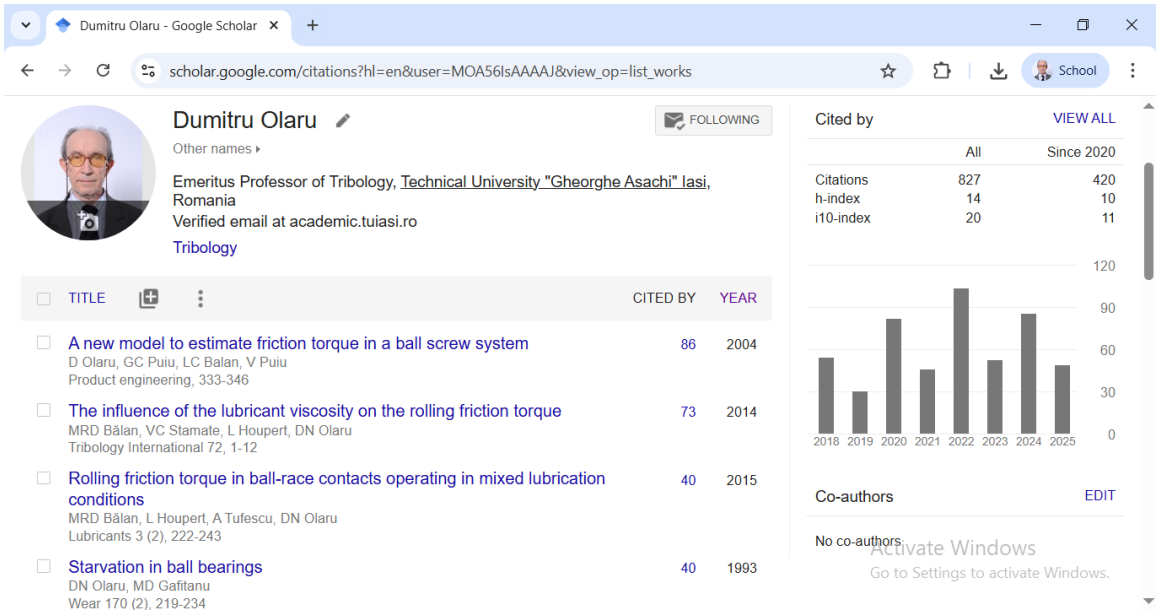
1. BURSA DE CERCETARE DAAD cu tema: TRIBOLOGY OF LINEAR GUIDANCE SYSTEMS
HTW des Saarlandes, Saarbrucken, Germania şi INA Homburg, Germania
Perioada: Iulie – Septembrie 2001 (3 luni);

2. BURSA DE CERCETARE DAAD cu tema: TRIBOLOGY OF MECHATRONICS MICROSYSTEMS
HTW des Saarlandes, Saarbrucken, Germania
Perioada: August – Septembrie 2004 (2 luni);

3. Conducător de doctorat cu 15 teze finalizate si alte 3 teze în diverse stadia de lucru.

4. 333 citări în publicaţii SCOPUS din care 150 citări sunt în reviste WOS cu factor de impact.

5. Punctaj total conform Anexa 17,CNATDCU (O.M. 6129/20.12.2016) = 761,796 (minimum este 114 puncte)



Oct. 2025

Prof. em. dr. ing. Dumitru OLARU

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă Inginerie Mecanică

Numele şi prenumele: Emilian PĂDURARU

A. Teza de doctorat.

- *CONTRIBUȚII TEORETICO – EXPERIMENTALE PRIVINT UTILIZAREA MATERIALELOR COMPOZITE ÎN DOMENIUL SISTEMELOR DE PREHENSIUNE*, Universitatea Tehnică "Gheorghe Asachi" din Iași, Domeniul Inginerie Industrială, Conducător de Doctorat: Prof. univ. dr. ing. Cătălin Gabriel DUMITRAȘ

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

- Cioată F., Munteanu A., **Păduraru E.**, *Laboratoare T.C.D., Fac. CMMI,* îndrumar de laborator la disciplina Toleranțe și control dimensional, disponibil în format electronic, www.cmmi.tuiasi.ro/studenti/cursuri, Iași, 2020, 311 pag.
- Cioată F., Munteanu A., **Păduraru E.**, *TOLERANCES AND DIMENSIONAL CONTROL_Laboratory works for foreigner students,* îndrumar de laborator în limba engleză la disciplina Toleranțe și control dimensional, disponibil în format electronic, www.cmmi.tuiasi.ro/studenti/cursuri, Iași, 2021, 144 pag.
- Cioată F., Munteanu A., Păduraru E., *PROIECT DE AN la disciplina Ehipamente tehnologice de control în mecanica fină Studiu de caz nr. 1*, 2020, 39 pag, https://cmmi.tuiasi.ro/studenti/cursuri/

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

- Horodincă, M., Chifan, F., **Păduraru, E.**, Dumitraș, C.-G., Munteanu, A., Chitariu, D.-F., A Study of 2D Roughness Periodical Profiles on a Flat Surface Generated by Milling with a Ball Nose End Mill, Materials 2024, 17, 1425. https://doi.org/10.3390/ma17061425 ;
- Chitariu, D. F., **Păduraru, E.,** Dogan, G, Ilhan, M., Negoescu, F., Dumitraș C. G., Horodincă, M. (2020), *Experimental research on behaviour of 3d printed gripper soft jaws*, Revista de Materiale Plastice, Vol. 57, Nr. 4, pp. 366-375, DOI: https://doi.org/10.37358/MP.20.4.5437 ;
- **Păduraru, E.,** Dumitraș, C.G., Chitariu, D.F., Horodincă, M., Chifan, F. (2023), *Research on Additive Technique Parameter Optimization for Robotic Gripper Construction*, Machines 2023, 11, 621. https://doi.org/10.3390/machines11060621
- Rădulescu, B., Mihalache, A. M., **Păduraru, E.,** Hrițuc, A., Rădulescu, M., Slătineanu, L., Ermolai, V. (2023), *Tensile Behavior of Chain Links Made of Polymeric Materials Manufactured by 3D Printing*, Polymers 2023, 15(15), 3178; https://doi.org/10.3390/polym15153178

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

- Munteanu, A., **Păduraru, E.,** Cioată, F., Ciobanu, M. (2023), *Morphological Matrices Application in Case of Location-Positioning Devices with Tiltable Plate*, Bulletin of the Polytechnic Institute of Iași. Machine constructions Section, vol.69, no.1, 2023, pp.115-122. https://doi.org/10.2478/bipcm-2023-0009
- **Păduraru E.,** Dumitraș, C. G., Chitariu, D. F., (2020), *Optimization of a gripper made by composite material*, Annals of the Academy of Romanian Scientist Series on Engineering Sciences, Volume 12, Number 2, pp. 14-21;
- Bocăneț, A. M., Chitariu, D. F., Chifan, F., **Păduraru, E.** (2019), *Considerations Regarding Chips Processing Equipment Component of a Sustainable Metalworking Process*, Buletinul Institutului Politehnic din Iaşi, publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi Volumul 65 (69), Numărul 2, 2019, Secţia Construcţii de Maşini, pp. 49-56;
- **Păduraru, E.,** Dumitraș, C.G., Chitariu, D.F., Chifan, F. (2022), *RESEARCH ON DEVELOPING OF A RECONFIGURABLE GRIPPING MECHANISM WITH ELECTRIC DRIVE*, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi, Volumul 68 (72), Numărul 4, 2022, Secţia CONSTRUCŢII DE MAŞINI, DOI:10.2478/bipcm-2022-0035
- **Păduraru, E.,** Dumitraș, C.G., Chitariu, D.F., Chifan, F. (2022), *STUDY ON OPTIMIZING MATERIALS FOR 3D GRIPPER PRINTING*, International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. XIV, No. 2 / 2022 https://doi.org/ 10.54684/ijmmt.2022.14.2.174
- **Păduraru, E.,** Munteanu, A. (2021), *Adaptive gripper for industrial robots*, The XXVth International Scientific Conference "Inventica 2021", Iasi, June 23-25, 2021, ISSN: 1844-7880;
- **Păduraru, E.,** Chitariu, D. F., Dumitraș, C. G., Horodincă, M., Munteanu, A., Chifan, F., Hrib, F. V., (2022), *Modular gripper,* Inventica 2022, ISSN: 1844-7880;
- **Păduraru, E.,** Munteanu, A., Chifan, F. (2023), *Morphological matrices application in case of robot grippers Matrix*, Inventica 2023;
- **Păduraru, E.,** Dumitraș, C. G., (2016), *Designing a Flexible Gripping System for an Industrial Robotic Arm,* Buletinul Institutului Politehnic din Iaşi Publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi Volumul 62 (66), Numărul 4, Secţia Construcţii de Maşini, pp. 55-60;
- Munteanu, A., CIoată, F., **Păduraru, E.,** (2017), *Portable selfcentred device with calibrated rollers*, MATEC Web of Conferences 112, 01001, IManE&E 2017, DOI: https://doi.org/10.1051/matecconf/201711201001, Web of Science/Clarivate Analytics, WOS:000579349600001;
- **Păduraru E.,** Dumitraș, C. G., (2018), *Finite Element Analysis in Developing New Solution of Gripping Systems*, Buletinul Institutului Politehnic din Iaşi publicat de Universitatea Tehnică „Gheorghe Asachi" din Iaşi Volumul 64 (68), Numărul 4, Secţia Construcţii de Maşini, pp. 49-60;

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

- Adriana Munteanu, **Emilian Păduraru**, *Method and Device for Angle Control of Conical Shafts*, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI Publicat de Universitatea Tehnică „Gheorghe Asachi" din laşi acceptat spre publicare feb 2025;
- Emil ian Păduraru, Adriana Munteanu, Florin Chifan, The Pugh Matrix Application in Case of Robot Grippers, THE XXVIll-th INTERNATIONAL CONFERENCE of INVENTICS "lNVENTICA 2024" Proceedings, 978-83-67405-79-9, https://doi.org/10.2478/9788367405799-002, EBSCO, Google Books, Google Scholar;
- Munteanu Adriana, **Păduraru Emilian**, Cioată Florentin, Ciobanu Maria, *Morphological Matrices Application in Case of location-Positioning Devices with Tiltable Plate*,

BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI Publicat de Universitatea Tehnică „Gheorghe Asachi" din laşi Volumul 69 (73), Numărul 1, 2023 Secţia CONSTRUCŢII DE MAŞINI, DOI:10.2478/bipcm-2023-0009;

- **Emilian Păduraru**, Adriana Munteanu, Florin Chifan, *The Pugh Matrix Application in Case of Robot Grippers,* THE XXVIll-th INTERNATIONAL CONFERENCE of INVENTlCS "INVENTICA 2024" Proceedings, 978-83-67405-79-9, https://doi.org/10.2478/9788367405799-002, EBSCO, Google Books, Google Scholar;
- Ana Maria Bocănet, Adriana Munteanu, **Emilian Păduraru**, *Creativity stimulation by using the imposed decision technique in the field of green manufacturing engineering* , THE XXI INTERNATIONAL CONFERENCE "INVENTICA 2017" pag.153-160 ISSN: 1844-7880.

J. Invenţii.

- Bocăneţ, A. M., Chitariu, D. F., **Păduraru, E.,** *Echipament pentru sfărmarea – compactarea aşchiilor şi separarea-colectarea lichidului de răcire-ungere de la maşina-unealtă*, RO132975 (A2);
- **Păduraru, E.,** Chitariu, D.F., Chifan, F., *Mecanism de prehensiune cu 4 fălci reconfigurabil*, RO135208 (A2);

K. Contracte de cercetare.

- Proiect Dezvoltarea instituțională a TUIASI prin creșterea vizibilității și a performanței cercetării PN III-1-1.2 PFE nr. 9PFE/2018 - 2018-2020. Valoarea totala 4439209,91 lei. Director proiect Prof. Loghin Carmen;
- Proiect Gripper reconfigurabil, grant intern TUIASI, nr. 15449/13.08.2020. Valoare 15.000 lei, director proiect Conf. Chitariu Dragos.

L. Premii, distincţii.

- Bocaneţ Ana, Chitariu Dragoş, **Păduraru Emilian**, *Medalia de bronz pentru Echipament pentru sfârmare-compactare aşchii şi separarea-colectarea lichidului de răcire-ungere de la maşina-unealtă*, Expoziţia Internaţională Specializată Infoinvent 15-18.10.2017, Chişinău.
- Bocaneţ Ana, Chitariu Dragoş, **Păduraru Emilian**, *Medalia de aur pentru Echipament pentru sfârmare-compactare aşchii şi separarea-colectarea lichidului de răcire-ungere de la maşina-unealtă,* Inventica 2017, Iasi.
- Chitariu Dragos, Chifan Florin, **Păduraru Emilian**, Certificat of Excellence, Justin Capra Association of Inventors, pentru Energy efficient equipment for metallic chip fragmentation and compression, premiu oferit cu ocazia Inventica 2019.
- Chitariu Dragos, Chifan Florin, **Păduraru Emilian**, Diploma of Achievement, pentru lucrarea Concepția și realizarea de echipamente de fragmentare – compactarea a deșeurilor modulare, eficiente, energetic ECO-EFCD, cu ocazia Inventica 2019.
- **Păduraru Emilian** ,Chitariu Dragos, Chifan Florin, Diploma of Achievement și Medalia Inventica, pentru 4 Jaws Reconfigurable Gripper, cu ocazia Inventica 2020.
- **Păduraru Emilian**, Chitariu Dragos, Chifan Florin, , Diploma of Silver Medal și Medalia Silver, pentru 4 Jaws Reconfigurable Gripper, cu ocazia Euroinvent 2020.
- Chitariu Dragos, Chifan Florin, **Păduraru Emilian**, Diploma of Silver Medal și Medalia Silver, pentru Energy efficient equipment for metallic chip fragmentation and compression, Research project, cu ocazia Euroinvent 2020.

M. Alte realizări semnificative.

Data, Semnătura,

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: PALEU VIOREL

A. Teza de doctorat

1. Diplomă de Doctor în Mecanică, titlul ştiinţific de doctor inginer în specialitatea Inginerie Mecanică, cu distincţia MAGNA CUM LAUDAE, obţinut prin Ordinul Ministrului Educaţiei, Nr. 4900 din 11.11.2002 (teză susţinută în cadrul Universităţii Tehnice "Gh. Asachi" din Iaşi, pe data de 27.09.2002, titlul tezei de doctorat: Cercetări teoretice şi experimentale privind dinamica şi fiabilitatea rulmenţilor hibrizi, coordonator ştiinţific Prof. Dr. Ing. Spiridon CREŢU.
2. HABILITATION THESIS: "Research on enhancing the performances of mechanical systems" (Cercetări privind creşterea performanţelor sistemelor mecanice) DOI: 10.13140/RG.2.2.33319.98721

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Toma, Stefan Lucian, Radu Armand Haraga, Daniela Lucia Chicet, **Viorel Paleu**, and Costica Bejinariu. "Hard Alloys with High Content of WC and TiC—Deposited by Arc Spraying Process." In Welding-Modern Topics. London, UK: **IntechOpen**, 2020.
2. Bhaumik, Shubrajit, Chiradeep Ghosh, Basudev Bhattacharya, **Viorel Paleu**, Rajeev Kumar Naik, Prayag Gopinath, A. Adithya, and Ankur Dhanwant. "Influence of Surface Texturing on Friction and Wear." **Automotive Tribology** (2019): 217-235.
3. Vikram, Kamlendra, Sumit Pramanik, **Viorel Paleu**, and Shubrajit Bhaumik. 2024, "Surface Modification of Magnesium Alloy Employing External Coating for Biomedical Applications." In Magnesium Alloys for Biomedical Applications, pp. 109-123. **CRC Press**.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Paleu V., **Calcul des transmissions** (limba franceză), Ed. Tehnopress, 2020, ISBN 978-606-687-427-4, 183 p.
2. Paleu V., **Sisteme de achiziţie şi interfeţe**, Ed. PIM, Iaşi, 2013, pp. 121, ISBN 978-606-13-1635-9
3. Şt. Grigoraş, M.R. Bălan, C. Bujoreanu, F.O. Tudose, **V. Paleu**, **Organe de Maşini – I**, Îndrumar de proiectare, ed. Politehnium, Iaşi, p.198, 2014, ISBN 978-973-621-427-1.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Paleu V., Zamă A., Rulmenţi hibrizi, 2020, pp. 232, online pe internet
2. V. Paleu, Lucrari aplicate la disciplinele Sisteme de achizitie si interfete, Diagnosticare vibroacustică şi Tribologie I (pe internet), pp. 144 – (Lucrări noi cu realizare practică)
3. V. Paleu, Lucrari aplicate la disciplinele Sisteme de achizitie si interfete şi Diagnosticare vibroacustică, Organe de maşini şi Tribologie II (Modernizări sau Lucrări noi pe instalaţii existente) – pp. 109.
4. Viorel Paleu, Achizitia si procesarea semnalelor. Lucrari simulate pe calculator în Matlab, Simulink şi LabVIEW (pe internet), pp. 107
5. V. Paleu, A. Rățoi, Îndrumar de proiectare - Calculul și Construcția Sistemelor de Transmisie, format electronic (pe internet).
6. V.Paleu, Construcţia şi Calculul Sistemelor de Transmisie (CCST) - tipuri de transmisii auto, tipuri de ambreiaje şi proiectare ambreiaj, 60 p, format electronic

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Cimpoesu, N., Paleu, V.*, Panaghie, C., Roman, A.M., Cazac, A.M., Cioca, L.I., Bejinariu, C., Lupescu, S.C., Axinte, M., Popa, M. and Zegan, G., 2024. Mechanical Properties and Wear Resistance of Biodegradable ZnMgY Alloy. Metals, 14(7), p.836.
2. Zamă, A., Paleu, V.*, Improving the reliability and energy efficiency of equipment requiring preloaded bearing assemblies, Energy Environment Efficiency Resources Globalization, Volume 10, Issue 3, Pages 75 – 922024, ISSN 24575011, Publisher: General Association of the Engineers in Romania (AGIR).
3. Bhaumik, S., Krishna, B.A., Paleu, V. and Choudhury, N.D., 2024. Investigating the Fretting of Steel Surfaces in the Presence of Hybrid Anti-Fretting Paste Containing Talc-Graphite-hBN-Molybdenum Disulfide Solid Lubricants. Journal of Bio-and Tribo-Corrosion, 10(4), p.90.
4. Alavanthar, A., Bhaumik, S. and Paleu, V., 2024. Investigating the Failure Mechanisms During the Epoxy-Coated Bearing Steel–Steel and Uncoated Bearing Steel–Steel Interactions (Crack Formation, Surface Tears, Schallamach-like Waves) and Their Corrosion Resistance in NaCl Environment. Journal of Bio-and Tribo-Corrosion, 10(4), p.84.
5. Mukherjee, M., Sarkar, P., Barman, S., Mallisetty, P.K., Paleu, V. and Bhaumik, S., 2024. Investigating the wear resistance of AISI 410/AISI 2205 hybrid weld cladding on annealed EN 8 medium carbon steel. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, p.13506501241255989.
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9. Walvekar, R.; Bhaumik, S.; Nagarajan, T.; Khalid, M.; Rasheed, A.K.; Gupta, T.C.S.M.; Paleu, V.* New Optimized Lubricating Blend of Peanut Oil and Naphthenic Oil Additivated with Graphene Nanoparticles and MoS2: Stability Time and Thermal Conductivity. Lubricants 2023, 11, 71. https://doi.org/10.3390/lubricants11020071
10. Bejinariu, C.; Paleu, V.; Stamate, C.V.; Cimpoesu, R.; Coteată, M.; Badarau, G.; Axinte, M.; Istrate, B.; Vasilescu, G.D.; Cimpoeșu, N. Microstructural, Corrosion Resistance, and Tribological Properties of Al2O3 Coatings Prepared by Atmospheric Plasma Spraying. Materials 2022, 15, 9013. https://doi.org/10.3390/ma15249013
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G. Lucrări ştiinţifice publicate în reviste din străinătate.

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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

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6. Bujoreanu. C., Paleu, V., Impact Parameters in Rolling Contact Lubrication, ACTA TRIBOLOGICA, University of Suceava, Romania, Vol. 17, ISSN 1220 – 8434, 99. 17-20, 2009

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Popa, G., Luca, D, Paleu, V., Exploring the hyperelastic behavior of epdm rubber springs: a comprehensive analysis, May 2024, Conference: 7th International Conference of the Doctoral School - "Gheorghe Asachi" Technical University of IașiAt: Iași, România
2. Paleu V., Ianus, G., Charting new research directions in the field of roller and ball bearings, November 2021, Conference: THE 21th INTERNATIONAL SCIENTIFIC CONFERENCE „TEHNOMUS", November 11th-13th, 2021 „Ştefan cel Mare" University of Suceava - ROMANIAAt: „Ştefan cel Mare" University of Suceava, Suceava, ROMANIA (plenary speaker).
3. Bhaumik, S., & Paleu, V. (2021). Wear Properties of Bioactive Copper Hydroxyapatite Polyoxymethylene Composite for Biomedical Applications. MDPI Poster competition, Metals.
4. Paleu V., Bhaumik, S, Nelias, D, The influence of double cardan joints kinematics and quasi-static effects on rolling bearings life in railway traction motors, December 2020, Conference: TRIBOINDIA 2020 At: Kattankulathur, Tamil Nadu, India (plenary speaker).

5. Paleu V., Spînu S. et al., Correlating the stress state with morphological and tribological properties of thin coatings, December 2020, Conference: TRIBOINDIA 2020 At: Kattankulathur, Tamil Nadu, India (keynote speaker).
6. Toma S-L., Munteanu C., Paleu V. et al., Influence of electric current intensity and gas pressure on abrasion resistance of FeNiCrSiB-WC+TiC depositions obtained by arc spraying process, March 2019, Conference: 11th International Conference on Materials Science and Engineering – BraMat 2019 At: Brasov, Romania
7. Bejinariu C, et al., Microstructure and tribological properties of Al2O3 coatings prepared by air plasma spraying, March 2019, Conference: 11th International Conference on Materials Science and Engineering – BraMat 2019 At: Brasov, Romania
8. Cătălin Osoeanu, Daniela Chicet, Viorel Paleu, Costica Bejinariu, 2021, Conference: 5th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iasi Excellence in Doctoral Studies through Innovation, Convergence and Interdisciplinarity At: Iași, România

J. Invenţii.

1. brevet de invenție A/ 00786/ 13.12. 2024: „Dispozitiv pentru determinarea pretensionării optime a rulmenților cu module realizate din aliaje cu memoria formei". Autori: Andrei ZAMĂ și Viorel PALEU.

K. Contracte de cercetare.

GRANTURI INTERNAŢIONALE ÎN CALITATE DE DIRECTOR (responsabil din partea română):

P1 Grant TEMPUS IMG-97-RO-2096 (Individual Mobility Grant), 1998, Educaţie şi formare individuală, INSA de Lyon, France, director şi membru unic as. drd. ing. V. Paleu, suma 3750 Euro, acordat de comisia Europeană de la Bruxelles.

Buget anual mediu grant TUASI 1998 : 23 156 250 ROL; valoare 1$=8699.43 ROL la 1.07.1998 conform https://www.bnr.ro/StatisticsReportHTML.aspx?icid=800&table=703&column

23 156 250 ROL /8699.43=2661.812 $

3750 $ / 2661.812 $ = 1.4; 40 puncte/ valoare medie x 1.4 = 56

Grant trecut ca valabil în PO.DID.10-A3 la pct 2, Ed. 2, revizia 5/07.12.2018, U.T.I (certificat de Departamentul Relaţii Internaţionale – UTI şi de INSA Lyon).

P2 Program de cercetare internationala SUPERSONIQUE : Fatigue de roulement sous condition extremes : lubrification au kerosene et tenue aux hautes temperatures (300, 500 et 8000C) de nouveaux materiaux pour roulements , contract in cooperare CNRS / INSA de Lyon, numarul 5514, director Prof. Dr. Ing. Daniel Nelias, de la INSA-Lyon, Franta. Pe contractul mentionat, Dr. Ing. Viorel Paleu a fost invitat pentru cercetare post-doctorala la INSA Lyon din Franta, pe perioada ian. 2003-iulie 2004. Din echipa de la Iasi au facut parte si Prof. Dr. Ing. Cretu Spiridon si Drd. Antaluca Eduard.

Nu s-a derulat prin Polytech. (certificat de INSA-Lyon)

P3 Contract de cercetare intre INSA-Lyon (Franta) si ALSTOM Transport Ornans, (Franta), Comanda nr. FG133844 din 18.05.2000, Referinta INSAVALOR: Conventia 00-006961, titlul contractului: Dimensionnement et calcul de la durée de vie des paliers à roulements des moteurs electriques de traction ferroviaire, intégrant les effets induits par la cinématique et la dynamique dune transmission à double joint de cardan, 2000. (echipa de lucru : V. Paleu, director Prof. Dr. Ing. Daniel Nelias, de la INSA-Lyon, Franta). (certificat de INSA-Lyon)

P4 Contract de cercetare intre INSA-Lyon (Franta) si SNR - Annecy (Franta), Titlul contractului : Etude du pivotement d'un rouleau cylindrique avec prise en compte des

interactions rouleau-epaulement de guidage, Oct. 2002 – Feb. 2004. (echipa de lucru : V. Paleu, I. Bercea, D. Antaluca si director Prof. Dr. Ing. Daniel Nelias, de la INSA-Lyon) (certificat de INSA-Lyon)

GRANTURI INTERNAŢIONALE ÎN CALITATE DE MEMBRU ÎN ECHIPĂ

P5 Colaborator pe proiectul Brancuşi de colaborare internationala franco-romana 2002-2005 (field of scientific and technological cooperation managed by Egide (France) and Romanian Ministry of Education and Research), tema : Autoassembled thin layers from polyelectrolytes based on maleic anhydride copolymers for managing the metal-polymer interfaces in organic diodes for polymeric stable and performant photovoltaic solar cells, supervised by "Petru Poni" of Macromolecular Chemistry Institute of Iasi, Coordonator Dr. Eng. Maria Bercea.

Nu s-a derulat prin Polytech. (dovada este pagina de internet: https://www.imt.ro/mnt/V4N1/9.pdf , unde este menţionat numele V. Paleu ca membru din echipa de cercetare a U.T.I.).

P6 Program de cooperare internationala EUREKA, cu titlul BALKANBEARINGS, No. 2020/1998, 1998-2002, aprobat la Bruxelles si finantat de catre Uniunea Europeana, (parteneri : Romania, Grecia, Bulgaria si Germania) ; Faza : Development of Angular Contact Hybrid Ball Bearings with Ceramic Rolling Elements ans Steel Rings, coordonator U.R.Barlad. Tema a constituit subiectul tezei de doctorat a as. Ing. Viorel Paleu, care a fost şi membru în echipa de lucru împreună cu profesorii Sp. Creţu şi D. Olaru de la UTI.

Nu s-a derulat prin Polytech. (certificat de către directorul de proiect din partea U.P.B., prof.dr.ing. Tudor Andrei)

P7 Program de cooperare internationala intre Romania si Grecia, Tema A21, beneficiar ANSTI, titlul temei : Dezvoltarea rulmentilor hibrizi (1998-2000), program coordonat de Politehnica Bucuresti.

Nu s-a derulat prin Polytech. (certificat de către directorul de proiect din partea U.P.B., prof.dr.ing. Tudor Andrei)

Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale

GRANTURI NAŢIONALE ÎN CALITATE DE DIRECTOR (CERTIFICATE DE UTI):

P8 Contract agent economic Metalubs, nr.488/2018, Testarea pe tribometre a lubrifiantilor de tip Metalubs, director conf.dr.ing. V. Paleu, anul 2018, valoarea 17 226 RON, contribuţie V. Paleu 75%.

Buget anual mediu grant TUASI 2018 : 73.260 RON; 17226/73260x30x0.75=5.29

(certificat de către Polytech, D.M.M.P. - U.T.I.)

P9 GRANT CNCSIS tip A - 77/2008 tema 28, Cercetari teoretice si experimentale privind dinamica rulmentilor hibrizi cu bile ceramice de turatie ridicata lubrifiati cu ceata de ulei si kerosen cu aplicatie la turbinele de avion, valoare 63 000 RON, director conf.dr.ing. V. Paleu, contribuţie V. Paleu 50%

Buget anual mediu grant TUASI 2008 : 107 860 RON; 63 000/107 860 x 30 x 0.5 =8.761

(certificat de către Polytech, D.M.M.P. - U.T.I.)

P10 GRANT CNCSIS tip A - 33/2007 tema 17, Cercetari teoretice si experimentale privind dinamica rulmentilor hibrizi cu bile ceramice de turatie ridicata lubrifiati cu ceata de ulei si kerosen cu aplicatie la turbinele de avion, valoare 74 837 RON, director conf.dr.ing. V. Paleu, contribuţie V. Paleu 50%

Buget anual mediu grant TUASI 2007 : 41 408 RON; 74 837 /41 408 x 30 x 0.5 =27.1

(certificat de către Polytech, D.M.M.P. - U.T.I.)

P11 GRANT ANSTI 6177/2000 - tema A36/2001, Cresterea turatiei masinilor unelte prin utilizarea rulmentilor hibrizi cu bile ceramice, valoare 29 500 000 ROL, director şi membru unic în echipă drd.ing. V. Paleu, contribuţie V. Paleu 100%

Buget anual mediu grant TUASI 2001 : 39 464 844 ROL; 29 500 000 /39 464 844 x 30 x 1 =22.425

(certificat de către Polytech, D.M.M.P. - U.T.I.)

P12 GRANT ANSTI 6177/2000 tema B33/2000, Cresterea turatiei masinilor unelte prin utilizarea rulmentilor hibrizi cu bile ceramice, valoare 23 000 000 ROL, director şi membru unic în echipă drd.ing. V. Paleu, contribuţie V. Paleu 100%

Buget anual mediu grant TUASI 2001 : 37 580 232 ROL; 23 000 000 /37 580 232 x 30 x 1 = 18.36

(certificat de către Polytech, D.M.M.P. - U.T.I.)

GRANTURI NAŢIONALE ÎN CALITATE DE MEMBRU ÎN ECHIPĂ (CERTIFICATE DE UTI)

P13 PN III PCCDI 60/2018 - 2020, Obţinerea şi expertizarea unor noi materiale biocompatibile pentru aplicaţii medicale, director de proiect prof. dr. ing. Corneliu Munteanu, 480048 RON / 2018; 476798.50 RON/ 2019; 634182.50 RON/2020. Total: 1591029 RON

Buget anual mediu grant TUASI 2018: 73 260 RON; 1591029 RON/73 260 RON=21.71 x 30 x 0.25 = 162.88 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P14 GRANT 77/2008 tema 9: Cercetări teoretice şi experimentale privind relaţia dintre microtopografie, rodaj şi fiabilitatea contactelor cu rostogolire cu aplicaţie pe rulmenţi de turaţie înaltă şi angrenaje cilindrice, director proiect: prof.dr.ing. Spiridon Creţu, valoare 58 800 RON/2008.

Buget anual mediu grant TUASI 2008: 107 860 RON; 58 800 RON /107 860 RON = 0.545 x 30 x 0.25 = 4.09 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P15 GRANT 80/2007 tema 17: Cercetări teoretice şi experimentale privind relaţia dintre microtopografie, rodaj şi fiabilitatea contactelor cu rostogolire cu aplicaţie pe rulmenţi de turaţie înaltă şi angrenaje cilindrice, director proiect: prof.dr.ing. Spiridon Creţu, valoare 47 700 RON/2007.

Buget anual mediu grant TUASI 2008: 41 408 RON; 47 700 RON /41 408 RON = 1.15 x 30 x 0.25 = 8.64 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P16 GRANT 63/2006 tema 9: Cercetări teoretice şi experimentale privind relaţia dintre microtopografie, rodaj şi fiabilitatea contactelor cu rostogolire cu aplicaţie pe rulmenţi de turaţie înaltă şi angrenaje cilindrice, director proiect: prof.dr.ing. Spiridon Creţu, valoare 53000 RON/2006.

Buget anual mediu grant TUASI 2008: 24 949.2 RON; 53 000 RON /24 949.2 RON = 2.124 x 30 x 0.25 = 15.93 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P17 GRANT 164/2006 tema 14 : Monitorizarea fenomenelor de deteriorare din contactul cu rostogolire, in conditii de lucru severe, prin utilizarea instrumentatiei virtuale. Studiu de caz pe rulmentii osiilor pentru material rulant, director proiect: conf.dr.ing. Carmen Bujoreanu, valoare 150 000 000 ROL /2006.

Buget anual mediu grant TUASI 2006: 249 492 188 ROL; 150 000 000 ROL /249 492 188 ROL = 0.6 x 30 x 0.25 = 4.5 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P18 GRANT 34664/2005 tema 12: Monitorizarea fenomenelor de deteriorare din contactul cu rostogolire, in conditii de lucru severe, prin utilizarea instrumentatiei virtuale. Studiu de caz pe rulmentii osiilor pentru material rulant, director proiect: conf.dr.ing. Carmen Bujoreanu, valoare 150 000 000 ROL /2005.

Buget anual mediu grant TUASI 2005: 167 938 756 ROL; 150 000 000 ROL /167 938 756 ROL = 0.89 x 30 x 0.25 = 6.7 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P19 GRANT 33371/2004 tema 10: Monitorizarea fenomenelor de deteriorare din contactul cu rostogolire, in conditii de lucru severe, prin utilizarea instrumentatiei virtuale. Studiu de caz pe rulmentii osiilor pentru material rulant, director proiect: conf.dr.ing. Carmen Bujoreanu, valoare 100 000 000 ROL /2004.

Buget anual mediu grant TUASI 2004: 129 667 260 ROL; 100 000 000 ROL /129 667 260 ROL = 0.77x 30 x 0.25 = 5.78 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P20 GRANT 33371/2004 tema 53: Fiabilitatea contactului cu rostogolire in prezenta alunecarilor si regimului termic variabil, cu aplicatii la rulmenti si angrenaje, director proiect: Prof.dr.ing. Spiridon Cretu, valoare 100 000 000 ROL /2004.

Buget anual mediu grant TUASI 2004: 129 667 260 ROL; 100 000 000 ROL /129 667 260 ROL = 0.77x 30 x 0.25 = 5.78 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P21 GRANT 33557/2003 tema 17: Fiabilitatea contactului cu rostogolire in prezenta alunecarilor si regimului termic variabil, cu aplicatii la rulmenti si angrenaje, director proiect: Prof.dr.ing. Spiridon Cretu, valoare 72 000 000 ROL /2003.

Buget anual mediu grant TUASI 2003: 68 185 246 ROL; 72 000 000 ROL /68 185 246 ROL = 1.055 x 30 x 0.25 = 7.92 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P22 GRANT 33479/2002 tema 60: Fiabilitatea contactului cu rostogolire in prezenta alunecarilor si regimului termic variabil, cu aplicatii la rulmenti si angrenaje, director proiect: Prof.dr.ing. Spiridon Cretu, valoare 80 000 000 ROL/2002.

Buget anual mediu grant TUASI 2002: 46 953 889 ROL; 80 000 000 ROL /46 953 889 ROL = 1.7 x 30 x 0.25 = 12.78 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P23 GRANT 37089/2000 cod 886, tema 8: Cercetari privind cresterea performantelor tribosistemelor cu destinatii speciale prin utilizarea materialelor ceramice cu aplicatii la rulmenti (tema tezei de doctorat a drd. as. ing. Viorel Paleu, contribuţie V. Paleu = 50% - certificat de directorul de proiect), director proiect: Prof.dr.ing. Dumitru Olaru, valoare 45 000 000 ROL /2000.

Buget anual mediu grant TUASI 2000: 37 580 232 ROL; 45 000 000 ROL / 37 580 232 ROL = 1.2 x 30 x 0.5 = 17.96 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P24 GRANT 34280/1999 cod 540, tema 12: Cercetari privind cresterea performantelor tribosistemelor cu destinatii speciale prin utilizarea materialelor ceramice cu aplicatii la rulmenti (tema tezei de doctorat a drd. as. ing. Viorel Paleu, contribuţie V. Paleu = 50% - certificat de directorul de proiect), director proiect: Prof.dr.ing. Dumitru Olaru, valoare 45 000 000 ROL /2000.

Buget anual mediu grant TUASI 2000: 31 493 220 ROL; 45 000 000 ROL / 31 493 220 ROL = 1.428 x 30 x 0.5 = 21.43 p; (certificat de către Polytech, D.M.M.P. - U.T.I.)

P25 Contract No. 37/1998 (beneficiar CNCSU), tema 33, Grant 463, Studiul cinematicii si dinamicii rulmentilor radiali oscilanti cu role butoi, cu implicatii asupra efectelor termice si a transferului de caldura, director de grant s.l. dr. ing. Ioan Bercea (grant propus de către drd. ing. Viorel Paleu, care a elaborat şi documentaţia, dar nu putea fi director ca şi asistent). Valore: 23 000 000 ROL;

Buget anual mediu grant TUASI 2000: 31 493 220 ROL Punctaj: 23 000000/23 156250=0,99 x 30=19,86 x 0,5 =14.9

P26 Grant CNCSU – BM tip D, Tema: Asigurarea calităţii si fiabilitatii sistemelor mecanice in corelaţie cu procesele tribologice si fenomenele de oboseala mecanica, Director tema: prof.dr.ing.Spiridon Cretu, (V. Paleu membru în colectiv), valoarea totală 60 000 USD, Perioada 1998-2002. Valore 243 900 000.

(certificat de către directorul de contract, deplasare si 2 lucrari prezentate de către V. Paleu la conferinţa Esslingen 2000)

Buget anual mediu grant TUASI 2000: 31 493 220 ROL Punctaj: 243 000 000/23 156250=0,99 x 30=19,86 x 0,5 =14.9

P27 Contractul No. 7002/98, 34280/1999, 10/245, Durata: 1997-1999, Tema 30, cod CNCSU 482, Griparea elementelor in contact cu rostogolire, cu aplicatii la rulmenti, Director proiect: prof.dr.ing. Spiridon Cretu, Valoare: 25 000 000 ROL/1998 (certificat de către directorul de contract)

P28 Contract 35259/2001, 4/66, Tema 20, Dinamica si fiabilitatea la oboseala de contact si gripare a subansamblurilor echipate cu rulmenti cu role conice, prof.dr.ing. Spiridon Cretu, durata:2000-2001.

Valori: 6 640 000 ROL/2000, 40 000 000 / 2001 (certificat de către directorul de contract)

P29 Contractul No. 7002/97, Tema 43, Grant 1136, Optimizarea proceselor tribologice din articulatiile sistemelor de protezare ale aparatului locomotor uman.Contractul No. 161/96, beneficiar MCT, poz. A7, cod program Orizont 2000, 11.2.4, Rulmenti radiali cu bile cu nivel redus de frecare, director de grant Prof. dr. ing. Olaru Dumitru. ; Valoare: 10 000 000 Rol, punctaj: 10000000/8854723 (certificat de către directorul de contract)

L. Premii, distincţii.

1. **TOP PEER REVIEWER AWARD IN CROSS-FIELD,** September 2019, honoring the elite contribution to scholarly peer review and editorial pursuits internationally, awarded by WEB OF SCIENCE GROUP. (https://publons.com/researcher/1445457/viorel-paleu)

2. **2021 OUTSTANDING REVIEWER AWARD from Machines (MDPI)**
   https://www.mdpi.com/journal/machines/awards/1328
   https://www.mdpi.com/journal/machines/awards/1328/download

3. **IOP TRUSTED REVIEWER**, Issued September 2023, Credential ID 81719065, awarded by IOP Publishing, (https://accreditations.ioppublishing.org/ebe6ea98-8427-4de9-b19b-c884ffc10214#gs.74s8om)

4. 2002, Teză de doctorat cu distincţia **Magna Cum Laudae**

M. Alte realizări semnificative.

Membru în asociaţii profesionale	**Preşedinte al Asociaţiei Române de Transmisii Mecanice (ROAMET), filiala Iaşi.** **Vicepreşedinte al Asociaţiei Române de Tribologie (ART), la nivel național.** Membru în asociaţiile profesionale Societatea Română de Mecatronică – SROMECA și AMIS.

Stagii de pregătire şi burse în străinătate	Grant TEMPUS IMG-97-RO-2096 (Individual Mobility Grant), 1998, Educaţie şi formare individuală, INSA de Lyon, France, director şi membru unic as. drd. ing. V. Paleu, acordat de comisia Europeană de la Bruxelles şi certificat de către Departamentul Relaţii Internaţionale – UTI şi de INSA Lyon. Bursa SOCRATES ERASMUS – LaMCoS, INSA-Lyon (Franta), în anul universitar (1999-2000), persoana de contact prof.dr.ing. Daniel Nelias, director LaMCoS, INSA de Lyon. Bursa EGIDE post-doctorală - LaMCoS, INSA-Lyon (Franta), în anul universitar (2002-2003), persoana de contact prof.dr.ing. Daniel Nelias, director LaMCoS, INSA de Lyon, perioada 1-01-2003 / 31-08-2003. Bursa AUF post-doctorală - LaMCoS, INSA-Lyon (Franta), în anul universitar (2003-2004), persoana de contact prof.dr.ing. Daniel Nelias, director LaMCoS, INSA de Lyon, perioada 1-10-2003 / 31-07-2004.
Membru în comitete ştiinţifice ale conferinţelor internaţionale	Membru în comitetul ştiinţific şi chairman pentru sesiuni ştiinţifice de la conferinţele **ROTRIB (2010-prezent)**, ACME (2010-prezent) şi IMANE (2017), şi în comitetul ştiinţific internaţional al conferinţei ICAM 2020; 2022 - International Conference on Advanced Material Science 2020, India (https://technologycentre.co.in/icams/intcommittee.php), TRIBOINDIA 2020, International Conference on Recent Trends in Materials Science and Mechanical Engineering (ICRMSME 2022), International Conference on Friction, Wear, and Lubrication, FWL, 14-16 Oct 2022, India, etc.
Acreditări	- acreditat de către Ministerul Tineretului, Educaţiei şi Cercetării din Franţa pentru ocuparea funcţiei de **Maître des Conferences (MFC) în universităţile din Franţa,** prin concurs de dosar la nivel internaţional, acreditare no. 03260136873 din 30/01/2003.
Iniţiere de colaborări ştiinţifice internaţionale	Iniţiator al semnării unui **Memorandum of Understanding (MoU) din 05.04.2019**, care oficializează colaborarea ştiinţifică dintre Universitatea Tehnică „Gheorghe Asachi" din Iaşi şi SRM Institute of Science and Technology, Kattankulathur – India, perioada 2016-prezent, persoane de contact conf.dr.ing. V. Paleu şi prof. dr.ing. Shubrajit Bhaumik.
Membru în colective editoriale	2021, inclus în **Reviewer Board al revistei Metals – Editura MDPI (factor de impact 2.351)** https://www.mdpi.com/journal/metals/submission_reviewers 2020, **Topic Editor al revistei Signals – Editura MDPI,** prin invitaţie de la Managing Editor, https://www.mdpi.com/journal/signals/topic_editors

Data:15.12.2024 **Semnătura:**

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Panţiruc Marian - Dumitru

A. Teza de doctorat: *Teoria potenţialului pe grupuri local compacte necomutative*, Universitatea „Al. I. Cuza" - Iaşi, 2008, coordonator ştiinţific prof. dr. Eugen Popa.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS
Radu Strugariu, Marian Panţiruc: Analiză numerică - Teorie şi algoritmi MATLAB, Editura Performantica, 2015

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web

F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale

1. R.Cibulka, M. Durea, M. Panţiruc, R. Strugariu, *On the stabiliy of the directional regularity,* Set-valued and Variational Analysis, 28 (2020), 209-237.

2. Marius Durea, Marian Panţiruc, Radu Strugariu: *A New Type of Directional Regularity for Mappings and Applications to Optimization*, SIAM J. Optim., 27(2), 2017.

3. Marius Durea, Marian Panţiruc, Radu Strugariu: *Minimal time function with respect to a set of directions: basic properties and applications*, Optimization Methods and Software, 31(3), 2016

4. Panţiruc Marian - Dumitru: *On convolution semigroups on L.C. noncommutative groups* Analele ştiinţifice ale Universităţii "Alexandru Ioan Cuza" din Iaşi, Matematică. Volume 60, Issue 1, Pages 9–18, 2014

5. Panțiruc Marian - Dumitru: *H-cones of excessive measures on a locally compact semigrou*p, Positivity, Volume 17, Issue 3, pp 793-802, 2013

6. Panţiruc Marian - Dumitru: *Fourier transform of the heat kernel on the Heisenberg group*, Analele ştiinţifice ale Universităţii "Alexandru Ioan Cuza" din Iaşi , tom LIV, 2008

G. Lucrări științifice publicate în reviste din străinătate

H. Lucrări științifice publicate în reviste din țară, recunoscute CNCSIS

I. Lucrări științifice publicate în volumele conferințelor

J. Invenții

K. Contracte de cercetare

1. Membru al echipei de cercetare în cadrul proiectului de cercetare exploratorie PN-III-P4-ID-PCE-2016-0188, nr. 10/2017 - Abordari variationale in optimizarea cu multifunctii si aplicatii, director de proiect prof. dr. C. Zălinescu

2. Membru al echipei de cercetare în cadrul proiectului de cercetare exploratorie PN-II-RU-TE-2014-4-0019, nr. 66/01.10.2015 - Metode variaţionale cu aplicaţii la probleme generalizate de optimizare vectorială, director de proiect prof. dr. Marius Durea

3. Director de proiect in cardul programului CNCSIS - UEFISCSU TD, contract nr 419/1.10.2007, titlu: „Teoria potentialului pe grupuri local compacte necomutative", 1an, in valoare de 27981 lei, incheiat cu sustinerea tezei de doctorat in nov. 2008

L. Premii, distincţii

M. Alte realizări semnificative

Data Semnătura
26.10.2025

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **Pavăl Mihai-Silviu**

A. Teza de doctorat.

Titlul tezei de doctorat: *"Cercetări privind aerodinamica sistemului de sustentaţie pentru aeroglisoare",* conducător de doctorat: prof.univ.dr.ing. Popescu Aristotel.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

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C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

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D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

-

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

-

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. **M. S. Pavăl**, A. Popescu, D. Zahariea, *CFD analysis of a round shaped air cushion vehicle with flexible skirt segments at 90°. Part I: Different positions of bag to cushion feed orifice*, Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, Volumul 68 (72), Numărul 3, 2022.
2. **M. S. Pavăl**, A. Popescu, D. Zahariea, *Hovercrafts – an overview. Part III: Main components of air cushion vehicles*, Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, Volumul 66 (70), Numărul 3, 2020.
3. **M. S. Pavăl**, A. Popescu, *Hovercrafts – an overview. Part II: Basic construction principles, classification, advantages, disadvantages*, Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, Volumul 64 (68), Numărul 2, 2018.
4. **M. S. Pavăl**, A. Popescu, *Hovercrafts – an overview. Part I: Basic concepts of advanced marine vehicles – fundamental elements, short history, patents*, Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, Volumul 64 (68), Numărul 2, 2018.
5. D. Zahariea, Th. Popescu, D. E. Husaru, **M. S. Pavăl**, *Selection of the best hybrid architecture for an off-grid power supply system using topsis method*, Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, Volumul 64 (68), Numărul 2, 2018.
6. D. Zahariea, D. E. Husaru, **M. S. Pavăl**, *Influence of the hub height on the on-grid small scale wind turbine-based power supply system*, Buletinul Institutului Politehnic din Iași, Secția Construcții de Mașini, Volumul 63 (67), Numărul 4, 2017.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

-

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. **M. S. Pavăl**, A. Popescu, D. Zahariea, *CFD analysis of a round shaped air cushion vehicle with inclined skirt segments*, The 9th International Conference on Advanced Concepts in Mechanical Engineering, June 4-5, 2020, Iași, România.

2. **M. S. Pavăl**, A. Popescu, D. Zahariea, *CFD analysis of a round shaped air cushion vehicle with flexible skirt segments at 90° and different air clearance height*, The 9th International Conference on Advanced Concepts in Mechanical Engineering, June 4-5, 2020, Iași, România.
3. **M. S. Pavăl**, A. Popescu, D. Zahariea, *Numerical analysis of the influence of the lower hull angle of a round skirtless air cushion vehicle*, The XXIInd National Conference on Thermodynamics with International Participation, May 22-24, 2019, Galați, România.
4. D. Zahariea, D. E. Husaru, **M. S. Pavăl**, *A TOPSIS – based approach for wind turbines ranking with negative performance ratings and different weighting strategies*, EENVIRO, E3S Web of Conference, Volumul 85, 2019.
5. **M. S. Pavăl**, A. Popescu, Th. Popescu, D. Zahariea, D. E. Husaru, *Numerical study on the movement of air inside the inner cavity of a hovercraft model*, The 8th International Conference on Advanced Concepts in Mechanical Engineering, June 7-8, 2018, Iași, România.
6. D. E. Husaru, Th. Popescu, D. Zahariea, **M. S. Pavăl**, *Experimental investigation on flow quality in MF-TA1 Wind Tunnel*, The 8th International Conference on Advanced Concepts in Mechanical Engineering, June 7-8, 2018, Iași, România.
7. D. Zahariea, M. V. Zotic, **M. S. Pavăl**, *Small-scale 5.1 kW wind turbine on-grid connected for outdoor illumination of a small residential district*, The 8th International Conference on Advanced Concepts in Mechanical Engineering, June 7-8, 2018, Iași, România.

J. Invenţii.

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K. Contracte de cercetare.

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L. Premii, distincţii.

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M. Alte realizări semnificative.

-

Data,
24.10.2025

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: ȘEF LUCRĂRI DR. ING. **POPESCU ANDREI**

A. Teza de doctorat.

“Cercetări Privind Cinematica și Frecarea în Contacte cu Rostogolire și Pivotare cu Aplicații la Ghidaje Liniare și Rulmenți cu Bile”, 2022, Universitatea Tehnică „Gheorghe Asachi” din Iași, Domeniul Inginerie mecanică, Mecatronică și Robotică, conducătorul de doctorat Prof. Univ. Em. Dr. Ing. Dumitru OLARU.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Valentina-Gabi Stănescu, Vasilica Popescu, Viorica Vasilache, Gabriel Popescu, Cristina Mihaela Rimbu and **Andrei Popescu**, *Cleaner Processes for Making Laundry Soap from Vegetable Oils and an Essential Oil,* Applied Sciences (Appl. Sci.) **2025**, 15, 3821, 1-30. https://doi.org/10.3390/app15073821; WOS:001464849200001
2. Vasilica Popescu, Alexandra Cristina Blaga, Dan Cașcaval, **Andrei Popescu**. (2023). *Beta vulgaris L. - A Source with a Great Potential in the Extraction of Natural Dyes Intended for the Sustainable Dyeing of Woo*l. PLANTS, 12, 1933. https://doi.org/10.3390/plants12101933 (F.I. 4.658)
3. Popescu Vasilica, Marioara Petrea, and **Andrei Popescu**. (2021). *Multifunctional Finishing of Cotton with Compounds Derived from MCT-β-CD and Quantification of Effects Using MLR Statistical Analysis*. Polymers 13,3:410. https://doi.org/10.3390/polym13030410 (F.I. 4.967)
4. Popescu Vasilica, Ingrid Ioana Buciscanu, Melinda Pruneanu, Stelian Sergiu Maier, Angela Danila, Vasilica Maier, Marius Pîslaru, Vlad Rotaru, Irina Niculina Cristian, **Andrei Popescu**, Bogdan Istrate, Alexandra Cristina Blaga, Florin Ciolacu, Igor Cretescu, Petronela Chelariu, and Marina Marin. (2021). *Sustainable Functionalization of PAN to Improve Tinctorial Capacity*. Polymers 13, 21, 3665. https://doi.org/10.3390/polym13213665 (F.I. 4.967)
5. Popescu Vasilica, Alexandra Cristina Blaga, Melinda Pruneanu, Irina Niculina Cristian, Marius Pîslaru, **Andrei Popescu**, Vlad Rotaru, Igor Crețescu, and Dan Cașcaval. (2021).

Green Chemistry in the Extraction of Natural Dyes from Colored Food Waste, for Dyeing Protein Textile Materials, Polymers 13, 22, 3867. https://doi.org/10.3390/polym13223867 (F.I. 4.967)

6. **Popescu, A**., Houpert, L., & Olaru, D.N. (2020). *Four approaches for calculating power losses in an angular contact ball bearing*. Mechanism and Machine Theory, 144. https://doi.org/10.1016/j.mechmachtheory.2019.103669 (F.I. 4.930)
7. Vasilica Popescu, Dragos-George Astanei, Radu Burlica, **Andrei Popescu**, Corneliu Munteanu, Florin Ciolacu, Mariana Ursache, Luminita Ciobanu, Alexandru Cocean. (2019). *Sustainable and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics*. Journal of Cleaner Production, Volume 232, 451-461, https://doi.org/10.1016/j.jclepro.2019.05.281 (F.I. 11.072)

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. **A. Popescu**, G. Popescu, *Cylindrical roller bearings with optimized profile taking into account the material structure and operating temperature*, Buletinul IP Iasi, sectia Constructii de Masini, eISSN: 2537-4869, vol. 68 (72), nr. 1, 2022, pag. 109-123, DOI: https://doi.org/10.2478/bipcm-2022-0009

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Gabriel Popescu, Andrei Popescu (2024). *Shakedown in roller bearings: influence of material behaviour and bearing steel structure*. IOP Conference Series: Materials Science and Engineering, 11th International Conference on Advanced Concepts in Mechanical Engineering (ACME), June 6-7, Iași, România.
2. Gabriel Popescu, Andrei Popescu (2024). *The correct evaluation of internal stress field in two-dimensional contacts in case of a uniform pressure distribution – mathematical considerations*. IOP Conference Series: Materials Science and Engineering (ACME), 11th International Conference on Advanced Concepts in Mechanical Engineering, June 6-7, Iași, România.
3. Vasilica Popescu, Daniela Rotariu, Niki Vlad Mancași, Andrei Popescu. (2023). *Establishing the optimal method of scouring - bleaching flax fibres using a mathematical method based on equally important criteria*. Proceedings of the 18th Romanian Textiles and Leather Conference CORTEP 2022, 17-19 November, Iași, Romania, publicat în Sciendo în Februarie 2023. https://doi.org/10.0000/9788367405133
4. Vasilica Popescu, Lucian-Florin Puchin, Vlad Rotaru, Andrei Popescu. (2022). *Cotton Functionalization by Crosslinking Cellulose with Compounds Type Chlorohydrin*. Proceeding of the 7th International Symposium "Technical Textiles - Present and Future", 2021, 12 November, Iași, Romania, publicat în Editura Sciendo în Februarie 2022. https://doi.org/10.2478/9788366675735-012
5. Popescu Andrei and Popescu Gabriel. (2022). *Cylindrical Roller Bearings with Optimized Profile Taking into Account the Material Structure and Operating Temperature*. Bulletin of the Polytechnic Institute of Iași. Machine constructions Section 68-1, 109-123. https://doi.org/10.2478/bipcm-2022-0009

6. Popescu, A. & Olaru, D. N. (2019). *Influence of lubricant on the friction in an angular contact ball bearing under low load conditions*. IOP Conference Series: Materials Science and Engineering, International Conference on Tribology (ROTRIB'19), September 19–21, Cluj-Napoca, România. https://doi.org/10.1088/1757-899x/724/1/012040
7. Popescu, A., Nazare, M. I., & Olaru, D. (2018). *Friction torque in a modified angular contact ball bearing operating at low axial loads*. IOP Conference Series: Materials Science and Engineering, 444 (2). https://doi.org/10.1088/1757-899x/444/2/022019
8. Popescu, A., Nazare, M. I., Cârlescu, V., & Olaru, D. N., (2017). *An energetic method to determine existence of the raceway control in an angular contact ball bearing operating at low axial load*. Transilvania University Press of Brașov, COMEC 2017, I, 34-39. http://aspeckt.unitbv.ro/jspui/bitstream/123456789/2173/1/34-39_Popescu_A.pdf
9. Popescu, A. & Olaru, D. N. (2016). *Kinematics and tribological problems of linear guidance systems in four contact points*. IOP Conference Series: Materials Science and Engineering, 7th International Conference on Advanced Concepts in Mechanical Engineering (ACME), June 9–10, Iași, România. https://doi.org/10.1088/1757-899x/147/1/012029

J. Invenţii.

K. Contracte de cercetare.

1. Contract tip ROSE SGU-N, nr. AG-206/2019, etapa 2019, membru (30x(700515/87040)x2.06%)=4.97)
2. Grant pentru susținerea capacității de publicare, grant intern, GI/ P11/2021, valoare 45000 lei, director de proiect conf. Popescu Vasilica

L. Premii, distincţii.

1. **Certificat de absolvire:** Universitatea Tehnică „Gheorghe Asachi" din Iași [12/2017] *Elaborarea, Evaluarea Si Prezentarea Materialelor Stiintifice: Strategii, Etica Si Deontologie*
2. **Certificat de absolvire:** Universitatea Tehnică „Gheorghe Asachi" din Iași [11/2017] *Proprietate Intelectuala Si Etica Cercetarii Stiintifice*
3. **Formare psihopedagogică I**, Universitatea Tehnică „Gheorghe Asachi" din Iași [2017]
4. **Formare psihopedagogică II**, Universitatea Tehnică „Gheorghe Asachi" din Iași [2018]
5. **Premiu UEFISCDI pentru cercetare**
   PN-III-P1-1.1- PRECISI-2021- 61416 [2021], Vasilica Popescu, Marioara Petrea, **Andrei Popescu**, *Multifunctional Finishing of Cotton with Compounds Derived from MCT-β-CD and Quantification of Effects Using MLR Statistical Analysis*.
6. **Premiu UEFISCDI pentru cercetare**
   PN-III-P1-1.1- PRECISI-2020- 45995 [2020], **Popescu Andrei**, Olaru Dumitru, *Four approaches for calculating power losses in an angular contact ball bearing*
7. **Premiu UEFISCDI pentru cercetare**
   PN-III- P1-1.1-PRECISI-2019-37117 [2019], Popescu V., Astanei D.G., Burlica R., **Popescu A**., Munteanu C., Ciolacu F., Ursache M., Ciobanu L., Cocean A., *Susta inable*

and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics

M. Alte realizări semnificative.

Data,
26.10.2025

Semnătura,

Anexa Lisa de lucrari

Lista de lucrări
în domeniul de studii universitare de licență – INGINERIE MECANICĂ

Numele şi prenumele: POPESCU ARISTOTEL

A. Teza de doctorat.

An Experimental Study of Fluid Flow and Heat Transfer in Rectangular Microchannels,
Oregon State University, Corvallis, OR, USA (**2001**) – Conducător științific, James R. Welty
Echivalată M.Ed.N. cu Atestat seria E, nr. 0000408 / Nr.2556 din 12.09.2002

Teza de abilitare.

Solar Energy: The smartest energy choice under the Sun,
Domeniul: Inginerie Mecanică, Universitatea Tehnică „Gheorghe Asachi" din Iaşi (**2016**)
Abilitare conferită prin OM 4148/21.06.2017 şi HS 267/14.07.2017

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Dumitrascu Gh., Feidt M., Popescu A., Grigorean S., Study on Endoreversible Trigeneration Cycles Design Based on Finite Physical Dimensions Thermodynamics, in *Newest Updates in Physical Science Research*, Ed. J. Purenovic, Vol. 4, June **2021**, 136-157, https://doi.org/10.9734/bpi/nupsr/v4/5716D.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. Dumitraşcu Gh., Vartolomei H.M., Popescu A., Vartolomei E., Horbaniuc B., Panaite C.E., Stoica V., *Termotehnica Românească – '96*, vol. 1, Ed. „Gh. Asachi", Iași, Romania (**1996**)
2. Dumitraşcu Gh., Vartolomei H.M., Popescu A., Vartolomei E., Horbaniuc B., Panaite C.E., Stoica V., *Termotehnica Românească – '96*, vol. 2, Ed. „Gh. Asachi", Iași, Romania (**1996**)
3. Popescu A., *Elemente Fundamentale de Transfer de Căldură*, Editura Eurobit, Timișoara, Romania (**2003**)
4. Popescu A., *Basic Principles of Heat Transfer*, (în Engleză), Editura Solness, Timișoara, Romania (**2003**)
5. Panaite, C.E., Popescu A., *Transfer de Căldură: Probleme și Aplicații*, Tehnopres Media Grup SRL, Iași, Romania (**2005**)
6. Popescu A., Știrbu C., Doroftei I., Golgoțiu E., Crăciun V., Panaite C.E., Prodan M.M., Aignătoaie M., Homutescu V.M., Ursescu G., *Advanced Concepts in Mechanical Engineering – ACME 2008*, Editor: A. Popescu, vol. 1, Buletinul Institutului Politehnic din Iaşi, Iași, Romania (**2008**)
7. Popescu A., Știrbu C., Doroftei I., Golgoțiu E., Crăciun V., Panaite C.E., Prodan M.M., Aignătoaie M., Homutescu V.M., Ursescu G., *Advanced Concepts in Mechanical Engineering – ACME 2008*, Editor: A. Popescu, vol. 2, Buletinul Institutului Politehnic din Iaşi, Iași, Romania (**2008**)
8. Popescu A., Comandar C., Cozma D., Farcaş F., Golgoţiu E., Hanganu L., Leohchi D., Oancea I., Panaite C.E., Ursescu G., *Advanced Concepts in Mechanical Engineering – ACME 2010*, Editor: Popescu A., vol. 4a, Bul. Inst. Politehnic din Iaşi, Iași, Romania (**2010**)
9. Popescu A., Comandar C., Cozma D., Farcaş F., Golgoţiu E., Hanganu L., Leohchi D., Oancea I., Panaite C.E., Ursescu G., *Advanced Concepts in Mechanical Engineering – ACME 2010*, Editor: Popescu A., vol. 4b, Bul. Inst. Politehnic din Iaşi, Iași, Romania (**2010**)
10. Horbaniuc B., Popescu A., Prodan M.M., Panaite C.E., Lozonschi T., Dragomir-Stanciu D., Homutescu V.M., Bălănescu D.T., *COFRET 2010, Colloque Francophone sur l'Energie, Environnement, Economie, Thermodinamique*, Editori: Horbaniuc B., Popescu Gh., vol. 3a, Buletinul Institutului Politehnic din Iaşi, Iași, Romania (**2010**)
11. Horbaniuc B., Popescu A., Prodan M.M., Panaite C.E., Lozonschi T., Dragomir-Stanciu D., Homutescu V.M., Bălănescu D.T., *COFRET 2010, Colloque Francophone sur l'Energie, Environnement, Economie, Thermodinamique*, Editori: Horbaniuc B., Popescu Gh., vol. 3b, Buletinul Institutului Politehnic din Iaşi, Iași, Romania (**2010**)
12. Popescu A., Doroftei I., Știrbu C., Golgoțiu E., Băisan I., Panaite C.E., Prodan M., Mareş M., Homutescu VM., Ursescu G., *Advanced Concepts in Mechanical Engineering – ACME 2012*, Editor: Popescu A., vol. 3, Buletinul Institutului Politehnic din Iaşi, Romania (**2012**)
13. Popescu A., Doroftei I., Știrbu C., Golgoțiu E., Băisan I., Panaite C.E., Prodan M., Mareş M., Homutescu VM., Ursescu G., *Advanced Concepts in Mechanical Engineering – ACME 2012*, Editor: Popescu A., vol. 4, Buletinul Institutului Politehnic din Iaşi, Romania (**2012**)
14. Popescu A., *Thermal Systems Engineering – notes for Erasmus students*, Editura PIM, Iaşi, Romania (**2013**)
15. Doroftei I., Oprişan C., Popescu A., *Advanced Concepts in Mechanical Engineering I*, in: Applied Mechanics and Materials, Vol. 658, TransTech Publications, Switzerland (**2014**)

16. Doroftei I., Oprişan C., Popescu A., *Advanced Concepts in Mechanical Engineering II*, in: Applied Mechanics and Materials, Vol. 659, TransTech Publications, Switzerland (**2014**)
17. Lupu A.G., Dumencu A., Popescu A., *Termotehnică şi Maşini Termice – îndrumar de laborator*, Editura PIM, Iaşi, Romania (**2017**)
18. Popescu A., *Renewable Energy – Applications; Solar photovoltaic panels performance optimization by temperature control*, textbook for Erasmus students (în Engleză), Ed. PIM, Iaşi, Romania (**2020**)

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Popescu A., *Consideraţii Privind Stadiul Actual al Cercetărilor în Domeniul Curgerii Fluidelor şi Transferului de Căldură în Structuri cu Microcanale Rectangulare*, Editura Pim, Iaşi, Romania (**2003**)
2. Popescu A., *Reference Guide for Heat Transfer Laboratory*, (în Engleză), Editura Pim, Iaşi, Romania (**2003**)

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Popescu A., Suport de studiu/prezentare/autoinstruire pentru disciplina *Transfer de căldură şi masă*, PPT disponibil pe web, 150 pg. (**2008**)
2. Popescu A., Suport de prezentare/instruire pentru disciplina *Procese de transfer, modelare şi simulare*, PPT disponibil pe web, 120 pg. (**2010**)
3. Popescu A., Îndrumar de laborator *Transfer de Căldură şi Masă*, PDF disponibil pe web, 75 pg. (**2010**)
4. Popescu A., Îndrumar de laborator *Reference Guide for Heat Transfer Laboratory*, (lb. engleză), PDF disponibil pe web, 70 pg. (**2010**)
5. Popescu A., Suport de studiu/prezentare/autoinstruire pentru disciplina *Elemente Avansate de Proiectare a Turbomaşinilor*, PPT disponibil pe web, 100 pg. (**2013**)
6. Popescu A., *Energii Regenerabile - Aplicaţii*, (*Renewable Energy – Applications*, studenţi Erasmus, lb. engleză), suport curs, DOC disponibil pe web, 150 pg (**2019**)
7. Panaite C.E., Popescu A., *Transfer de căldură - culegere de probleme*, disponibil pe web, 150 pg. (**2019**)
8. Popescu A., *Energii Regenerabile*, suport curs, DOC disponibil pe web, 150 pg. (**2020**)
9. Popescu A., *Etică şi Integritate Academică*, suport curs, PPT disponibil pe web, 200 pg. (**2021**)
10. Popescu A., *Sisteme Energetice Alternative pentru Dezvoltare Durabilă*, suport curs, PPT disponibil pe web, 150 pg. (**2021**)
11. Tcaciuc G.D., Popescu A., *Procese de transfer, modelare şi simulare* – îndrumar laborator, online, 100 pg., (**2022**)

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Sachelarie D., Achitei G., Munteanu A.I., Sachelarie A., Dontu A.I., Tcaciuc G.D., Popescu A., **2025**, *Air Conditioning Systems in Vehicles: Approaches and Challenges*. Sustainability (2071-1050), 17(12), 5257.
2. Iavnic T., Puiu D, Popescu A., **2023**, *Energy Recovery from ICE Waste Heat using Thermoelectric Generators*, Bulletin of the Polytechnic Institute of Iași. Machine constructions Section, 69(4), 19-35
3. Achitei G., Dontu A.I., Chiriac B., Popescu A., **2023**, *State-of-the-Art and Future Trends of Thermoelectric Generation Systems in Automotive Industry*. In: Sandu A.V., Vizureanu P., Abdullah M.M.A.B., Nabialek M., Ghazali C.M.R., Sandu I. (eds) Selected Papers from ICIR EUROINVENT – 2023, Springer Proceedings in Materials, 38. Springer, https://doi.org/10.1007/978-3-031-45964-1_1
4. Adîncu D.A., Popescu A., Atanasiu M.V., **2022**, *Comparison between two measurement methods for airflow in circular ventilation ducts*, IOP Conference Series: Materials Science and Engineering 1262 (1), 012076
5. Tcaciuc G.D, Lupu A.G., Popescu A., **2022**, *Modelling heat transfer in fins using finite difference method*, IOP Conference Series: Materials Science and Engineering 1262 (1), 012085
6. Lupu A.G., Hristoforou E., Tcaciuc G.D., Popescu A., **2022**, *Theoretical Model for Photovoltaic Panel Thermal Analysis*, Bulletin of the Polytechnic Institute of Iași. Machine constructions Section, 68(1), 79-88
7. Lupu A.G., Sallah M., Belecciu C., Popescu A., **2022**, *Life Cycle Analyses for Solar Thermal Collectors*, Bulletin of the Polytechnic Institute of Iași. Machine constructions Section, 68(1), 89-98
8. Tcaciuc G.D, Elgarayhi A., Lupu A.G., Popescu A., **2022**, *Comparison Between Prandtl's Mixing Length Model and DNS Data for a Channel Flow Up to Re ≈ 5200*, Bulletin of the Polytechnic Institute of Iași. Machine constructions Section, 68(1), 99-107
9. Pavăl M.S., Popescu A., Zahariea D., **2022**, *CFD Analysis of a Round Shaped Air Cushion Vehicle with Flexible Skirt Segments at 90° Part I: Different Positions of Bag to Cushion Feed Orifice*, Bulletin of the Polytechnic Institute of Iași. Machine constructions Section, 68(3), 137-150
10. Panaite C.E., Mihalache A.M., Dodun O., Slătineanu L., Popescu A., Hrițuc A., Nagîț G., **2022**, *Theoretical, Numerical and Experimental Assessment of Temperature Response in Polylactic Acid and Acrylonitrile Butadiene Styrene Used in Additive Manufacturing*, Polymers 14 (9), 1714 (doi.org/10.3390/polym14091714)
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28. Homutescu V.M., Bălănescu D.T., Popescu A., **2018**, *Adiabatic Behavior of the Vuilleumier Heat Pump*, IOP Conference Series: Materials Science and Engineering, 444, 082025
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46. Ștefan G., Donosă D., Popescu A., Donosă R.E., **2009**, *Entrepreneurial attitudes, activities and aspirations*, 6th International Conference on Management Technological Changes, Alexandroupolis, Greece, ISI Proceedings, 1, 281-284

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G. Lucrări ştiinţifice publicate în reviste din străinătate.

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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

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I. Lucrări ştiinţifice publicate în volumele conferinţelor.

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6. Popescu A., Welty J.R., Dumitrașcu Gh., Horbaniuc B., Panaite E.C., **2002**, *Experimental Research on Microchannels in Micro-mechanical Systems. Part II: Numerical Model*, Plenary Paper, Proceedings of the 2nd International Conference RaDMI 2002, Vrnjacka Banja, Yugoslavia, Vol. 1, 35-40
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J. Invenţii.

1. Descriere brevet: OSIM - A00413/19.09.2025

K. Contracte de cercetare.

Internaţionale:

US DOE Grant No. DE-FG03-97ER14777 *Phase Change Phenomena in Enclosed Micro-structures with Forced Flow* Beneficiar: U.S. Department of Energy (DoE), Division of Basic Energy Sciences Temă cercetare: *Single Phase Fluid Flow and Heat Transfer in Rectangular Micro-channels*	Responsabil partener / Responsabil temă de cercetare	1997-2000
OSU N014A EME NSWC 71501 *Heat Transfer and Flow Predictions for Concentric Canister Launchers* Beneficiar: Dept. of the US Navy, Navy Surface Warfare Center	Membru	2000-2001
OSU EME 019 *Study of the Laminar / Turbulent Transition Characteristics in Liquid Micro- channel Flow* Beneficiar: OSU Foundation, USA	Membru	2000-2001
Award No 2000-17 *Portable Systems Development* Beneficiar: Hewlett-Packard Co, USA	Membru	2000-2002
Socrates Program – GRUNDTVIG G1 100734-CP-1-2002-1-BE-GRUNDTVIG-G1 SUS-TRAIN: *Development and testing of training modules and methods for a sust. develop.*	Membru	2002-2005
Proiect PHARE 2006, 018-147.05.01 *Quality Education for Labour Market*	Expert	2009-2010
European Project CM 0901/2009-2013 *Detailed chemical kinetic models for cleaner combustion (COST)*	Membru	2009-2013
A1/2013-13868/2013 *Performance optimization of solar PV panels by temperature control using liquid cooling* Beneficiar: Energiaki Eirinoypolis O.E., Greece	Director	2013-2014

Naţionale:

Proiect CNCSIS nr. 547/2004 *Multidisciplinary research on cooling microprocessors*	Membru	2004-2006
Proiect CNCSIS nr. 547/2004 *Multidisciplinary research on cooling microprocessors*	Membru	2004-2006
Proiect CEEX – TRIPLUFLUX *Advanced solutions for noise reduction from commercial airplane engines*	Membru	2005-2007
Proiect CEEX – UBICENT *Research on using biomass in cogeneration power plants with micro-turbo-machines*	Membru	2006-2008
Proiect CEEX – PULSOCAM *New multi-fuels combustion chambers, with pulse operation regime*	Membru	2006-2008
Proiect CEEX 71/2006 *Intelligent systems and methods for optimizing, monitoring and controlling district heating networks*	Membru	2006-2008
Proiect CNCSIS 237, 33 GR/2007; 77 GR/2008, 12 *Studies on oxi-combustion energy systems*	Membru	2007-2008
Proiect PN II/4 51-043/2007 *Fog generator installation for crops protection against unfavorable environmental factors using pulsating combustion chamber (PULSOPROTECT)*	Membru	2007-2010
Proiect PN II-2008 *Single stage compressor with degree of compression > 9 (COMCIP)*	Membru	2008-2010
POSCCE-A2-O2.2.1-2009-4, ID nr. 911/2013-2015 – ENERED, *Cogeneration and trigeneration laboratory (ENERED)*	Membru	2013-2015
Proiect ROSE AG 329/SGU/PV/III din 22.06.2020 *Scoala de vara pentru elevi „Vreau sa fiu student" MECSTUD*	Membru	2021-2024
CNFIS-FDI 0460/2022 *Buletin IPIaşi*	Membru	2022
Contract cercetare nr. 9068/14.03.2025 *Studiu tehnico-economic asupra instalaţiei economice de furnizare apă caldă menajeră pentru Spitatul Clinic Judeţean de Urgenţă Sfântul Apostol Andrei Galaţi*	Membru	2025

Beneficar: SC CRIOMEC SA Galaţi		
Alte 6 contracte de cercetare mai vechi de anul 2003	Membru	< 2003

L. Premii, distincţii.

1. Premiul 1 – Concurs Național Studențesc – inginerie mecanică, **1988**, Cluj, Romania
2. Premiul 2 – Concurs Național Studențesc – inginerie mecanică, **1989**, Iasi, Romania
3. Associated Western Universities (AWU) Student Fellowship Award - 01/**1998**, Richland, WA, USA
4. Associated Western Universities (AWU) Student Fellowship Award - 06/**1999**, Richland, WA, USA

M. Alte realizări semnificative.

1. Realizare practică – inovație (nebrevetată): *Dispozitiv de dezbatere a nisipului înghețat din vagoanele de transport cale ferată*, **1990**. Aplicația a fost realizată și utilizată în cadrul secției Mecano-Energetice a ACM-2 Iași, Regionala CF Iași
2. Dezvoltare aplicații educaționale în domeniul științelor termice și măsurărilor mecanice – cu ajutorul softurilor specializate MatLAB și LabVIEW
3. Editor-in-Chief, Buletinul Institutului Politehnic din Iași, Publicat de Universitatea Tehnică „Gheorghe Asachi" din Iași – secția Construcții de Mașini, **2008 – prezent**
4. Web of Science: 360 citări, indice Hirsch 7; Scopus: 570 citări, indice Hirsch 9; Google Scholar: 830 citări, indice Hirsch 10

10.10.2025

Prof.univ.dr.habil.ing. Aristotel POPESCU

Lista de lucrări în domeniul de studii universitare de licenţă Inginerie Mecanică

Numele şi prenumele: CONF. DR. ING. POPESCU GABRIEL

A. Teza de doctorat: ***Cercetări teoretice şi experimentale privind comportarea în domeniul elasto-plastic a contactelor hertziene fără frecare***, specializarea ***Organe de Maşini***, diploma nr. 4703/14.10.1999, titlu acordat de Universitatea Tehnică "Gh. Asachi" Iaşi, Facultatea de Mecanică, conducător ştiinţific Prof. dr. ing. Creţu Spiridon

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate

Capitolul:
Microplastic material model and residual fields in rolling contacts, Popescu, G., Gabelli, A., Morales-Espejel, G. E., Wemekamp, B., Bearing Steel Technology-Advances and State of the Art in Bearing Steel Quality Assurance, ASTM Special Technical Publication, Ed. John M. Beswick, 2007, pag. 250-261, ISBN 978-0-8031-3491-1, STP 1465

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS

1. Popescu, G. – Programarea calculatoarelor în MATLAB, TehnoPress, Iaşi, 2009, ISBN 978-973-702-699-6, 204 pagini
2. Popescu, G. – Rezolvări numerice în MATLAB – Îndrumar pentru studenţi, TehnoPress, Iaşi, 2009, ISBN 978-973-702-700-9, 226 pagini

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web

1. Popescu Gabriel, Laboratoare programare in C/C++, format electronic, 7 lucrari, 63 pagini, https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/Programare_C_C++_laborator.pdf
2. Popescu Gabriel, Echipamente periferice si birotica, note de curs, format electronic, 289 pagini
https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/Echipamente_periferice_birotica_curs.pdf
3. Popescu Gabriel, Echipamente periferice si birotica, format electronic, 14 lucrari laborator, 230 pagini
https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/Echipamente_periferice_birotica_laborator.pdf
4. Popescu Gabriel, Modelarea si simularea structurilor mecatronice, note de curs, format electronic, 106 pagini, https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/Modelare_simulare_struct_mecatronice_curs.pdf

F.Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale

1.Vasilica Popescu, Ecaterina Vasluianu, Gabriel Popescu, Quantitative analysis of the multifunctional finishing of cotton fabric with non-formaldehyde agents, **CARBOHYDRATE POLYMERS, 2014,** 111, pp. 870–882. ISSN: 0144-8617. Accession Number: WOS: 000340302100106; DOI: 10.1016/j.carbpol.2014.05.052, **cotată ISI**

2. Gabriel Popescu, On the optimization of three-dimensional line contacts including skew and misalignment angles for cam-follower type contacts, 5th International Conference ″Computational Mechanics and Virtual Engineering ″, COMEC 2013, 24-25 Octombrie 2013, Braşov, Romania, **indexată Google Scholar**

3. Popescu Gabriel**,** An Analytical Solution for Three-Dimensional Elliptical Elastic-Plastic Rolling Contact, **Applied Mechanics and Materials**, Vol. 658, **2014**, pp 207-212, Trans Tech Publications, Switzerland, doi: 10.4028/www.scientific.net/AMM.658.207, **indexată Scopus**

4. Popescu Gabriel**,** Residual Stresses in Cylindrical Roller Bearings – a Three-Dimensional Analysis Model, **Applied Mechanics and Materials**, Vol. 658, **2014**, pp 213-218, Trans Tech Publications, Switzerland, doi: 10.4028/www.scientific.net/AMM.658.213**, indexată Scopus**

5. Vasilica Popescu**,** Irina Crina Anca Sandu, Gabriel Popescu, Gabriela Lisa, Alexandru Popa, Study of the Effects by Tinctorial Method Obtained at Polyethylene Terephtalate Functionalization with Alcohols, **REVISTA DE CHIMIE, 2015**, vol. 66, nr. 10, pp. 1607-1613, ISSN: 0034-7752. Accession Number: WOS: 000368436300014, **cotată ISI**

6. Vasilica Popescu**,** Irina Crina Anca Sandu, Gabriel Popescu, Alexandru Popa, Cezar–Doru Radu, Colorimetric Answer of Monochlorotriazinyl-β-cyclodextrin Grafted onto PAN Support Chemical Modified with NaOH and Amines, **REVISTA DE CHIMIE, 2015**, vol. 66, nr. 11, pp. 1765-1771, ISSN: 0034-7752. Accession Number: WOS: 000368213500011, **cotată ISI**

7. Vasilica Popescu**,** Irina Crina Anca Sandu, Gabriel Popescu, Analysis of the Behaviour of PAN Functionalized with Basic Compounds, During Dyeing Process with Acid Dyes, **REVISTA DE CHIMIE, 2015,** vol. 66, nr. 12, pp.1997- 2004, ISSN: 0034-7752. Accession Number: WOS: 000368437100017, **cotată ISI**

8. Vasilica Popescu, Irina Crina Anca Sandu, Gabriel Popescu, Colorimetric Evaluation of Chemical ModificationsGenerated by PAN Functionalization in Acid/ basic Medium and Grafting with Chitosan, **REVISTA DE CHIMIE, 2016,** vol. 67, nr. 1, pp. 74-80, ISSN: 0034-7752. Accession Number: WOS: 000369524300017, **cotată ISI**

9. Vasilica Popescu, Aurel Pui, Irina Crina Anca Sandu, Gabriel Popescu, Eco-friendly Dyeings of Textiles with Extract from Pomegranate Arils with Seeds - Spectroscopic, colorimetric and statistical assessment, **REVISTA DE CHIMIE, 2016,** vol. 67, nr. 2, pp. 270-275, ISSN: 0034-7752. Accession Number: WOS: 000372170700015, **cotată ISI**

10. Vasilica Popescu, Irina Crina Anca Sandu, Gabriel Popescu, Influence of Parameters of Polycondensation Stage on Ethyl Chitosan Grafting on Cotton, **REVISTA DE CHIMIE, 2016,** vol. 67, nr. 4, pp. 768-773, ISSN: 0034-7752. Accession Number: WOS: 000376549200037, **cotată ISI**

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12. Vasilica Popescu, Irina Crina Anca Sandu, Gabriel Popescu, FTIR Spectroscopic, Colorimetric and Statistic Evaluations of Textile Materials Dyed with Crude Extract Obtained by Macerating Pomegranate Peels, **REVISTA DE CHIMIE, 2016,** vol. 67, nr. 10, pp. 1994-2000, ISSN: 0034-7752. Accession Number: WOS: 000388359900021, **cotată ISI**

13. Vasilica Popescu, Irina Crina Anca Sandu, Gabriel Popescu, FTIR Analysis for Studying the Possibility of Grafting onto Cotton of Some Compounds Resulted from the Interaction of Carbonyl Compounds with monochlorotriazinyl-β-Cyclodextrin, **REVISTA DE CHIMIE, 2016,** vol. 67, nr. 11, pp. 2184-2189, ISSN: 0034-7752. Accession Number: WOS: 000388361900011, **cotată ISI**

14. Vasilica Popescu, Irina Crina Anca Sandu, Gabriel Popescu, Study of Textile Materials Behavior at Dyeing with Colored Aqueous Extract Obtained by Boiling Peels, Arils and Seeds of Punica Granatum. Spectroscopic, colorimetric and statistic evaluations, **REVISTA DE CHIMIE, 2016,** vol. 67, nr. 12, pp. 2454-2459, ISSN: 0034-7752. Accession Number: WOS: 000393230400016, **cotată ISI**

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16. Vasilica Popescu, Irina Crina Anca Sandu, Gabriel Popescu, Study of Cotton Grafting with Hemiacetal - MCT-β-CD Derivative Using Fourier Transform Infrared Spectroscopy and Statistical Analysis, **REVISTA DE CHIMIE, 2017,** vol. 68, nr. 9, pp. 2055-2059, ISSN: 0034-7752. Accession Number: WOS: 000416748800022, **cotată ISI**

17. Popescu V., Manea L. R., Popescu G., Statistical Analysis of the Results of Some Technologies for Cotton Fireproofing**, 7th International Industrial Simulation Conference ISC'2009**, 1-3 Iunie, Loughborough, United Kingdom, p. 347-351, ISBN 978-90-77381-4-89, **indexată ISI**

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19. Popescu Vasilica, Manea Liliana –Rozemarie, Popescu Gabriel, Hierarchical Technological Flow Charts in Textile Chemical Finishing According to the Obtained Quality Indexes by Using the Onicescu Method, **6th International Conference on Management of Technological Changes**, Alexandroupolis, Grecia, 3-5 Septembrie 2009, vol. 2, pp. 769-772, ISBN 978-960-89832-8-1, **indexată ISI**

20. Popescu, G.**,** Gabelli, A., Morales-Espejel, G. E., Wemekamp, B. – Microplastic material model and residual fields in rolling contacts, **Bearing Steel Technology-Advances and State of the Art in Bearing Steel Quality Assurance**, Seventh International Symposium on 17-19 May 2005, Reno, NV; ASTM Special Technical Publication, Ed. John M. Beswick, 2007, pag. 250-261, ISBN 978-0-8031-3491-1, STP 1465, **indexată ISI**

21. Popescu, G., Morales-Espejel, G. E., Wemekamp, B., Gabelli, A. – An engineering model for three-dimensional elastic-plastic rolling contact analysis, **Tribology Transactions**, vol. 49, nr. 3, 387-399, **2006**, **cotată ISI**

22. Popescu, G; Cretu, S - Plastic deformation in line contact - A three-dimensional analysis model, Editor(s):Anderson,P;Ronkainen,H;Holmberg,K; Source: **9TH NORDIC SYMPOSIUM ON TRIBOLOGY NORDTRIB 2000**, VOL 2 Volume: 201 Pages: 327-336 Published: 2000 Conference Title: 9th Nordic Symposium on Tribology (NORDTRIB 2000) Conference Date: JUN 11-14, 2000 Conference Location: PORVOO, FINLAND, **indexată ISI**

23. Cretu, S., Popescu, G**.** - An alternative solution to logarithmic profile in cylindrical roller bearings, Tribology in Industry, ISSN 03511-642, vol. 18, no. 2, pp. 60-62, 1996), **indexată Scopus**

24. Popescu Gabriel - The influence of operating temperature and bearing steel structure in shakedown of three-dimensional elastic-plastic rolling contacts, **International Conference on Tribology, ROTRIB '19**, Cluj-Napoca, Romania,19-21 septembrie 2019, IOP Conf. Series: Materials Science and Engineering, 724 (2020) 012031 IOP Publishing doi:10.1088/1757-899X/724/1/012031, **indexată ISI**

25. Popescu, V., Alexandrescu, A. D., Popescu, G., Vasilache, V. - Eco-Friendly Extraction of Curcumin from Turmeric and Dyeability of Textile Fibers, **FIBERS**, 13(6), 73, e-ISSN: 2079-6439, **2025**, doi: 10.3390/fib13060073, **cotată ISI**

26. Stănescu, V. G., Popescu, V., Vasilache, V., Popescu, G., Rimbu, C. M., Popescu, A. - Cleaner Processes for Making Laundry Soap from Vegetable Oils and an Essential Oil, **APPLIED SCIENCES (Switzerland)**, 15(7), 3821, e-ISSN 2076-3417, **2025**, doi: 10.3390/app15073821, **cotată ISI**

G. Lucrări ştiinţifice publicate în reviste din străinătate

1. Popescu, G., Gabelli, A., Morales-Espejel, G. E., Wemekamp, B. – Microplastic material model and residual fields in rolling contacts, Journal of ASTM International (JAI), vol.3, no. 5, mai 2006, p. 1-12, ISSN 1546-962X

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS

1. Popescu, G. - Influence of misalignment and/or skew on the pressure distribution in cylindrical roller bearings, Bulletin of Tech. Univ. Iasi, XLVIII (LII), section 5-Machine Constructions, 2002, pp.189-192
2. Popescu, G. - A general model for elastic contact stress analysis, Bulletin of Tech. Univ. Iasi, XLVIII (LII), section 5-Machine Constructions, 2002, pp.193-196
3. Popescu, G. - Elastic-plastic rough contact behaviour as affected by surface topography and load, Bulletin of Tech. Univ. Iasi, XLVIII (LII), section 5-Machine Constructions, 2002, pp.197-200
4. Popescu, G. - An analytical solution for the elastic-plastic static point contact: influence of mesh size and load increment, Bulletin of Tech. Univ. Iasi, LII (LVI), section 5-Machine Constructions, 2006, pp.193-196
5. Popescu, G. – A correlation between theory and experiment in case of cyclic static indentation, Bulletin of Tech. Univ. Iasi, LII (LVI), section 5-Machine Constructions, 2006, pp.193-196
6. Popescu, G. - Eccentric helical pumps-planetary gear type geometry and characteristics, Bulletin of Tech. Univ. Iasi, XLI (XLV), no.3-4, section 5, Machine Constructions, 1995, pp.19-26
7. Popescu, G. - Two-dimensional elastic-plastic rolling and sliding contact analysis**,** Bulletin of Tech. Univ. Iasi, Tomul LIV (LVIII), 1, 2008, Machine Constructions, pp. 217-222
8. Popescu, G. - A three-dimensional contact model for hard spherical debris denting*,* Bulletin of Tech. Univ. Iasi, Tomul LIV (LVIII), 1, 2008, Machine Constructions, pp. 223-228
9. Popescu, G. – Theoretical and experimental investigation on the influence of fit pressure in elastic-plastic rolling contact*,* Bulletin of Tech. Univ. Iasi, Tomul LVI (LX), 4A, 2010, Machine Constructions, pp. 135-140
10. Popescu, G. – Elastic-plastic rolling contact of a sphere and periodic real rough surfaces*,* Bulletin of Tech. Univ. Iasi, Tomul LVI (LX), 4A, 2010, Machine Constructions, pp. 141-146
11. Popescu, G. – Plastic flow and cyclic ratchetting of a perlitic rail steel in two-dimensional rolling and sliding line contact*,* Bulletin of Tech. Univ. Iasi, Tomul LVII (LXI), 1, 2011, Machine Constructions, pp. 113-123
12. A. Popescu, G. Popescu, Cylindrical roller bearings with optimized profile taking into account the material structure and operating temperature, Buletinul IP Iasi, sectia Constructii de Masini, eISSN: 2537-4869, vol. 68 (72), nr. 1, 2022, pag. 109-123, DOI: 10.2478/bipcm-2022-0009

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Cretu, S., Silion, D., Croitoru, C., Popescu,G.- Pre-stressing in the elastic-plastic field-way for improving bearings reliability, EUROTRIB '93, Budapest, Hungary, pp.176-180
2. Cretu, S., Ahmad al I.K., Popescu, G. -The improvement of ball bearing fatigue life using bending initial stresses,YUTRIB'95, Herceg-Novi, Yugoslavia, September 27-29, 1995, pp.97-98
3. Cretu, S., Popescu, G. - An alternative solution to logarithmic profile in cylindrical roller bearings, YUTRIB'95, Herceg-Novi, Yugoslavia, September 27-29, 1995, pp.95-96
4. Oprisan, C., Popescu, G., Andrei, A. - La influencia de tolerancias y juegos sobre al angulo de transmision y la posicion del elemento dirigido, 13th Brasilian Congress and 2nd Iberian American Congress of Mechanical Eng., December 12-15, 1995, Belo Horizonte, Brasil
5. Oprisan, C., Popescu, G., Popovici, A. - La sintesis de los mecanismos con elementos hidraulicos, 13th Brasilian Congress and 2nd Iberian American Congress of Mechanical Eng., December 12-15, 1995, Belo Horizonte, Brasil
6. Cretu, S., Popescu, G. - Non-hertzian contact analysis: cylindrical roller with modified profile-inner ring, Proc. of the 7th Int. Conf. on Tribology, ROTRIB'96, Bucharest, Romania, pp.355-363
7. Popescu, G., Cretu, S. - An analytical model for plastic deformation in point and line contacts normally loaded, with non-linear hardening, 27th Session of Scientific Communications, Bucharest, Technical Military Academy, November 13-14, 1997, pp.257-264
8. Popescu, G., Cretu, S. - An analysis of three-dimensional elastic-plastic rolling elliptical contact, VAREHD 9, Suceava, Romania, June 1998, pp. 225-232, ISBN 973-98486-6-4
9. Popescu, G., Cretu, S. - Non-hertzian contact problem in the elastic-plastic domain-application to cylindrical roller bearings design, 15th Danubia-Adria Symposium, September 30th – October 3rd, 1998, Bertinoro, Italy, pp.153-154
10. Popescu, G., Cretu, S. - A general model for non-hertzian contact stress analysis, 28th Int. Conf., Bucuresti, Military Technical Academy, October 21-22, 1999
11. Cretu, S., Popescu, G. - An improved numerical model for the elastic-plastic contact pressure distribution, BALKANTRIB'99, 3rd Int. Conf. on Tribology, Sinaia, Romania, vol.3, pp. 57-62
12. Popescu, G., Cretu, S. - Three-dimensional analysis of contact deformation at high static loads, BALKANTRIB'99, 3rd Int. Conf. on Tribology, Sinaia, Romania, vol.3, pp. 95-102
13. Popescu, G., Cretu, S. - Roller generatrix modification due to elastic-plastic rolling contact, TRIB 2000, 11th Int. Congress on Tribology, Esslingen, Germany, January 11-13, 2000, vol. II, pp. 1297-1308, ISBN 3-924813-44-2
14. Cretu, S., Popescu,G.- A numerical model for three-dimensional elastic-plastic contact stress analysis,TRIB 2000, 11th Int. Congress on Tribology, Esslingen, Germany, January 11-13, 2000, vol. II, pp. 1107-1115, ISBN 3-924813-44-2
15. Popescu, G., Cretu, S. - Contact pressure distribution in case of a smooth ball on an anisotropic rough surface - a numerical analysis model, 7th Int. Conference on Tribology, 2000, September 4-5, Budapest, Hungary, pp. 195-198
16. Cretu, S., Popescu, G. - Computation of residual stresses in elliptical rolling contact, 7th Int. Conference on Tribology, 2000, September 4-5, Budapest, Hungary, pp.199-202
17. Popescu, G., Cretu, S. - Plastic deformation in line contact - a three-dimensional analysis model, VAREHD 10, Suceava, Romania, October 20-21, 2000, pp. 407-416, ISBN 973-9408-64-8
18. Cretu, S., Popescu, G. - Residual stresses in line contact in case of isotropic hardening materials, VAREHD 10, Suceava, Romania, October 20-21, 2000, pp. 397-406, ISBN 973-9408-64-8
19. Popescu, G. - An improved Gauss-Seidel algorithm for three-dimensional elastic contact problems, VAREHD 10, Suceava, Romania, 2003
20. Popescu, G. - An automatic mesh procedure in non-hertzian contact analysis, VAREHD 10, Suceava, Romania, 2003
21. Popescu, G. - Conformity aspects in deep groove ball bearings: influence of load and contact angle, VAREHD 10, Suceava, Romania, 2003

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24. Popescu, G., Morales-Espejel, G. E., Wemekamp, B., Gabelli, A. – An engineering model for three-dimensional elastic-plastic rolling contact analysis, 60th STLE Annual Meeting, 15-19 May 2005, Las Vegas, NV
25. Popescu, G., Gabelli, A., Morales-Espejel, G. E., Wemekamp, B. – Microplastic material model and residual fields in rolling contacts, ASTM Symposium on Bearing Steel Technologies: Seventh International Symposium on 17-19 May 2005, Reno, NV
26. Popescu, G. – Three-dimensional elastic-plastic rolling and sliding contact analysis, VAREHD 13, Suceava, Romania, 2006, ISBN 10973-666-215-2
27. Popescu, G., Morales-Espejel, Gabelli, A., E. Ioannides – Application of a semi-analytical elastic-plastic model in rolling contacts, 62th STLE Annual Meeting, 6-10 May 2007, Philadelphia, PA
28. Popescu, G. - Optimization of the contact pressure distribution in three-dimensional line contacts, 63rd STLE Annual Meeting, 18-22 May 2008, Cleveland, OH
29. Popescu, G. - Three-dimensional rolling and sliding line contact analysis, 63rd STLE Annual Meeting, 18-22 May 2008, Cleveland, OH
30. Popescu, G. – Theoretical and experimental evaluation of residual stresses in case-hardened and through-hardened bearing steels, VAREHD 16, Suceava, Romania, 25-27 Octombrie 2012, p. 3-7, ISSN 1844-8917
31. Popescu, G. - The influence of operating temperature in three-dimensional elastic-plastic rolling contacts, VAREHD 16, Suceava, Romania, 25-27 Octombrie 2012, p. 8-11, ISSN 1844-8917
32. Popescu Gabriel - The influence of operating temperature and bearing steel structure in shakedown of three-dimensional elastic-plastic rolling contacts, 14th International Conference on Tribology, ROTRIB 2019; Cluj-Napoca; Romania; IOP Conf. Series: Materials Science and Engineering 724 (2020) 012031, 10.1088/1757-899X/724/1/012031
33. Gabriel Popescu, Andrei Popescu - Shakedown in roller bearings: influence of material behaviour and bearing steel structure. IOP Conference Series: Materials Science and Engineering, 11th International Conference on Advanced Concepts in Mechanical Engineering (ACME), June 6-7, 2024, Iași, România
34. Gabriel Popescu, Andrei Popescu - The correct evaluation of internal stress field in two-dimensional contacts in case of a uniform pressure distribution – mathematical considerations. IOP Conference Series: Materials Science and Engineering (ACME), 11th International Conference on Advanced Concepts in Mechanical Engineering, June 6-7, 2024, Iași, România

J. Invenţii-

K. Contracte de cercetare

1. Fiabilitatea cuptoarelor de clincher din industria cimentului, contract nr. 930P, **2013**, beneficiar S.C. EXPERT REPARAŢII S.R.L., Tașca, judetul Neamț, **director de proiect**, **valoare 22.320 RON**
2. Analiza cauzelor care conduc la distrugerea prematura a sistemelor de asigurare a gurilor de acces in sistemele de alimentare cu apa si canalizare si gasirea unor solutii eficiente de inchidere a gurilor de acces, contract nr. 275P, **2013**, beneficiar S.C. INSTCOMP S.A. Suceava, director de proiect S.l. dr. ing. Ianuș Gelu – **membru echipă, valoare 28.520 RON**
3. a).Three-dimensional rolling and sliding line contact analysis, b). Optimization of the contact pressure distribution in three-dimensional line contacts, contract mobilitate cercetatori PN-II-RU-MC-2008-2, cod CNCSIS 57, 2008, **director de proiect**, **valoare 6.938 RON**.

4. Contactul cu rostogolire al corpurilor cu suprafete rugoase in domeniul elasto-plastic, contract nr. 37959/2001, proiecte majore de cercetare pentru tineri (tema de autor), grant tip T, cod CNCSIS 175, finanţare Banca Mondială, beneficiar Ministerul Invăţământului, **director de proiect, valoare 10.000 USD x 29.364 ROL (1 iulie 2001) = 293.640.000 ROL**
5. Cresterea fiabilitatii rulmentilor radiali cu bile prin inducerea unor tensiuni remanente favorabile,Grant CNCSIS, contract 35259/2001, cod CNCSIS 6, tema 68, beneficiar Ministerul Invăţământului, **director de proiect, valoare 4.500 RON**
6. Cresterea fiabilitatii rulmentilor radiali cu bile prin inducerea unor tensiuni remanente favorabile, Grant CNCSIS, contract 37089/2000, beneficiar Ministerul Invăţământului,**director de proiect, valoare 4.500 RON**
7. Monitorizarea fenomenelor de deteriorare din contactul cu rostogolire, in conditii de lucru severe, prin utilizarea instrumentatiei virtuale. Studiu de caz pe rulmentii osiilor pentru material rulant - Grant CNCSIS, Nr contract A1/GR164/2006, Tema 14, Cod CNCSIS 475, director S.l. dr. ing. Bujoreanu Carmen **valoare 15.000 RON, membru echipa**
8. Monitorizarea fenomenelor de deteriorare din contactul cu rostogolire, in conditii de lucru severe, prin utilizarea instrumentatiei virtuale. Studiu de caz pe rulmentii osiilor pentru material rulant- Grant CNCSIS, Act adit. la contract 33371/2005, Tema 12, Cod CNCSIS 475, director S.l. dr. ing. Bujoreanu Carmen **valoare 15.000 RON, membru echipa**
9. Monitorizarea fenomenelor de deteriorare din contactul cu rostogolire, in conditii de lucru severe, prin utilizarea instrumentatiei virtuale. Studiu de caz pe rulmentii osiilor pentru material rulant - Grant CNCSIS, Contract 33371/2004, Tema 12, director S.l. dr. ing. Bujoreanu Carmen, Cod CNCSIS 475 **valoare 10.000 RON, membru echipa**
10. Cresterea performantelor rulmentilor radiali cu role cilindrice prin solicitare initiala in domeniul elasto-plastic. Cresterea performantelor rulmentilor radiali cu miscare oscilanta. Grant CNCSIS 5001-37/1998, director prof. dr. ing. Hostiuc Liviu **valoare 25.000.000 ROL, membru echipa**
11. Asigurarea calității și fiabilității sistemelor mecanice în corelație cu procesele tribologice și fenomenele de oboseală mecanică – Grant CNCSU-BM tip D, **1998-2002**, director profesor dr. ing. Cretu Spiridon, **membru echipă, valoare 60.000 USD**
12. Rulmenti radiali cu role cilindrice pentru incarcari combinate si turatii ridicate, contract nr. 379, tema A8, 1998, beneficiar MCT, director profesor dr. ing. Cretu Spiridon **valoare 32.500.000 ROL, membru echipa**
13. Cercetari privind dinamica contactelor cu rostogolire aflate in conditii de ungere EHD, cu aplicatii la optimizarea geometriei interne a rulmentilor cu role cilindrice si conice pentru sarcini cumulative, Contract 5002-48/1996**,** beneficiar ministerul invatamantului, director prof. dr. ing Cretu Spiridon **valoare: 4.000.000 ROL , membru echipa**
14. Contract 6041/1994-1995**,** beneficiar Societatea Comerciala Rulmenti S.A. Barlad: a) 1994: Determinarea regimurilor de solicitare pentru realizarea prin deformare plastica a profilului special la rolele cilindrice, b) 1995: Program de analiza pe calculator a contactului hertzian liniar solicitat initial in domeniul elasto-plastic, director prof. dr. ing Cretu Spiridon **valoare 3.600.000 ROL – membru echipa**
15. Posibilitati teoretice si numerice de analiza a solicitarii de contact nehertzian, cu aplicatii la optimizarea geometriei rulmentilor cu role, Contract 4002-A2/1995, tema A22/788, beneficiar Ministerul Invatamantului, director prof. dr. ing Cretu Spiridon **valoare 12.794.000 ROL, membru echipa**
16. Cercetari in domeniul contactului elastic si elastoplastic asupra comportarii la contact mecanic si mecanotermic cu aplicatii la rulmenti si laminoare, Contract 3002-A4/1994, beneficiar Ministerul Invatamantului, director prof. dr. ing Cretu Spiridon **valoare 1.000.000 ROL, membru echipa**
17. Modificarea geometriei generatoarei si a topografiei suprafetelor rolelor cilindrice prin solicitari in domeniul elasto-plastic, Contract 1173/1993, beneficiar Societatea Comerciala Rulmenti S.A. Barlad, director prof. dr. ing Cretu Spiridon, **valoare 994.000 ROL, membru echipa**
18. Optimizarea profilului logaritmic special prin considerarea conditiilor reale de incarcare a rulmentilor radiali cu role cilindrice, Contract 1174/1993, beneficiar Societatea Comerciala

Rulmenti S.A. Barlad, director prof. dr. ing Cretu Spiridon, **valoare 1.000.000 ROL, membru echipa**

L. Premii, distincţii

Premii și distincții internaționale:

Certificate of Appreciation, Technical Program Presenter, STLE 60th Annual Meeting, May 2005, Las Vegas, NV, SUA (acordat de Society of Tribologists and Lubrication Engineers, SUA)

Premii și distincții naționale: premii obţinute pe lucrări de cercetare ştiinţifică

1). pentru articolul **(***de la pozitia 914 in lista 2, proiect* PN-II-RU-PRECISI-2014-8-5223 / *UEFISCDI, din 2014, pp. 40;)* publicat în **Carbohydrate Polymers,** considerat pe pozitia 4 in zona 1/rosie,domeniul Chemistry Applied:
http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202014/LISTA%202%20REZULTATE%20ARTICOLE%20actualizata.pdf
Popescu Vasilica; Vasluianu Ecaterina, **Popescu Gabriel**, *Quantitative analysis of the multifunctional finishing of cotton fabric with non-formaldehyde agents,* **Carbohydrate Polymers,** 111 (**2014**) 870–882, ISSN: 0144-8617. **DOI:** 10.1016/j.carbpol.2014.05.052
2). pentru articolul **(***de la pozitia 328 in lista 3, proiect* PN-II-RU-PRECISI-2016 */ UEFISCDI, din 2016, pp. 93;)* publicat în **Carbohydrate Polymers,** considerat pe pozitia 8 in zona 1/rosie, domeniul Chemistry Applied:
http://uefiscdi.gov.ro/userfiles/file/PNCDI%20III/P1_Resurse%20Umane/PRECISI_2016/PROCES%20EVALUARE/Rezultate/PRECISI_2016_Rezultate%20eligibilitate_lista%203_14_10_2016.pdf
Vasilica Popescu, Augustin Muresan, **Gabriel Popescu**, Mihaela Balan, Marius Dobromir, *Ethyl chitosan synthesis and quantification of the effects acquiredafter grafting it on a cotton fabric, using ANOVA statistical analysis,* **CARBOHYDRATE POLYMERS,** 138 (**2016**), pp. 94–105, ISSN: 0144-8617. **DOI:** 10.1016/j.carbpol.2015.11.009

M. Alte realizări semnificative

1. Prelegeri sustinute la centre de cercetare de prestigiu (cadru didactic invitat):
a) SKF-Engineering and Research Centre, Nieuwegein, Olanda, 3-5 iulie 2000
b) Ecole Nationale Superieure des Mines de Paris, Centre de Mise en Forme des Materiaux, Sophia-Antipolis, Franta, 20-23 noiembrie 2006

2. referent ştiinţific pentru *Journal of ASTM International* (*JAI*), **revistă indexată in bazele de date**: Energy Citations Database, Scopus, CAB Abstracts, Chemical Abstract Service, Compendex, Paper Chem, TRIS Electronic Bibliographic Data Base, ISSN 1546-962X (internet), 2005 (2 recenzii)

3. referent ştiinţific pentru *Tribology Transactions*, **revistă cotată ISI**, ISSN 1040-2004 (din 2007, 39 recenzii)

4. referent ştiinţific pentru *Journal of Tribology – Transactions of the ASME*, **revistă cotată ISI**, ISSN 0742-4787 (din 2011, 33 recenzii)

5. referent ştiinţific pentru *Journal of Manufacturing Science and Engineering-Transactions of the ASME*, **revistă cotată ISI**, ISSN 1087-1357 (din anul 2021, 1 recenzie)

Data: 09.10.2025 Conf. dr. ing. Popescu Gabriel

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă Inginerie Mecanică

Numele şi prenumele: Prună Liviu

A. Teza de doctorat

Grafica asistată de calculator în studiul mecanismelor, conducător: prof.dr.ing. Vasile Merticaru

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Andrei Slonovschi, Liviu Prună, Irina Ignătescu-Manea, Ioana-Roxana Baciu, „Infografică.Autocad", Editura PIM, 2024, pg.215, ISBN 978-606-13-8168-5.
2. Liviu PRUNĂ, Alina Angelica ANGHEL, Vanda Ligia DĂNĂILĂ, Andrei SLONOVSCHI, „Bazele desenului tehnic industrial", Editura Performantica, Iaşi, 2022, ISBN -978-606-685-913-4, pg.219
3. Slonovschi, A., Prună L., „Infografică Autocad - Comenzi ce permit selectarea și editarea obiectelor", Editura PIM, Iași, 2019, ISBN 978-606-13-5285-2, pg. 208.
4. Slonovschi, A., Prună L., „Infografică AutoCAD – Comenzi de desenare", Editura PIM, Iași, 2016, ISBN 978-606-13-3423-0,229 pg.
5. Slonovschi, A., Prună L., „Infografică. AdvanceCAD", Editura PIM, Iași, 2015, ISBN 978-606-13-2247-3, 233 pg.
6. Slonovschi, A., Prună, L., "Infografică. Noţiuni introductive", Editura PIM, Iaşi, 2014, ISBN 978-606-13-2086-8, 212 pg
7. Prună, L., Slonovschi, A., „Infografică", Editura PIM, Iași, 2014, ISBN 978-606-13-1883-4, 341 pg.
8. Slonovschi, A., Prună, L., Antonescu, I., „Desen Tehnic pentru Construcţii" Editura PIM, Iași, 2010, ISBN 978-606-13-0021-1, 310 pg
9. Prună, L., Anghel, A., Antonescu, I., Romanescu C., Slonovschi, A., „Sistem Expert Pentru Stabilirea Tipului de Ajustaj, Alegere a Câmpului de Toleranţe şi Determinarea Valorilor Abaterilor Limită în Proiectarea Asistată de Calculator, Editura Politehnium, Iaşi,2009, ISBN 978-973-621-253-6, 197 pg.
10. Slonovschi, A., Anghel, A., Antonescu, I., Prună, L., Romanescu C., „Poliedre", Editura PIM, Iaşi, 2009, ISBN 978-606-520-466-9, 141 pg.;
11. Dănăilă, W., Anghel, A., Antonescu, I., Prună, L., Romanescu, C., Slonovschi, A., „Infografică. Aplicaţii în Desenul Tehnic Industrial", Editura PIM, Iaşi, 2008, ISBN 978-973-716-945-7, 255 pg.;
12. Andrei Slonovschi, Alina Anghel, Ion Antonescu, Wanda Dănăilă, Liviu Prună, Camelia Romanescu, Infografică. Îndrumar de laborator, 2007, Editura PIM, ISBN 978-973-716-718-7, 150 pg;
13. Prună L., Slonovschi A., Antonescu I., „Geometrie descriptivă", Editura Societăţii Academice „Matei-Teiu Botez", Iaşi, 2006, (ISBN (10) 973-7962-95-8; ISBN (13) 978-973-7962-95-9), 177 pg.;
14. Slonovschi A., Prună L., Antonescu I., „Geometrie descriptivă. Aplicaţii", Ed. Tehnopress, Iaşi, 2006, (ISBN 10 973-702-331-5, ISBN 13 978-973-702-331-5), 257 pg.;
15. Anghel A. A., Prună L. „Desen tehnic cu AutoCAD", Ed. Tehnopress, Iaşi, 2005 (ISBN 973-702-149-5) 150 pg.

16. Prună Liviu, Slonovschi Andrei, Antonescu Ion, Popescu Felicia „Geometrie Descriptivă”, Ed. Cermi, Iaşi, 2002 (ISBN 973-8188-25-3), 220 pg.
17. Popa C-tin., Strobel Gh., Anghel A., Prună L., Onofrei L., Romanescu C., Dănăilă W., Antonescu I., "Desen tehnic. Desen industrial. Elemente pentru desen de instalaţii. Elemente de grafică asistată de calculator.", Ed. Gh. Asachi, Iaşi, 1996 (ISBN 973-9178-36-7) 512 pg.
18. Popescu F., Prună L. Antonescu I. "Elemente de grafică tehnică asistată de calculator. Îndrumar de lucrări pentru studenţii facultăţii de Textile-Pielărie”., Ed. Junimea, Iaşi, 1997 (ISBN 973-37-0276-5) 41 pg.
19. Prună L., Merticaru V. „ Aplicaţii ale graficii asistate de calculator în studiul mecanismelor”, Editura VIE, Iaşi, 1999 (ISBN 973-99048-1-5) 391 pg.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Palamaru M., Rusu I., Prună L., and Ciobanu C. ”A comparative study by thermal analysis of polyurethanes interacted with metallic ions”, Termochimica Acta, 230 (1993) 235-242, Elsevier Science Publishers Bv., Amsterdam. SSDI 0040-6031(93)01154-U;

2. Palamaru M., Rusu I., Prună L., and Ciobanu C. “A thermal degradation comparative study of polyesterurethane based on 4,4’- diphenylmethane di-isocianate interacted with „d-block metallic cations” Termochimica Acta, 235 (1994) 217-223, Elsevier Science Publishers Bv., Amsterdam. SSDI 0040-6031(93)01556-I;

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Popa Constatin, Antonescu Ion, Prună Liviu „Résolution des problèmes de sections planes dans des polyèdres et des corps cylindro-coniques a l’aide des systèmes de dessin assistes par l’ordinateur”, Buletinul I.P.Iasi, Tomul XLIV(XLVIII), Fasc.3-4, 1998;
2. Prună Liviu, Antonescu Ion “O metodă grafică de sinteză dimensională a mecanismelor bielă-manivelă”, Analele Universităţii “Aurel Vlaicu”, Arad, Seria Mecanică, Fascicola Mecanică, Mecanisme, Organe de Maşini, Tehnologii de Prelucrare Convenţionale şi Neconvenţionale, 2000 (ISSN 1582-3393);
3. Prună Liviu, Antonescu Ion “O metodă grafică de sinteză dimensională a mecanismelor plane patrulatere articulate”, Analele Universităţii “Aurel Vlaicu”, Arad, Seria Mecanică, Fascicola Mecanică, Mecanisme, Organe de Maşini, Tehnologii de Prelucrare Convenţionale şi Neconvenţionale, 2000 (ISSN 1582-3393);
4. Antonescu Ion, Prună Liviu, Zugrăvel Mircea „Computer code for modeling of 3D subsonic compressible flows in CAD environment”, Buletinul I. P. Iaşi, Tomul XLVI (L), Supliment Mecanica Fluidelor, Secţia Construcţii de Maşini, 2000 (ISSN 1011-2855);
5. Prună Liviu, Antonescu Ion , Zugrăvel Mircea „Modeling of potenţial subsonic compressible flows by finite element analysis”, Buletinul I. P. Iaşi, Tomul XLVI (L), Supliment Mecanica Fluidelor, Secţia Construcţii de Maşini, 2000 (ISSN 1011-2855).
6. Prună Liviu, Antonescu Ion, Slonovschi Andrei "Contribuţii privind folosirea unor locuri geometrice în sinteza dimensională a mecanismelor plane patrulatere", Buletin Ştiinţific, seria C, Vol. XV, Fascicola Mecanică, Tribologie, Tehnologia Construcţiilor de Maşini, Universitatea de

Nord, Baia Mare, 2001 (ISSN 1224-3264);
7. Prună Liviu, Antonescu Ion, Slonovschi Andrei "O nouă metodă grafică de sinteză dimensională a mecanismelor cu culisă rotativă", Buletin Ştiinţific, seria C, Vol. XV, Fascicola Mecanică, Tribologie, Tehnologia Construcţiilor de Maşini, Universitatea de Nord, Baia Mare, 2001 (ISSN 1224-3264);
8. Antonescu Ion, Slonovschi Andrei, Prună Liviu "Grafica computerizată, conceptul de vizualizare, structurală şi problema intersecţiilor de poliedre", Buletin Ştiinţific, seria C, Vol. XV, Fascicola Mecanică, Tribologie, Tehnologia Construcţiilor de Maşini, Universitatea de Nord, Baia Mare, 2001 (ISSN 1224-3264);
9. Prună Liviu, Antonescu Ion, Slonovschi Andrei „3D Complex bodies for CAD Systems Using Constructive Geometry", Buletinul I.P. Iaşi, Tomul XLVII (LI), Fascicola 3-4, Secţia Construcţii şi Arhitectură, 2001;
10. Prună Liviu, Antonescu Ion, Slonovschi Andrei „Hiperboloid of Revolution for Constructive Geometry", Buletinul I.P. Iaşi, Tomul XLVIII (LII), Fascicola 1-2, Secţia Construcţii şi Arhitectură, 2002.
11. Antonescu Ion, Roşca Radu, Prună Liviu, Slonovschi Andrei "Complex characteristics of pressure variation in the admission manifold and burning chamber of an experimental mono cylinder engine", Buletinul I.P. Iaşi, Tomul L(LIV), Fasc. 6D, 2004, Secţia Construcţii de Maşini.
12. Alina Anghel, Liviu Prună, Cercetări privind un sistem integrat pentru alegere automată a stării suprafeţei, toleranţelor şi ajustajelor în proiectarea asistată de calculator I, 12th International Conference – TMCR – 2008, Iaşi – Romania, May, 29-31, 2008, Buletinul Institutului Politehnic din Iaşi, Tomul LIV (LVIII), Fasc. 1-3, Secţia Construcţii de Maşini
13. Alina Anghel, Liviu Prună, Cercetări privind un sistem integrat pentru alegere automată a stării suprafeţei, toleranţelor şi ajustajelor în proiectarea asistată de calculator II, 12th International Conference – TMCR – 2008, Iaşi – Romania, May, 29-31, 2008, Buletinul Institutului Politehnic din Iaşi, Tomul LIV (LVIII), Fasc. 1-3, Secţia Construcţii de Maşini
14. Ion Antonescu, Alina Anghel, Liviu Prună, Camelia Romanescu şi Andrei Slonovschi, Contribuţii la achiziţia şi reprezentarea cunoştinţelor în cadrul unui sistem expert pentru alegerea toleranţelor ajustajelor în proiectarea asistată de calculator I, 12th International Conference – TMCR – 2008, Iaşi – Romania, May, 29-31, 2008, Buletinul Institutului Politehnic din Iaşi, Tomul LIV (LVIII), Fasc. 1-3, Secţia Construcţii de Maşini
15. Ion Antonescu, Alina Anghel, Liviu Prună, Camelia Romanescu şi Andrei Slonovschi, Contribuţii la achiziţia şi reprezentarea cunoştinţelor în cadrul unui sistem expert pentru alegerea toleranţelor ajustajelor în proiectarea asistată de calculator II, 12th International Conference – TMCR – 2008, Iaşi – Romania, May, 29-31, 2008, Buletinul Institutului Politehnic din Iaşi, Tomul LIV (LVIII), Fasc. 1-3, Secţia Construcţii de Maşini
16. Liviu Prună, Andrei Slonovschi, Ion Antonescu, A Comparative Study Concerning The Possibilities To Measure The Angle Between Two Cross Straight Lin, Acta Technica Napocensis, Series Applied Mathematics and Mechanics, 52, Vol I a, ISSN 1221 – 5872, pg. 337-340
17. Andrei Slonvschi, Liviu Prună, Ion Antonescu The 3d Modeling Of The Longitudinal Reinforcements From A Reinforced Concrete Beam, Acta Technica Napocensis, Series Applied Mathematics and Mechanics, 52, Vol I a, pg. 365 – 368
18. Slonovschi, A., Prună, L., Antonescu, I., Comparative Study Of 2D, 2.5D and 3D Computer Graphics Representation Of A Civil Engineering Structure, U.S.A.M.V. "Ion Ionescu De La Brad" Iaşi Lucrări Ştiinţifice Seria Horticultură Vol. 53,Nr. 1 Ed "Ion Ionescu De La Brad", Iaşi, ISSN–L=1454-7376, 2010
19. Antonescu I., Prună L., Slonovschi A., Alecu I., Cucoş I., Generation Of 3d Geometrical Solid Model Of Micro Water Turbine Rotor Blades, An Ecodesign Challenge, Buletinul Institutului Politehnic din Iaşi, Tomul LVII (LXI), Fasc. 6, Secţia Construcţii de Maşini, 2011
20. Prună L., Barreau M., Slonovschi A., Antonescu I., The Method Of Revolution

Difficulties And Solutions, Buletinul Institutului Politehnic din Iaşi, Tomul LVII (LXI), Fasc. 6, Secţia Construcţii de Maşini, 2011
21. Slonovschi A., Prună L., Antonescu I., Comparative Study On The Graphical Representation Of The Intersection Between Two Surfaces, Buletinul Institutului Politehnic din Iaşi, Tomul LVII (LXI), Fasc. 6, Secţia Construcţii de Maşini, 2011
22. Slonovschi A., Prună L., Antonescu I., Computer Aided Representation Of The Revolution Of A Line, Buletinul Institutului Politehnic din Iaşi, Tomul LVII (LXI), Secţia Construcţii de Maşini, 2011
23. Prună L., Slonovschi A., ChoosePanels a computer program for panels design in civil engineering, Scientific Bulletin of the "POLITEHNICA" University of Timişoara, TRANSACTIONS on HYDROTECHNICS, Romania, ISSN 1224-6042, Tom 58 (72), Fascicola 1, 2013, pg. 27-30.
24. Slonovschi A, Prună L. Determination of Some Dimensioning Characteristics in the Computer Assisted Drawings Case in the Civil Engineering Buletinul Ştiinţific al Universităţii „POLITEHNICA“ din Timişoara, Tom 58(72), Fascicola 1, 2013, TRANSACTIONS on HYDROTECHNICS
25. Prună L., Slonovschi A., PowerPoint use in building self assessment tests for geometry descriptive discipline, Scientific Bulletin of the "POLITEHNICA" University of Timişoara, TRANSACTIONS on HYDROTECHNICS, Romania, pg. 229 – 232, ISSN 1224-6042, Tom 58 (72), Fascicola suplimentară, 2013 (Nu-i BDI această lucrare).
26. Slonovschi Andrei, Prună Liviu, Techniques For Establish Optimal Values Of Dimensioning Variables Used In Correct Printing Of The Technical Drawing, Universitatea De Stiinłe Agricole Si Medicină Veterinară “Ion Ionescu De La Brad” Iasi Lucrări Stiinłifice, Seria Horticultură, Nr.1, Vol 57, pg 31-36, 2014, ISSN–L=1454-7376 (Print)-ISSN 1454-7376 (Online)=ISSN 2069-8275
27. Slonovschi Andrei, Prună Liviu, E-Line, A Computer Program Used In E-Learning, Universitatea De Stiinłe Agricole Si Medicină Veterinară “Ion Ionescu De La Brad” Iasi Lucrări Stiinłifice, Seria Horticultură, Nr.2, Vol 57, pg 29-34, 2014
28. Prună Liviu, Slonovschi Andrei, Parametric Drawings vs. AutoLISP, Revista JIDEG, Vol.10, Special Issue, fascicle 3, pg.47-50, 2015
29. Slonovschi Andrei, Prună Liviu, Study On The Level Of Assimilation By The Students Of The Fundamental Knowledge From The Technical Drawing, Revista JIDEG, Vol.10, Special Issue, fascicle 5, pg.21-24, 2015
30. Slonovschi, A. Prună, L. Determining the intersection line of two planes by comuter help, Lucrări ştiinţifice vol. 59, nr. 1, seria Horticultură, Universitatea de Ştiinţe Agricole şi Medicină Veterinară “I. Ionescu de la Brad”, 2016, Iaşi, Romania, ISSN 1454-7376, pag. 23 - 28
31. Liviu Prună, Slonovschi Andrei, Building A Pergola In Cad Systems, Revista JIDEG, No 12, Issue 1, 2017, pg 137-140
32. Slonovschi Andrei, Liviu Prună, Computer Graphical Representation, In Treble Orthogonal Projection, Of A Point, Revista JIDEG, No 12, Issue 1, 2017, pg 241-246
33. Prună Liviu, Slonovschi Andrei, Automatic Graphical Simulation of How to Determine the True Size Segment by Changing Projection Plan, Lucrări ştiinţifice vol. 61, nr. 1, seria Horticultură, Universitatea de Ştiinţe Agricole şi Medicină Veterinară “I. Ionescu de la Brad”, 2018, Iaşi, Romania, ISSN 1454-7376
34. Prună Liviu, Slonovschi Andrei, Workflows Used in Design of the Decorative Elements from a Garden, Lucrări ştiinţifice vol. 61, nr. 1, seria Horticultură, Universitatea de Ştiinţe Agricole şi Medicină Veterinară “I. Ionescu de la Brad”, 2018, Iaşi, Romania, ISSN 1454-7376
35. Liviu PRUNA, Andrei SLONOVSCHI, Specifying A Plane By Using Of The Dihedral Angle, Revista JIDEG, Vol.14, No 1, Issue 1, 2019, pg 41-44.
36. Andrei SLONOVSCHI, Liviu PRUNA, Computer Program Which Provides Automatic Determination Of Some Characteristic Necessary For Correct Dimensioning And Printing Of The Technical Drawing For Construction, Revista JIDEG, Vol.14, No 1, Issue 1, 2019, pg 175-

178.
37. Slonovschi Andrei, Prună Liviu, Metric problems for determining distances: Descriptive Geometry vs. AutoCaD, Lucrări Ştiinţifice Seria Horticultură, Vol. 63 (1) / 2020, USAMV Iaşi, ISSN 1454-7376, 2020, pag.137 – 142.
38. Slonovschi Andrei, Prună Liviu, The use of the mathematical curves in the obtaining process of the specific ornaments of the decorative elements from a garden, Lucrări Ştiinţifice Seria Horticultură, Vol. 63 (1) / 2020, USAMV Iaşi, ISSN 1454-7376, 2020, pag.143 – 148.
39. Prună Liviu, Slonovschi Andrei, The building process' automatization of the furniture for rest from a garden, Lucrări Ştiinţifice Seria Horticultură, Vol.64 / 2021, USAMV Iași, ISSN 1454 – 7376, 2021, pag. ?.
40. Prună Liviu, Slonovschi Andrei, Common mistake in the representation in triple orthogonal projection of cylindrical-conical and methods for their elimination, Lucrări Ştiinţifice Seria Horticultură, Vol.64 / 2021, USAMV Iași, ISSN 1454 – 7376, 2021, pag. ?.
41. I-R Baciu, D N Isopescu, M L Lupu, S G Maxineasa, L Pruna and S Dan, Ventilated façade solutions, IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021) 04/11/2021 - 05/11/2021 Online.
42. M L Lupu, D N Isopescu, I-R Baciu, S G Maxineasa, L Pruna and R Gheorghiu, Hempcrete - modern solutions for green buildings, IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021) 04/11/2021 - 05/11/2021 Online.
43. S G Maxineasa, D N Isopescu, M L Lupu, I-R Baciu, L Pruna and C Somacescu, The use of perlite in civil engineering applications, IOP Conference Series: Materials Science and Engineering, Volume 1242, 16th International Scientific Conference: Civil Engineering and Building Services (CIBv 2021) 04/11/2021 - 05/11/2021 Online.
44. Andrei Slonovschi, Liviu Prună, Computer-Assisted Determination Of The Developments Of Polyhedra And Intersection Polygons Determined By The Intersection Of Two Or More Polyhedra, Revista JIDEG, Vol. 17, No. 2, pg. 51 – 54, Online ISSN 2344-4681, Print ISSN 1843-3766, 2022
45. Liviu Prună, Andrei Slonovschi, Visualisation Of Intersection Curves Resulting From The Intersection Of Two Cylindrical-Conical Surfaces, Vol. 17 No. 1, 2022, pg 43 – 46, Online ISSN 2344-4681, Print ISSN 1843-3766, 2022
46. Liviu Prună, Andrei Slonovschi, Using Free Contours To Obtain Specific Ornaments For Decorative Elements In A Garden, JIDEG Vol. 18, pg 9 – 12, ISSUE 1, Online ISSN 2344-4681, Print ISSN 1843-3766, 2023
47. Prună L., Slonovschi A., The Automatic Plotting Of The Arcs Of Circle In The Chamfered Hexagonal Prism Case Representation, JIDEG, Vol 19 ISSUe 1, pg. 27-30, Online ISSN 2344-4681, Print ISSN 1843-3766, 2024
48. Baciu, I.R., Prună L., Slonovschi A., Maxineasa, S., G., The Transformative Impact Of Advanced Graphics Technologies And Computer-Generated Imagery In Civil Engineering, JIDEG, Vol 19 ISSUe 1, pg. 77-82, Online ISSN 2344-4681, Print ISSN 1843-3766, 2024
49 Liviu Prună, Andrei Slonovschi, The Automatic Representation Of The Oval When One Of Its Radii, JIDEG, Vol 20 No.1, Issue 1, pg. 77-82, Online ISSN 2344-4681, Print ISSN 1843-3766, 2025.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

a. *Articole publicate integral în volumele conferinţelor (manifestărilor) internaţionale din România:*

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Sume: 58322, 33310.5, 35811;
7. Membru în echipa Grant-ului „Sisteme soft pentru simulare geometrică şi mecanică”, Contract nr. 133, CEEx II 03 din 02.10.2006.
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9. Membru în echipa Grant-ului „Reducerea abandonului școlar al studenților din anul întâi prin activități remediale și de consiliere în Centrul de Învățare din cadrul TU IAȘI (REMEDIUM)” Contract din proiectul ROSE nr. 83/SGU/CI/I 2018 – 2021, Valoare contract 906138 RON, director Prof.dr.ing. Niculai Eugen Seghedin.

L. Premii, distincţii.

M. Alte realizări semnificative.

Data: 8.10.2025 **Conf.univ.dr.ing. Liviu Prună**

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **Romaniuc Simona-Luiza**

A. Teza de doctorat.
Structuri de tip lift natural pe fibratele tangent și cotangent, domeniul Matematică, Universitatea „Alexandru-Ioan Cuza", Iași, 2009.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.
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C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.
C1. Negoescu, N., Bejan, C. L., **Druță-Romaniuc, S. L.,** *Special Types of Metrics*, 201 pagini, Editura Stef, Iași, 2014, ISBN 978-606-575-431-7.
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J. Invenţii.

K. Contracte de cercetare.

- Cercetător post-doctorand (în echipa de beneficiari), proiectul POSDRU/89/1.5/S/49944, Universitatea „Alexandru Ioan Cuza" Iași, manager proiect: prof. dr. Dumitru Luca; tema: *Structuri de tip lift natural pe fibratele tangent, cotangent, tangent în sfere și aplicații în magnetostatică,* îndrumător științific conf. dr. Marian-Ioan Munteanu, perioada iulie 2010-martie 2013.

- Asistent de cercetare (**director de proiect**), contractul TD-158/2007,
  CNCSIS, Universitatea „Alexandru Ioan Cuza"din Iaşi, titlul : *Structuri de tip lift natural pe fibratele tangent şi cotangent*, perioada octombrie 2007-decembrie 2008.
- Membru Grant 36/1463/2006, CNCSIS, Universitatea „Alexandru Ioan Cuza" din Iaşi, titlul : *Noi structuri geometrice pe varietăţi riemanniene şi complexe*, director de proiect prof. dr. Vasile Oproiu, 2006, 2007.
- Membru Grant ET Nr. 5871/2006, 2007, CEEX, Universitatea „Alexandru Ioan Cuza"din Iaşi, titlul : *F-structuri pe varietăţi diferenţiabile şi proprietăţi de biarmonicitate,* director de proiect conf. dr. Cezar Oniciuc, 2006, 2007.
- Membru Grant AT Nr. 191/2006, CNCSIS, Universitatea „Alexandru Ioan Cuza" din Iaşi, titlul : *Condiţia Palais-Smale şi tehnici de reducere pentru aplicaţii biarmonice,* director de proiect conf. dr. Cezar Oniciuc, 2006, 2007.
- 260/SGU/NC/II/25.11.2019, Universitatea Tehnică „Gh. Asachi" din Iași, director de proiect șef lucrări dr. ing. Marius Telișcă; funcția: Expert program remedial 5, 2023.
- NetLab 288/SGU/CI, Universitatea Tehnică „Gh. Asachi" din Iași, director de proiect prof. univ. dr. ing. Eugen Neculai Seghedin; funcția: Expert educație: Matematică, 2020-2022.
- SGU/N/AG-206/2019, Universitatea Tehnică „Gh. Asachi" din Iași, Facultatea de Mecanică, director de proiect ș.l. dr. ing. Iulian Agape; funcția: expert formator activități remadiale, 2019-2022.
- 89/SGU/NC, Universitatea Tehnică „Gh. Asachi" din Iași, Facultatea de Design Industrial și Managementul Afacerilor, director de proiect conf. dr. ing. Ionuț Dulgheriu; funcția: Expert formator activități remediale, 2020, 2021.
- AG 348/SGU/SS/III, Universitatea Tehnică „Gh. Asachi"– Iași, Facultatea de Design Industrial și Managementul Afacerilor, director de proiect conf. dr. ing. Ionuț Dulgheriu; funcția: epert A3, 2021.

L. Premii, distincţii.
Premii PN-II-RU-PRECISI pentru articolele F6, F11-F15, F17, F19, F27.

M. Alte realizări semnificative.

Data, Semnătura,
17.09.2025

Lista de lucrări în domeniul de studii universitare de licenţă
Inginerie Mecanica

Numele şi prenumele: **Sandovici Valerică Adrian**

A. Teze de doctorat.

A1. „*Contributions to the extension theory in Hilbert spaces*”;
Teză de doctorat, Universitatea din Groningen, 2006, 193 pagini;
Conducător științific: Prof. Dr. Henk de Snoo.

A2. „*Teorii gauge in spatii Lagrange*”;
Teza de doctorat, Universitatea din Iasi, 2001, 330 pagini;
Conducator stiintific: Acad. Prof. Dr. Doc. Radu Miron.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

B1 Adrian Sandovici,
Contributions to the extension theory in Hilbert spaces, RIJKSUNIVERSITEIT GRONINGEN, 193 pp, 2006,
ISBN 90-367-2644-1

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

C1 Adrian Sandovici,
Matematici pentru ingineri: elemente de algebra liniara, Editura Performantica, Iași, 2019, 133 pagini, ISBN: 978-606-685-679-9

C2 Adrian Sandovici,
Algebraical , geometrical and Spectral Theory of Linear Relations, Editura Performantica, Iași, 2019, 225 pagini, ISBN: 978-606-685-681-2

C3 Adrian Sandovici
Capitole de Matematici Speciale. Culegere de probleme rezolvate*,* Editura Performantica, Iaşi, 2019, 115 pagini, **ISBN:** 978-606-685-688-1

C4 Adrian Sandovici,
Curbe și hipersuprafețe in spații Euclidiene, Editura Performantica, Iasi, 2016, 101 pagini, **ISBN: 978-606-685-438-2**

C5 Adrian Sandovici,
Matematici Competitionale*,* Editura Performantica, Iaşi, 2016, 181 pagini, **ISBN: 978-606-685-424-5**

C6 Adrian Sandovici,
Notiuni elementare de teoria codurilor, Editura Pim, Iaşi, 2008, 118 pagini, **ISBN 978-606-520-125-5.**

C7 Adrian Sandovici,
Antrenament Matematic pentru Concursurile Scolare, Editura EduCart, Bacau, 2008, 112 pagini, **ISBN 978-973-88330-8-1.**

C8 Adrian Sandovici
Antrenament Matematic pentru Testele Nationale, Editura EduSoft, Bacau, 2007, 112 pagini, **ISBN 973-8934-57-5.**

C9 Adrian Sandovici
Matematici Speciale. Culegere de probleme rezolvate*,* Editura Performantica, Iasi, 2016, 115 pagini,
ISBN: 978-606-685-436-8

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

D1 Adrian Sandovici,
Matematica pentru Capacitate, Editura Alfa, Piatra Neamt, 2002, 122 pagini, **ISBN 973-85209-3-2.**

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

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F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

F1 Sandovici, Adrian,
Self-adjointness and skew-adjointness criteria involving powers of linear relations,
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F2 Roman, Marcel; **Sandovici, Adrian**,
A Note on a Paper by Nieminen,
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F3 Sandovici, A.,
A range matrix-type criterion for the self-adjointness of symmetric linear relations,
ACTA MATHEMATICA HUNGARICA, Volume: 158, Issue: 1, Pages: 27-35, Published: JUN 2019.

F4 Hassi, Seppo; **Sandovici, Adrian**; de Snoo, Henk,
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BANACH JOURNAL OF MATHEMATICAL ANALYSIS, Volume: 13, Issue: 3, Pages: 538-564, Published: JUL 2019.

F5 Roman, Marcel; **Sandovici, Adrian**,
THE SQUARE ROOT OF NONNEGATIVE SELFADJOINT LINEAR RELATIONS IN HILBERT SPACES,
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F6 A. Sandovici,
Von Neumann's theorem for linear relations,
Linear and Multilinear Algebra, Volume 66, 2018, Issue 9,
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F7 P. Barsanescu, **A. Sandovici**, A. Serban,
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F8 M. Roman, **A. Sandovici**,
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F9 M. Roman, **A. Sandovici**,
B-spectral theory of linear relations in complex Banach spaces,
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F10 S. Hassi, **A. Sandovici**, H.S.V. de Snoo, H. Winkler,
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F11O.V. Iftime**,** M. Roman and **A. Sandovici**,
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F12 Adrian Sandovici, Zoltán Sebestyén,
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F14 MIHAI ANASTASIEI and ADRIAN SANDOVICI,
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F15 Alvarez Teresa, **Sandovici Adrian**
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F16 J.-PH. LABROUSSE, A. SANDOVICI, H.S.V. DE SNOO AND H. WINKLER,
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F17 Adrian Sandovici,
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F18 Adrian Sandovici, F.-H. Vasilescu,
ON PRODUCTS OF NONNEGATIVE LINEAR OPERATORS AND RELATIONS,
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"*The Kato decomposition of quasi-Fredholm relations*",
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F20. A. Sandovici, H. de Snoo.
An index formula for the product of linear relations.
Linear Algebra and Its Applications, 431 (2009), pp. 2160-2171.

F21 S. Hassi, **A. Sandovici**, H. de Snoo, H. Winkler.
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Journal of Operator Theory, vol. 58, no. 2 (2007), 351–386.

F22 S. Hassi, **A. Sandovici**, H. de Snoo, H. Winkler.
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F23 A. Sandovici, H. de Snoo, H. Winkler.
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F24 A. Sandovici, H. de Snoo, H. Winkler.
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F25 A. Sandovici, P.D. Barsanescu,
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to hydrostaic pressure,
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F26 A M Comanici, **A Sandovici** and P D Barsanescu,
Investigation of limit state criteria for amorphous metals,
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F27 Marcel Roman, **Adrian Sandovici**,
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”Differential Geometry - Dynamical Systems”,
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F28 ADRIAN SANDOVICI, ON A CLASS OF ALMOST CONTACT STRUCTURES ON T2M,
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F29 Sandovici Adrian,
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F30 Sandovici Adrian,
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F31 Iftime, Orest V., **Sandovici, Adrian**
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F32 Sandovici Adrian,
ON THE CURVATURE TENSOR FIELD ASSOCIATED TO HOMOGE-NEOUS
METRICAL STRUCTURES ON T^2M,
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F33 A. Sandovici,
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F34 A. Sandovici, V. Blanuta,
Generalized Beil metric on Finsler spaces.
Libertas Mathematica, vol. XXVII (2007), 65-72.

F35 A. Sandovici.
Lagrangian pairs in Hilbert spaces.
Methods of Functional Analysis and Topology, vol. 12, no. 1, 2006, 82-100.

F36 J.-Ph. Labrousse, **A. Sandovici**, H. de Snoo, H. Winkler.
Quasi-Fredholm relations in Hilbert spaces,
Studii si Cercetari Stiintifice, No. 16 (2006), 93-106.

F37 A. Sandovici,
A smooth gauge model on tangent manifold,
Rendiconti del Seminario Matematico Torino, vol. 63, no.3, 2005, 255-282.

F38 M. Mocanu, **A. Sandovici**.
On the convergence of a sequence generated by an integral.

Creative Mathematics, vol. 14, 2005, 31-42.

F39 A. Sandovici, V. Blanuta.
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Tensor (N.S.), vol. 66, no.1, 2005, 34-43.

F40 A. Sandovici.
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Studii si Cercetari Stiintifice, No. 15 (2005), 153-160.

F41 A. Sandovici.
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Radovi Matematicki, 12 (2004), 189-203.

F42 A. Sandovici, V. Blanuta.
On a framed f - structure on tangent manifold of a Riemannian Space.
Libertas Mathematica, vol. XXIV (2004), 21-28.

F43 A. Sandovici.
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F44 A. Sandovici.
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F45 A. Sandovici, V. Blanuta.
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F46 A. Sandovici.
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F47 A. Sandovici.
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F48 A. Sandovici.
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F49 A. Sandovici.
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Vol. XVII, no. 1-2, 2001, 117-126.

F50 A. Sandovici.
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F51 A. Sandovici.
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F52 A. Sandovici.
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Balkan Journal of Geometry and Its Applications, vol. 5, no. 1, 2000, 141-148.

F53 A. Sandovici.
D - Connections Compatible with a Class of Metrical Almost 2-pi Structures on TM.
Differential Geometry - Dynamical Systems, vol. 2, no. 1, 2000, 36-42.

F54 A. Sandovici.
A Gauge Theory of Second Order in Munteanu-Ikeda Approach.
Studii si Cercetari Stiintifice, No. 10 (2000), 255-278.

F55 A. Sandovici, V. Blanuta.
A Class of Metrical Almost 2-pi Structures on Tangent Bundle.
Algebras, Groups and Geometries, 17(3), 2000, 331-340.

F56 A. Sandovici.
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Studii si Cercetari Stiintifice, No. 9 (1999), 187-202.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

I1 A. Sandovici.
A Generalization of Yang Mills Theory in Higher Order Gauge Approach.
Analele Facultatii de Inginerie din Hunedoara, University of Timisoara,
Tomul III, Fascicola 5, 2001, 150-155.

I2 A. Sandovici.
A Generalization of Electromagnetic Field Theory in Higher Order Lagrange Spaces.
Analele Facultatii de Inginerie din Hunedoara, University of Timisoara,
Tomul II, Fascicola 5, 2000, 72-81.

I3 A. Sandovici.
Rheonomic Gauge Non-linear Connections and Semisprays.
Analele Facultatii de Inginerie din Hunedoara, University of Timisoara,
Tomul I, Fascicola 4, 1999, 121-128.

I4 A. Sandovici.
Equations of Motion and Conservation Laws in Rheonomic Gauge Lagrange Approach.
Analele Facultatii de Inginerie din Hunedoara, University of Timisoara,
Tomul I, Fascicola 7, 1999, 69-80.

I5 A. Sandovici.
On a Class of Generalized Lagrange Spaces of Second Order.
Analele Universitatii "Dunarea de Jos", Galati, vol. XVI, f.2, 1998, 31-40.

J. Invenţii.

-

K. Contracte de cercetare/granturi.

-

L. Premii, distincţii.

-

M. Alte realizări semnificative.

Data,

6 octombrie 2025

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: STAMATE Vasile Ciprian

A. Teza de doctorat.

1. ***„CONTRIBUŢII LA STUDIUL TEORETIC ŞI EXPERIMENTAL AL FORŢELOR ÎN MICROSISTEME BIOLOGICE ŞI MECATRONICE”*** – Coordonator ştiinţific: prof. univ. dr. ing. Dumitru OLARU, aprilie 2012.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. **Stamate C.**: *Aplicații MEMS în domeniul biomedical.* Editura PIM, Iași, **2024**, 101 p., ISBN:978-606-13-8119-7.
2. Ianuș G., Mătieș V., Prisăcaru Gh., Bujoreanu C., Știrbu C., Bălan M.R., Tufescu A., **Stamate C.**, Cârlescu V: Mecanică fină și mecatronică. Vol. 2. Mecatronică. Chișinău, 2022, 384 p., ISBN 978-5-88554-129-9. Cap.5 MEMS-uri utilizate în mecatronică, pp.176-225. (50 pag.) (autor: șef lucrări dr.ing Vasile Ciprian Stamate).
3. Ianuș G., Mătieș V., Prisăcaru Gh., Bujoreanu C., Știrbu C., Bălan M.R., Tufescu A., **Stamate C.**, Cârlescu V: Mecanică fină și mecatronică. Vol. 2. Mecatronică. Chișinău, 2022, 384 p., ISBN 978-5-88554-129-9. Cap.8 Aplicații în domeniul serviciilor, pp.318-368 (50 pag.), (autori: conf.dr.ing. Gelu Ianuș, șef lucrări dr.ing Vasile Ciprian Stamate).
4. Creţu Sp., Bălan M., Benchea M., Tufescu A., **Stamate C.**: *Organe de maşini. Lucrări*, Editura Tehnopress, Iaşi, ISBN 978-606-687-014-6, 260 pg., 2013.
5. Ianuş G., Olaru D.N., **Stamate C.**: *Procese micro şi macrotribologice în sisteme mecatronice*, Editura Politehnium, Iaşi, ISBN (13) 978-973-621-141-6, pp. 165-191, 2009.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Olaru D., **Stamate C.**: *MICROSISTEME MECATRONICE. Principii de bază, tehnologii de fabricaţie şi soluţii constructive*, Iași 2021, (85 pag.): http://www.mec.tuiasi.ro/diverse/MICROSISTEME%20MECATRONICE.pdf
2. Grigoraș Șt., Hanganu L.C., Tudose-Sandu Ville F., **Stamate C.**: *Fiabilitatea sistemelor mecanice. Îndrumar de laborator*, Iași, 95 pg., 2013.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. **Stamate C.**: *Zeppelin RC cu controller de zbor Matek F411-WTE,* Iași 2023, (69 pag.). Suport de curs - pentru disciplina Microsisteme electromecanice (MEMS), master anul I, programul de studii Mecatronică Avansată. (https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/)
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5. **Stamate C.**: *Imprimantă 3D. Componente și construcție,* Iași 2020, (18 pag.). Suport de curs - pentru disciplina pentru disciplina Proiectarea Sistemelor Mecatronice (PSM), master anul I, programul de studii Licență Mecatronică. (https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/)
6. Olaru D., Benchea M., M.R. Bălan, Bodi Gh., **Stamate C.**: Aplicaţii tribologice. 72 pg., 2016, http://www.mec.tuiasi.ro/diverse/APLICATIITRIBOLOGIE.rar
7. **Ciprian Stamate**, Dumitru Olaru: APLICAȚII TRIBOLOGIE: http://www.mec.tuiasi.ro/diverse/TRIBOLOGIE_OLARUD_ppt.rar
8. **Ciprian Stamate,** Gheorghe Prisăcaru: *Acționări Hidraulice și Electropneumatice (AHP) – Laborator.* (https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/)
9. Olaru D., **Stamate C.**: Aplicații ale cursului de Microsisteme mecatronice: STUDIUL FRECARII DE ROSTOGOLIRE PRIN METODA OSCILATIILOR LIBERE. 8 pg., 2016, http://www.mec.tuiasi.ro/diverse/STUDIUL FRECARII DE ROSTOGOLIRE PRIN METODA OSCILATIILOR LIBERE.pdf
10. Olaru D., **Stamate C.**: MICROSISTEME MECATRONICE. Principii de bază, , tehnologii de fabricaţie şi soluţii constructive. 85 pg., 2016, http://www.mec.tuiasi.ro/diverse/MICROSISTEME MECATRONICE.pdf
11. Olaru D., **Stamate C.**: PREZENTARE PPT MICROFABRICATIE MICROMOTOR. 16 pg., 2016, http://www.mec.tuiasi.ro/diverse/PREZENTARE PPT_MICROFABRICATIE_MICROMOTOR.ppt
12. Creţu Sp., Bălan M., Benchea M., Tufescu A., **Stamate C.**: *Organe de maşini. Lucrări*, Editura Tehnopress, Iaşi, ISBN 978-606-687-014-6, 260 pg., 2013, http://www.mectuiasi.ro/index.php/studenti/download-descarca2)
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F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

Articol publicat în revistă cotată ISI, cu factor de impact

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G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

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17. Fourth International Conference Advanced Materials and Structures - AMS '11 – organizată de Universitatea "Politehnica" din Timişoara, 27 October 2011, cu lucrarea *"The Characterization of Ketoprofen- Hydroxypropyl–B-Cyclodextrin Complex Like Biomaterial with Modified Drugs Release Properties"* in Session 1 - Advanced Materials (Amorphous alloys, Composites, Biomaterials, Particulate materials).
18. International Conference on Mechanical Engineering, Robotics and Aerospace (ICMERA 2011) under the tutelage of the Romanian Academy of Technical Sciences and International Association of Computer Sciences and Information Technology- IACSIT Singapore, Bucharest, 20-22 October 2011, cu lucrarea: *"Synthesis and SEM Analysis of Ketoprofen-Hidroxipropil-β-Cyclodextrin Microparticles for Medical Applications as Drug-Release System with a High Bioavailability"* in Session 9.
19. ModTech International Conference - New face of TMCR. Modern Technologies, Quality and Innovation - New face of TMCR din Chişinău, Republic of Moldova, 25-27 May 2011, cu lucrarea: *"Rolling friction torque in microsystems for dry and lubricated conditions"* in Section 3 - Manufacturing & Automation and Flexible Technologies.
20. Proceedings of ROTRIB'10 – organizată de Universitatea Tehnică "Gheorghe Asachi" din Iaşi, Facultatea de Mecanică, 4-6 noiembrie 2010, cu lucrările: *„Adhesive forces in the microball-liquid (water and oil) contacts"*; *„Dynamic model to determine the rolling friction torques in Microsystems for dry and lubricated conditions"*; *„Geometrical effects on rolling friction in Microsystems"*.
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25. Proceedings of 14th International Conference on EHD Lubrication and Traction, VAREHD´14 – organizată de Universitatea "Ştefan cel Mare" din Suceava, 9-11 octombrie 2008, cu lucrările: *„Rolling friction in the mechatronic microsystems"*; *„A new pin disc microtribometre"*.
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Mechatronic Microsystems"; *"The SEM Surface Characterization Of Wear Particles A Result Of Intervertebral Disc Prosthesis Fretting"*.

27. 53th International Colloquium IWK, TU Ilmenau, 8-12 September, 2008, cu lucrarea: *"The Influence of the Atmospheric Condensed Water on Friction in Micro Systems"*.

28. Proceedings of 9th International Conference on Mechatronics and Precision Engineering, COMEFIM'9, – organizată de Universitatea Tehnică "Gheorghe Asachi" din Iaşi, Facultatea de Mecanică, 12-14 June 2008, cu lucrările: *"New Microtribometers for Sliding and Rolling Friction. Experimental Investigations"* in Room: CAD laboratory, Session: MEMS. Micro and Nanotechnology. Tribology of micro Contacts,; *"Electrostrictive properties of $LiClO_4$/Ethylene Carbonate/Poly(Acrylonitrile) gels"* in Room: Amphitheatre M1, Session: Mechanical Structures and Elements for Precision Engineering, Bioengineering and Mechatronics; *"Electroresponsive polymeric gels based on Poly(Acrylonitrile) and Poly(Vinyl Alcohol)"* in Room: Central hall, Session: POSTERS; *"Micro-structural evolution of UHMWPE biomaterial for medical aplication"* in Room: Central hall, Session: POSTERS.

29. The International Conference of the Carpathian Euro-Region Specialists in Industrial Systems, – organizată de Universitatea de Nord din Baia Mare, 21-23 may 2008, cu lucrarea: *"Optimisation of human intervertebral disc prosthesis a new mechanical support and drug release system"*.

30. Proceedings of 16th International Colloquium Tribology, T.A.Esslingen, Germany, 15-17 January 2008, cu lucrarea: *"The Influence of the Atmospheric Condensed Water on Friction in a Micro Rolling Systems"*.

31. Proceedings of 10th International Conference on Tribology, ROTRIB'07, organizată de Universitatea POLITEHNICA din Bucureşti, 8-10 noiembrie 2007, cu lucrările: *„Experimental determinations of a water meniscus between a steel ball and a glace surface"* in Session: 4.1 - Fundamentals of Lubrication - II; *„Characterizing the wear particles of intervertebral disc prosthesis and their biological response"*in Session: 6.2 - Biotribology.

32. International Scientific Conference "Modern Technologies, Quality, Restructuring" T.M.C.R.-2007, Ediţia a XI-a, organizată de Universitatea Tehnică a Moldovei din Chişinău, 31 mai – 03 iunie 2007, cu lucrările: *"The influence of the atmospheric condensed water of friction in a micro rolling systems"*; *"The reconstruction of the intervertebral disc using CT of lumbar spine and AutoCAD"*.

J. **Invenţii**.

1. Brevet de invenție nr. 127562 A2 - RO-BOPI 6/2012, din 29.06.2012

Titlul brevetului: Procedeu şi microtribometru inerţial pentru studiul fenomenului de frecare de rostogolire. Autori brevet : Dumitru OLARU, Ciprian STAMATE, Gheorghe PRISĂCARU, Gelu IANUŞ.

2. Brevet de invenție nr. 127849 A2,- RO-BOPI 9/2012, din 28.09.2012

Titlul brevetului: Microtribometru gravitaţional pin-disc pentru studiul fenomenului de frecare de alunecare. Autori brevet : Dumitru OLARU, Ciprian STAMATE, Gheorghe PRISĂCARU, Gelu IANUŞ, Alina Corina DUMITRAŞCU.

K. Contracte de cercetare/granturi.

Perioada	***Programul / Proiectul***	***Funcţia***
mar. 2021 - iul. 2023	Contract Principal: ROSE AG329/SGU/PV/III/2020 Titlul proiectului: Școala de vară pentru elevi „Vreau să fiu student" –	Formator (FR)

	MECSTUD Contractor: Universitatea Tehnică „Gh. Asachi” din Iaşi Director de proiect: conf.univ.dr.ing. Gelu IANUȘ Durata proiectului: 28 luni. Atelier de lucru - ”Mașina inteligentă”	
dec. 2020 – dec.2022	Proiect internațional nr. 2SOFT/1.1/64/2020, din cadrul programului „Joint Operational Programe Romania - Republic of Moldova 2014 - 2020”, finanțat prin ENI CBC, Titlul proiectului: „Cross border cooperation in mechatronics engineering education” - (CBCinMEE). Contractor: Universitatea Tehnică „Gheorghe Asachi” din Iaşi Manager de proiect: conf.dr.ing. Gelu IANUȘ Durata proiectului: 36 luni.	Curricular Specialist 2 (Specialists)
3 – 6 august 2020	Cod Contract: CNFIS-FDI-2020-0157 Titlul proiectului: ”Internaționalizare Creativă la TUIASI – INTER-BUZZ în domeniul internaționalizării învățământului superior. „Empower Your Online Public Speaking Competences” – training de comunicare digitală pentru cursuri online, dedicat profesorilor TUIASI	Cursant
oct. 2017 – dec. 2020	Cod Contract: PN-III-P1-1.2-PCCDI-2017-0652. Contract nr. 84PCCDI/2018 Titlul proiectului: Tehnologii inovative pentru recuperarea avansată a materialelor din deșeuri de echipamente informatice și de telecomunicații (TRADE-IT) Director proiect complex (DPC): conf.univ.dr.ing. Ioan Marius PURCAR Coordonator: Universitatea Babeș Bolyai din Cluj - Napoca. Partener 4 proiect complex (P4) - Universitatea Tehnică "Gheorghe Asachi" Iași; Responsabil partener 4 (RP4): prof.univ.dr.ing. Ioan DOROFTEI PROIECT 1 ”Tehnologii optimizate cu impact redus asupra mediului pentru recuperarea avansata a materialelor din deșeuri de echipamente informatice și de telecomunicații” – TORA	Membru cercetare științifică
1 – 30 noiembrie 2011	Cod Contract: POSDRU/56/1.2/S/32768. Titlul proiectului: Formarea cadrelor didactice universitare şi a studenţilor în domeniul utilizării unor instrumente moderne de predare-învăţare - evaluare pentru disciplinele matematice, în vederea creării de competenţe performante şi practice pentru piaţa muncii. Beneficiar: Ministerul Educaţiei, Cercetării, Tineretului şi Sportului.	Cursant
dec. 2008 – dec. 2011	Proiect PNII – Parteneriate, contract nr. 72178/2008 Titlul proiectului: Sisteme mecatronice inteligente pentru echipamente textile. Autoritatea Contractantă: Unitatea Executivă pentru Finanţarea Învăţământului Superior şi a Cercetării Ştiinţifice Universitare (UEFISCSU) Contractor: Universitatea Tehnică „Gh. Asachi” din Iaşi Director de proiect: conf.univ.dr.ing. Carmen LOGHIN Durata proiectului: 36 luni.	Membru colectiv cercetare Doctorand
oct. 2007 – oct. 2010	Proiect PN II – IDEI cod ID 607, contract nr. 381/2007 Titlul proiectului: Cercetări privind reducerea frecării în microsisteme mecatronice. Autoritatea Contractantă: Unitatea Executivă pentru Finanţarea Învăţământului Superior şi a Cercetării Ştiinţifice Universitare (UEFISCSU)	Membru colectiv cercetare Doctorand

	Contractor: Universitatea Tehnică „Gh. Asachi” din Iaşi Director proiect: prof.dr.ing. Dumitru OLARU Durata proiectului: 36 luni.	
oct. 2007 – oct. 2008	Grant TD-208, Nr. 277/01.10.2007, PN II R.U. – Autoritatea Contractantă: Unitatea Executivă pentru Finanţarea Învăţământului Superior şi a Cercetării Ştiinţifice Universitare (UEFISCSU). Titlul proiectului: CONTRIBUŢII LA STUDIUL TEORETIC ŞI EXPERIMENTAL AL FORŢELOR ÎN MICROSISTEME BIOLOGICE ŞI MECATRONICE. Durata proiectului: 12 luni. Director de proiect: Drd. ing. Ciprian STAMATE, Universitatea Tehnică “Gheorghe Asachi” Iaşi	Director de proiect Doctorand
sept. 2007 - sept. 2009	Proiect CNCSIS cod contract nr. 33/2007, tema 22. Proiect CNCSIS cod contract nr. 77/2008, tema 33. Titlul proiectului: Polimeri Electroactivi (PEA) - O nouă clasă de actuatori neconvenţionali. Autoritatea Contractantă: Consiliul National al Cercetării Științifice din Învățământul Superior (CNCSIS). Contractor: Universitatea Tehnică „Gh. Asachi” din Iaşi Director proiect: conf.dr.ing. Gheorghe PRISĂCARU Durata proiectului: 24 luni,	Membru colectiv cercetare. Doctorand
sept. 2006 – sept. 2008	Proiect P-CD modul I/2006, CEEX, contract nr. 205/20.07.2006, Titlul proiectului: Sisteme mecatronice mobile inteligente cu impact ecologic pentru echipamente textile. SYMTEX. Director de proiect: Conf. dr. ing. Lucian C. HANGANU, Autoritatea contractantă: Agenţia Managerială de Cercetare Ştiinţifică, Inovare şi Transfer Tehnologic – POLITEHNICA Bucureşti, Contractor: Universitatea Tehnică “Gheorghe Asachi” din Iaşi	Doctorand
feb. 2003 – mai 2003	Bursă SOCRATES-ERASMUS: Université Libre de Bruxelles, Faculté des Sciences Appliquées, Responsabili de proiect: România – Prof.univ.dr.ing. Dumitru OLARU Prof.univ.dr.ing. Ioan DOROFTEI Belgia – Prof. André PREUMONT	Masterand stagiar

L. <u>Premii, distincţii.</u>

1. PN-II-RU-PRECISI-2014-8-6047, lucrare premiată de UEFISCDI, pentru articolul: „The influence of the lubricant viscosity on the rolling friction torque”, Bălan M.R.D., Stamate V.C., Houpert L., Olaru D.N., Tribology International, Vol.72, pp1-12, DOI:10.1016/j.triboint.2013.11.017, ISSN: 0301-679X, IF:2,124/2013.
2. Premiu UEFISCDI - Subprogram 1.1 - Resurse Umane - Premierea rezultatelor cercetării - Articole, Competiția 2009. Articole publicate în anul 2009, acordat pentru articolul HEMA Based co-Polimer as a Future Material in Intervertebral Disc Replacements, autori: Stamate Creţan M, Grigoraş Şt, Hanganu LC, Stamate C, Hanganu C, Munteanu Fl.

M. <u>Alte realizări semnificative.</u>

Data completării:
03.03.2025

Semnătura:
Conf.univ.dr.ing. Ciprian STAMATE

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **STANCIU TUDOR**

A. Teza de doctorat.
Titlul tezei: Contribuţii la creşterea competitivităţii în domeniul învăţământului ingineresc
Instituţie: Universitatea Tehnică "Gheorghe Asachi" din Iași
Anul susţinerii tezei de doctorat: 2006

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. Stanciu T., Nițucă C., (2006), Didactics of technical subjects, Ed. TEHNICA-INFO, Chișinău, ISBN 978-9975-910-13-2, (312 pg).

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

1. Stanciu T., Tofan C.M., (2023), Învățarea Continuă. Tendințe actuale și viitoare în educație și societate (TAVES), Ed. Universității „Alexandru Ioan Cuza", Iași, ISBN 978-606-714-796-4, (342 pg).
2. Stanciu T., (2023), Viitorul Educației Inginerești, Ed. Universității „Alexandru Ioan Cuza", Iași, ISBN 978-606-714-796-4.
3. Tofan C.M., Stanciu T., (2023), Relevanța diferențelor de gen în procesul de predare învățare, Ed. Universității „Alexandru Ioan Cuza", Iași, ISBN 978-606-714-796-4.
4. Gouveia J., Stanciu T., (2023), Exploatarea resurselor IT în educație, Ed. Universității „Alexandru Ioan Cuza", Iași, ISBN 978-606-714-796-4.
5. Tiron E., Stanciu T., (2019), Teoria și Metodologia Instruirii. Teoria și Metodologia Evaluării, Ed. Didactică și Pedagogică, București (280 pg).
6. Stanciu Tudor (2021)- Methodology of Project Management Development and Organization of International Projects. A practical guide with study cases in education, Domeniu: Filosofie şi Ştiinţe sociale / Educaţie, Colecţie: Ştiinţele Educaţiei, ISBN: 978-606-714-603-5, Nr. pagini: 204, Editura Universitatii A.I.Cuza din Iași.
7. Stanciu Tudor, Dezvoltarea gândirii critice la studenți pentru evaluarea mesajelor False, capitol in cartea FENOMENUL FAKE NEWS. Mecanisme psihologice și sociale, autori: Cristina Maria Bostan, Alexandra Maftei (coord.), 300pg, într-un tiraj de 1000 exemplare, la Editura INSTITUTUL EUROPEAN, 2021.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Stanciu T., Tiron E., Poede G., (2016), Tendințe actuale și viitoare în educație și societate – Vocea tinerei generații (TAVES 2015), Ed. PIM, Iași, ISBN 978-606-13-3541-1.
2. Stanciu T., (2018), Lucrările simpozionului „Tendințe actuale și viitoare în educație și societate (TAVES)-Vocea tinerei generații", Vol.I, 2017, Ediția I, Iași, ISSN 2601–3010.

3. Suport curs sesiuni de formare: Nediscriminarea – egalitate de şanse în carieră ROSE AG-329, Şcoala de vară pentru elevi „Vreau să fiu student”, MECSTUD, 2022, 28 luni, 80 000 eur, director de grant IANUŞ GELU, categorie de grant SGCU-PV sesiuni de formare: Nediscriminarea – egalitate de şanse în carieră.
4. Suport curs „Meseriile viitorului” si elaborare proiect, Open Days- Ziua Portilor permanent Deschise la TUIASI, CNFIS_FDI_2023_ 0028.
5. Elaborare proiect si suport curs „Prevenirea si reducerea abandonului scolar la TUIASI” (STOP_ABANDON@TUIASI 2023).
6. Suport curs „Succesul personal”- “Bariere Ridicate Acum pentru Viitorul Elevilor la CMMI – BRAVE” organizat de Facultatea de Construcții de Mașini și Management Industrial, în cadrul Proiectului privind Învățământul Secundar (ROSE), Schema de Granturi Competitive pentru Universități - SGCU-PV, proiect AG324, 2024.
7. Elaborare material INGENIUM: module “Become an ambassador for disability. Introduction and history of deaf people and deaf education in Romania, 2023”.
8. Elaborare suport curs „Profesiile viitorului”, organizate la Colegiul Național „ Ștefan cel Mare ” din Târgu Neamț în data de 24 mai 2024 in proiectul CNFIS-FDI-2024-F-0116 cu titlul „TUIASI Universitate incluzivă”, domeniul 8.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. Tudor Stanciu- Teoria si Metodologia instruirii. Teoria si metodologia evaluarii, manual adaptat in format electronic dppd.tuiasi.ro .
2. Tudor Stanciu, Costica Nituca – Caiet de practica pedagogica desfasurata, 2022, https://dppd.tuiasi.ro/wp-content/uploads/ , (Ed. CNCS).
3. Stanciu Tudor (2024)- Analfabetism functional, metacognitie si competenta pedagogica, in cartea Paradigma constiintei ISBN 978-606-714-848-0, Ed. Univ. Cuza, Iasi, 2024.(10 autori, 250 pag)

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. Tudor Stanciu, VALY ILIEŞ, (2020), “A Pedagogical Approach to Traditional Chinese Medicine”, Universitatea tehnică „Gh. Asachi” din Iaşi, Buletinul Institutului Politehnic , Volumul 66 (70),Nr.1-2, sectia Ştiinţe Socio-Umane,Editura POLITEHNIUM, Iaşi, România, p.43 (CEEOL).
2. Tudor Stanciu, C. Nituca, Chiriac G., Plesca A.,(2018)“Coherence and Continuity in the Continuing Education of Electrical and Energetic Field Teachers from the Pre-University Environment”, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), DOI: 10.1109/ICEPE.2018.8559926.
3. Stanciu T., (2018), Factori care influenţează performanţa în educaţie (engl.,rez. rom.), Buletinul Institutului Politehnic din Iasi, Volumul 64 (68), Numărul 3-4, pg 27-32., http://www12.tuiasi.ro/users/58/SOCIO%20UMANE%203-4%20pe%202018.pdf.
4. Stanciu, T. et al., (2014), "Success Elements Analysis of International Engineering and Educational Projects", Applied Mechanics and Materials, Vol. 659, pp. 611-616, 2014 Applied Mechanics and Materials (Volume 659), 10.4028/www.scientific.net/AMM.659.611, ISSN: 1662-7482, SCImago Journal & Country Rank (SJR) www.scimagojr.com.,Inspec (IET, Institution of

Engineering Technology) www.theiet.org.,Chemical Abstracts Service (CAS) www.cas.org., Google Scholar scholar.google.com., NASA Astrophysics Data System (ADS) http://www.adsabs.harvard.edu/., Cambridge Scientific Abstracts (CSA) www.csa.com., ProQuest www.proquest.com., Ulrichsweb www.proquest.com/products-services/Ulrichsweb.html., EBSCOhost Research Databases www.ebscohost.com/., CiteSeerX citeseerx.ist.psu.edu., Zetoc zetoc.jisc.ac.uk., Index Copernicus Journals Master List www.indexcopernicus.com., WorldCat (OCLC) www.worldcat.org.

5. Jicmon, A.C., Stanciu, T., (2016), Communication Tools in Adult Education Policies, la Conferinţa Internaţională Discourse and communicative interaction, ISBN 978-973-621-455-4 publicată in volumul cu acelaşi nume de la Editura Politehnium,, Iaşi, pag.352-358, Baze de date, www.worldcat.comhttp://old.uefiscdi.ro/userfiles/file/CENAPOSS/Edituri_arhiva_2010.pdf ; http://www.tuiasi.ro/publicatii/politehnium/
6. Sjolin, J., Stanciu, T., (2016), Communication & Cultural Influence in Education:Business In Terms of a Multinational Approach, la Conferinţa Internaţională Discourse and communicative interaction, ISBN 978-973-621-455-4 publicată in volumul cu acelaşi nume de la Editura Politehnium,, Iaşi, pag.582-590, Baze de date, www.worldcat.com, http://old.uefiscdi.ro/userfiles/file/CENAPOSS/Edituri_arhiva_2010.pdf http://www.tuiasi.ro/publicatii/politehnium/
7. Stanciu T., Baula M., Lupu A.M., Salihu M., Siegenthaler O., Zadovei E.P., (2016), Compararea curriculei la geometrie pentru copii cu vârste de 8 şi 10 ani între România şi Elveţia franceză, Universitatea tehnică „Gh. Asachi" din Iaşi, Buletinul Institutului Politehnic , Volumul 62 (66),Nr.4, sectia Ştiinţe Socio-Umane, Editura Politehnium, Iaşi, România, p.51 (CEEOL)
8. Gouveia J., Stanciu T., Sjolin J., Policy of knowledge management in universities. From theory to practice, Scientific Papers. Series D. Animal Science, Vol. LV, ISSN 2285-5750, ISSN CD-ROM 2285-5769, ISSN-L 2285-5750, ISSN Online: 2393 – 2260, http://animalsciencejournal.usamv.ro/index.php/scientific-papers/108-a31, INDEX COPERNICUS, CABI, DOAJ, ULRICH'S PERIODICALS DIRECTORY, OCLC (WorldCat), SCIPIO, PBN (Polish Scholarly Bibliography).
9. J. Sjolin and T. Stanciu,(2014), "Cultural Influence in Engineering Education, Business and Economics in Terms of Multinational Approach", Applied Mechanics and Materials, Vol. 659, pp. 607-610, 2014, 10.4028/www.scientific.net/AMM.659.607 ISSN: 1662-7482, SCImago Journal & Country Rank (SJR) www.scimagojr.com.,Inspec (IET, Institution of Engineering Technology) www.theiet.org.,Chemical Abstracts Service (CAS) www.cas.org., Google Scholar scholar.google.com., NASA Astrophysics Data System (ADS) http://www.adsabs.harvard.edu/., Cambridge Scientific Abstracts (CSA) www.csa.com., ProQuest www.proquest.com., Ulrichsweb www.proquest.com/products-services/Ulrichsweb.html., EBSCOhost Research Databases www.ebscohost.com/., CiteSeerX citeseerx.ist.psu.edu., Zetoc zetoc.jisc.ac.uk., Index Copernicus Journals Master List www.indexcopernicus.com., WorldCat (OCLC) www.worldcat.org.
10. CM BOSTAN-TOFAN, AC APOSTOL, RL ANDRONIC, T STANCIU, LUPU Adrian. THE PREDICTIVE ROLE OF ACADEMIC IDENTIFICATION AND TRAIT ANXIETY FOR EARLY ACADEMIC DROPOUT INTENTIONS,

Scientific Annals of the “Alexandru Ioan Cuza” University, Iaşi. New Series, 2023, SOCIOLOGY AND SOCIAL WORK Section, Volume 16, Issue 2.

11. Cristina Maria Bostan , Alexandru-Cosmin Apostol , Răzvan-Lucian Andronic , Tudor Stanciu, Ticu Constantin / Type of goals and perceived control for goal achievement over time. The mediating role of motivational persistence (https://doi.org/10.1016/j.actpsy.2022.103776; Acta Psychologica/Volume 231, November 2022, 103776; ISSN 0001-6918). Factor de impact: 1.2.
12. Bostan, Cristina Maria; Stanciu, Tudor; Andronic Răzvan-Lucian (2021), The Moderation Role of Being Valued by Teachers over the Association Between School Children Motivation and Need for Competition (Sage Open, ID: SO-20-2755.R1. https://journals.sagepub.com/home/sgo ISSN: 2158-2440, Online ISSN: 2158-2440. Sage Open indexat in Scopus si the Social Science Citation Index, DOAJ and ERIC. Factor de impact: 2.2.
13. Cristina Maria Bostan, Ticu Constantin, Tina Vrabie, Tudor Stanciu , Răzvan-Lucian Andronic, "Supporting Motivational Persistence in the Personality System in Early Academic Stages through Educational Strategies", articol in Revista Romaneasca pentru Educatie Multidimensionala, June 2021 issue (2021, Volume 13, Issue 2, pages: 223-242|), LUMEN Publishing House, Iasi, Romania & LUMEN Media Ltd, United Kingdom, https://lumenpublishing.com/ p-ISSN: 2066-7329 | e-ISSN: 2067-9270 | DOI: 10.18662/rrem, Web of Science (WOS); EBSCO; Google Scholar; ICI Journals Master List - Index Copernicus; Ideas RePeC; Econpapers; Socionet; CEEOL; Ulrich ProQuest; Cabell, Journalseek; Scipio; Philpapers; SHERPA/RoMEO repositories; KVK; WorldCat; CrossRef; J-GATE. Revista Romaneasca pentru Educatie Multidimensionala is indexed in the ICI Journals Master List database for 2019 | ICV 2019 = 83.83 (https://lumenpublishing.com/journals/index.php/rrem/article/view/3690); Factor de impact: 0.70.
14. TUDOR STANCIU, MIHAELA COJAN and BOGDAN ISTRATE, Factors That Influence an Inclusive Environment in Higher Education), nr. 3-4/2024, vol. 70 (74) din Buletinul Institutului Politehnic din Iași, secția Științe Socio-umane, la adresa https://dppd.tuiasi.ro/wp-content/uploads/2025/02/Vol.-SSU-3-4-din-2024.pdf. indexat în CEEOL https://www.ceeol.com/search/journal-detail?id=1505.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

1. Stanciu, T. et al., (2014), "Success Elements Analysis of International Engineering and Educational Projects", Applied Mechanics and Materials, Vol. 659, pp. 611-616, 2014 Applied Mechanics and Materials (Volume 659), 10.4028/www.scientific.net/AMM.659.611, ISSN: 1662-7482, SCImago Journal & Country Rank (SJR) www.scimagojr.com.,Inspec (IET, Institution of Engineering Technology) www.theiet.org.,Chemical Abstracts Service (CAS) www.cas.org., Google Scholar scholar.google.com., NASA Astrophysics Data System (ADS) http://www.adsabs.harvard.edu/., Cambridge Scientific Abstracts (CSA) www.csa.com., ProQuest www.proquest.com., Ulrichsweb www.proquest.com/products-services/Ulrichsweb.html., EBSCOhost Research Databases www.ebscohost.com/., CiteSeerX citeseerx.ist.psu.edu., Zetoc zetoc.jisc.ac.uk., Index Copernicus Journals Master List www.indexcopernicus.com., WorldCat (OCLC) www.worldcat.org.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. Stanciu T., (2018), Factori care influenţează performanţa în educaţie (engl.,rez. rom.), Buletinul Institutului Politehnic din Iasi, Volumul 64 (68), Numărul 3-4, pg 27-32., http://www12.tuiasi.ro/users/58/SOCIO%20UMANE%203-4%20pe%202018.pdf.

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Tudor Stanciu, VALY ILIEŞ, (2020), "A Pedagogical Approach to Traditional Chinese Medicine", Universitatea tehnică „Gh. Asachi" din Iaşi, Buletinul Institutului Politehnic , Volumul 66 (70),Nr.1-2, sectia Ştiinţe Socio-Umane,Editura POLITEHNIUM, Iaşi, România, p.43 (CEEOL).
2. Tudor Stanciu, C. Nituca, Chiriac G., Plesca A.,(2018)"Coherence and Continuity in the Continuing Education of Electrical and Energetic Field Teachers from the Pre-University Environment", 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), DOI: 10.1109/ICEPE.2018.8559926.
3. Stanciu T. (2023), Effect of religious beliefs on motivation for learning. A scoping review, în volumul conferinței Themes and Fundamental Ideas in the Field of Psychology and Educational Sciences, Iași, 2023.
4. Stanciu T. (2023), Metodologie educațională pentru învățare automată și calcul neural, în volumul Simpozionul Științific Național Paradigma conștiinței - abordări multi și interdisciplinare, Ediția a V-a: Spiritualitate și / sau inteligență artificială, Iași, decembrie 2023.

J. Invenţii.

K. Contracte de cercetare/granturi.

1. ROSE AG-329, Şcoala de vară pentru elevi „Vreau să fiu student", MECSTUD, 2020 -2024, 28 luni, director de grant IANUŞ GELU, categorie de grant SGCU-PV sesiuni de formare: Nediscriminarea – egalitate de şanse în carieră Valoare grant 914617 Lei, in 2024: 182.923 lei.
2. "Bariere Ridicate Acum pentru Viitorul Elevilor la CMMI – BRAVE, 2020-2024" organizat de Facultatea de Construcții de Mașini și Management Industrial, în cadrul Proiectului privind Învățământul Secundar (ROSE), Schema de Granturi Competitive pentru Universități - SGCU-PV, proiect AG324. Valoarea bugetului /2024 este de 287352,38 RON lei in 2024.
3. CNFIS-FDI-2024-F-0036 cu titlul "Dezvoltare instituțională pentru consolidarea angajabilitatii absolvenților TUIASI– TechGo3", domeniul 7, 265000 lei in 2024.
4. CNFIS-FDI-2024-F-0116 cu titlul „TUIASI Universitate incluzivă", domeniul 8; 226413,33 lei.
5. CNFIS-FDI-2024-F-0490 cu titlul „include@TUIASI-Echitate în educație și incluziune socială în comunitatea TUIASI" 400000 lei.

L. Premii, distincţii.

M. Alte realizări semnificative.

1. Director al Centrului de Consiliere și Orientare în Carieră TUIASI.
2. Membru în societăţi ştiinţifice şi profesionale:

- Eurosteps- Director cercetare;
- Asociatia pentru Psihiatrie, Educatie si Consiliere.

3. Membru în colective de redacţie ale revistelor:
   - membru stiintific la Revista SABER & EDUCAR, Centro de Investigação Paula Frassinetti, Portugalia, http://www.esepf.pt/rev/?p=estats_en.html;
   - redactor sef adjunct al Revistei de Educatie Tehnologica (Ed. Performantica, Iasi);
   - membru stiintific.
4. Membru în comitete științifice naționale/ internaţionale la conferinţe:
   -The Paradigm of Consciousness – Multi- and Interdisciplinary Approaches, 6th Edition – Contextualizing Mental Health: the Relationship between Individual, Society, Conscience/Consciousness, https://acadiasi.org/event/paradigma-constiintei-abordari-multi-si-interdisciplinare-editia-a-vi-a-contextualizarea-sanatatii-mintale-relatia-individ-societate-constienta-constiinta/ decembrie 12, 2024 - decembrie 13, 2024.
5. Organizator de manifestări ştiinţifice naţionale / internaţionale:
   - membru in comitetul de organizare: The Paradigm of Consciousness – Multi- and Interdisciplinary Approaches, 6th Edition – Contextualizing Mental Health: the Relationship between Individual, Society, Conscience/Consciousness, https://acadiasi.org/event/paradigma-constiintei-abordari-multi-si-interdisciplinare-editia-a-vi-a-contextualizarea-sanatatii-mintale-relatia-individ-societate-constienta-constiinta/ decembrie 12, 2024 - decembrie 13, 2024.
6. Referent stiintific, la Revista SABER & EDUCAR, Centro de Investigação Paula Frassinetti, Portugalia, http://www.esepf.pt/rev/?p=estats_en.html, revista BDI.
7. Conducere cercuri ştiinţifice studenţeşti: simpozion stiintific TAVES 2024 (26 mai 2024).
8. Organizarea de excursii de studii, prezentarea ofertei educaționale a universității:
   - Prezentarea universitatii, la CC TUIASI Counseling Center, 2023.
   - „IUF - International University Fair - Romania", în Palas Mall Iași. (Peste 200 de elevi au vizitat standul Universității, beneficiind de servicii de orientare vocațională oferite de de Centrul de Consiliere TUIASI.).
   - 29 și 30 mai 2024,"Edu Tech Fest", un eveniment organizat de compania Quartz Matrix în parteneriat cu Universitatea Tehnică "Gheorghe Asachi" din Iaşi adresat tinerilor, unde peste 200 elevi de liceu au aflat informații despre ofertele educaționale ale TUIASI.
   - „Profesiile viitorului", organizat la Colegiul Național „ Ștefan cel Mare " din Târgu Neamț în data de 24 mai 2024.
   - webinarul "Unde îți cauți primul job?" la care au participat 5 angajatori de interes pentru studenții cu dizabilități sau provenind din medii dezavantajate și peste 100 de studenți TUIASI.
   - "TUIASI Universitate Incluzivă" la care au participat studenți TUIASI, elevi ai Liceului Tehnologic special "Vasile Pavelcu" și reprezentanți ai AGLT Iași.
   - 11-12 mai 2024 - Interact Iasi, Meet Your Future, prezentare pentru toate liceele din Iasi, organizata la Universitatea de Medicina Gr Popa, Iasi, in data de 11 mai si cu vizitarea universitatii in data de 12 mai 2024.

Data: aprilie 2025

Nume, prenume: STANCIU Tudor

Semnătura .....

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Tăbăcaru R. Liviu-Lucian -.

1º Teza(-ele) de doctorat (T1, T2)
T1 Studiul comparativ între honuirea şi vibrohonuirea suprafeţelor interioare de revoluţie, scurte.Conducator ştiinţific prof. univ.dr. ing. O.V. Pruteanu.

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

Ca	**Carte/ curs/ manual publicată în străinătate**
	Ca1 *Repararea şi întreţinerea utilajului din industria alimentară* I.D. Cebotărescu, Dr. Paraschiv, G. Ganea, Al. Marin, D. Cozma, **L. Tăbăcaru** Editura Universitas, Chişinău, 1993, ISBN: 5-362-01043-3, nr. pag. 360
	Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)
	Ca2 *Deformarea plastica la rece a inelelor de rulmenti* Petre Leonte, O.V. Pruteanu, C.Carausu **L.Tabacaru** Editura ModTech ISBN 978-606-92474-4-0 Iasi 2011 nr. pag. 209.
	Ca3 *Managementul tehnologiilor de fabricatie*, **L. L Tabacaru**, O.V. Pruteanu Edirura Politehnium, Iasi 2010, ISBN 978-973-621-294-9 nr.pag. 350...
	Ca4 *Performanta in proiectare cu SOLID EDGE ST si managementul datelor tehnice in conceptia produselor* G. Musca si **L. Tabacaru** Editura PIM 2010 ISBN 978-606-13-0120-1 nr. pag 368
	Ca5 *Prelucrarea filetelor* O.V. Pruteanu C.Carausu, A.Stanciu, **L. Tabacaru**, Editura ModTech Iasi ISBN 978-606-92474-1-9 2010 nr. pag. 183
	Ca6. *Procedee de netezire a suprafetelor interioare prin honuire si vibrohonuire* **L.L Tăbăcaru**, Editura PIM Iasi 2009, ISBN: 978-606-520-613-7, nr. pag. 202;
	Ca7 *Cresterea competitivitatii companiilor folosind proiectarea asistata de calculator si managementul datelor pe intreaga durata de dezvoltare a produsului* . Musca, G., Merticaru, V., Ciofu, C., Carausu, C., **Tabacaru, L**., Musca, E., Iosup, M.,Editura PIM, Iasi, 2008,ISBN 973-714-918-2 pag. 1-60 Definirea conceptului PLM si implementarea unei solutii PLM la interfata dintre cercetarea academica si mediul economic
	Ca8 *Conceptia si managementul tehnologiilor de fabricatie*. **L.L Tăbăcaru**, O.V.Pruteanu Editura Junimea 2007, ISBN: 978-973-37-1210-7, nr. pag. 217
	Ca9 *Tehnologia reparării şi asamblării maşinilor*. Dr. Paraschiv, I. Sîrbu, **L. Tăbăcaru** Editura Junimea Iaşi 1999, ISBN: 973-37-0478-4, nr. pag. 122
I	**Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)**
	I1 L. Slătineanu, C. Bohosievici, T. Grămescu, D. Paraschiv, G. Muscă, O, Dodun, Ghe. Nagîț, D. Nedelcu, L.L Tăbăcaru, C.Cărăușu, Ghe. Crețu, V. Merticaru, M. Coteață, M. Boca, M.A. Mihalache, M Rîpanu - Aplicații de Ingineria Fabricației, Editura PIM, Iași 2021
	I2 *Managementul Fabricatiei in IMM-uri. Indrumar de aplicatii*. **L.L. Tabacaru** Iasi 2013 Editura PIM ISBN 978-606-13-1251-1 nr.pag.332
	I3. *Managementul Fabricatiei in IMM-uri. Lucrari aplicative*. **L. Tabacaru** Iasi 2009 Editura PIM ISBN 978-606-520-649-6 nr.pag. 140
	I4 *Îndumar laborator pentru grafică asistată de calculator* L. Segal, **L. Tăbăcaru**, C. Racocea Rotaprint Iaşi 1995, nr. pag. 224
D	**Sisteme de laborator funcţionale**
	D1 Consideratii teoretice si practice privind influenta parametrilor regimului de lucru asupra rugozitaţii suprafetei laoperatia de honuire.
	D2 Consideratii teoretice si practice privind influenta parametrilor regimului de lucru asupra abaterilor de forma la operatia de honuire.
	D3 Consideratii teoretice si practice privind influenta parametrilor regimului de lucru asupra

	rugozitaţii suprafetei laoperatia de vibrohonuire.
	D4 Consideratii teoretice si practice privind influenta parametrilor regimului de lucru asupra abaterilor de forma la operatia de vibrohonuire.
	D5. Întocmirea unui proiect finanţat de Uniunea Europeană
	D6. Managementul proiectării unui dispozitiv de vibrohonuit prin intermediul MS Project
	D7. Conceperea şi proiectarea unui dispozitiv de vibrohonuit piese cu gabarit redus
	D8. Metode de planificare şi programare a activitaţilor de producţie
W	**Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.**
	W1 Tabacaru L – Tehnologii de Fabricație curs format electronic 2023
	W2 *Conceptia si managementul tehnologiilor de fabricatie*. **L.L Tăbăcaru**, curs format pdf. web : http://www.cm.tuiasi.ro/docs/CMTF%20COMPACT.pdf
	W3 *Managementul tehnologiilor de fabricatie* **L.L. Tăbacaru** si O.V :Pruteanu curs format pdf. web : http://www.cm.tuiasi.ro/docs/MTF_COMPACT.pdf

3º Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

Cb	**Carte de specialitate publicată în editură din străinătate**
	Cb1 *Lubrificatie. Notiuni de baza si aplicatii*. **L.L, Tăbăcaru**, D.N. Olaru Editura Tehnica – Info Chişinău 2003, ISBN: 9975-63-220-3, nr. pag. 250;
	Cb2 *Honuirea şi Vibrohonuirea. Studiu comparativ*. **L.L Tăbăcaru**, O.V.Pruteanu. Editura Tehnica – Info Chişinău 2000, ISBN: 9975-910-97-1, nr. pag. 215
	Carte de specialitate/ capitol publicat în editură din ţară, recunoscută CNCS
	Cb3 *Tehnologii de obtinere a materialelor composite*, D,Nedelcu, I,Carcea, G,Neagu, R, Zagan,**L.L, Tăbăcaru**, C. Predescu Editura Politehnium, Iasi 2009, ISBN: 978-973-621-288-8, nr. pag. 252;
R	**Articol publicat în revistă cotată ISI, cu factor de impact**

R1. Slatineanu, O Dodun, G Nagîţ, M Coteaţă, **L Tăbăcaru,** Evaluation of the surface profile obtained by abrasive
IOP Conference Series: Materials Science and Engineering 444 (3), 032005 2018
R2. L Tăbăcaru, G Muscă, A Dzedzid Experimental research on the elastic deformation mode of 1C45 (1.0503) rolled steel fastened between the centers of an universal lathe MATEC Web of Conferences 178, 01010 2018
R3. G Musca, AM Mihalache, **L Tabacaru,** Development of E-learning systems in technical universities, MATEC Conferences 178, 07004 2018
R4. G Nagîţ, L Slătineanu, V Merticaru, MI Rîpanu, AM Mihalache, **L Tăbăcaru,** Analysis of a Device for Textu Burnishing Using Principles from Axiomatic Design, MATEC Web of Conferences 127, 01021 2017

R5. LL Tabacaru, E Axinte, G Musca Experimental Research on the Elastic Deformation Mode of S235JR Rolled Steel Fastened between the Centers of a Universal Lathe IOP Conference Series: Materials Science and Engineering 161 (1), 012050 2016
R**6.** G Musca, A Mihalache, L Tabacaru Increase Productivity and Cost Optimization in CNC Manufacturing IOP Conference Series: Materials Science and Engineering 161 (1), 012019 2016
R7. Daniela Suteu, Carmen Zaharia, Catalin Popovici, Teodor Malutan, Lacramioara Rusu, **Lucian Tabacaru** *Wood waste as a renewable source of energy*
http://omicron.ch.tuiasi.ro/EEMJ/issues/vol15/vol15no1.htm 2016 (ISI) ISSN 1582- 9596 factor de impact 1,065
R8 . Eugen M. Axinte, Yan Wang, Lucian L. Tabacaru and Neyara Radwan. , 9(1): 2 - 19
DOI: 10.2174/1874464809666160407212236 - See more at:
http://benthamscience.com/journal/contents.php?journalID=rpmats&issueID=141443#sthash.smrAs9xY.dpuf
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http://benthamscience.com/journal/contents.php?journalID=rpmats&issueID=141443#sthash.smrAs9xY.dpuf
R9. Kevin L. Edwards, Eugen Axinte, **Lucian L. Tabacaru** *A critical study of the emergence of glass and glassy metals as "green" materials* PII: S0261-3069(13)00278-1DOI
http://dx.doi.org/10.1016/j.matdes.2013.03.070
http://www.sciencedirect.com/science/journal/aip/02613069 Reference: JMAD 5299 Materials and Design 2013 (ISI) ISSN 0261-3069 factor de impact 2,9

R10. Lucian TABACARU, Octavian PRUTEANU, Constantin CĂRĂUŞU, Traian GRĂMESCU *Influence of the driving roll speed on the roughness and shape deviations of the running tracks of cold worked bearing ringsn* Revista Metalurgia International, vol XIV 2009, Special Issue no.17 pag. 18-23, ISSN 1582-2214, Revista ISI, factor de impact relativ 0,14799

R11. Constantin CĂRĂUŞU, **Lucian TABACARU**, Octavian PRUTEANU, Traian GRĂMESCU *Influence of deformation forces on the roughness and shape deviations of surfaces processed through cold working* Revista Metalurgia International, vol XIV 2009, Special Issue no.17 pag. 13-18, ISSN 1582-2214, Revista ISI, factor de impact relative 0,14799

R12. Dumitru NEDELCU, **Lucian Liviu TABACARU**, Petru DUSA, Ioan CARCEA, Viorel COHAL, *Experimental researches regarding the samples from composite material with particles reinforcement*, Revista Metalurgia International, pag. 65-69, ISSN 1582-2214, Revista ISI, factor de impact relative 0,14799.

R13. Dumitru NEDELCU**,** Romeo CHELARIU, **Lucian Liviu TABACARU**, *Some considerations about the analyzing of traction break surface of reinforcement composite material with Si-C particles*, Revista Metalurgia International, pag. 69-72, ISSN 1582-2214, Revista ISI, factor de impact relative 0,14799.

R14. Tabacaru, L.L, *The influences of working parameters on precision in processing of short, interior, circular honing, process of pieces made of cast irom 200 (SR ISO 185-94***) ,** , The 19th International DAAAM Symposium, Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility and Ethics, 2008, Trnava-Slovacia, Annals of DAAAM and Proceedings Index to Scientific & Technical Proceedings of Thomson Scientific, pp. 1344-1346, ISSN 1726-9679 (ISI, IDS Number BIU04)

	R15. Tabacaru, Lucian , Nedelcu, Dumitru**,** *The influence of working parameters on precision in processing by circular vibro-honing, processing of pieces made of cast IRON 200,* The 19th International DAAAM Symposium, Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility and Ethics, 2008, Trnava-Slovacia, Annals of DAAAM and Proceedings Index to Scientific & Technical Proceedings of Thomson Scientific, pp. 1341-1343, ISSN 1726-9679 (ISI, IDS Number BIU04
	R16. Sarbu Ionel, Carausu Constantin, Paraschiv Dragos, Pruteanu Octavian, **Tabacaru Lucian** *Influence of the Work Parameters on the Microhardness of the Cold Plastic Deformed Surfaces*, Annals of DAAAM and Proceedings Index to Scientific & Technical Proceedings of Thomson Scientific, pp. 1341-1343, ISSN 1726-9679 (ISI, IDS Number BIU04)
	R17. Nedelcu Dumitru**; Tabacaru Lucian**; CIOBANU Romeo-Mihai; & CRETU, Gheorghe, *Some aspects concerning the measuring of forces for deformation different profiles of composite materials* The 19th International DAAAM Symposium, Intelligent Manufacturing & Automation: Focus on Creativity, Responsibility and Ethics, 2008, Trnava-Slovacia, Annals of DAAAM and Proceedings Index to Scientific & Technical Proceedings of Thomson Scientific, pp. 961-963, ISSN 1726-9679 (ISI, IDS Number BIU04)
	R18. Dumitru Nedelcu, Petru Cobzaru, **Lucian Tabacaru**, *Quality increasing and manufacturing cost reducing of shaft grooves obtained by cold plastic deformation using Taguchi method,* Advanced Technologies, Research-Development-Application, Published by the pIV pro literature Verlag Robert Mayer-Scholz, Mammendorf-Germany, pp. 691-699, 2006, ISBN 3-86611-197-5, sub egida International Journal of Advance Robotic Systems, ISSN 1729-8806.(ISI) factor impact relativ 0,375
	Articol publicat în revistă indexata in baze de date internaţionale (BDI)
	R119 G.Musca, E.Musca V.Merticaru**, L. Tabacaru** *Structure of products and implementation of CAD models in product data management system* International Journal of Modern Manufacturing Thechnologies ISSN 2067-3604 Vol II no. 2/2010 (INSPEC).
	R20. Octavian Pruteanu, Constantin Cărăuşu, Traian Grămescu & **Lucian Tăbăcaru** C*omparative study on cold plastic deformation of the raceway of the bearing rings.* International Journal of Modern Manufacturing Technologies vol.III, no. 1 pag 75-80, Politehnium Publishing House 2011, ISSN 2067-3604. (INSPEC).
	R21. Gavril Muscă, Elena Muscă, Vasile Merticaru & **Lucian Tabacaru** *Structure of products and implementation of cad models in product data management system.* International Journal of Modern Manufacturing Technologies vol.II, no. 2 pag 57-64, Politehnium Publishing House 2010, ISSN 2067-3604. (INSPEC).
	R22. Petre Leonte, Constantin Cărăusu, Octavian Pruteanu & **Lucian Tăbăcaru** *The influence of technological factors upon the form accurancy surfaces of the cold plastic deformation bearing rings* International Journal of Modern Manufacturing Technologies vol.II, no. 1 pag 37-42, Politehnium Publishing House 2010 ISSN 2067-3604 (INSPEC).
	R23. Pruteanu O., **Tabacaru L**., Carausu C., Gramescu T., *Influences of deformation feed on the roughness and shape precision of cold worked surfaces* International Journal of Modern Manufacturing Technologies vol.I, no. 1 pag 67-70, Politehnium Publishing House 2009 ISSN 2067-3604 (INSPEC).
	R24. Dumitru Nedelcu, Radu Comaneci, Romeu Chelariu & **Lucian Tabacaru** *Overview of composite material technology with si-c particles reinforcement* International Journal of Modern Manufacturing Technologies vol I no.1, pag. 54-62, Politehnium Publishing House 2009 ISSN 2067-3604 (INSPEC).
	R25. Nedelcu Dumitru, Radu Comaneci, Roman Costel, **Tabacaru Lucian**, Cretu Gheorghe, *Some aspects of the technology for obtaining the samples from composite material with particle reinforcement* The annals of "Dunărea de Jos" University of Galaţi fascicle V, technologies in machine building, ISSN 1221-4566, 2009

	R26. Cobzaru Petru, Nedelcu Dumitru**, Tabacaru Lucian**, Merticaru Vasile, *Aspecte ale cercetarilor asupra obtinerii materialelor compozite aluminiu-fibre de carbon*, Analele Universitatii Ovidius, seria inginerie mecanica, vol. X, nr.1/2008, pp. 115-120, ISSN 1224-1776 (INSPEC).
	R27. Nedelcu Dumitru, Petru Cobzaru, **Lucian Tabacaru**, Constantin Carausu *The experimentation research plan for obtaining the layers composite materials* ICMEN-1-3 oct. 2008, SALONIC GRECIA pp.357-362, ISBN 978-960-243-649-3
	Articol/studiu publicat în revistă de specialitate neindexată în baze de date
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	R29 Dumitru Nedelcu**, Lucian Tabacaru**, Petru Cobzaru, *Simularea obtinerii mostrelor de material compozit aluminiu-fibre de carbon*, Bul.Inst.Polit. Iasi, Tomul LIV (LVIII), Fasc. 1-3, Sectia Constructii de Masini, 2008, pp. 435-439, ISSN 1011-2855.
	R22 R. Ciobanu, **L. Tabacaru**, Dumitru Nedelcu, *Some aspects regarding on project risk management,* Buletinul IPI, Tomul LII(LVI), Fasc. 5 D, Sectia Constructii de Masini, pp. 1331-1334, 2006, ISSN 1011-2855
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	R24 Dumitru Nedelcu, R. Ciobanu**, L. Tabacaru**,*The management of partnership project activities focus on on-line educational process,*Buletinul IPI, Tomul LII(LVI), Fasc. 5C, Sectia Constructii de Masini, pp. 1057-1061 2006, ISSN 1011-2855
	R31 Lucian Tabacaru, R. Ciobanu *The influence of working parameters on precision in processing of short interior, circular honing, process of pieces made of cast iron 150 (SR ISO 185 – 94)* Buletinul IPI, Tomul LII(LVI), Fasc. 5A, Sectia Constructii de Masini, 2006, ISSN 1011-2855
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	R33 R. Ciobanu, **Lucian Tabacaru** *Considerations on the determination of investment in flexible manufacturing systems with industrial robotss ,*Buletinul IPI, Tomul L(LIV), Fasc. VbD, Sectia Constructii de Masini, pp. 393-397, 2004, ISSN 1011-2855
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	R35 **L. Tăbăcaru**, O. Lupescu, C. Grasu, A. Toma *Anodic Heating Of Steels In Electrolytic Plasma* Buletinul Institutului Politehnic din Iaşi. Fascicolul 1. Secţiunea V 2002
	R36 **L. Tăbăcaru**, O. Lupescu, M. Baciu, C. Grasu *Structural And Properties Changes In The Outer Layer Of The Steels Heat Treated In Electrolytic Plasma* Buletinul Institutului Politehnic din Iaşi. Fascicolul 1. Secţiunea V 2002
	R37 M. Baciu, L. Octavian, **L. Tăbăcaru**, I. Mălureanu, Gh. Ştrobel, C. Baciu *Cercetări privind eliminarea zonelor dure din oţelul 42MoCr11, utilizat la fabricarea roţilor dinţate pentru liniile de etirare* Buletinul Institutului Politehnic din Iaşi. Fascicolul 1. Secţiunea V 2002
	R38 G. Muscă, E. Muscă, **L. Tăbăcaru** *Intelligence artificielle et bases de connaissance outils de conception pour la fabrication* Buletinul Institutului Politehnic Iaşi. Tomul XLVIII, sect. V 2002, (4 pag.) 357-360
	R39 D. Nedelcu, **L. Tăbăcaru** *Optimization strategy for forming exterior grooves using cold plastic deformation process* Buletinul Institutului Politehnic din Iaşi, tomul XLVI(L), supliment II, 2000, 53-58
	R40 G. Muscă, **L. Tăbăcaru**, D. Ghenghea *Conception d'un logiciel pour optimizer l'emplacement de pieces de tolerie.* Buletinul Institutului Politehnic din Iaşi, tomul XLIV, supliment I, secţiunea I, 1998, 405-408

	R41**L.L Tăbăcaru**, O.V. Pruteanu *The influence of working parameters on quality roughness in vibro-honing of interior, circular short surface for pieces made of cast iron 150 (SR ISO 185 - 94)* Buletinul Institutului Politehnic din Iaşi. Publicat de Universitatea Tehnică "GH. Asachi" Iaşi. Tomul XLIV (XLVIII), supliment I, secţia V, Construcţii de maşini, 1998, 297-301
	R42 **L.L.Tăbăcaru,** O.V. Pruteanu *The influence of working parameters on surface quality in short, interior, circular honing process of pieces made of cast iron 150 (SR ISO 185 - 94*) Buletinul Institutului Politehnic din Iaşi. Publicat de Universitatea Tehnică "GH. Asachi" Iaşi. Tomul XLIV (XLVIII), supliment I, secţia V, Construcţii de maşini, 1998, 291-295
	R43 **L.L.Tăbăcaru**, O.V. Pruteanu *The influence of cutting speed on the efficiency of superfinishing* Buletinul Institutului Politehnic din Iaşi. Fasc. 1-2. Secţia V. 1995 109 - 113
	R44 **L. Tăbăcaru**, M. Chişter, I. Sârbu, D. Nedelcu *Contributii la prelucrarea datelor experimentale la prelucrarea cu pinza abraziva a materialului 41 CrNi* Revista "Construcţii de Maşini" - nr. 8-9, august-septembrie 1994, 69 - 73
	R45 D. Nedelcu, R. Dumitru, **L. Tăbăcaru**, I. Sârbu *Aspecte ale influenţei unor parametrii ai regimului de lucru asupra gradului de acoperire la vibrohonuirea interioară* Revista "Construcţii de Maşini" - nr. 8-9, august-septembrie 1994,15 - 19
	R46 D. Nedelcu, **L. Tăbăcaru**, L. Slătineanu *Aspecte privind proiectarea profilului electrodului-sculă, la prelucrarea prin eroziune electrică a unei suprafeţe prismatice* Revista "Construcţii de Maşini" - nr. 8-9, august-septembrie 1994, 22 - 26
	R47 I. Sârbu, D. Nedelcu, **L. Tăbăcaru** *Dispozitiv de vibronetezire cu acţionare electromagnetic* Revista "Construcţii de Maşini" - nr. 8-9, august-septembrie 1994, 11 - 15
V	**Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)**
	V1 Tabacaru, Lucian , Nedelcu, Dumitru**,** Octavian Pruteanu, Constantin Carausu, Ionel Sarbu *The influence of working parameters on precision in processing by short, interior, circular vibro-honing, processing of pieces made of cast IRON 250* Proceedings of The 14 th International Conference "Modern Tehchnologies, Quality and Innovation" Iasi Chisinau Belgrad ModTech 2010 – New face of T.M.C.R. 20-22 May, 2010 Slanic Moldova Romania. ISSN 2066-3919
	V2. Ionel Sarbu, **Lucian Tabacaru** *Influence of working parameters on the deviation from circular shape of the outer toroidal surface superpolishing* Proceedings of The 14 th International Conference "Modern Tehchnologies, Quality and Innovation" Iasi Chisinau Belgrad ModTech 2010 – New face of T.M.C.R. 20-22 May, 2010 Slanic Moldova Romania. ISSN 2066-3919
	V3. Ciprian Dumitru Ciofu, **Lucian Tabacaru**, Constantin Carausu, Mihai Tataru *Computer aided design of an modular milling gear hob* Proceedings of The 14 th International Conference "Modern Tehchnologies, Quality and Innovation" ModTech 2010 – New face of T.M.C.R. 20-22 May, 2010 Slanic Moldova Romania. ISSN 2066-3919
	V4. Cristinel Badea, Remus Zagan, **Lucian Tabacaru**, Dumitru Nedelcu *Experimental research concerning the elimination of microbiological agents in water purification processes with UV radiation* Proceedings of The 14 th International Conference "Modern Tehchnologies, Quality and Innovation" Iasi Chisinau Belgrad ModTech 2010 – New face of T.M.C.R. 20-22 May, 2010 Slanic Moldova Romania. ISSN 2066-3919
	V5. Octavian Pruteanu, Cristina Hatnean, Constantin Carausu, **Lucian Tabacaru** *The influence of working parameters on the roughness of external surfaces of shafts machined by honing* Proceedings of The 14 th International Conference "Modern Tehchnologies, Quality and Innovation" Iasi Chisinau Belgrad ModTech 2010 – New face of T.M.C.R. 20-22 May, 2010 Slanic Moldova Romania. ISSN 2066-3919
	Articol/studiu publicat în volumul unei manifestări ştiinţifice neindexate în baze de date
	V6 Pruteanu O, Carausu C, **Tabacaru L.** Researches regarding the honing of cylindrical external surface by olc 45 steel **«Машиностроение и техносфера XXI века»** и съезда **Международного союза машиностроителей**, город **Севастополь, 2010**
	V7 D. Nedelcu, D. Mindru, **L.Tabacaru**, GH. Cretu *Some aspects regarding the simulation of two-component injection precess*. The 2 nd International Conference on Polymers Processing in Engineering

	PPE 2009 Dunarea de Jos Uninersity of Galati ISSN 2066-9984
	V8 G.Musca, V.Merticaru, C.Ciofu, C .Carausu, **L.Tabacaru**, E. Musca, M. Iosip, *Definirea conceptului PLM si implementarea unei solutii PLM la interfata dintre cercetarea academica si mediul economic.* Simpozionul National "Proiectare Asistata in Industria Mecanica" Iasi 2008
	V9 Dumitru Nedelcu, **Lucian Tabacaru** and Petru Cobzaru *The simulation technology for obtaining the samples from composite material aluminum-carbon fibers* TMCR IASI 2008
	V10 Nedelcu Dumitru**, Tabacaru Lucian**, Merticaru Vasile, *The preventive management of innovation-research projects for obtaining the composite material using the liquid foundry,* Conferinta Internationala Masini si Tehnosfera 2008, Donetsk-Ucraina, pp. 191-195, ISBN 966-7907-23-6.
	V11 M. Baciu, **L. Tăbăcaru**, C. Baciu *Improvement of surface quality of steels by means of super-alloying technologies in electrolytic plasma of the superficial layer.* Conferinţa internaţională "Tehnologii moderne, calitate, restructurare", TMCR, Chişinău 2003, ISBN 9975-9748-0-5;
	V12 M. Baciu, **L. Tăbăcaru**, C. Baciu *Influence of the technologies of super-alloying in electrolytic plasma of the superficial layer of steels on the anodic dissolution process* Conferinţa internaţională "Tehnologii moderne, calitate, restructurare", TMCR, Chişinău 2003, ISBN 9975-9748-0-5;
	V13 Ciobanu Romeo-Mihai, **L. Tăbăcaru** *Comparative analysis between the human operator and the industrial robot concerning the time utilization*International Science and Engineering Conference Machine-Building and Technosfhere of the XXI century – sept. 8 – 13th 2003 Sevastopol
	V14 Ciobanu Romeo-Mihai, **L. Tăbăcaru** *Value analysis and engineering – a key way of the objects conception and design* Conferinţa internaţională "Tehnologii moderne, calitate, restructurare", TMCR, Chişinău 2003, ISBN 9975-9748-0-5;
	V15 Ciobanu Romeo-Mihai, **L. Tăbăcaru** *Project management – an approach for the small and medium enterprises development.* Conferinţa internaţională "Tehnologii moderne, calitate, restructurare", TMCR, Chişinău 2003, ISBN 9975-9748-0-5;
	V16 **L. Tăbăcaru**, Romeo-Mihai Ciobanu *The influence of working parameters on quality roughness in vibro-honing of interior, circular short surface for pieces made of cast iron 350 (SR ISO 1083-93).* Conferinţa internaţională "Tehnologii moderne, calitate, restructurare", TMCR, Chişinău 2003, ISBN 9975-9748-0-5
	V17 **L. Tăbăcaru**, Romeo-Mihai Ciobanu *The influence of working parameters on surface roughness in short, interior, circular honing, process of pieces made of cast iron 350-22 (SR ISO 1083-93).* Conferinţa internaţională "Tehnologii moderne, calitate, restructurare", TMCR, Chişinău 2003, ISBN 9975-9748-0-5;
	V18 M. Baciu, O. Lupescu, **L. Tăbăcaru**, I. Mălureanu, Gh. Ştrobel, C. Baciu *Cercetări privind eliminarea zonelor dure din oţelul 42MoCr11, utilizat la fabricarea roţilor dinţate pentru liniile de etirare*. Conferinţa Internaţională "Tehnologii moderne, calitate, restructurare", TMCR 2001, p. 285-288, Chişinău 2001, ISBN 9975-9638-2-X.
	V19 M. Baciu, **L. Tăbăcaru**, V. Caţarschi, C. Baciu, V. Despa. *Researces of the Structure of OLC 15 and Steels Heat Treated and Thermochemical Treated in Electrilytic Plasma* The 10-th International Metallurgical Symposium, METAL '2001, Ostrava (Rep. Cehia), 2001, ISBN 80-85988-56-9
	V20 M. Baciu, **L. Tăbăcaru**, D.G. Găluşcă, V. Caţarschi, C. Baciu *Researches Concerning the Wearing Behavior of Steels 40 Cr 10 and OLC 55 Heat Treated and Thermochemical Treated in Electrolytic Plasma* The 10-th International Metallurgical Symposiu
	V21 **L. Tăbăcaru**, O. V. Pruteanu *Contribuţii teoretice şi experimentale privind influenţa parametrilor regimului de lucru asupra rugozităţii suprafeţei la vibrohonuirea suprafeţelor interioare de revoluţie, scurte din fontă 250 (SR ISO 185-94).*Conferinţa internaţională TMCR 2002 Iaşi
	V22 **L. Tăbăcaru**, O. V. Pruteanu *Contribuţii teoretice şi experimentale privind influenţa parametrilor regimului de lucru asupra rugozităţii suprafeţei la honuirea suprafeţelor interioare scurte din fontă 250 (SR ISO 185-94)*Conferinţa internaţională TMCR 2002 Iaşi
	V23 M. Baciu, **L. Tăbăcaru**, C. Baciu, R. Comăneci, O. Lupescu, *Austenitometru bazat pe metoda*

	ponderomotoare. Conferinţa Internaţională "Tehnologii moderne, calitate, restructurare", TMCR 2001, p. 277-280, Chişinău 2001, ISBN 9975-9638-2-X.
	V24 **L. Tăbăcaru**, M. Baciu, O. Lupescu, R. Comăneci, C. Baciu, Gh. Ştrobel *Cercetări privind aprecierea fiabilităţii în exploatare a oţelurilor pentru tubulatura de abur viu din centrale termoelectice*. Conferinţa Internaţională "Tehnologii moderne, calitate, restructurare", TMCR 2001, p. 281-284, Chişinău 2001, ISBN 9975-9638-2-X.
	V25 **L. Tăbăcaru**, O. V. Pruteanu *Contribuţii teoretice şi experimentale privind influenţa parametrilor regimului de lucru asupra rugozităţii suprafeţei la vibrohonuirea suprafeţelor interioare de revoluţie, scurte din fontă 200 (SR ISO 185-94).* Conferinţa internaţională TMCR 2000 Iaşi
	V26 **L. Tăbăcaru**, O. V. Pruteanu *Contribuţii teoretice şi experimentale privind influenţa parametrilor regimului de lucru asupra rugozităţii suprafeţei la honuirea suprafeţelor interioare scurte din fontă 200 (SR ISO 185-94)* Conferinţa internaţională TMCR 200O Iaşi
	V27 G. Musca **L Tabacaru** *Program pentru optimizarea croirii materialelor (CROMAT*) Sesiunea internationala de comunicari stiintifice , catedra TCM 1996 vol 1 pag 233 237
	V28 **L. Tăbăcaru**, I. Sarbu, O.V. Pruteanu. *Superfinishing process; Theoretical and experimental contributions* Al 5-lea simpozion international Maribor-Slovenia, octombrie 1994 457 – 459
	V29 I.Sârbu, **L.Tăbăcaru**, Dr.Paraschiv *Consideraţii privind superfinisarea suprafeţelor exterioare* Primul colocviul naţional tehnic interdisciplinar Brăila 1993,1, 47 - 53
	V30 I.Sârbu, **L.Tăbăcaru**, Dr.Paraschiv *Consideraţii privind vibrohonuirea suprafeţelor interioare.* Primul colocviul naţional tehnic interdisciplinar Brăila 1993,1, 34 - 40
	V31 I.Sârbu, **L.Tăbăcaru**, Dr.Paraschiv *Dispozitiv de vibrohonuit cu roţi dinţate. Soluţie constructivă* Suceava 4-6 iunie 1993, 1, 85 – 96
	V32 Dr. Paraschiv, I. Sârbu, **L. Tăbăcaru** *Aspecte privind vibronetezirea alezajelor cilindrice.* Sesiunea de comunicări ştiinţifice "Concepţie şi management în industria constructoare de maşini" 21-22 mai 1992 Iaşi, 1, 89 - 96
	V33 Dr. Paraschiv, I. Sârbu, **L. Tăbăcaru**, R. Gafiţanu, *Consideraţii privind vibrohonuirea interioară.* Sesiunea de comunicări ştiinţifice "Concepţie şi management în industria constructoare de maşini" 21-22 mai 1992 Iaşi, 1, 84 - 88
	V34 Dr. Paraschiv, I. Sârbu, **L. Tăbăcaru** *Echipament pentru vibronetezirez exterioară.* Sesiunea de comunicări ştiinţifice "Concepţie şi management în industria constructoare de maşini" 21-22 mai 1992 Iaşi, 1, 175-178
	V35 G. Muscă, C. Cărăuşu, **L. Tăbăcaru** *Analiza parametrilor procesului de finisare prin deformare plastică la rece a danturii*. Sesiunea de comunicări ştiinţifice "Concepţie şi management în industria constructoare de maşini" 21-22 mai 1992 Iaşi, 3, 82 - 88
	V36 G. Muscă, E. Muscă, **L. Tăbăcaru**, C. Cărăuşu *Programarea experimentală în vederea optimizării parametrilor unui sistem tehnologic* Sesiunea de comunicări ştiinţifice "Concepţie şi management în industria constructoare de maşini" 21-22 mai 1992 Iaşi, 3, 70 - 76
	V37 **L. Tăbăcaru**, Gv. Muscă *Studiul ecruisării superficiale. Experimentarea ecruisării obţinute prin imprimare asupra materialelor folosite în construcţia de maşini.* Sesiunea de comunicări ştiinţifice "Concepţie şi management în industria constructoare de maşini" 21-22 mai 1992 Iaşi, 3, 76 - 82

4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

P	**Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie internaţională**

	P1 Proiect Europea **FP 7** cu tema: „Achieving Real Change with Innovative Transport Measures Demonstrating Energy Savings", (**ARCHIMEDES) din cadrul Programului Cadru 7 (FP7) al Uniunii Europene,** (Call identifier FP7-SST-2007-TREN-1_28 June); **Director Lucian Tabacaru** din partea Universitatii Tehnice „ Gh. Asachi" Iasi. Valoare totala:6,5 mil euro, valoare ce revine Universitatii 78.000 euro (326.172 RON) Valoarea medie anuala contracte: 41.408
	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câştigate prin competiţie naţională sau încheiate cu institute de cercetare, companii, regii, societăţi comerciale
	P2. Proiect PN2/Programul 4-parteneriate Contract nr. 61-038/18.09.2009 Coordonator: Universitatea Tehnică „Gh. Asachi" Iaşi Tema proiectului: **Cercetari avansate privind tehnicile de eliminare a agentilor microbiologici in procese de purificare a apei utilizand radiatii UV** Director: **Lucian Tabacaru** Valoare UTI: 775.000 RON Valoare medie anuală contracte 2007: 41408 RON
	P3. Proiect INOVARE/AMCSIT Contract nr. 264/ 30.11.2008 Tema proiect : **Tehnologia de prelucrare în câmp inductiv a componentelor auto uşoare** Valoare totala contract :1.400.000 RON Valoare UTI: 200.000 RON **Lucian Tabacaru** -Membru al echipei de cercetare Valoare medie anuala 2008: 41.408 RON
	P4 Proiect INOVARE/AMCSIT Contract nr. 275/ 31.10.2008 Tema proiect : **Tehnologii de realizare a pieselor auto metalice cu straturi superficiale modificate zonal** Valoare totala contract :1.400.000 RON Valoare UTI: 200.000 RON **Lucian Tabacaru** -Membru al echipei de cercetare Valoare medie anuala 2008: 41.408 RON
	P5 Proiect Parteneriate 2008/CNMP Contract nr. 275/ 31.10.2008 Tema proiect : **Straturi compozite avansate utilizate in terotehnica, obtinute prin pulverizare termica in arc electric activat** Valoare totala contract :1.680.000 RON Valoare UTI: 520.000 RON **Lucian Tabacaru** -Membru al echipei de cercetare Valoare medie anuala 2008: 41.408 RON
	P6 Proiect Parteneriate 2008/CNMP Contract nr. 72-167/ 01.10.2008 Tema proiect **Tehnologie inovativă de obţinere şi prelucrare superficială a straturilor subţiri metalice prin modificări structurale în câmp inductiv** Valoare totala contract :1.450.000 RON Valoare UTI: 310.000 RON **Lucian Tabacaru** -Membru al echipei de cercetare Valoare medie anuala 2008: 41.408 RON
	P7 Programul Parteneriate in domeniile prioritare Finanţare: Buget de Stat - Ministerul Educaţiei, Cercetării şi Tineretului, Denumirea proiectului:**Retea formativ-colaborativă pentru conceptia asistata bazata pe managementul duratei de viata a produselor** Valoarea proiectului (include şi alte surse atrase): **1.967.500**.lei Valoarea contractului (sursa numai buget de stat): **1.800.000.** lei Durata contractului:.**36**. luni **Lucian Tabacaru** -Membru al echipei de cercetare Valoare UTI: 900.000 RON Valoare medie anuală contracte 2007: 41.408 RON

	P8 Contract CEEX nr. 6151/sept. 2006 – „Managementul proiectelor”- modul 2; beneficiar MEC. Valoare 18.000 RON. **Lucian Tabacaru** -Membru al echipei de cercetare Valoare medie anuală contracte 2006: 24.949,2 RON
	P9 Contract CEEX nr. 6150/sept. 2006 – „Managementul proiectelor”, beneficiar MEC. Valoare 180.000 RON. **Lucian Tabacaru** -Membru al echipei de cercetare Valoare medie anuală contracte 2006: 24.949,2 RON
	P10 Proiect CEEX/AMCSIT Contract nr. 179/2006 Tema proiectului: **Tehnologia de fabricaţie a membranelor arc-disc pentru ambreiaje auto prin tratamente termomecanice controlate pe linii tehnologice automatizate de călire cambrată** **Lucian Tabacaru** -Membru al echipei de cercetare Valoarea proiectului: 1489.000 RON Valoare UTI: 240.000 RON Valoare medie anuală contracte 2006: 24.949,2 RON
	P11 Proiect CEEX/AMCSIT Contract nr. 180/2006 Tema proiectului: **Tehnologia de fabricaţie a componentelor auto uşoare (lagăre, cuzineţi, ax, bucşe etc.) din semifabricate bimetalice obţinute din fază lichidă** **Lucian Tabacaru** -Membru al echipei de cercetare Valoarea proiectului: 1.582.000 RON Valoare UTI: 200.000 RON Valoare medie anuală contracte 2006: 24.949,2 RON
	P12 Proiect CEEX/AMCSIT Contract nr. 173/2006 Tema proiectului: **Echipament de metalizare prevăzut cu sistem inteligent Fuzzy Logic pentru comanda şi controlul procesului de pulverizare termică** **Lucian Tabacaru** -Membru al echipei de cercetare Valoarea proiectului: 1.280.000 RON Valoare UTI: 760.000 RON Valoare medie anuală contracte 2006: 24.949,2 RON
	P13 Proiect CEEX/AMCSIT Contract nr. 92/2006 Tema proiectului: **Dispozitiv de termostatare pe baza de aliaj cu memoria formei** **Lucian Tabacaru** -Membru al echipei de cercetare Valoarea proiectului: 680.000 RON Valoare UTI: 135.000 RON Valoare medie anuală contracte 2006: 24.949,2 RON
	P14 Contract CEEX 20/3.10.2005 – 24 luni – „NTPR – O nouă tehnologie privind creşterea productivităţii şi calităţii rulmenţilor”, beneficiar MEC. Valoare 14 mld. ROL (1.400.000 RON). Valoare UTI 620.000 RON **Lucian Tabacaru** -Membru al echipei de cercetare Valoare medie anuală contracte 2005: 16.793,8 RON

	P15 Proiect CEEX/AMCSIT Contract nr. 7/2005 Tema proiectului: **Straturi tip barieră termică pentru pistoanele motoarelor cu ardere internă** **Lucian Tabacaru** -Membru al echipei de cercetare Valoarea proiectului: 1.134.000 RON Valoare UTI: 700.000 RON Valoare medie anuală contracte 2005: 16.793,8 RON
	P16 Proiect CEEX/AMCSIT Contract nr. 8/2005 Tema proiectului: **Cercetări privind realizarea noii tehnologii de obţinere a sculelor de deformare plastică la rece tip ştanţe matriţe, poansoane, dornuri de tragere, scule de laminare la rece - extrudare şi organelor de maşini supuse la uzare tip tije, axe, arbori, supape de presiune, nuca pivot prin borocarbovanadizare rapidă controlată electrotermic** **Lucian Tabacaru** -Membru al echipei de cercetare Valoarea proiectului: 731.000 RON Valoare UTI: 337.500 RON Valoare medie anuală contracte 2005: 16.793,8 RON
	P17 Proiect CEEX Contract nr.33371/29.06.2004 Tema proiectului: **Program de cercetari privind rectificarea cu viteze mari de aschiere a materialelor ceramice** **Lucian Tabacaru** -Membru al echipei de cercetare Valoarea proiectului: 150.000.000 lei Valoare UTI: 6818500 lei Valoare medie anuală contracte 2004: 16793lei
	P18 Proiectul **Leonardo da Vinci** cod RO/01/B/F/PP-141119, cu titlul: *Multimedia Training Network for an Effective Development of the ICT Basis in SMEs – ICT-net,* finalizat in 2003. Valoare totala: 260.000 euro; Suma alocata pentru U.T.Iasi: 7.000 euro; **Lucian Tabacaru** -Membru al echipei de cercetare Valoare medie anuală contracte 2003: 6.818,5 RON
	P19 Contract RELANSIN 1732/2003, cu titlul : *Sistem electronic de taxare în regim fiscal şi centralizare a datelor de gestiune în transportul public de călători*. Valoare totală: 1.900.000.000 lei. Valoarea proiectului UTI: 53575 RON Valoarea medie anuală contracte 2003: 6818,5 RON **Lucian Tabacaru** -Membru al echipei de cercetare
	P20 Tema: B4 - 1997 Faza II. Contract nr. 161 - 1996 Optimizarea proiectării tehnologiilor de prelucrare mecanică prin utilizarea conceptelor proiectării asistate de calculator, posibilităţi tehnologice pentru creşterea fiabilităţii produselor. Faza II. Determinări experimentale privind influenţa regimului asupra stratului superficial. Incercări privind comportarea la uzură (la honuire şi vibrohonuire). **L. Tăbăcaru**-Membru al echipei de cercetare Ministerul Cercetării și Tehnologiei

	P21 Tema :A2 - 1998 Faza III Contract nr. 161 - 1996 act adiţional 1110/08. 98 Optimizarea proiectării tehnologiilor de prelucrare mecanică prin utilizarea conceptelor proiectării asistate de calculator, posibilităţi tehnologice pentru creşterea fiabilităţii produselor. Faza III. Influenţa parametrilor regimului de aşchiere la honuire şi vibrohonuire asupra proprietăţilor stratului superficial. **L.Tăbăcaru**-Membru al echipei de cercetare Ministerul Cercetării și Tehnologiei

Prof. dr. ing. Tăbăcaru Liviu-Lucian

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licenţă INGINERIE MECANICĂ

Nume, prenume: **TĂRNICERIU T. Carmen-Oana - Dr**. Din 2008**, conferenţiar** din 2021

1º Teza de doctorat

T1. *Controlul dinamicii populaţiei/ Control of population dynamics* , susţinută public la data de 03.08.2008 la Universitatea Alexandru Ioan Cuza din Iași, în domeniul Matematică, sub îndrumarea ştiinţifică a prof. univ.dr. Sebastian Aniţa

2º Cărţi/ cursuri/ manuale publicate în edituri recunoscute din ţară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcţionale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum şi alte lucrări (M1, M2 etc.) prin care se aduc *contribuţii la dezvoltarea activităţilor didactice/ profesionale.*

Ca	**Carte/ curs/ manual publicată în editură recunoscută CNCS (unic autor)**	**Punctaj**
	Ca1. **C.O. Tărniceriu,** *Algebră Liniară și Geometrie Analitică și Diferențială,* Editura Performantica, ISBN 978-606-685-753-6, Iaşi, 2020	**8,6**
I	**Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)**	
	I1 Matematici Speciale, îndrumar disponibil pe Web la adresa http://math.etti.tuiasi.ro:81/otarniceriu/seminarii.html	**3,76**
	I2 Analiză numerică asistată de calculator , îndrumar disponibil pe Web la adresa http://math.etc.tuiasi.ro/otarniceriu/laboratoare.html	**3,56**
	I3 *Algebră Liniară și Geometrie Analitică și Diferențială*, îndrumar disponibil pe Web: http://math.etc.tuiasi.ro/otarniceriu/cursuri.html	**4,92**
W	**Utilizarea sistemelor de predare/ învăţare/ evaluare de tip e-learning/ on-line/ multimedia etc.**	
	W1 C.O. Tărniceriu, *Matematici Speciale, http://math.etti.tuiasi.ro:81/otarniceriu/seminarii.html*	**1**
	W2 **C.O. Tărniceriu,** *Analiză numerică asistată de calculator* suport de laborator Analiză numerică asistată de calculator disponibil online la http://math.etc.tuiasi.ro/otarniceriu/laboratoare.html	**1**
	W3. **C.O. Tărniceriu,** *Algebră Liniară și Geometrie Analitică și Diferențială*, suport curs disponibil pe Web: http://math.etc.tuiasi.ro/otarniceriu/cursuri.html	**1**

3º Cărţi/ capitole cărţi de specialitate publicate în edituri recunoscute din ţară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din ţară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenţie (B1, B2 etc.), creaţii artistice prezentate la manifestări recunoscute din ţară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor ştiinţifice naţionale/ internaţionale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum şi alte lucrări (N1, N2 etc.) prin care se aduc *contribuţii ştiinţifice la dezvoltarea domeniului.*

R	**Articol publicat în revistă cotată ISI, cu factor de impact**	**Punctaj**
	R1 G.Dumont, **C.O. Tarniceriu**, *Pattern formation in a spiking neural-field of renewal neurons,* SIAM Journal on Applied Dynamical Systems, 23(4), 2670-2694, 2024.	**3**

	R2 G.Dumont, J.Henry, **C.O. Tarniceriu***, Oscillations in a fully-connected network of leaky integrate-and-fire neurons with a Poisson spiking mechanism,* Journal of Nonlinear Science, 34(1), 2024.	**2**
	R3 G.Dumont, J.Henry, **C.O. Tarniceriu***, A theoretical connection between the Noisy Leaky Integrate-and-Fire and the Escape Rate models: The non-autonomous case*, Mathematical Modelling of Natural Phenomena, DOI: 10.1051/mmnp/2020017, 2020	**2**
	R4. G. Dumont, J. Henry, **C.O. Tarniceriu**, *Noisy threshold in neuronal dynamics: Connections with leaky integrate-and-fire model*, Journal of Mathematical Biology, 2016, vol. 73, issue 6-7, pp 1413 -1436, DOI: 10.1007/s00285-016-1002-8.	**2**
	R5. G. Dumont, J. Henry, **C.O. Tarniceriu**, *Theoretical connections between mathematical neuronal models corresponding to different expressions of noise*, Journal of Theoretical Biology, 2016, vol. 406, pp. 31-41, DOI: 10.1016/j.jtbi.2016.06.022.	**2**
	R6. G.Dumont, J. Henry, **C.O. Tarniceriu**, *A Density Model for A Population of Theta-Neurons,* Journal of Mathematical Neuroscience, 4(1):2, 2014	**2**
	R7 A. Garenne, J. Henry, **C.O. Tarniceriu**, *Analysis of Synchronization in a Neural Population by a Population Density Approach*, Math. Model. Nat. Phenom. Vol. 5, No. 2, pp. 5-25, 2010	**2**
	R8 **C.O. Tarniceriu** , *Optimal Strategy for a Harvesting Problem of Population Dynamics with Logistic Term*, „Analele Ştiintifice ale Universităţii Al. I. Cuza Iaşi", 56 (fasc I), 2010, 25-38.	**6**
	R9 **C.O. Tarniceriu** , *Asymptotic behavior for a nonlinear age-structured population model with diffusion*, Analele Ştiinţifice ale Universităţii Al. I. Cuza Iaşi, fasc. 2 (Tomul LIV), 2008	**6**
	R10 S. Anita, **C.O. Tarniceriu**, *Stabilization for a periodic predator-prey system* Abstract and Applied Analysis, volume 2007, doi:10.1155/2007/86183	**3**
	Articol publicat în revistă indexata in baze de date internaţionale (BDI)	
	R11 **C.O. Tarniceriu**, *Age structure in neuronal models*, (review paper), Special Issue of the Journal „Annals of the Alexandru Ioan Cuza University of Iaşi" (new series), Mathematics, „Surveys în Mathematical Biology and Medicine. Modeling, simulations and control.", 66(2), 2020.	**3**
V	**Articol/studiu publicat în volumul unei manifestări ştiinţifice indexate in baze de date internaţionale (BDI)**	
	V1. **C.O. Tarniceriu,** V.M.Veliov , Optimal *Control for a Class of Size-Structured Systems*, Lecture Notes in Computer Science (ISI Conference Proceedings), volume 4818, Springer Verlag, 456-462,2008	**2**
E	.....	
	E1 International Conference on Applied and Pure Mathematics, November 2024, Iasi, Romania, cu lucrarea *Oscillations in a fully-connected network of leaky integrate-and-fire neurons with a Poisson spiking mechanism*	**1**
	E2 International Conference on Applied and Pure Mathematics, 31-st October - November 3, 2019, Iasi, Romania cu lucrarea *A nonlinear PDE system describing a network of neurons with Poisson spiking mechanism*	**1**
	E3 *I*nternational Conference on Applied and Pure Mathematics, November 2-5, 2017, Iasi, Romania cu lucrarea *Connections between mathematical formalizations of noise in neural dynamics*	**1**
	E4 International Conference on Applied and Pure Mathematics, November 1-3, 2013, Iasi, Romania cu lucrarea *Density Models for Populations of Neurons*	**1**
	E5 G.Dumont, J. Henry, **C.O. Tarniceriu**, *Analysis of behaviour of a neural population,* NEUROCOMP Computational Neuroscience: From Multiple Levels to Multilevel, 16-18 Sept. 2009, Bordeaux, France	**0,33**
	E6 A. Garenne, J. Henry, **C.O. Tarniceriu***, Analysis of synchronization in a neural population by a population density approach*, CMPD 3 – The Third Conference on Computational and Mathematical Population Dynamics, Bordeaux, France, May 31— June 4, 2010.	**0,33**
	E7 **C.O. Tarniceriu***, Optimal control for a size structured system,* International Exploratory Workshop on Differential Equations and Applications in Life Sciences, Iasi, Romania, September 5-7 2008	**1**
	E8 S. Anita, **C.O. Tarniceriu**, *Stabilization for a reaction-diffusion system in periodic environment*, 9-th International Symposium	**0,5**

	on Automatic Control and Computer Science, November 2007, Iasi, Romania	
	E9 K.Georgiev, **C.O. Tarniceriu**, V. Veliov, *Numerical optimal control of size structured systems*, Information days on BIS 21++ project, September 28-29, Borovets, Bulgaria	**0,33**
	E10 **C.O. Tarniceriu**, V. Veliov, *Optimal control of a class of size-structured systems*, 6th International Conference on Large-Scale Scientific Computations, Special Session on „Control Theory", June 2007, Sozopol, Bulgaria	**0,5**
	E11 **C.O. Tarniceriu**, *Optimal control of size structured population*, Conference Francophone de Modelisation Mathematique en Biologie et Medicine, July 2006, Craiova, Romania	**1**
	E12 C.O. Tarniceriu, *Optimal control of size structured population* , Viennese Vintage Workshop, November 2005, Vienna, Austria	**1**

4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum şi alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se *aduc contribuţii la dezvoltarea mediului educaţional/ cultural/ economic/ social etc.*

	Alte lucrări de proiectare-cercetare-dezvoltare	**Punctaj**
F	**F1** Expert educație (Matematică) în proiectul ROSE AG 185, *Creşterea gradului de retentie în primul an de studii universitare în inginerie electrică şi energetică prin reducerea abandonului şi creşterea promovabilității*	**21,05**

Note:

(1) Fiecare lucrare este prezentată, în limba în care a fost publicată / expusă, corespunzător structurii "I, II, III, IV, V, VI", unde:

I - indicativul (T1, T2 etc.; Ca1, Ca2 etc.; …), care se scrie "bold" la lucrările realizate după acordarea ultimului titlu didactic/ grad profesional (**Ca1**, **I1** etc., după caz);
II - autorii în ordinea din publicaţie, cu scriere "bold" **a candidatului**;
III - *titlul*, scris "italic";
IV - editura sau revista sau manifestarea şi/sau alte elemente de localizare, după caz;
V - intervalul de pagini din publicaţie, respectiv, pp …-…, numărul total de pagini, respectiv, … pg., sau alte date similare, după caz;
VI - anul sau perioada de realizare, după caz;

(2) În cadrul fiecărui grup de lucrări (Ca1, Ca2 etc.; I1, I2 etc. ; …), lucrările sunt în ordine invers cronologică;
(3) În cazul în care o grupă de lucrări nu se regăseşte în activitatea candidatului, respectiva grupă poate fi eliminată din listă;
(4) Candidaţii au libertatea să completeze lista şi cu alte grupe de lucrări.

Data:26\06\2025

Candidat: Tărniceriu Carmen-Oana

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Tcaciuc Gabriel-Dumitru

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. **Gabriel-Dumitru TCACIUC**, Ahmed ELGARAYHI, Ana-Georgiana LUPU, Aristotel POPESCU, *Comparison Between Prandtl's Mixing Length Model and DNS Data for a Channel Flow Up to* $Re_\tau \approx 5200$*,* Buletinul institutului politehnic din Iași, 68 (72), 1, 99-107, **2022**
2. **Gabriel-Dumitru TCACIUC**, Ana-Georgina LUPU, Bogdan HORBANIUC, Use of the *Alternating Directions Method in Cylindrical Coordinates, Applied to the Two-Dimension Unsteady Conduction Heat Transfer*, 68, 2, 81-93, **2022**
3. **Gabriel-Dumitru TCACIUC** și Aristotel Popescu. *Finite Difference Method for Solving the Two-Dimensional Laplace Equation in Curvilinear Coordinates*, Buletinul institutului politehnic din Iași 69.3, 109-121, **2023**
4. **Gabriel-Dumitru TCACIUC**, Ana-Georgiana Lupu, Aristotel Popescu, *Modelling heat transfer in fins using finite difference method*, IOP Conference Series: Materials Science and Engineering. Vol. 1262. No. 1. IOP Publishing, **2022**
5. Ana-Georgiana LUPU, Evangelos HRISTOFOROU, **Gabriel-Dumitru TCACIUC**, Aristotel POPESCU, *Theoretical Model for Photovoltaic Panel Thermal Analysis*, Buletinul institutului politehnic Iași, 68 (72), 1, 79-88, **2022**
6. Daria SACHELARIE, George ACHIȚEI, Andi Iulian MUNTEANU, Adrian SACHELARIE, Andrei DONȚU, **Gabriel-Dumitru TCACIUC**, Aristotel POPESCU, Air Conditioning Systems in Vehicles: Approaches and Challenges, Sustainability (2071-1050), **2025**

Data, Semnătura,

16.10.2025

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: Tufeanu Magda, lector univ. dr.

A. Teza de doctorat.
Instituție: Institutul de Științe ale Educației din Chișinău
Perioada: 2010-2015
Coordonator: Conf. univ. dr. Svetlana Rusnac
Titlul tezei: Subrealizarea școlară a adolescenților contemporani în contextul schimbării sociale
Titlul: Doctor în psihologie, diploma recunoscută de CNRED România prin Atestatul de recunoaștere Nr. 72.845 din 13.06.2016

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Tufeanu, M. (2018) – **Subrealizarea școlară – incursiune teoretică și aplicativă**, Editura ASCR, Cluj-Napoca, ISBN 978-606-977-032, editură clasificată A2

D. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. Tufeanu, M. (2017) – **Introducere în psihologia socială** - caiet de aplicaţii pentru seminarii, Editura Performantica, Iași, ISBN 978-606-685-515-0
2. Tufeanu, M., (2015), **Subiecte generice de didactică: Principii didactice, Proiectare didactică, Metode de predare și evaluare**, în volumul Teme de pedagogie generală coord. Gavril Jitaru O., Editura Performantica, Iaşi, ISBN 978-606-685-281-4, pp. 134-152.
3. Tufeanu, M., (2011), **Colaborarea predictivă - metodă creativă de intervenţie în orientarea şcolară şi vocațională**, în volumul Consiliere educaţională şi intervenție în practica şcolară, coord. Caluschi M., Editura Performantica, Iaşi, ISBN 978-973-730-863-4, pp. 25-41.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

1. Robu, V., Tufeanu, M., Stoica, C.-M., (2024), **Social representation of problematic students based on the perspective of preschool and primary school teachers**. Journal of Innovation in Psychology, Education and Didactics, vol. 28, nr. 2/2024, pp. 227-238. ISSN (print) 2247-4579, e-ISSN 2392-7127 (revistă indexată în EBSCO, CEEOL, ProQuest, DOAJ, SCIPIO, International Innovative Impact Factor, CiteFactor, EuroPub Database, Open Academic Journals Index, ResearchBib, Universal Impact Factor). A se accesa https://jiped.ub.ro/archives/3915 . doi: 10.29081/JIPED.2024.28.2.08
2. Tufeanu, M., Robu, V., (2023), **Reprezentarea socială a subrealizării școlare în rândul elevilor de ciclu primar: perspectiva cadrelor didactice**, EcoSoEn. Ştiinţe Economice, Sociale şi Inginereşti, vol 6, nr. 3-4/2023, pp. 72-82, revistă editată de Universitatea Liberă Internaţională din Moldova, ISSN 2587-344X, e-ISSN 2587-425X (indexată în

CEEOL, DOAJ, IBN, Index Copernicus International, Munich Personal RePEc Archive/MPRA, Academia.edu). https://ibn.idsi.md/ro/vizualizare_articol/194545 , doi https://doi.org/10.54481/ecosoen.2023.3.07

3. Robu, V., Caranfil, N. G., Tufeanu, M., Sandovici, A., (2023), **Predicting engagement with school: A study on Romanian adolescents. Journal of Innovation in Psychology**, Education and Didactics, vol. 27, nr. 2/2023, pp. 211-230, ISSN: 2247-4579, e-ISSN: 2392-7127 (revistă indexată în CEEOL, DOAJ, E-International Journals of Academic & Scientific Research, Open Academic Journals Index, ResearchBib, SCIPIO). A se accesa https://jiped.ub.ro/archives/3688 . doi: 10.29081/JIPED.2023.27.2.06
4. Tufeanu, M., Robu, V., Petrescu, Z.-M., (2022), **Abilitățile sociale în rândul cadrelor didactice care lucrează în învățământul primar: studiu exploratoriu.** EcoSoEn. Ştiinţe Economice, Sociale şi Inginereşti, vol. 5, nr. 1-2/2022, pp. 143-154, rev.editată de Universitatea Liberă Internaţională din Moldova, ISSN 2587-344X, e-ISSN 2587-425X (revistă în CEEOL, DOAJ, IBN, Index Copernicus International, Munich Personal RePEc Archive/MPRA, Academia.edu). http://ecosoen.ulim.md/index.php?id=100. doi: https://doi.org/10.54481/ecosoen.2022.1-2.16
5. Robu, V., Tufeanu, M., (2021), **Reprezentarea socială a muncii educatorilor: perspectiva studenților care urmează programul de studii pedagogia învățământului primar și preșcolar**. În revista ”Psihologie-revistă științifico-practică”, vol. 38, nr. 1-2, pp. 40-53, ISSN E 1857-2502, ISSN P 2537-6276, DOI: 10.5281/zenodo.4998799, http://psihologie.key.md
6. Robu, V., Tufeanu, M., (2020), **Dimensiuni autoreglatorii ale motivației academice în rândul studenților care urmează programul Pedagogia Învățământului Primar și Preșcolar**. EcoSoEn. Ştiinţe Economice, Sociale şi Inginereşti, Anul 3, nr. 3-4, pp. 125-138, revistă editată de Universitatea Liberă Internaţională din Moldova (ISSN: 2587-344X) și indexată în CEEOL, DOAJ, IBN, Index Copernicus International, Munich Personal RePEc Archive (MPRA). A se accesa http://ecosoen.ulim.md
7. Tufeanu, M., Robu, V., (2020), **Dimensiuni ale anxietății față de testări în rândul elevilor de ciclu primar**. În revista ”Psihologie-revistă științifico-practică”, vol. 37, nr. 3-4, pp. 24-41, ISSN E 1857-2502, ISSN P 2537-6276, http://psihologie.key.md
8. Tufeanu, M., Robu, V. (2019) – **Dimensions of math anxiety among primary school-age romanian children, în revista** ”Journal of Innovation in Psychology, Education and Didactics”, vol. 23, nr. 2, pp. 215-232
9. Robu, V., Tufeanu, M. (2019) – **Relația dintre dezvoltarea personală și starea de bine a cadrelor didactice din învățământul preuniversitar**”, în revista ”Psihologie-revistă științifico-practică”, vol. 35, nr. 3-4, pp. 38-50, ISSN E 1857-2502, ISSN P 2537-6276
10. Sandovici, A., Tufeanu, M., Mihăilă, M. L., (2016) – **Comportamente de risc pentru sănătate în rândul adolescenților români: o analiză cantitativă bazată pe modele predictive**, în Anuarul Universității ”Petre Andrei” din Iași, Fascicula: Asistență Socială, Sociologie, Psihologie, tomul 15, decembrie, pp. 63-97, ISSN 2248-1060, ISSN-L = 2248-1060, indexată BDI în Index Copernicus, IDEEAS, REPEC, SOCIONET, ECONPAPER, CEEOL
11. Tufeanu, M., (2015) – **Predictors of communication competences in adolescence: The role of personality traits**, în revista „Romanian Journal of School Psychology”, vol. 8, nr. 16, pp. 97-108, ISSN 2248-244X, indexată BDI în: Central and Eastern European

Online Library; Index Copernicus International; SCIPIO; EBSCO (Education Source Collection)

12. Tufeanu M. (2014) – **Gender differences in emotional and social competences: A comparative study on Romanian adolescents**, în revista „Romanian Journal of School Psychology", vol. 7, nr. 14, pp. 39-48, ISSN 2248-244X, indexată BDI în: Central and Eastern European Online Library; Index Copernicus International; SCIPIO; EBSCO (Education Source Collection)
13. Tufeanu, M. (2014) – **Relația dintre competenţele sociale şi emoţionale şi rezultatele şcolare ale adolescenţilor**, în revista „Revista de psihologie", vol. 60, nr. 3, iulie-septembrie 2014, pp. 243-252, ISSN 0034-8759, eISSN 2344-4665, revista cotată B+ (cod CNCSIS – 579), indexată BDI în: Psyc INFO; Index Copernicus International; Pro Quest; DOAJ; OAJI.net; ROAD; New Jour; Sjounarls Index; Google Academic
14. Tufeanu M., Robu V. (2013) – **The assessement of social and emotional competences in adolescents: Constructing and experimenting a multidimensional questionnaire**, în revista „Romanian Journal of School Psychology", vol. 6, nr. 12, pp. 36-65, ISSN 2248-244X, indexată BDI în: Central and Eastern European Online Library; Index Copernicus International; SCIPIO; EBSCO (Education Source Collection)
15. Tufeanu, M. (2012) – **Academic underachievement of contemporary adolescents: meanings and causes explanations**, în revista „Romanian Journal of School Psychology", vol. 5, nr. 10, decembrie 2012, pp. 55-75, ISSN 2248-244X/ISSN – L 2248-244X, indexată BDI înCentral and Eastern European Online Library; Index Copernicus International; SCIPIO; EBSCO (Education Source Collection)

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

1. Tufeanu, M., Robu, V., Caranfil, G., (2021), **Percepția cadrelor didactice din învățământul primar cu privire la competențele necesare unui director de școală eficient**. În volumul Conferinței Științifice Internaționale „Asistența psihologică la etapa contemporană: realități și perspective", ediția a II-a, pp. 201-210, ISBN978-9975-50-269-6 (PDF), CZU 371.1
2. Tufeanu, M. (2013) – **Nivelul competenţelor sociale şi emoţionale în rândul adolescenţilor subrealizaţi în plan şcolar. Studiu exploratoriu**, În: "Conferința Naţională (cu participare internațională) a Psihologilor școlari - Parteneriatul familie-grădiniță-școală: locul şi rolul psihologului școlar". Programul şi rezumatele lucrărilor. Băile Felix, România: Universitatea din Oradea, 2013, pp. 68-69. ISSN 2344-407X, ISSN-L 2344-407X
3. Tufeanu, M. (2013) – **The relationship between academic underachievement and engagement in school among adolescents**. În: "I Congresso Internacional Envolvimento dos Alunos na Escola: Perspetivas da Psicologia e Educação". Livro de Programa e Resumos. Lisboa: Instituto de Educação da Universidade de Lisboa, 2013, p. 336, ISBN 978-989-98314-3-8.
4. Tufeanu, M. (2013) – **Studiu asupra comportamentelor disruptive manifestate în clasă şi în şcoală de către adolescenţii subrealizaţi în domeniul şcolar**, în volumul „Profilaxia tulburărilor comportamentale la minori: inovaţii, provocări şi tendinţe în educaţia modernă" – materialele Conferinţei a IX-a Internaţionale Ştiinţifico-Practică a Psihologilor, 24-25 mai 2013, pp. 62-69, volum editat de CDR Armonie, ISBN 978-9975-4454-8-1

5. Tufeanu, M. (2013) – **Consilierea educaţională a adolescenţilor subrealizaţi în plan şcolar**, în volumul „Simpozionul Naţional Kreatikon”, Editura PIM, pp.582-587, ISSN 2068-1372
6. Tufeanu, M. (2012) – **Particularităţi psiho-comportamentale ale elevilor superior dotaţi sau supradotaţi**, în volumul „Optimizarea învăţământului în contextul societăţii bazate pe cunoaştere – Materialele Conferinţei Ştiinţifice Internaţionale” 2 – 3 noiembrie 2012, Chişinău, volum electronic editat de Institutul de Ştiinţe ale Educaţiei din Chişinău, pp. 375-377, ISBN 978-9975-56-072-6
7. Tufeanu, M. (2012) – **Provocări în dezvoltarea adolescenţilor în contextul schimbărilor sociale de la începutul mileniului al III-lea**, în revista „Psihologie”- Revista ştiinţifico-practică , Nr.3/2012, Chişinău, pp. 3-15, ISSN 1857-2502
8. Tufeanu, M. (2012) – **Modalităţi de intervenţie în vederea prevenirii fenomenului subrealizării în plan şcolar**, în volumul ”Inventica 2012 The 16-th International Conference „Inventica 2012”, 13-15 iunie 2012, Iaşi, Editura Performantica, pp. 513-520, ISSN: 1844-7880
9. Tufeanu, M. (2012) – **Aspecte privind influenţa climatului familial asupra subrealizării în plan şcolar a adolescenţilor**, în volumul Materialele Conferinţei a VIII-a a psihologilor practicieni cu participare internaţională „Aspecte psihologice ale familiei contemporane şi problemele educaţiei copilului”, 18 mai 2012, Chişinău, pp. 114-118, ISBN 978-9975-4337-2-3
10. Tufeanu, M. (2012) – **Rolul psihologului în identificarea şi managerierea crizelor în mediul şcolar**, în volumul „Simpozionul Naţional Kreatikon”, Editura PIM, pp.367-372, ISSN 2068-1372
11. Tufeanu, M. (2011) – **Schimbarea socială şi educaţia pentru schimbare**, în volumul I al Conferinţei Ştiinţifice Internaţionale „Asistenţa psihologică, psihopedagogică şi socială ca factor al dezvoltării societăţii” – ediţia a II-a,, 16 decembrie 2011, Chişinău, Editura UPS „Ion Creangă”, pp. 303-309, ISBN 978-9975-46-107-8
12. Tufeanu, M. (2011) **– Colaborarea predictivă - metodă creativă de intervenţie în orientarea şcolară şi vocaţională**, în volumul „Consiliere educaţională şi intervenţie în practica şcolară” - coord. Caluschi M., 2011, Editura Performantica, Iaşi, pp. 25-41, ISBN 978-973-730-863-4
13. Tufeanu, M. (2011) **– Tulburările de comportament - perspective de abordare şi implicaţii în sfera educaţională**, în volumul „Materialele Conferinţei Ştiinţifice Internaţionale: Integrarea psihologiei şi medicinii în sistemul învăţământului în secolul XXI - provocări şi perspective”, 2011, Chişinău, pp. 162-173, ISBN 978-9975-105-61-3
14. Tufeanu, M. (2011) **– Abordări creative ale etapelor consilierii educaţionale - colaborarea predictivă**, în volumul „Simpozionul Naţional Kreatikon”, Editura Spiru Haret, Iaşi, pp. 483-486, ISSN 2068-1372
15. Caluschi, M.; Tufeanu, M. (2010) **– Creativitate şi dezvoltare personală în consilierea educaţională**, în volumul „Rezumatele lucrărilor Conferinţei Naţionale de Psihologie”, 23-26 septembrie 2010, p. 38
16. Caluschi, M.; Tufeanu, M. (2010) **– Contribuţia psihologului de familie la descoperirea vocaţiei**, în volumul „Simpozionul Naţional Kreatikon” , Editura PIM , Iaşi, pp. 330-335, ISSN 2068-1372

17. Tufeanu, M. (2009) – **Divorţul – aspecte relevante în elaborarea programelor psihologice de intervenţie primară**, în volumul „Simpozionul Naţional Kreatikon", Editura PIM , Iaşi, pp. 405-409, ISBN 978-606-520-379-2
18. Caluschi, M.; Tufeanu, M.; Şerban, M. (2009) **– Necesitatea existenţei unui nou specialist-psihologul de familie şi responsabilităţile lui**, în revista „Psihologie"- Revistă ştiinţifico-practică , Nr.2 / 2009, Editura Univers Pedagogic, Chişinău, pp. 3-15, ISSN 1857-2502
19. Caluschi, M.; Tufeanu, M.; Şerban, M. (2008) – **Argumente pentru apariţia unui nou specialist – psihologul de familie**, în volumul **„**Psihologul de Familie- necesitate în spaţiul românesc contemporan", 2008 , Editura Performantica, Iaşi, pp. 9-26, ISBN 978-973-730-521-3
20. Tufeanu, M. (2008) – **Rolul psihologului de familie în rezolvarea creativă a conflictelor în cuplu**, în volumul „Simpozionul Naţional Kreatikon", Editura Performantica , Iaşi, pp. 278-282, ISBN 978-973-730-468-1

K. Contracte de cercetare

1. 2022 - Proiect POCU/626/6/13 II 131181, cu titlul "Inserția absolvenților prin stagii de pregătire practică moderne și eficiente din cadrul Universității Tehnice Gheorghe Asachi din Iași, pe piața muncii PRACTEH." Funcția: Consilier ateliere dezvoltare competențe/COR 242403
2. "Excelență în profesie și în viață prin TUIAȘI (Excel TUIași)", finanțare tip CNFIS-FDI-2017-0017, responsabil elaborare studiu compatibilitate ofertă educațională TUIAȘI și ocupațiile țintă, consilier târg locuri de muncă TUIAȘI
3. "Perfecționarea continuă a personalului didactic din universitate – garanție a respectării deontologiei profesionale și a eticii academice (PERF-DEONTETIC)", finanțare tip CNFIS-FDI-2017- 0065, expert în științele educației.
4. "Reducerea abandonului școlar al studenților din anul întâi prin activități remediale și de consiliere în Centru de Învățare din cadrul TUIAȘI (REMEDIUM)", proiect ROSE nr. 83/SGU/CI/I, expert formator – 2018.

Data
19.10.2025

Semnătura,

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: conf.dr.ing. TUFESCU ANA

A. Teza de doctorat:"Cercetări privind influenţa microtopografiei asupra stării de tensiuni dezvoltate în contactul concentrat", titlu acordat de Universitate Tehnică "Gheorghe Asachi" din Iași, în 2011 (Conducător științific Prof.univ.dr.ing. Spiridon Crețu)

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

1. Spiridon Cretu, Mihaela Balan, Marcelin Benchea, **Ana Tufescu**, Ciprian Stamate, *ORGANE DE MASINI. LUCRARI*, editura Tehnopress, Iasi, 260 pg, 2013
2. **Ana Tufescu,** *Proiectarea asistată în CATIA V5. Aplicații în ingineria autovehiculelor*, editura Tehnopress, Iași, 200 pg., ISBN 978-606-687-357-4, 2018
3. **Ana Tufescu**, *Elemente fundamentale de proiectare asistată în CATIA V5,* editura Politehnium, Iaşi, 150 pg., ISBN 978-973-621-516-2, 2023

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

1. G. Ianuş, V. Matieş, G. Prisăcaru, C. Bujoreanu, C. Ştirbu, M.R. Bălan**, A. Tufescu, C.** Stamate, V. Cârlescu, Capitol carte: *Elemente de CAD, Vol. 2. Mecatronică, Mecanica fină şi Mecatronică,* Chişinău 2022, 315pg.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

1. **Ana Tufescu,** *Indrumar de laborator. Proiectarea asistată a autovehiculelor,* disponibil *pe Web, 60 pg, 2017.* https://mec.tuiasi.ro/wp-content/uploads/2022/11/PAA-Indrumar-de-laborator-PAA_2019-1.pdf
2. **Ana Tufescu**, *Elemente fundamentale de proiectare asistată în CATIA V5,* disponibil pe Web, https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1. R.O. Nastasa, **A. Tufescu**, C. Munteanu, B. Istrate, A. Przybył, G. Ianus, (autor corespondent) Contact Stress Simulation for Mg-0.5Ca-xMn Alloys used for Medical Application, Arch. Metall. Mater. 67 (2022), 2, 405-408, IF= 0.633
2. Dumitru N. Olaru, Mihaela Rodica D. Bălan, **Ana Tufescu**, Vlad Cârlescu, Gheorghe Prisacaru, *Influence of the cage on the friction torque in low loaded thrust ball bearings operating in lubricated conditions,* Tribology International Vol.107 pp. 294–305, 2017, IF=5.62
3. **Ana Urzică** (Tufescu), Spiridon Creţu, *Simulation of the non-gaussian roughness with specified values for the high order moments*, Journal of the Balkan Tribological Association, Vol. 19, No. 3, pp. 391-400, 2013, IF= 0.318
4. **Ana Tufescu,** Alice-Arina Ciocan Pendefunda, Antonela Beldiman, Oana Țănculescu, Raluca Baciu, Roxana Vasluianu, Maria Alexandra Mârțu, Nicoleta Ioanid, Stress distribution on the periodontal support of fixed dental prosthesis with pier abutment finite element analysis, Romanian Journal of Oral Rehabilitation, Vol. 13, No. 1 January-March 2021, pg 322-327 (indexata în Clarivite Analytics Emerging Sources Citation Index si DOAJ) ISSN 2066-7000
5. S Lupescu, C Munteanu, **A Tufescu**, B Istrate and N Basescu, (autor corespondent)

Contact stress simulation problem in case of the Mg alloys, IOP Conference Series: Materials Science and Engineering 997 (2020), 012024, ACME 2020 IOP Publishing, 2020, doi:10.1088/1757-899X/997/1/012024

6. C Stescu, D Chicet, **A Tufescu**, B Istrate, C Munteanu, S Strugaru-Iacob, Contact stress simulation problem in case of thermal spray coatings, IOP Conference Series: Materials Science and Engineering 916, 012114, ModTech 2020 IOP Publishing, 2020, doi:10.1088/1757-899X/916/1/012114

7. C Bujoreanu, **A Tufescu**, M Benchea and G Ianuş, Experimental study of acoustic performances of reactive engine mufflers, IManEE 2019, IOP Conf. Series: Materials Science and Engineering 564, 012077 IOP Publishing, 2019, doi:10.1088/1757-899X/564/1/012077

8. D Chicet, A Tufescu, C Paulin, M Panțuru and C Munteanu*, The Simulation of Point Contact Stress State for APS Coatings,* IOP Sience, IOP Conf. Series: Materials Science and Engineering Vol. 209, 8pg, 2017, *doi:10.1088/1757-899X/209/1/012044*

9. M R Balan, **A Tufescu** and S S Cretu, *A case study on relation between roughness, lubrication and fatigue life of rolling bearings,* IOP Sience, IOP Conf. Series: Materials Science and Engineering Vol. 147, 12 pg, 2016, doi:10.1088/1757-899X/147/1/012013.

10. A Tufescu, S Cretu and M R Balan, *The role of roughness amplitude on depth distribution of contact stresses,* IOP Sience, IOP Conf. Series: Materials Science and Engineering Vol. 147, 11 pg, 2016, doi:10.1088/1757-899X/147/1/012012.

11. D Olaru, M R Balan and **A Tufescu***, Influence of the cage on friction torque in low loaded thrust ball bearing operating in dry conditions,* IOP Sience, IOP Conf. Series: Materials Science and Engineering Vol. 147, 13 pg, 2016, doi:10.1088/1757-899X/147/1/012027

12. Mihaela Rodica D. Balan, Luc Houpert, **Ana TUFESCU,** Dumitru N. Olaru, *Rolling Friction Torque in Ball-Race Contacts Operating in Mixed Lubrication Conditions,* Lubricants, Vol. *3*, pp 222-243, 2015, ISSN 2075-4442, doi: 10.3390/lubricants3020222
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13. BALAN D. Mihaela Rodica, **TUFESCU Ana,** BENCHEA Marcelin and OLARU N. Dumitru, *Friction Torque in Low Loaded Thrust Ball Bearings,* Trans Tech Publications, Switzerland*,* Applied Mechanics and Materials Vol. 809-810, pp 676-681, 2015.
doi: 10.4028/www.scientific.net/AMM.809-810.676

14. BALAN D. Mihaela Rodica**,** STAMATE Vasile Ciprian, HOUPERT Luc, **TUFESCU Ana** and OLARU N. Dumitru, *Influence of the Geometry on the Rolling Friction Torque in Lubricated Ball-Race Contacts,* Trans Tech Publications, Switzerland*,* Applied Mechanics and Materials Vol. 658 (2014) pp 271-276,
doi: 10.4028/www.scientific.net/AMM.658.271

15. POP Nicolae, CRETU Spiridon and **TUFESCU Ana**, *Non Hertzian Contact Model for Tooth Contact Analysis of Spur Gear with Lead Crowning*, Trans Tech Publications, Switzerland*,* Applied Mechanics and Materials Vol. 658 (2014) pp 351-356,
doi: 10.4028/www.scientific.net/AMM.658.351

16. **Ana Tufescu** and Spiridon Creţu, *Analysis of stress state developed contacting elements with non-Gauss rough surfaces*, Buletinul Institutului Politehnic din Iaşi, Tomul LVIII (LXII), Fasc. 2, Secţia Construcţii de maşini, Editura POLITEHNIUM, Iaşi, pp. 71-80, 2012, ISSN 1011-2855

17. Constantin Bărbînţă, **Ana Urzică** and Spiridon Creţu, *On the role played by roughness parameters on pressure and stress distributions in wheel-rail contact,* Buletinul Institutului Politehnic din Iaşi, Tomul LVIII (LXII), Fasc. 2, Secţia Construcţii de maşini, Editura POLITEHNIUM, Iaşi, pp. 91-100, 2012, ISSN 1011-2855

18. Liviu Bălan, **Ana Tufescu**, Carmen Bujoreanu, Dumitru Olaru and Spiridon Creţu, *Evaluation of the local gear scuffing*, Buletinul Institutului Politehnic din Iaşi, Tomul LVIII (LXII), Fasc. 2, Secţia Construcţii de maşini, Editura POLITEHNIUM, Iaşi, pp. 129-136, 2012, ISSN 1011-2855

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1. A Zamă and **A Tufescu,** *A simple method to introduce the centrifugal effects in an angular contact ball bearing,* ACME-2022, IOP Publishing IOP, Conf. Series: Materials Science and Engineering 1262 (**2022**) 012016, doi:10.1088/1757-899X/1262/1/012016
2. C M Oprișan, B Chiriac, A Tufescu and D N Olaru*, Static and dynamic friction coefficient in low loads and sliding speed conditions,* ACME-2022, IOP Publishing IOP, Conf. Series: Materials Science and Engineering 1262 (**2022**), 012012 doi:10.1088/1757-899X/1262/1/012012
3. **Ana Urzică**, Rodica Bălan, Spiridon Creţu, Simulation methods of Gaussian surfaces, Buletinul Institutului Politehnic din Iaşi, Tomul LVI (LX), Fasc. 4A, Secţia Construcţii de maşini, Editura POLITEHNIUM, Iaşi, pp. 193-198, 2010, ISSN 1011-2855
4. **Ana Urzică**, Spiridon Creţu*, A numerical procedure to generate non-gaussian rough surfaces*, Acta Tribologica, Volume 18, University of Suceava, Romania, pp. 1-6, 2010. ISSN 1220-8434 http://www.acta.tribologica.usv.ro/pdf/AT_18_web.pdf#page=9
5. **Ana Urzică**, Rodica Bălan, Spiridon Creţu, *The influence of spectral characteristics of roughness on von Mises stress,* Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, 52, vol. III, pp. 341-346, 2009, ISSN 1221-5872
6. Mihaela Rodica Bălan, **Ana Urzică**, *Experimental study of friction losses in ball screws*, The Annals of University "Dunărea de Jos" of Galaţi, Fasc.VIII (XV), Issue 1, pp. 79-82, 2009, ISSN 1221-4590
7. Spiridon Creţu, Mihaela Rodica Bălan, **Ana Urzică**, *On the effect of spectral characteristics of roughness on contact pressure distribution*, The Annals of University "Dunărea de Jos" of Galaţi, Fasc.VIII (XV), Issue 1, pp. 7-14, 2009 ISSN 1221-4590

I. Lucrări ştiinţifice publicate în volumele conferinţelor.

a. *Articole publicate integral în volumele conferinţelor (manifestărilor) internaţionale din România:*

1. Gelu Ianus, Denis Cojocaru, Vlad Carlescu, **Ana Tufescu** and Dumitru N. Olaru, Grease lubrication of miniature ball bearings, Proc.of 25th Innovative manufacturing engineering & energy, International conference, IMANEE,21-23 October, 2021, Iasi.
2. Andrei Zama, **Ana Tufescu**, Viorel Paleu, Dumitru N. Olaru, Simulation program for sliding speeds and friction torque in high speed angular contact ball bearings, pp.119-121, PROCEEDINGS of the 10th International Conference on Tribology BALKANTRIB '20, May 20 – 22,2021, Belgrade, Serbia
3. Stefan Toma, Daniela Chicet, **Ana Tufescu**, Gabriela Toma, *Simulated behavior of thermal coated layers at point contact stress,* The 16th International Conference of Constructive Design and Technological Optimization in Machine Building Field, OPROTEH 2021, Bacau, may 25-27, 2021
4. Roxana Oana NĂSTASĂ, **Ana TUFESCU**, Corneliu MUNTEANU, Bogdan ISTRATE, Gelu IANUȘ, Contact Stress Simulation for Mg-0.5Ca-xMn Alloys Used for Medical Application, International Conference on Innovative Research ICIR 2021, EUROINVENT, Iasi, 20th–21st of May 2021
5. Nicoleta Ioanid, **Ana Tufescu**, Raluca Baciu, Roxana Vasluianu, Antonela Beldiman, Oana Țănculescu, Modelul matematic în studiul biomecanicii punților de amplitudine redusă, The XIII International Congress al Romanian Dental Association for Education, Iasi, 25-27 March **2021**
6. C.M. Oprisan, A.Tufescu, D.N.Olaru, Simulation of the oil replenishment in a ball - race contact, The 7th International Conference on COMPUTATIONAL MECHANICS AND VIRTUAL ENGINEERING - COMEC2017, Brașov, 16-17 november , pp. 28-33, 2017
7. Mihaela Rodica D. Balan, **Ana TUFESCU**, Benchea Marcelin, Dumitru N. Olaru,

Influence of the cage on the friction in low loaded thrust ball bearings, TEHNOMUS - New Technologies and Products in Machine Manufacturing Technologies, Vol.1, pp. 549-555, 2015

8. Iuliana Rotaru, Bogdan Istrate, Marcelin Benchea, **Ana Tufescu**, Dumitru Olaru, Mechanical and structural characteristics of p(HEMA) hydrogel for lumbar disc prosthesis, TEHNOMUS - New Technologies and Products in Machine Manufacturing Technologies, Vol.1, Nr.20, pp. 112-119, 2013
9. Balan Liviu Constantin, **Tufescu Ana**, Benchea Marcelin, and Olaru Dumitru, Improving the reliability of the gear transmission according to the tribological processes, TEHNOMUS - New Technologies and Products in Machine Manufacturing Technologies, Vol.1, Nr.20, pp. 69-75, 2013
10. Liviu Bălan, Marcelin Benchea, **Ana Tufescu**, Dumitru Olaru, Spiridon Creţu, *Local scuffing in lubricated roller contacts,* The 16th International Conference on EHD Lubrication and Traction, Proceedings of VAREHD 16, Suceava, 25-27 octombrie, pp. 12-20, 2012
11. Liviu Balan, Marcelin Benchea, **Ana Tufescu**, Dumitru Olaru, *Experimental determination of the friction coefficients and of the scuffing risk in a simulated gear transmission,* The 3th International Conference Diagnosis and Prediction in Mechanical Systems Engineering, Proceedings of DIPRE`12, Galaţi, 31 may-1 june, 7 pg., 2012
12. Liviu Balan, **Ana Tufescu**, Dumitru Olaru, *Lubrication regimes in a spur gear transmission*, The 16th International Conferince Modern Technologies, Quality and Innovation, Proceedings of ModTech 2012, Sinaia, 24-26 may, pp.61-63, 2012

ISSN 2069-6736

13. Constantin-Ioan Bărbînţă, **Ana Tufescu**, Spiridon Creţu, *Wheel-rail rough contact*, Club Feroviar Conferinces, Railway infrastructure development policies, projects and technologies, Technical-scientific Colloquium 2nd Edition, Sibiu, 22-23 februarie, pp., 15-22, 2012

b. *Articole publicate integral în volumele conferinţelor (manifestărilor) internaţionale*

1. **Ana C. Urzica**, Mihaela Rodica D. Balan, and Spiridon S. Cretu, *Pressures distributions and depth stresses developed in concentrated contacts between elements with non-Gaussian rough surfaces*, ASME 2012 11th Biennial Conference on Engineering Systems Design and Analysis, ESDA 2012, Nantes, France, 2-4 iuly, 8 pg., 2012 doi: 10.1115/ESDA2012-82357

J. Invenţii.

K. Contracte de cercetare.

1. Contract nr. 2SOFT/1.1/64/2020. Cross Border Cooperation in Mecatronics Engineering Education

Director proiect: conf.dr.ing. Gelu Ianus, U.T. Iaşi
Valoare proiect: 590000RON
Perioada: 2021-2022 (curs mediu euro 4.9204/4.9456) (valoare anuala 3 953551.9/196510.1RON)
Tufescu Ana: membru în echipa de cercetare (10 membri)

2. Contract nr. 2SOFT/1.2/44/2020. Improving the Quality of Solid Biofuels Produced from Raw Material Collected from Both Sides of Prut River

Director proiect: conf.dr.ing. Gelu Ianus, U.T. Iaşi
Valoare proiect: 310000RON
Perioada: 2021-2022 (curs mediu euro 4.9204/4.9456) (valoare anuala 265082.4/45763.4RON)
Tufescu Ana: membru în echipa de cercetare (10 membri)

3. Contract nr. 126P/2015. Fiabilitatea rulmentilorsi angrenajelor in raport cu conditiile de functionare si ungere

Director proiect: conf.dr.ing. Mihaela-Rodica Balan, U.T. Iaşi
Valoare proiect: 36000RON
Perioada: 2015 (curs mediu euro 4.4450) (valoare anuala 36291RON)
Tufescu Ana: membru în echipa de cercetare (4 membri)

4. Membru in proiectul POCU/626/6/13/130661, Proiect cofinanţat din Fondul Social European prin Programul Operaţional Capital Uman 2014-2020 , Axa prioritară 6 - Educaţie şi competenţe, Obiectivul specific 6.13, Denumirea proiectului: Stagii de PRACTICă performante pentru studenții Universității Tehnice Gheorghe Asachi Iași – PRACTIC,

Director de proiect: Seghedin Neculai Eugen,
Valoarea proiectului: 1.600.000 RON
Perioada: 2020-2022 (curs mediu euro /4.9204/4.9456) (valoare anuala 8853/718204.71/545709.62RON)
Expert stagii de practică: Ana Tufescu

L. Premii, distincţii.
M. Alte realizări semnificative.

Data: 20.09.2025

Conf. dr. ing. Ana TUFESCU

Tufescu Ana

Tufescu Ana

Tufescu Ana

Tufescu Ana

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele și prenumele: Ursan George-Andrei

A. Teza de doctorat.
„Cercetări asupra posibilităţilor de extindere a aplicaţiilor reţelelor de comunicaţie în automobile", 2011, Domeniul „Inginerie Electrică", Universitatea Tehnică „Gheorghe Asachi" din Iași.

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS.

Ursan G.-A., Cercetări asupra posibilităţilor de extindere a aplicaţiilor reţelelor de comunicaţie în automobile, Editura POLITEHNIUM, Iaşi 2011, 153p., ISBN: 978-973-621-372-4.

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

1 Aradoaei M, Caramitu AR, Lungu MV, **Ursan AG**, Ciobanu RC, Aflori M, Parfeni A. Thermoplastic Recycling of WEEE Carcasses with the Incorporation of Talc, Fly Ash, and Elastomers for Composites with Electromagnetic Interference Shielding Characteristics for Electric Car Components. Polymers. **2025**; 17(17):2394. https://doi.org/10.3390/polym17172394

2 Ciobanu RC, Aradoaei M, **Ursan GA**. Thermoplastic Composite Hot-Melt Adhesives with Metallic Nano-Particles for Reversible Bonding Techniques Utilizing Microwave Energy. *Polymers*. **2024;** 16(24):3496. https://doi.org/10.3390/polym16243496, , **Impact Factor 2023: 4.7, WOS:001383942600001**

3 Aradoaei M, Ciobanu RC, Schreiner C, Ursan AG, Hitruc EG, Aflori M. Thermoplastic Electromagnetic Shielding Materials from the Integral Recycling of Waste from Electronic Equipment. *Polymers*. **2023**; 15(19):3859. https://doi.org/10.3390/polym15193859, **Impact Factor 2023: 4.7, WOS:001083084200001**

4 Angela Daniela La Rosa, Sotirios A.Grammatikos, **George Andrei Ursan**, Sebastian Aradoaei, John Summerscales, Romeo Cristian Ciobanu, Cristina Mihaela Schreiner, ***Recovery of electronic wastes as fillers for electromagnetic shielding in building components: An LCA study*, JOURNAL OF CLEANER PRODUCTION, Volume: 280 Part: 2, Article Number: 124593, DOI: 10.1016/j.jclepro.2020.124593,** available online 8 October **2020, Published: JAN**

20 2021, Impact Factor 2024: 10, ISSN: 0959-6526, indexat SCOPUS, Web of Science WOS:000608741500008

5 Gheorghe Batrinescu, Nicolae Ionut Cristea, Robert Valeriu Badescu, Romeo Cristian Ciobanu, **George Andrei Ursan**, Mihaela Aradoaei, *The Induced Impact on the Environment by Combined Plastic and Paper Waste before and after Recovery,* Revista de Chimie, Volume 70, Issue 12, pp. 4579-4583 (**2019**), ISSN 2537-5741, ISSN 0034-7752, ISSN 2537-5733 (CD-ROM), ISSN-L 1582-9049 (Online), (indexat **Scopus**, **Impact Factor 2019: 1.755**, https://doi.org/10.37358/RC.19.12.7796)

6 ROMEO CRISTIAN CIOBANU , GHEORGHE BATRINESCU , **GEORGE ANDREI URSAN** , ALINA RUXANDRA CARAMITU , VIRGIL MARINESCU , ADRIANA MARIANA BORS, IOSIF LINGVAY, ***Mechanical and Morphostructural Characteristics of Composite Materials Performed by Recycling Mixed Waste of Plastic and Paper,*** MATERIALE PLASTICE ♦56♦No. 3 ♦, **2019**, pp. 475- 478, ISSN 2537-5741, ISSN-L 0025-5289, (**Impact Factor 2021: 0.782**, indexat **SCOPUS**, **Web of Science** WOS:000487764000001, https://doi.org/10.37358/mp.19.3.5212)

7 ALINA-RUXANDRA CARAMITU, SORINA MITREA, VIRGIL MARINESCU, **GEORGE-ANDREI URSAN**, MIHAELA ARADOAIE, IOSIF LINGVAY, ***Dielectric behavior and morphostructural characteristics of some HDPE composites / metal nanopowders,*** MATERIALE PLASTICE ♦56♦No. 1 ♦, **2019**, pp.103-109, ISSN 2537-5741, ISSN-L 0025-5289, (**Impact Factor 2021: 0.782**, indexat **Scopus** , **Web of Science WOS:000464604100021, https://doi.org/10.37358/mp.19.1.5132**).

8 Caramitu, A.-R., Marinescu, V., Mitrea, S., Arădoaie, M., **Ursan, G.-A**.*(corspondence author), *Dielectric and morphostructural characterization of some types of polypropylene composites/metallic nanopowders,* EEA - Electrotehnica, Electronica, Automatica, vol. 67 | nr. 1 | art. 8, pp. 61-67, (**2019**), ISSN: 1582-5175 (Revistă clasificată B+ de CNCSIS, **BDI: Ulrichsweb.com™, Elsevier- Engineering Village-Scopus, Elsevier- Engineering Village-Compendex, Index Copernicus, ProQuest, EBSCO), (Impact factor 2020: 0.44)**.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

H. Lucrări ştiinţifice publicate în reviste din ţară, recunoscute CNCSIS.

1 PLOPA OLGA, PAULET MARIUS, **URSAN GEORGE-ANDREI**, UNGUREANU LAURENTIU, SCHREINER CRISTINA, Capacitive C and RC Sensorial Test Systems for automatic lighting control, BULETINUL INSTITUTULUI POLITEHNIC DIN IAŞI, Secţia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ, VOL 65 (69), Fasc. 4, **2019,** Print ISSN 1223-8139, Online ISSN 2537-2726, Classified B+ (CNCSIS code 87), Indexed in Index Copernicus, CNKI Scholar, Ulrich's

2 **George–Andrei URSAN**, Emil VREMERA, Maria URSAN, *Implementation of Controller Area Network Node for Humidity Measuring Systems*, Bul. Inst. Pol. Iasi, (CNCSIS, B+), Tomul LVII (LXI) Fasc.3, Sect Electrical Engineering, Power Engineering, Electronics, **2011**, pg 103-110, (**BDI: Index Copernicus, getCITED, Ulrich's**)

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M. Alte realizări semnificative.

Data,

Anexa Lista de lucrări

Lista de lucrări în domeniul de studii universitare de licență Inginerie Mecanică

Numele şi prenumele: **Ș.l.dr.ing Ursan Maria**

A. Teza de doctorat.
„Cercetări privind dezvoltarea şi testarea de materiale compozite nano-conductive pentru ecranare electromagnetică”

B. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

C. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate în ţară, la edituri recunoscute CNCSIS (sau CNCS).

D. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe plan local.

E. Cărţi (manuale, monografii, tratate, îndrumare etc.) publicate pe web.

F. Lucrări ştiinţifice publicate în reviste cotate ISI sau indexate în baze de date internaţionale.

G. Lucrări ştiinţifice publicate în reviste din străinătate.

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M. Alte realizări semnificative.

Data: Nume, prenume Ursan Maria

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