



Universitatea „POLITEHNICA” din București

Facultatea de Inginerie Industrială și Robotica

Departamentul: Teoria Mecanismelor și a Roboților

Postul: poziția 6 de CONFERENȚIAR, Inginerie Mecanică, care a fost publicat în Monitorul Oficial al României nr. 368 din 6.05.2021, partea a III-a, Candidat: Ș.L.dr.ing. Florian Ion PETRESCU

Disciplinele: Comanda și controlul sistemelor mecanice,

Bazele analizei și optimizării sistemelor cu memorie rigidă,

Analiza și simularea sistemelor mecanice mobile,

Analiza și simularea sistemelor mecanice biomorfe,

Anexa 11

Lista lucrărilor științifice publicate de candidat

SIMBOLIZAREA LUCRĂRILOR ELABORATE

În legătură cu *disciplinele* din postul didactic în cauză, *domeniul* asociat și/sau, *justificat*, discipline și domenii înrudite cu acestea.

I. TEZA (E) DE DOCTORAT (T)

„CONTRIBUȚII TEORETICE ȘI APLICATIVE PRIVIND DINAMICA MECANISMELOR PLANE CU CUPLE SUPERIOARE”, „Theoretical and Applied Contributions About the Dynamic of Planar Mechanisms with Superior Joints”, 2008.

II. CĂRȚI PUBLICATE (C)

Ca – Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

1	FI Petrescu , Evaluarea performanțelor în cercetarea și proiectarea sistemelor mecanice. Printech 2020, ISBN 978-606-23-1128-5, cod CNC SIS 62, 328 pag.
2	FI Petrescu , Teoria mecanismelor. Printech 2019, ISBN 978-606-23-1007-3, cod CNC SIS 62, 306 pag.
3	FIT, Petrescu , Computer-aided design; Evaluation and optimization of performances in the research and design of Mechanical Systems - course and applications. Amazon Publisher, 2020, ISBN 13: 979-8-6523-6824-1, 236 pages. https://www.amazon.com/dp/B089TWRXH7
4	Petrescu, FIT , 2012 Teoria Mecanismelor: Curs și aplicații, September 12, 2012, Create Space Publisher, ISBN-13: 978-1479293629, 304 pages. https://www.amazon.com/Teoria-Mecanismelor-Curs-aplicatii-Romanian/dp/1479293628
5	Petrescu, FIT , 2012 Bazele Analizei și Optimizării Sistemelor cu Memorie Rigidă, February 4, 2012, Create Space Publisher, USA, ISBN-13: 978-1470024369, 164 pages. https://www.amazon.com/Analizei-Optimizarii-Sistemelor-Memorie-Romanian/dp/1470024365
6	Petrescu, FIT , Consultanța în Ingineria Mecanică, May 10, 2012, Create Space Publisher, USA, ISBN-13: 978-1477446102, 740 pages. https://www.amazon.com/Consultanta-Ingineria-Mecanica-Romanian-Petrescu/dp/1477446109
7	Petrescu, FIT , 2012 Sisteme Mecatronice Seriale, Paralele și Mixte, 12 February 2014, Create Space Publisher, USA, ISBN-13: 978-1495923814, 224 pages. https://www.amazon.com/Sisteme-Mecatronic-Seriale-Paralele-Romanian/dp/1495923819

Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

1	Florian Ion Petrescu , Rely Victoria Petrescu, New Aircraft II, BoD, Germany noiembrie 2012, page 136, ISBN-13: 978-3-8482-0892-0 https://www.bod.de/buchshop/new-aircraft-ii-florian-ion-petrescu-9783848208920
2	Petrescu, F.I. , Petrescu, R.V., Echilibrarea motoarelor termice, Create Space publisher, USA, November 2012, ISBN 978-1-4811-2948-0, 40 pages, Romanian edition. 4 puncte

	https://www.amazon.com/gp/product/1481129481/
3	Petrescu, F.I., Petrescu, R.V., Camshaft Precision - Color, Create Space publisher, USA, November 2012, ISBN 978-1-4802-9103-4, 92 pages, English edition. https://www.amazon.com/Dr-Florian-Ion-Petrescu/dp/148029103X/
4	Petrescu, F.I., Petrescu, R.V., Motoare termice, Color, Create Space publisher, USA, November 2012, ISBN 978-1-4810-8828-2, 164 pages, Romanian edition https://www.amazon.com/gp/product/1481088289
5	Petrescu, F.I., Turn on the Lights!, Lulu publisher, USA, Martie 2011, ISBN 978-1-4475-2395-6, 140 pages, Romanian edition. https://www.lulu.com/shop/florian-petrescu/turn-on-the-lights/paperback/product-15155307.html
6	Petrescu, F.I., Petrescu, R.V., Perspective energetice globale, Create Space publisher, USA, December 2011, ISBN 978-1-4681-3082-9, 80 pages, Romanian edition. https://www.amazon.com/Perspective-energetice-globale-Romanian-Petrescu/dp/146813082X
7	Petrescu, F.I., New Elements in Physics, Lulu publisher, USA, Noiembrie 2011, ISBN 978-1-4709-6328-6, 72 pages, Romanian edition. https://www.lulu.com/en/us/shop/florian-ion-petrescu/new-elements-in-physics/paperback/product-1gvrqewd.html
8	Petrescu, F.I., Petrescu, R.V., Angrenaje, Create Space publisher, USA, December 2011, ISBN 978-1-4680-9240-0, 92 pages, Romanian version. https://www.amazon.com/Angrenaje-Romanian-Florian-Tiberiu-Petrescu/dp/1468092405
9	Petrescu, F.I., Petrescu, R.V., Dinamica mecanismelor de distributie, Create Space publisher, USA, December 2011, ISBN 978-1-4680-5265-7, 188 pages, Romanian version. https://www.amazon.com/Dinamica-Mecanismelor-Distributie-Romanian-Petrescu/dp/1468052659
10	Petrescu, F.I., Petrescu, R.V., Trenuri planetare, Create Space publisher, USA, December 2011, ISBN 978-1-4680-3041-9, 204 pages, Romanian version. https://www.amazon.com/Trenuri-Planetare-Romanian-Florian-Petrescu/dp/1468030418
11	Petrescu, F.I., Petrescu, R.V., Gear Solutions, Create Space publisher, USA, November 2011, ISBN 978-1-4679-8764-6, 72 pages, English version. https://www.amazon.com/Gear-Solutions-Florian-Ion-Petrescu/dp/1467987646
12	Petrescu, F.I., Petrescu R.V., Mechanical Engineering Design, Create Space publisher, USA, November 2011, ISBN 978-1-4679-1377-5 , 184 pages, English version. 18.4 puncte https://www.amazon.com/Mechanical-Engineering-Design-Florian-Petrescu/dp/1467913774
13	Petrescu, FIT, Petrescu, RV, Memories About Flight! November 11, 2011, Create Space Publisher, USA, ISBN-13: 978-1-4679-3032-1, 652 pages. https://www.amazon.com/Memories-About-Flight-Florian-Petrescu/dp/1467930326
14	Florian Ion Petrescu, Cold Nuclear Fusion, BoD, Germany noiembrie 2012, page 100, ISBN-13: 978-3-8482-2852-2, https://www.bod.de/buchshop/cold-nuclear-fusion-florian-ion-petrescu-9783848228522
15	Antonio Apicella, Raffaella Aversa, Rely Victoria Petrescu, Daniela Parcesepe, Francesco Tamburrino and Florian Ion T. Petrescu, noiembrie 2017 Nanotechnology and Medicine, Create Space Publisher, USA, ISBN 978-1-9796-1501-3, 208 pages. https://www.amazon.com/Nanotechnology-Medicine-Antonio-Apicella/dp/1979615012
16	Florian Ion Petrescu, A New Doppler Effect, BoD, Germany noiembrie 2012, page 80, ISBN-13: 978-3-8482-2990-1, https://www.bod.de/buchshop/a-new-doppler-effect-florian-ion-petrescu-9783848229901

III. ALTE MATERIALE PUBLICATE (I,D)

I - Culegeri și îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern).

1	Petrescu, FIT , 2012 Indrumar de laborator de teoria mecanismelor, Create Space Publisher, USA 2012, ISBN-13: 978-1481872539, 116 pages. https://www.amazon.com/Indrumar-laborator-teoria-mecanismelor-Romanian/dp/1481872532
2	Petrescu, FIT , 2012 Bazele Analizei Sistemelor cu Memorie Rigida – Indrumar de laborator: 2012, Create Space Publisher, USA December 30, 2012, ISBN-13: 978-1-4818-7366-6, 40 pages. https://www.amazon.com/Analizei-Sistemelor-Memorie-Indrumar-laborator/dp/1481873660
3	Petrescu, F.I. , Petrescu, RV., Sisteme mecanice, seriale și paralele, Lulu publisher, USA, Februarie 2011, ISBN 978-1-4466-0039-9, 124 pages, Romanian edition. https://www.lulu.com/en/us/shop/relly-petrescu-and-florian-petrescu/mechanical-systems-serial-and-parallel/paperback/product-17gwqr7d.html
4	Greco B., Petrescu, F. , s.a., Mecanisme Plane – lucrări pentru laborator si proiect. Editura BREN, Bucuresti, ISBN 978-973-648-697-5, 191 pag., cod CNCIS 96, 2007.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris - Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta). *Se mentioneaza la fiecare lucrare includerea in Baza ISI [Accession Number, WOS=..., ultimul Factor Impact, ISSN] si/sau denumirea altei (altor) BDI.*

2.1. Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS) [2]. unde n=nr. De autori si FI este factorul de impact [3]			P1=36.7081	
A2.1	Autor corespondent / prim autor	n<=3	P1.1=2.(0,2+FI)	
		n>=4	P1.2=2.3.(0,2+FI)/n	
	C-autor	n<=3	P1.3=0,2+FI	
		n>=4	P1.4=3.(0,2+FI)/n	
Cu factor de impact	1.	FIT., Petrescu , RVV., Petrescu, 2019. Nuclear hydrogen structure and dimensions , International Journal of Hydrogen Energy, ISSN 0360-3199. eISSN 1879-3487, Volume 44 /Issue 21, pp. 10833-10837. https://doi.org/10.1016/j.ijhydene.2019.02.140 Indexed: ISI WoS, Science Citation Index Expanded , Scopus (Elsevier), Academic Search Premier, PASCAL, Artic & Antarctic Regions, Chimica, Compendex, Environment Index, INSPEC, Communication Abstracts Impact Factor 4.939 (2019); Accession Number: WOS: 000466618300062 Zona Rosie Q1 Zona Galbena Q2 CHEMISTRY, PHYSICAL Q2 ELECTROCHEMISTRY Q2 ENERGY & FUELS	n=2	10.278
	2	RVV. Petrescu, A. Machín, K. Fontánez, JC. Arango, FM. Márquez, FIT. Petrescu* , 2020. Hydrogen for aircraft power and propulsion. International Journal of Hydrogen Energy, ISSN 0360-3199; eISSN 1879-3487, Volume 45(41):20740-20764. DOI: 10.1016/j.ijhydene.2020.05.253 https://doi.org/10.1016/j.ijhydene.2020.05.253 Indexed: ISI WoS, Science Citation Index Expanded , Scopus (Elsevier), Academic Search Premier, PASCAL, Artic & Antarctic Regions, Chimica, Compendex, Environment Index, INSPEC, Communication Abstracts Impact Factor 5.816 (2020); Accession Number: WOS: 000558598300004 Zona Rosie Q1	n=6	5.139

		Zona Galbena Q2 CHEMISTRY, PHYSICAL Q2 ELECTROCHEMISTRY Q2 ENERGY & FUELS		
3	Yuxia Duan, Hai Zhang, Stefano Sfarra, Nicolas P. Avdelidis, Theodoros H. Loutas, George Sotiriadis, Vassilis Kostopoulos, Henrique Fernandes, Florian Ion Petrescu , Clemente Ibarra-Castanedo and Xavier P.V. Maldague, 2019. <u>On the Use of Infrared Thermography and Acousto-Ultrasonics NDT Techniques for Ceramic-Coated Sandwich Structures</u> . Energies Volume 12, Issue 13, pp. 1-12 DOI: 10.3390/en12132537; ISSN: 1996-1073 https://www.mdpi.com/1996-1073/12/13/2537 Indexed: ISI WoS, Science Citation Index Expanded, Scopus Impact factor 2.702 (2019) ; Accession Number: WOS:000477034700078 Zona Alba Q3 Energy and Fuels.	n=11	0.791	
4	Mirsayar, M.M., Joneidi, V.A., Petrescu, R.V.V., Petrescu, F.I.T. , Berto, F., 2017. <u>Extended MTSN criterion for fracture analysis of soda lime glass</u> , Engineering Fracture Mechanics 178, pp. 50–59, ISSN: 0013-7944, http://doi.org/10.1016/j.engfracmech.2017.04.018 Indexed: ISI WoS, Science Citation Index, Science Citation Index Expanded, Current Contents – Engineering, Computing & Technology, Scopus (Elsevier), INSPEC, Compendex, Metadex, Academic Search Premier, Aerospace Database, Applied Science & Technology Source, Aquatic Science & Fisheries Abstracts (ASFA), Civil Engineering Abstracts, Computer & Applied Sciences, Communication Abstracts, DIALNET Impact Factor 2.908 (2017) ; Accession Number: WOS:000403127100005 Zona Rosie Q1 MECHANICS	n=5	1.865	
5	FIT., Petrescu , 2019. <u>About the nuclear particles' structure and dimensions</u> . Comp. Part. Mech. ISSN: 2196-4378 (Print) 2196-4386 (Online), Volume 6, Issue 2, Pages 191-194. https://doi.org/10.1007/s40571-018-0206-7 Indexed: ISI WoS, Science Citation Index Expanded, Scopus (Elsevier), INSPEC, DOAJ Impact Factor 1.696 (2019) ; Accession Number: WOS:000462795200005 Zona Galbena Q2 MATHEMATICS, INTERDISCIPLINARY APPLICATIONS	n=1	3.792	
6	Aversa, R., Petrescu, RVV., Apicella, A., Petrescu, FIT* , 2017. <u>Modern Transportation and Photovoltaic Energy for Urban Ecotourism</u> . TRANSYLVANIAN REVIEW OF ADMINISTRATIVE SCIENCES Special Issue, pp. 5-20. ISSN: 1842-2845, eISSN: 2247-8310. DOI: 10.24193/tras.SI2017.1 Indexed: ISI WoS, Social Sciences http://rtsa.ro/tras/index.php/tras/article/view/540 Impact Factor 0.617 (2017) ; Accession Number: WOS:000418457400001 Zona Alba Q3	n=4	1.226	
7	Machín A, Fontáñez K, Arango JC, Ortiz D, De León J, Pinilla S, Nicolosi V, Petrescu FI , Morant C, Márquez F. One-Dimensional (1D) Nanostructured Materials for Energy Applications. Materials. 2021; 14(10):2609. https://doi.org/10.3390/ma14102609 Indexed: PubMed, ISI WoS, Science Citation Index Expanded, Scopus (Elsevier), INSPEC, Impact Factor 3.623 (2020) ; Accession Number: WOS:000662526000001 Zona Rosie Q1 (Metallurgy & Metallurgical Engineering)	n=10	0.9771	
8	Ungureanu LM, Petrescu FIT . Dynamics of Mechanisms with Superior Couplings. Applied Sciences. 2021; 11(17):8207. DOI: 10.3390/app11178207; Indexed: ISI WoS, Science Citation Index Expanded, Scopus (Elsevier), INSPEC, Impact Factor 2.679 (2020) ; Accession Number: WOS:000694189300001 Zona Galbena Q2 Engineering, Multidisciplinary	n=2		

9	Zeng Z, Shi G, Petrescu FIT , Ungureanu LM, Li Y. Micro-Nano Machining TiO ₂ Patterns without Residual Layer by Unconventional Imprinting. Applied Sciences. 2021; 11(21):10097. https://doi.org/10.3390/app112110097 ; Indexed: ISI WoS , Science Citation Index Expanded , Scopus (Elsevier), INSPEC, Impact Factor 2.679 (2020) ; Accession Number: WOS:000726548700001 Zona Galbena Q2 Engineering, Multidisciplinary	n=5	
10	Machin, A; Arango, JC; Fontanez, K; Cotto, M; Duconge, J; Soto-Vazquez, L; Resto, E; Petrescu, FIT ; Morant, C; Marquez, F., 2020. Biomimetic Catalysts Based on Au@ZnO-Graphene Composites for the Generation of Hydrogen by Water Splitting . BIOMIMETICS, eISSN: 2313-7673. Volume: 5, Issue 3, Article Number: 39. DOI: 10.3390/biomimetics5030039 Indexed: PubMed , ISI WoS , Scopus , PubMed ID: 32839383 Impact Factor 2.679 (2020) ; Accession Number: WOS:000579680300001 Zona Galbena Q2	n=10	
11	Machin, A.; Soto-Vazquez, L.; Colon-Cruz, C; Valentin-Cruz, CA.; Claudio-Serrano, GJ.; Fontanez, K.; Resto, E.; Petrescu, FI ; Morant, C.; Marquez, F., 2021. Photocatalytic Activity of Silver-Based Biomimetics Composites . BIOMIMETICS, Volume: 6 Issue: 1, Article Number: 4. DOI: 10.3390/biomimetics6010004 Indexed: PubMed , ISI WoS , Scopus , PubMed ID: 33406738 Impact Factor 2.679 (2020) ; Accession Number: WOS:000633016600001 Zona Galbena Q2	n=10	
12	Aversa, R.; Petrescu, R.V.; Petrescu, F.I.T. ; Perrotta, V.; Apicella, D., Apicella, A., Biomechanically Tunable Nano-Silica/P-HEMA Structural Hydrogels for Bone Scaffolding. Bioengineering 2021, 8(4), nr. 45. ISSN 2306-5354. Indexed PubMed, PubMed Central, Scopus DOI: 10.3390/bioengineering8040045 Indexed: ISI WoS , Science Citation Index Expanded , Scopus (Elsevier) Impact Factor 2.679 (2020) ; Accession Number: WOS:000642725200001 PubMed ID: 33916623 Zona Galbena Q2	n=6	
13	Machín A, Fontánez K, Duconge J, Cotto MC, Petrescu FI , Morant C, Márquez F. Photocatalytic Degradation of Fluoroquinolone Antibiotics in Solution by Au@ZnO-rGO-gC ₃ N ₄ Composites. Catalysts. 2022; 12(2):166. https://doi.org/10.3390/catal12020166 Indexed: ISI WoS , Science Citation Index Expanded , Scopus (Elsevier) Impact Factor 4.146 (2020) ; Accession Number: WOS:000 PubMed ID: 33916623 Zona Galbena Q2 (Chemistry, Physical)	n=7	
14	Machín A, Fontánez K, García D, Sampayo P, Colón-Cruz C, Claudio-Serrano GJ, Soto-Vázquez L, Resto E, Petrescu FI , Morant C, Márquez F. Hydrogen Production and Degradation of Ciprofloxacin by Ag@TiO ₂ -MoS ₂ Photocatalysts. Catalysts. 2022; 12(3):267. https://doi.org/10.3390/catal12030267 Indexed: ISI WoS , Science Citation Index Expanded , Scopus (Elsevier) Impact Factor 4.146 (2020) ; Accession Number: WOS:000 PubMed ID: 33916623 Zona Galbena Q2 (Chemistry, Physical)	n=11	
15	Zhang S, Chen J, Zheng J, Chen X, Xu H, Petrescu FIT , Ungureanu LM, Li Y, Shi G. A Simple Polypyrrole/Polyvinylidene Fluoride Membrane with Hydrophobic and Self-Floating Ability for Solar Water	n=9	

		Evaporation. Nanomaterials. 2022; 12(5):859. https://doi.org/10.3390/nano12050859 Impact Factor 5.076 (2020) ; Accession Number: WOS:000 Zona Rosie Q1 (Physics, Applied)		
	16			
Fara factor de impact	1.	Petrescu FIT. , Petrescu RVV., 2016. An Otto Engine Dynamic Model , Independent Journal of Management and Production, Vol. 7, Issue 1, pp. 38-48, ISSN: 2236-269X. DOI: dx.doi.org/10.14807/ijmp.v7i1.381. http://www.ijmp.jor.br/index.php/ijmp/article/view/381 Indexed: ISI WoS, Emerging Sources Citation Index . Accession Number: WOS: 000447998500016	n=2	0.4
	2	Petrescu FIT. , Petrescu RVV., 2015. Forces at the Main Mechanism of a Railbound Forging Manipulator , Independent Journal of Management and Production, Vol. 6, Issue 4, pp. 904-921, ISSN: 2236-269X. DOI: dx.doi.org/10.14807/ijmp.v6i4.316. http://www.ijmp.jor.br/index.php/ijmp/article/view/316 Indexed: ISI WoS, Emerging Sources Citation Index . Accession Number: WOS: 000447996600004	n=2	0.4
	3	Petrescu FIT. , Petrescu RVV., 2015. Machine Motion Equations , Independent Journal of Management and Production, Vol. 6, Issue 3, pp. 773-802, ISSN: 2236-269X. DOI: dx.doi.org/10.14807/ijmp.v6i3.318. http://www.ijmp.jor.br/index.php/ijmp/article/view/318 Indexed: ISI WoS, Emerging Sources Citation Index . Accession Number: WOS: 000447993700011	n=2	0.4
	4	Petrescu FIT. , Petrescu RVV., 2015. Kinematics at the Main Mechanism of a Railbound Forging Manipulator , Independent Journal of Management and Production, Vol. 6, Issue 3, pp. 711-729, ISSN: 2236-269X. DOI: dx.doi.org/10.14807/ijmp.v6i3.235. http://www.ijmp.jor.br/index.php/ijmp/article/view/235 Indexed: ISI WoS, Emerging Sources Citation Index . Accession Number: WOS: 000447993700008	n=2	0.4
	5	Petrescu FIT. , Petrescu RV., 2019. Dynamics of the Distribution Mechanism with Rocking Tappet with Roll . INDEPENDENT JOURNAL OF MANAGEMENT & PRODUCTION ISSN: 2236-269X, Volume: 10, Issue: 3, Pages: 951-965. DOI: dx.doi.org/10.14807/ijmp.v10i3.367. http://www.ijmp.jor.br/index.php/ijmp/article/view/367 Indexed: ISI WoS, Emerging Sources Citation Index . Accession Number: WOS:000470073200003	n=2	0.4
	6	Petrescu, F.I. , Petrescu, R.V., Otto Motor Dynamics , 2016. REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS, 6(3), pp. 3392-3406, ISSN: 2237-0722, Retrieved from: http://www.revistageintec.net/index.php/revista/article/view/373 Indexed ISI WOS, Emerging Sources Citation Index Accession Number: WOS: 000394614600012	n=2	0.4
	7	Petrescu, FIT. , Petrescu, RV., Mirsayar, M.M., 2018. Inverse Kinematics to a Stewart Platform . JOURNAL OF MATERIALS AND ENGINEERING STRUCTURES 5(2), pp. 111-122. ISSN: 2170-127X, Indexed: ISI WOS, Emerging Sources Citation Index http://revue.ummt.dz/index.php/JMES/article/view/1623 Accession Number: WOS: 000447942200002	n=3	0.4
	8	R. Aversa, RVV. Petrescu, A. Apicella, FIT. Petrescu* , 2019. A Nanodiamond for Structural Biomimetic Scaffolds . Engineering Review, Vol. 39, Issue 1, pp. 81-89. DOI:	n=4	0.3

		http://doi.org/10.30765/er.39.1.9 . ISSN 1330-9587 (Print), eISSN 1849-0433 (Online). Indexed: ISI WoS, Emerging Sources Citation Index , Scopus, Aerospace Database, Civil Engineering Abstracts, INSPEC, Metadex, Communication Abstracts Accession Number: WOS: 000455809800009		
9	Petrescu, F.I. , Petrescu, R.V., Dynamic Cinematic to a Structure 2R , 2016. REVISTA GEINTEC-GESTAO INOVACAO E TECNOLOGIAS, 6(2), pp. 3143-3154, ISSN: 2237-0722, Retrieved from: http://www.revistageintec.net/index.php/revista/article/view/371 Indexed ISI WOS, Emerging Sources Citation Index Accession Number: WOS: 000394613800012	n=2	0.4	
10	Petrescu, Rely Victoria Virgil; Aversa, Raffaella; Apicella, Antonio; Petrescu, Florian Ion Tiberiu* ; 2017. Green Energy to Protecting the Environment , Geintec, 7(1), pp. 3722-3743. ISSN: 2237-0722, Retrieved from: http://www.revistageintec.net/index.php/revista/article/view/971 Indexed: ISI WOS, Emerging Sources Citation Index Accession Number: WOS: 000398941600011	n=4	0.3	
11	Petrescu, FIT. , Petrescu, RV., Mirsayar, M.M., 2017. The Computer Algorithm for Machine Equations of Classical Distribution , JOURNAL OF MATERIALS AND ENGINEERING STRUCTURES 4(4), pp. 193-209. ISSN: 2170-127X, Indexed: ISI WOS, Emerging Sources Citation Index http://revue.ummto.dz/index.php/JMES/article/view/1590 Accession Number: WOS: 000424424600003	n=3	0.4	
12	Abu-Lebdeh, Taher; Petrescu, Rely Victoria V.; Al-Nasra, Moayyad, FIT. Petrescu* , 2019. Effect of nano-Silica (SiO₂) on the Hydration Kinetics of Cement . Engineering Review , Vol. 39, Issue 3, pp. 248-260. DOI: 10.30765/er.39.3.06. http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=40&SID=C2uWFiakuUHDw9w74Mp&page=1&doc=3 ISSN 1330-9587 (Print), eISSN 1849-0433 (Online). Indexed: ISI WoS, Emerging Sources Citation Index , Scopus, Aerospace Database, Civil Engineering Abstracts, INSPEC, Metadex, Communication Abstracts Accession Number: WOS: 000471845300006	n=4	0.3	
13	Petrescu, FIT , Petrescu, RVV, 2019. An Algorithm to Determining the Gear Efficiency to a Simple Planetary Train , Independent Journal of Management and Production, ISSN: 2236-269X, Volume: 10, Issue: 5, Pages: 1392-1404, DOI: dx.doi.org/10.14807/ijmp.v10i5.392 http://www.ijmp.jor.br/index.php/ijmp/article/view/392 Indexed: ISI WoS, Emerging Sources Citation Index , Accession Number: WOS:000488884900001	n=2	0.4	
14	Petrescu, RVV, Petrescu FIT* , 2019. Structural-topological synthesis of space mechanisms with rods and wheels , Independent Journal of Management and Production, ISSN: 2236-269X, Volume: 10, Issue: 5, Pages: 1446-1475, DOI: dx.doi.org/10.14807/ijmp.v10i5.902, http://www.ijmp.jor.br/index.php/ijmp/article/view/902 Indexed: ISI WoS, Emerging Sources Citation Index , Accession Number: WOS:000488884900004	n=2	0.4	
15	Petrescu FIT , Petrescu RV, 2014. High Efficiency Gears , FACTA UNIVERSITATIS-SERIES MECHANICAL ENGINEERING, ISSN: 0354-2025 (Print), ISSN: 2335-0164 (Online), Volume 12, Issue 1, Page 51-60. http://casopisi.junis.ni.ac.rs/index.php/FUMechEng/article/view/187 Indexed: ISI WoS, Emerging Sources Citation Index , Accession Number: WOS:000216530500005	n=2	0.4	
16	Petrescu FIT , Petrescu RV, 2014. Cam Gears Dynamics in the Classic Distribution , Independent Journal of Management and Production,	n=2	0.4	

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Rio – Alte reviste de specialitate de circulație internațională.

Rns - Reviste de specialitate de circulație națională recunoscute de CNCSIS. Se menționează Categoria CNCSIS.

Rno - Alte reviste de specialitate de circulație națională.

Vis- Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internaționale - BDI specifice domeniului, care fac un proces de selecție a publicațiilor pe baza unor criterii de performanță. *Se menționează la fiecare lucrare includerea în Baza ISI [ISI Proceedings, Accession Number, WOS=....., ISSN] și/sau denumirea altei (altor) BDI.*

1	PETRESCU, F., PETRESCU, R. <i>Dinamica mecanismelor cu came (exemplificată pe mecanismul clasic de distribuție)</i> . In The Seventh IFToMM International Symposium on Linkages and Computer Aided Design Methods - Theory and Practice of Mechanisms, SYROM'97, Bucharest, 1997, Vol. 3, p. 353-358.
2	PETRESCU, F., PETRESCU, R., ANTONESCU, O. <i>Contribuții la sinteza mecanismelor de distribuție ale motoarelor cu ardere internă cu metoda coordonatelor carteziene</i> . In The Seventh IFToMM International Symposium on Linkages and Computer Aided Design Methods - Theory and Practice of Mechanisms, SYROM'97, Bucharest, 1997, Vol. 3, p. 359-364.
3	MARIN, G., PETRESCU, R., PETRESCU, F. <i>Considerații privind utilizarea graficii asistate în desenul de specialitate</i> . În al VI-lea Simpozion de Geometrie Descriptivă și Grafică Inginerească Computerizată, București, 1998, Vol. III, p. 673-676.
4	PETRESCU, F., PETRESCU, R. <i>Designul (sinteza) mecanismelor cu came prin metoda coordonatelor polare (metoda triunghiurilor)</i> . In The VII-th Edition of the National Conference With International Participation, GRAFICA-2000, Craiova, Romania, 2000, p. 291-296.
5	PETRESCU, F., PETRESCU, V. <i>Sinteza mecanismelor de distribuție prin metoda coordonatelor rectangulare (carteziene)</i> . In The VII-th Edition of the National Conference With International Participation, GRAFICA-2000, Craiova, Romania, 2000, p. 297-302.
6	PETRESCU, F., PETRESCU, R. <i>Legi de mișcare pentru mecanisme cu came</i> . În al VII-lea Simpozion Național cu Participare Internațională Proiectarea Asistată de Calculator, PRASIC'02, Brașov, 2002, Vol. I, p. 321-326.
7	PETRESCU, F., PETRESCU, R. <i>Elemente de dinamica mecanismelor cu came</i> . În al VII-lea Simpozion Național cu Participare Internațională Proiectarea Asistată de Calculator, PRASIC'02, Brașov, 2002, Vol. I, p. 327-332.
8	PETRESCU, R., PETRESCU, F. <i>The gear synthesis with the best efficiency</i> . In the 7 th International Conference, FUEL ECONOMY, SAFETY and RELIABILITY of MOTOR VEHICLES, ESFA 2003, Bucharest, May 2003, Vol. 2, p. 63-70.
9	PETRESCU, R., PETRESCU, F., RĂDULESCU, C. <i>Cinematica mecanismelor plane cu bare și angrenaje multiple</i> . Revista Mecanisme și Manipulatoare, Bucharest, Vol. 2, Nr. 2, 2003, p. 23-28, ARoTMM – IFToMM.
10	PETRESCU, F., PETRESCU, R. <i>The cam design for a better efficiency</i> . In the International Conference on Engineering Graphics and Design, ICEGD 2005, Bucharest, 2005, Vol. I, p. 245-248.

11	PETRESCU, F.I. , PETRESCU, R.V. <i>Contributions at the dynamics of cams</i> . In the Ninth IFToMM International Symposium on Theory of Machines and Mechanisms, SYROM 2005, Bucharest, Romania, 2005, Vol. I, p. 123-128.
12	PETRESCU, F.I. , PETRESCU, R.V. <i>Determining the dynamic efficiency of cams</i> . In the Ninth IFToMM International Symposium on Theory of Machines and Mechanisms, SYROM 2005, Bucharest, Romania, 2005, Vol. I, p. 129-134.
13	PETRESCU, R.V., PETRESCU, F.I. , POPESCU N., <i>The efficiency of gears</i> . In the Second International Conference "Mechanics and Machine Elements", Sofia, Bulgaria, November 2005.
14	PETRESCU, F.I. , PETRESCU, R.V., POPESCU N., <i>The efficiency of cams</i> . In the Second International Conference "Mechanics and Machine Elements", Sofia, Bulgaria, November 2005.
15	PETRESCU, R.V., PETRESCU, F.I. , POPESCU N., <i>Save Energy And Diminish The Pollutions By Increasing The Efficiency Of Gears</i> . În Conferința Națională "MEDIU-06", Craiova, Romania, 2006.
16	PETRESCU F.I. , GRECU B., COMĂNESCU A., PETRESCU R.V., <i>Sinteza dinamică la angrenajele cu roți dințate cu axe paralele</i> . In al treilea Seminar Național de Mecanisme Craiova 2008, SNM'08, Proceedings, ISBN 978-973-746-910-6, 582pag, Ed. SITECH, Craiova, p. 319-324, cod CNCIS 170, 2008.
17	PETRESCU R.V., COMĂNESCU A., PETRESCU F.I. , <i>Dinamica mecanismelor cu came exemplificată pe mecanismul clasic de distribuție (cu tachet translant plat)</i> . In al treilea Seminar Național de Mecanisme Craiova 2008, SNM'08, Proceedings, ISBN 978-973-746-910-6, 582 pag, Ed. SITECH, Craiova, p. 325-338, cod CNCIS 170, 2008.
18	PETRESCU F. , GRECU B., COMĂNESCU A., PETRESCU V., <i>Determining the Efficiency of Geared Transmissions</i> , In THE 33RD INTERNATIONAL CONFERENCE ON AUTOMOTIVE ENGINEERING "OFF-ROAD VEHICLES, ORV 2008", "ACADEMIA TEHNICĂ MILITARĂ", Bucharest, Romania, September 25-26 2008, ISBN 978-973-640-149-7, cod CNCIS 158, 2008.
19	PETRESCU F.I. , PETRESCU R.V., <i>Presenting A Dynamic Original Model Used to Study Toothed Gearing with Parallel Axes</i> . In the 13-th edition of SCIENTIFIC CONFERENCE with international participation, Constantin Brâncuși University, Târgu-Jiu, November 2008, I.S.S.N. .
20	PETRESCU, F.I. , PETRESCU, R., <i>Din istoria mecanismelor cu came folosite ca mecanisme de distribuție</i> . Revista Mecanisme și Manipulatoare, Vol. 7, Nr. 2, 2008, p. 69-74, ISSN 1583-4743, 2008.
21	PETRESCU, F.I. , PETRESCU, R.V., <i>Designul motoarelor în V</i> . Revista Ingineria Automobilului, Nr. 11, iunie 2009, p. 11-12, CNCIS 813, ISSN 1842-4074, 2009.
22	PETRESCU, F.I. , PETRESCU, R.V., <i>Un Wankel vă rog!</i> Revista Auto Test, Nr. 149, octombrie 2009, p. 50-53, ISSN 1221-2687, 2009.
23	PETRESCU, R.V., PETRESCU, F.I. , <i>Geared Transmissions Design</i> . In the 3 rd International Conference on Engineering Graphics and Design, ICEGD2009, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, CNCIS 118 B, Vol. Ib, p. 541-544, ISSN 1221-5872, Cluj-Napoca, 2009.
24	PETRESCU, R.V., PETRESCU, F.I. , <i>Otto Engines Design</i> . In the 3 rd International Conference on Engineering Graphics and Design, ICEGD2009, Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, CNCIS 118 B, Vol. Ib, p. 537-540, ISSN 1221-5872, Cluj-Napoca, 2009.
25	PETRESCU, F.I. , GRECU, B., COMĂNESCU, A., PETRESCU, R.V., <i>Some Mechanical Design Elements</i> . In the 3 rd International Conference on Computational Mechanics and Virtual Engineering, COMEC 2009, p. 520-525, ISBN 978-973-598-572-1, Edit. UTB, cod CNCIS 81, Brașov, October 2009.
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29	PETRESCU, F.I. , PETRESCU, R.V., <i>Tipuri de motoare termice cu ardere externă</i> Revista Auto Test, Nr. 156, iunie 2010, p. 48-53, ISSN 1221-2687, 2010.

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31	PETRESCU, F.I. , PETRESCU R.V., <i>Automobilul încotro?-partea I</i> , In revista Auto Test, Nr. 169/octombrie 2011, ISSN 1221-2687, p. 60-61.
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33	PETRESCU, F. , PETRESCU R., <i>Louis Chevrolet, un elvețian în America-partea I</i> , In revista Auto Test, Nr. 173/martie 2012, ISSN 1221-2687, p. 56-59.
34	PETRESCU, F. , PETRESCU R., <i>Louis Chevrolet, un elvețian în America-partea a II -a</i> , In revista Auto Test, Nr. 174/aprilie 2012, ISSN 1221-2687, p. 54-56.
35	PETRESCU, F. , PETRESCU R., <i>Peugeot-partea I</i> , In revista Auto Test, Nr. 176/iunie 2012, ISSN 1221-2687, p. 58-59.
36	PETRESCU, F. , PETRESCU R., <i>Peugeot-partea a II-a</i> , In revista Auto Test, Nr. 177/iulie-august 2012, ISSN 1221-2687, p. 58-60.
37	PETRESCU, R., PETRESCU F. , <i>Nicolae MALAXA - partea I</i> , In revista Auto Test, Nr. 179/octombrie 2012, ISSN 1221-2687, p. 63-65.
38	PETRESCU, R., PETRESCU F. , <i>Nicolae MALAXA – partea a II-a</i> , In revista Auto Test, Nr. 180/noiembrie 2012, ISSN 1221-2687, p. 63-64.
39	PETRESCU, F. , <i>PETRESCU, R. Contribuții la optimizarea legilor polinomiale, de mișcare a tachetului de la mecanisme de distribuție ale motoarelor cu ardere internă. În a V-a Conferință "Economicitatea, Securitatea și Fiabilitatea Autovehiculelor", ESFA'95, București, 1995, Vol. I, p. 249-256.</i>
40	PETRESCU, F. , <i>PETRESCU, R. Contribuții la sinteza mecanismelor de distribuție ale motoarelor cu ardere internă. În a V-a Conferință "Economicitatea, Securitatea și Fiabilitatea Autovehiculelor", ESFA'95, București, 1995, Vol. I, p. 257-264.</i>

V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

B - Brevete de invenție.

A - Inovații și alte creații.

Lista COPYRIGHT-uri:

- 1- Some Mechanical Design Elements: nr. 394 din 17-02-2010 [qodGnhhte], inginerie mecanica;
- 2- Determination of the Mechanical Efficiency of the Gears: nr. 396 din 17-02-2010 [qkzAdFoDBc], inginerie mecanica;
- 3- V Engine Design: nr. 398 din 18-02-2010 [tDGpbsxgrD], inginerie mecanica;
- 4- Cam Gears Dynamics and Profile at the Module B: nr. 421 din 01-03-2010 [qDiazjHkBu], inginerie mecanica;
- 5- Geometria și cinematica sistemelor mecanice mobile seriale: nr. 463 din 20-03-2010 [vpstucGsiy], mecatronica si robotica;
- 6- New Aircraft (New Ionic or Beam Engines): nr. 548 din 22-04-2010 [cgyiwDssin], inginerie aerospaciala;
- 7- Sisteme mecanice mobile, seriale și paralele – Dinamica seriialelor: nr. 631 din 24-05-2010 [sqfsgqvutm], mecatronica si robotica;
- 8- Some Few Specifications About the Doppler Effect to the Electromagnetic Waves: nr. 636 din 28-05-2010 [iEtcaouxXA], fizica;
- 9- Presenting of an Atomic Model and Some Possible Applications in LASER Field: nr. 639 din 29-05-2010 [yncngrotfo], fizica;
- 10- Some Applications in LASER Field: nr. 718 din 09-07-2010 [xeujouincC], fizica;
- 11- The Energies of Today and Tomorrow: nr. 819 din 30-09-2010 [kbHquxwykr], inginerie energetica;
- 12- Sisteme mecanice mobile, Seriale si Paralele: nr. 933 din 07.01.2011 [CrDztEfqow], mecatronica si robotica;
- 13- The Design of Gearings with High Efficiency: nr. 951 din 26.01.2011 [cnBGHgsHGr], inginerie mecanica;
- 14- Obtaining Energy by the Annihilation of the Matter with Antimatter – The Battle for Energy: nr. 1068 din 13.03.2011 [GfEqpGDzeh], inginerie energetica;
- 15- Industrial Design in Mechanical Engineering: nr. 1375 din 02.09.2011 [tnzjHFAqGF], inginerie industrială;
- 16- CLASSICAL DISTRIBUTION MACHINE EQUATIONS (Classical distribution with an efficiency up to 60%): nr. 3679 din 04-01-2015 [vpqggvwrhm], inginerie industrială;
- 17- Simple Planetary Gear Efficiency (A new method to determine with high precision the efficiency of simple planetary gear (train)): nr. 3945 din 20-10-2015 [DmCCpaAbcc], inginerie industrială;

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/străinatate (Pn – nationale, Pi - internationale).

2.5	Proiecte de cercetare/consultanță cu mediul economic			23
	2.5.1.	Director (Responsabil) de Contract Minim 1D sau 2R		
		Naționale/internaționale: 10 * valoare / 10000		
				11
		1	Contract de subcontractare servicii, S.C. EDG CONSULT S.R.L. Str. Vasile Conta, bl. U3, ap. 22, Municipiul Craiova, Dolj, reprezentata prin Petrescu Catalin Doru, si Universitatea Politehnica din Bucuresti, reprezentata prin Mihnea Costoiu, Rector, Doina Adamescu, Director economic, si Florian Ion Petrescu, responsabil contract , Nr. 1190/05.04.2018. in valoare de 11900 lei. Obiectul contractului=Studiu de Trafic in orasul Valenii de Munte. FACT/6/31.07.2018, INCASARE FACT 6/19-06-2018; 11,900.00 lei.	2
		2	Contract de subcontractare servicii, S.C. EDG CONSULT S.R.L. Str. Vasile Conta, bl. U3, ap. 22, Municipiul Craiova, Dolj, reprezentata prin Petrescu Catalin Doru, si Universitatea Politehnica din Bucuresti, reprezentata prin Mihnea Costoiu, Rector, Doina Adamescu, Director economic, si Florian Ion Petrescu, responsabil contract , Nr. 1365/10.08.2018. in valoare de 17850 lei. Obiectul contractului=Studiu de Trafic si analiza emisiilor GES in Municipiul Slobozia. FACT/10/27.02.2019, INCASARE FACT 10/15-02-2019; 17,850.00 lei.	3
		3	Contract de subcontractare servicii, S.C. EDG CONSULT S.R.L. Str. Vasile Conta, bl. U3, ap. 22, Municipiul Craiova, Dolj, reprezentata prin Petrescu Catalin Doru, si Universitatea Politehnica din Bucuresti, reprezentata prin Mihnea Costoiu, Rector, Doina Adamescu, Director economic, si Florian Ion Petrescu, responsabil contract , Nr. 1630/14.02.2019. in valoare de 11900 lei. Obiectul contractului=Studiu de strategie a alimentarii cu energie termica in sistem centralizat a consumatorilor din Municipiul Craiova. FACT/12/15.04.2019, INCASARE FACT 12 SI 13/15.04.2019; 23,800.00 lei.	2
		4	Contract de subcontractare servicii, S.C. EDG CONSULT S.R.L. Str. Vasile Conta, bl. U3, ap. 22, Municipiul Craiova, Dolj, reprezentata prin Petrescu Catalin Doru, si Universitatea Politehnica din Bucuresti, reprezentata prin Mihnea Costoiu, Rector, Doina Adamescu, Director economic, si Florian Ion Petrescu, responsabil contract , Nr. 1665/05.03.2019. in valoare de 11900 lei. Obiectul contractului=Studiul de oportunitate privind fundamentarea deciziei de concesiune a serviciului de alimentare cu energie termică în Municipiul Craiova. FACT/13/17.04.2019, INCASARE FACT 12 SI 13/15.04.2019; 23,800.00 lei.	2
		5	Contract de subcontractare servicii, S.C. EDG CONSULT S.R.L. Str. Vasile Conta, bl. U3, ap. 22, Municipiul Craiova, Dolj, reprezentata prin Petrescu Catalin Doru, si Universitatea Politehnica din Bucuresti, reprezentata prin Mihnea Costoiu, Rector, Doina Adamescu, Director economic, si Florian Ion Petrescu, Director contract , Nr. 2073/13.12.2019. in valoare de 11900 lei. Obiectul prezentului contract este achiziția publică de servicii de consultanță profesională pentru elaborarea Studiului de Oportunitate din cadrul documentației de delegare a gestiunii unor activități componente ale Serviciului de Salubritate a Municipiului Tulcea, pe care prestatorul se obligă să le realizeze în conformitate cu prevederile din prezentul contract și anexele acestuia. FACT/16/25.03.2020, incasare factura 16/25.03.2020; 11,900.00 lei.	2
	2.5.2.	Membru in echipa		
		2.5.2.2	Naționale/internaționale: 2*ani	
				12
		1	Contract de cercetare-integrare din 4 septembrie 1987, nr. 36-5-4 D/1986 din 24IV 1985. Beneficiar CNST. Suma= 45000 lei.	2
		2	Contract de cercetare-integrare din 24 mai 1988, nr. 27-6-5. Beneficiar ICSITA Pitesti. Suma= 26420 lei.	2
		3	Contract de cercetare-integrare din 14 ianuarie 1989, nr. 27-7-7 din 1987. Beneficiar Institutul Central de Constructii de Masini. Suma= 30000 lei.	2