FIŞA DE VERIFICARE

a îndeplinirii standardelor minimale naţionale de ocupare a posturilor didactice, specifice funcţiei de PROFESOR UNIVERSITAR, stabilite de CNATDCU prin Ordin al ministrului Nr. 6560 din 20 Decembrie 2012

Profesor, Departamentul de Organe de Maşini şi Tribologie, Facultatea de Inginerie Mecanică și Mecatronică

Condiţii	**Îndeplinirecondiţii**	
A. Doctor	Diploma de doctor în domeniul Tehnic specialitatea Organe de maşini şi Tribologie, nr. 278 din 02.09.1997, emisă de Universitatea POLITEHNICA din Bucureşti.	
B. Îndeplinirea standardelor minime naţionale conform OMECTS nr. 6560/20.12. 2012; MOf 890 şi 890 bis/27.12.2012	Standarde îndeplinite, confom Comisiei CNATDCU Nr. 17, INGINERIE MECANICĂ, MECATRONICĂ ŞI ROBOTICĂ. Anexată: Fişa de calcul şi de susţinere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizările mentionate.	
Condiţii minimale [Punctaj]	**Minim prevăzut**	**Realizat**
I. Activitatea de cercetare ştiinţifică, dezvoltare tehnologică şi inovare **(CDI)**	10	348.23
2. Activitatea didactică şi profesională **(DID)**	10	17.10
3. Recunoaştere şi impactul activităţii **(RIA)**	10	19.71
TOTAL	**30**	**385**
Condiţii minimale obligatorii	**Minim prevăzut**	**Realizat**
1.1 Articole ştiinţifice publicate în reviste de specialitate cotate ISI sau în reviste/volume indexate ISI sau BDI. **CDI-ART**	6	336.69
2.1 Manuale suport curs, format tipărit sau format electronic. Candidatul trebuie sa fie autorul principal al manualului. **DID-MSC**	6	13.10
3.1 Director grant naţional sau internaţional. **RIA-GRA**	6	12.29
C. Atestarea studiilor (diploma + Foi Matricole) şi a altor realizări profesionale	**Diploma de Inginer + foaie matricolă**, în profilul Mecanic, specializarea, Maşini termice, Nr. 774 din 25.11.1983 (SeriaB-4474) emisă de Institutul Politehnic Bucureşti.	

Subsemnatul, profesor TRAIAN CICONE, , declar pe propria răspundere, cunoscând prevederile art.292 privind falsul în declaraţii, din Legea 286/2009 - Codul Penal, că sunt îndeplinite toate Standardele minimale prevăzute de Metodologia UPB 2013 pentru funcția de profesor [Sectiunea II.3] şi OMECTS 6560/2012 [C+P), şi susţin veridicitatea informaţiilor prezentate în dosar şi în materialul de mai sus. Lucrările considerate a fi incluse în Baza Clarivate Analytics sau în alte Baze de Date Internaţionale [BDI] sunt vizibile în aceste baze, în dreptul numelui candidatului, la această dată.

Traian CICONE Data: 12/07/2017

	CDI-ART: CITARI		TOTAL	336.6
	Referinţa bibliografică a publicaţiei care citează	*FI*	*FI* citare*	
1	**MB Dobrica, M Fillon, MD Pascovici, T Cicone - Optimizing surface texture for hydrodynamic lubricated contacts using a mass-conserving numerical approach- Proc. IMechE, Part J: J. of Engng. Tribology, 224, 8, 737-750 (aug. 2010) doi: 10.1243/13506501JET673** ***WOS:000281483600006***	**1.32**	**134.6**	**136.1**
1	Aggarwal, S., and Pandey, R. K. (2017) Frictional and load-carrying behaviours of micro-textured sector shape pad thrust bearing incorporating the cavitation and thermal effects. **Lubrication Science**, 29: 255–277. doi: 10.1002/ls.1367. WOS:000401000700004	1.514	1.614	
2	Zouzoulas V.,Papadopoulos Christos I. , 3-D thermohydrodynamic analysis of textured, grooved, pocketed and hydrophobic pivoted-pad thrust bearings, **Tribology International**, Vo. 110, June 2017, Pages 426-440, ISSN 0301-679X, https://doi.org/10.1016/j.triboint.2016.10.001. WOS:000398871700042	2.903	3.003	
3	JK Schuh, YH Lee, JT Allison, RH Ewoldt - Design-driven modeling of surface-textured full-film lubricated sliding: validation and rationale of non-standard thrust observations - **Tribology Letters**, 2017 65(2) art, no. 35 dx.doi.org/10.1007/s11249-017-0818-8 WOS:000401437000005	1.891	1.991	
4	Su, BB; Huang, LR; Huang, W; Wang, XL, The load carrying capacity of textured sliding bearings with elastic deformation, **Tribology International**, Volume 109, May 2017, Pages 86-96, ISSN 0301-679X, https://doi.org/10.1016/j.triboint.2016.11.030. WOS:000395611500010	2.903	3.003	
5	Wang, W; He, YY; Zhao, J; Li, Y; Luo, JB, Numerical optimization of the groove texture bottom profile for thrust bearings, **Tribology International**, Volume 109, May 2017, Pages 69-77, ISSN 0301-679X, https://doi.org/10.1016/j.triboint.2016.12.006. WOS:000395611500008	2.903	3.003	
6	Lee, YH; Schuh, JK; Ewoldt, RH; Allison, JT. Enhancing Full-Film Lubrication Performance Via Arbitrary Surface Texture Design. **ASME. J. Mech. Des**. 2017;139(5):053401-053401-13. doi:10.1115/1.4036133. WOS:000399395300009	2.565	2.665	
7	L.R.R. da Silva, H.L. Costa, Tribological behavior of gray cast iron textured by maskless electrochemical texturing, **Wear,** Volumes 376–377, Part B, 15 April 2017, Pages 1601-1610, ISSN 0043-1648, https://doi.org/10.1016/j.wear.2017.01.028.	2.531	2.631	
8	Uddin, M. S., Ibatan, T., and Shankar, S. (2017) Influence of surface texture shape, geometry and orientation on hydrodynamic lubrication performance of plane-to-plane slider surfaces.**Lubrication Science**., 29: 153–181. doi: 10.1002/ls.1362. WOS:000398064300002	1.414	1.514	
9	C. Gachot, A. Rosenkranz, S.M. Hsu, H.L. Costa, A critical assessment of surface texturing for friction and wear improvement, **Wear,** Volumes 372–373, 15 February 2017, Pages 21-41, ISSN 0043-1648, https://doi.org/10.1016/j.wear.2016.11.020. WOS:000394400900003	2.531	2.631	
10	Fu G, Untaroiu A. An Optimum Design Approach for Textured Thrust Bearing With Elliptical-Shape Dimples Using Computational Fluid Dynamics and Design of Experiments Including Cavitation. **ASME. J. Eng. Gas Turbines Power**. 2017;139(9):092502-092502-9. doi:10.1115/1.4036188. WOS:000401330000006	1.534	1.634	
11	Yu R., Chen W. - Research and Prospect of Surface texturing in Industrial Tribology - **J. of Mechanical Engineering** 53 (3) pp. 100-110 **(SCOPUS)**	0	0.1	
12	A. Waseem, İ. Temizer, J. Kato, K. Terada - Homogenization-based design of surface textures in hydrodynamic lubrication - **Intern. J for Numerical Methods in Engineering** doi: 10.1002/nme.5256 WOS:000387761900001	2.162	2.262	
13	Trauth, D., Stanke, J., Shirobokov, A. et al. - Analysis of the fluid pressure, load capacity, and coefficient of friction of an elliptic machine hammer peened surface structure in hydrodynamic lubrication **Production Engineering-Research and Development** Dec. 2016, Vol. 10, Iss. 6, pp 539–550 DOI: 10.1007/s11740-016-0696-1 WOS:000387413000001	0	0.1	
14	Q Lin, Z Wei, S Ma, Y Zhang, N Wang - Visualization investigation on flow field of journal bearing with partial texture surface - **Lubrication Science**, DOI: 10.1002/ls.1339 WOS:000385726400002	1.414	1.514	
15	MP Noutary, N Biboulet, AA Lubrecht - A robust piston ring lubrication solver: Influence of liner groove shape, depth and density - **Tribology International**, Vol. 100, p. 35-40, doi:10.1016/j.triboint.2016.02.027 *WOS:000379279600006*	2.903	3.003	
16	Bai, LQ; Meng, YG; Zhang, V - Experimental Study on Transient Behavior of Cavitation Phenomenon in Textured Thrust Bearings, **Tribology Letters,** August 2016, 63:27, doi:10.1007/s11249-016-0715-6 *WOS:000380252400014*	1.891	1.991	

17	AF Quiñonez, GE Morales-Espejel - Surface roughness effects in hydrodynamic bearings **Tribology International** Vol 98, (June 2016), pp 212–219 doi:10.1016/j.triboint.2016.02.027 *WOS:000374426000022*	2.903	3.003
18	JK Schuh, RH Ewoldt - Asymmetric surface textures decrease friction with Newtonian fluids in full film lubricated sliding contact-- **Tribology International** Vol. 97, pp 490–498 (May 2016) doi:10.1016/j.triboint.2016.01.016 *WOS:000374194900048*	2.903	3.003
19	D Trauth, F Klocke, M. Terhorst and P. Mattfeld - Computational Fluid Dynamics Analysis of a Machine Hammer Peened Surface Structure for Lubricated Sliding Contacts - **ASME Journal of Tribology** Paper No: TRIB-15-1139; doi: 10.1115/1.4031782 *WOS:000371388800024*	1.521	1.621
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21	SC Sharma, SK Yadav - A comparative study of full and partial textured hybrid orifice compensated circular thrust pad bearing system - **Tribology International** Vol. 95, pp 170–180 (March 2016) doi:10.1016/j.triboint.2015.11.008 *WOS:000371103400020*	2.903	3.003
22	K Yagi, J Sugimura - Balancing wedge action in textured converging bearings- **Proceed.of the IMechE, Part J: J. of Engineering Tribology** vol. 230 no. 3 pp 241-256 (March 2016) doi: 10.1177/1350650115596541 *WOS:000370427300001*	1.32	1.42
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25	D Gropper, L Wang, TJ Harvey - Hydrodynamic lubrication of textured surfaces: A review of modeling techniques and key findings **Tribology International** Vol. 94, pp 509–529 (Feb 2016) doi:10.1016/j.triboint.2015.10.009 *WOS:000367757000057*	2.903	3.003
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28	D Trauth, A Feuerhack, P Mattfeld, F Klocke - Analysis of the Velocity Distribution of an Elliptic Surface Structure Manufactured by Machine Hammer Peening - **Tribology Letters** - Vol 60, Issue 19, (oct. 2015) doi:10.1007/s11249-015-0595-1 *WOS:000363051300019*	1.891	1.991
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32	S. K. Pavlioglou, M. E. Mastrokalos, C. I. Papadopoulos and L. Kaiktsis; Tribological Optimization of Thrust Bearings Operated With Lubricants of Spatially Varying Viscosity; **J. Eng. Gas Turbines Power** 137(2), 022503 (Sep 10, 2014) doi: 10.1115/1.4028371 *WOS:000348050800014*	1.534	1.634
33	Y. Henry, J,. Bouyer, M. Fillon; An experimental analysis of the hydrodynamic contribution of textured thrust bearings during steady-state operation: A comparison with the untextured parallel surface configuration; **Proceed.of the IMechE, Part J: J. of Engineering Tribology** vol. 229 no. 4 362-375(April 2015) doi: 10.1177/1350650114537484 *WOS:000352069600005*	1.32	1.42
34	N Biboulet, H. Bouassida, AA Lubrecht - Cross hatched texture influence on the load carrying capacity of oil control rings - **Tribology International** Vol 82, Part A, pp 12-19 (Feb 2015) doi:10.1016/j.triboint.2014.09.024 *WOS:000347753200002*	2.903	3.003

35	T Woloszynski, , P. Podsiadlo, G.W. Stachowiak - Efficient solution to the cavitation problem in hydrodynamic lubrication - **Tribology Letters** - Vol 58, Issue 18, (Apr. 2015) doi:10.1007/s11249-015-0487-4 *WOS:000351389500018*	1.891	1.991
36	Dimitrios G Fouflias et al. , Performance comparison between textured, pocket, and tapered-land sector-pad thrust bearings using computational fluid dynamics thermohydrodynamic analysis, **Proceed.of the IMechE, Part J: J. of Engineering Tribology,** vol. 229 no. 4 376-397 (April 2015) doi: 10.1177/1350650114550346 *WOS:000352069600006*	1.32	1.42
37	HM Checo, A Jaramillo, M Jai, GC Buscaglia - Texture-induced cavitation bubbles and friction reduction in the Elrod–Adams model - **Proc. IMechE, Part J: J. of Engng. Tribology**, vol. 229 no. 4 pp. 478-492, doi: 10.1177/1350650114550012 *WOS:000352069600013*	1.32	1.42
38	T Woloszynski, , P. Podsiadlo, G.W. Stachowiak - Evaluation of Discretisation and Integration Methods for the Analysis of Hydrodynamic Bearings With and Without Surface Texturing **-Proceed.of the IMechE, Part J: J. of Engineering Tribology, -** vol. 229 no. 4 465-477 (April 2015) doi: 10.1177/1350650114544711 *WOS:000352069600012*	1.891	1.991
39	Q Lin, Z Wei, N Wang, W Chen - Effect of large-area texture/slip surface on journal bearing considering cavitation - **Industrial Lubrication and Tribology**, Vol. 67(2015) Iss: 3, pp.216 - 226, http://dx.doi.org/10.1108/ILT-05-2013-0055 *WOS:000353971900004*	0.605	0.705
40	Q Lin, Z Wei, N Wang, W Chen -EFFECTS OF LARGE-AREA TEXTURED/SLIP SURFACE ON SLIDER BEARING **- J OF THE BALKAN TRIBOLOGICAL ASSOCIATION (JBTA),** Vol. 21(2015) Iss: 1, pp.12 - 23, *WOS:000353529500002*	0.605	0.705
41	Q Lin, B Li - Comparison of the Influences of Surface Texture and Boundary Slip on Tribological Performances - Hindawi **Mathematical Problems in Engineering** - Article ID 126824 (2015), http://dx.doi.org/10.1155/2015/126824 *WOS:000359558000001*	0.802	0.902
42	AR Gherca, A Fatu, P Maspeyrot, M Hajjam -Effects of surface texturing in steady-state and transient flow conditions: Two-dimensional numerical simulation using a mass-conserving cavitation model - **Proc. IMechE, Part J: J. of Engng. Tribology,** vol. 229(2015) no. 4 pp. 505-522, doi: 10.1177/1350650114546432 *WOS:000352069600015*	1.32	1.42
43	M. Qiu, B. Raeymaekers -The load-carrying capacity and friction coefficient of incompressible textured parallel slider bearings with surface roughness inside the texture features;**Proceed.of the IMechE, Part J: J. of Engineering Tribology** July vol. 229 no. 4 547-556 (April 2015) doi: 10.1177/1350650114545352 *WOS:000352069600018*	1.32	1.42
44	D Trauth, A Feuerhack, P Mattfeld, F Klocke - 2D-CFD analysis of the fluid pressure and velocity distribution of experimentally machine hammer peened surface structures in hydrodynamic applications - **Applied Mechanics and Materials** - Vol 794 (2015), p174-181 Article · October 2015 DOI: 10.4028/www.scientific.net/AMM.794.174	0	0.1
45	Charitopoulos, A; Fouflias, D; Papadopoulos, C I, Kaiktsis, L., Fillon, M.- Thermohydrodynamic analysis of a textured sector-pad thrust bearing: effects on mechanical deformations **Mechanics & Industry** 15.5 (2014): 403-411, http://dx.doi.org/10.1051/meca/2014048 *WOS:000342214800008*	0.393	0.493
46	Hirayama T, Shiotani H, Yamada K, et al. Hydrodynamic Performance Produced by Nanotexturing in Submicrometer Clearance With Surface Roughness. **ASME. J. Tribology** 2014;137(1):011704-011704-8. doi:10.1115/1.4028736. *WOS:000345899800020*	1.521	1.621
47	C. I. Papadopoulos, L. Kaiktsis and M. Fillon; Computational fluid dynamics thermohydrodynamic analysis of three-dimensional sector-pad thrust bearings with rectangular dimples;**ASME J. of Tribology**,136,1, 011702 (ian. 2014) doi:10.1115/1.4025245 *WOS:000327760400014*	1.521	1.621
48	L Wang, W Wang, H Wang, T. Ma, Y. Hu - Numerical Analysis on the Factors Affecting the Hydrodynamic Performance for the Parallel Surfaces With Microtextures - **ASME J. of Tribology,**136,2, 021702 (ian. 2014) Paper No: TRIB-12-1128; doi: 10.1115/1.4026060 *WOS:000332128600020*	1.521	1.621
49	Ji J., Fu Y., Bi Q.; Influence of Geometric Shapes on the Hydrodynamic Lubrication of a Partially Textured Slider With Micro-Grooves; **ASME J. of Tribology** 136, 4, 041702 (oct 2014) Paper No: TRIB-12-1001; doi: 10.1115/1.4027633 *WOS:000341775600013*	1.521	1.621
50	Ismail S., Sarangi M.; Effects of texture shape and fluid-solid interfacial slip on the hydrodynamic lubrication performance of parallel sliding contacts; **Proceed.of the IMechE, Part J: J. of Engineering Tribology,** vol. 228 no. 4 376-397 (april 2014) doi: 10.1177/1350650113511960 *WOS:000332823500002*	1.32	1.42

51	Tauviqirrahmana, Muchammada, Jamarib & Dik J. Schipper, Numerical Study of the Load-Carrying Capacity of Lubricated Parallel Sliding Textured Surfaces including Wall Slip, **Tribology Transactions**, 57, 1, pages 134-145 2014 DOI:10.1080/10402004.2013.854943 *WOS:000328929000015*	1.685	1.785
52	Shen, C; Khonsari, MM - Effect of Dimple's Internal Structure on Hydrodynamic Lubrication - **Tribology Letters** - Vol 52, Iss. 13, pp. 415-430 (dec. 2013) doi: 10.1007/s11249-013-0225-8 *WOS:000326892900006*	1.891	1.991
53	M Qiu, BR Minson, B Raeymaekers - The effect of texture shape on the friction coefficient and stiffness of gas-lubricated parallel slider bearings **- Tribology International** Vol 67, pp 278–288 (Nov. 2013)– doi:10.1016/j.triboint.2013.08.004 *WOS:000326131700034*	2.903	3.003
54	M Tauviqirrahman, R Ismail, J Jamari, DJ Schipper Combined effect of texturing and boundary slippage in lubricated sliding contacts- **Tribology International**, vol 66, pp 274–281 (oct. 2013) doi:10.1016/j.triboint.2013.05.014 *WOS:000324358700034*	2.903	3.003
55	T Woloszynski, , P. Podsiadlo, G.W. Stachowiak - Evaluation of Discretisation and Integration Methods for the Analysis of Hydrodynamic Bearings With and Without Surface Texturing - **Tribology Letters -** Vol 51, Issue 1, (2013) p. 25-47 doi:10.1007/s11249-015-0487-4 *WOS:000319763300003*	1.891	1.991
56	M Tauviqirrahman, R Ismail, J Jamari, DJ Schipper - A study of surface texturing and boundary slip on improving the load support of lubricated parallel sliding contacts **- Acta Mechanica** , Vol 224, Issue 2, pp 365-381 (Feb 2013) doi:10.1007/s00707-012-0752-7 *WOS:000314060300008*	1.851	1.951
59	A Ramesh, W Akram, SP Mishra, AH Cannon,Polycarpou, AA , King, WP Friction characteristics of microtextured surfaces under mixed and hydrodynamic lubrication **Tribology International** 57, (ian 2013) pp. 170-176 – doi:10.1016/j.triboint.2012.07.020 *WOS:000311474800020*	2.903	3.003
60	Mingfeng Qiu, Adis Delic, Bart Raeymaekers - The Effect of Texture Shape on the Load-Carrying Capacity of Gas-Lubricated Parallel Slider Bearings - **Tribology Letters** - Vol 48, Issue 3, pp 315-327(Dec. 2012) doi:10.1007/s11249-012-0027-4 *WOS:000310020900005*	1.891	1.991
61	CI Papadopoulos, PG Nikolakopoulos L.Kaiktsis- Characterization of Stiffness and Damping in Textured Sector Pad Micro Thrust Bearings Using Computational Fluid Dynamics - **ASME Journal of engineering for gas turbines and power,** 134, 11, 112502 (9 pages) doi:10.1115/1.4007320 *WOS:000309664000014*	1.534	1.634
63	B Podgornik, LM Vilhena, M Sedlaček, Z Rek, I Žun -Effectiveness and design of surface texturing for different lubrication regimes - **Meccanica,** Vol 47, Iss 7, pp 1613-1622 (Oct. 2012), DOI:10.1007/s11012-012-9540-7 *WOS:000307268600005*	2.196	2.296
64	GB Gadeschi, K Backhaus, G Knoll - Numerical Analysis of Laser-Textured Piston-Rings in the Hydrodynamic Lubrication Regime - ASME J. of Tribology 134(4), 041702 (Sep 04, 2012) doi:10.1115/1.4007347 *WOS:000309073100015*	1.521	1.621
65	B. Podgornik and M. Sedlacek - Performance, Characterization and Design of Textured Surfaces - ASME J. of Tribology 134(4), 041701 (Aug 21, 2012) doi:10.1115/1.4007108 *WOS:000309073100014*	1.521	1.621
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68	M Sedlaček, B Podgornik, J Vižintin - Planning surface texturing for reduced friction in lubricated sliding using surface roughness parameters skewness and kurtosis- **Proceed.of the IMechE, Part J: J. of Engineering Tribology** vol. 226 no. 8 661-667 (aug 2012) doi: 10.1177/1350650112439809 *WOS:000309204500002*	1.32	1.42
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71	C. I. Papadopoulos, E. E. Efstathiou, P. G. Nikolakopoulos and L. Kaiktsis - Geometry Optimization of Textured Three-Dimensional Micro- Thrust Bearings - **ASME Journal of Tribology** 33(4), 041702 (Oct 14, 2011) doi:10.1115/1.4004990 *WOS:000301648300012*	1.521	1.621
72	X Shi, T Ni - Effects of groove textures on fully lubricated sliding with cavitation - **Tribology International** Vol. 44, Issue 12,Pages 2022–2028 (Nov. 2011) doi:10.1016/j.triboint.2011.08.018 *WOS:000297824800049*	2.903	3.003

73	N Tala-Ighil, M Fillon, P Maspeyrot - Effect of textured area on the performances of a hydrodynamic journal bearing, **Tribology International,** Vol. 44, (2011), pp 211–219 doi:10.1016/j.triboint.2011.02.032 *WOS:000286552100003 (SCOPUS)*	2.903	3.003	
74	N Tala-Ighil, M Fillon, P Maspeyrot - Influence of texture surface arrangement on hydrodynamic journal bearing performance Int. Brazilian Conf. on Tribology (2010), pp 126-137 doi:10.1016/j.triboint.2011.02.032 *(SCOPUS)*	0	0.1	
2	**MD Pascovici, T Cicone, M Fillon, MB Dobrica- Analytical investigation of a partially textured parallel slider- Proc. IMechE, Part J: J. of Engng. Tribology 223(2009),2,151-158 doi: 10.1243/13506501JET470 WOS:000264689700003**	**1.32**	**104.0**	**105.4**
1	Fu G, Untaroiu A. An Optimum Design Approach for Textured Thrust Bearing With Elliptical-Shape Dimples Using Computational Fluid Dynamics and Design of Experiments Including Cavitation. **ASME. J. Eng. Gas Turbines Power**. 2017;139(9):092502-092502-9. doi:10.1115/1.4036188. WOS:000401330000006	1.534	1.634	
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5	**MD Pascovici, T Cicone, V Marian - Squeeze process under impact, in highly compressible porous layers, imbibed with liquids Tribology International, Vol 42, Issue 10, (Oct. 2009), pp 1433–1438 doi:10.1016/j.triboint.2009.05.006 *WOS:000270126500005***	**2.903**	**11.65**	**14.7**
1	Cârlescu, V., Olaru, D. N., Prisăcaru, G., Oprişan, C., & Machado, J. (2017). Sensors and Actuators on Determining Parameters for Being Considered in Selection of Elastomers for Biomimetic Hands. Sensors, 17(6), 1190. DOI: 10.3390/s17061190 *(SCOPUS)*	2.677	2.777	
2	R Crawford, R Nathan, L Wang, Q Wu -Experimental study on the lift generation inside a random synthetic porous layer under rapid compaction- **Experimental Thermal and Fluid Science,** Vol. 36, pp 205–216 (Jan 2012) *WOS:000298124000021*	2.83	2.93	
3	MB Ilie, MD Pascovici, VG Marian - Squeeze processes in a narrow circular damper with highly compressible porous layer imbibed with liquids - **Proceed.of the IMechE, Part J: J. of Engineering Tribology,** vol. 225 no. 6 539-549 (June 2011) doi:10.1177/1350650111399992 *WOS:000292943400013*	1.32	1.42	
4	C.S. Popescu - Dynamic permeability of highly compressible porous layers under squeeze at constant velocity and under impact- Tribology International, Vol. 44, Iss 3, 272–283 (March 2011) doi:10.1016/j.triboint.2010.10.030 WOS:000286552100010	2.903	3.003	
5	C.S. Popescu - NUMERICAL STUDY OF DYNAMIC LOADING IN EX-POROHYDRODYNAMIC LUBRICATION. 3D CASE STUDY: HUMAN FOOTPRINT IMPACT OVER A HIGHLY COMPRESSIBLE POROUS LAYER SATURATED WITH WATER - **U.P.B. Sci. Bull.**, Series D, Vol. 73, Iss. 2, 2011 *(SCOPUS)*	0	0.1	
6	MD Pascovici, CS Popescu,V. Marian - Impact of a rigid sphere on a highly compressible porous layer imbibed with a Newtonian liquid - **Proceed.of the IMechE, Part J: J. of Engineering Tribology** vol. 224 no. 8 789-795 (aug 2010) doi: 10.1243/13506501JET7759 *WOS:000281483600011*	1.32	1.42	
6	**Cicone, T., Pascovici, M.D., Tournerie B. - Nonisothermal Performance Characteristics of Fluid Film Mechanical Face Seals. Proceed.of the IMechE, Part J: J. of Engineering Tribology Vol 215 (2001) Part J, pp. 35-44. doi: 10.1243/1350650011541729 *WOS:000167767100004***	**1.32**	**6.8**	**8.25**
1	K Xiao, W Huang, W Gao, X Liu, Y Wang -A Semi-analytical Model of Spiral Groove Face Seals: Correction and Extension - **Tribology Transactions** Vol 59 Issue 3, (2016) DOI:10.1080/10402004.2015.1126876 *WOS:000386343600001*	1.685	1.785	
2	Chen, H. L., et al. "The thermal and mechanical deformation study of up-stream pumping mechanical seal." **IOP Conference Series: Materials Science and Engineering**. Vol. 72. No. 4. IOP Publishing, 2015. doi:10.1088/1757-899X/72/4/042032 *WOS:000352315200032*	0	0.1	

	3	N Brunetière,A. Apotolescu - A Simple Approach to the ThermoElastoHydroDynamic Behavior of Mechanical Face Seals **Tribology Transactions** Vol 52, Issue 2, (2009) DOI:10.1080/10402000802441587 *WOS:000264554600001*	1.685	1.785
	4	Zhou, JF; Gu, BQ; Ye, C -An improved design of spiral groove mechanical seal- **Chinese Journal of Chemical Engineering**, Vol. 15, Iss. 4, (Aug 2007), pp 499–506 doi:10.1016/S1004-9541(07)60115-3 *WOS:000249285600007*	1.174	1.274
	5	N Brunetière, B Tournerie, J Frěne - A simple and easy-to-use TEHD model for non-contacting liquid face seals **Tribology Transactions** Vol 46 Issue 2, 187-192 (2003) DOI:10.1080/10402000308982615 *WOS:000182496800005*	1.685	1.785
	6	Peter A. J. Achten and Marc P. A. Schellekens - Deformation Effects on the Load Carrying Capacity of the Barrel Bearing in Axial Piston Pumps and Motors - **ASME Proceedings -Fluid Power Systems and Technology** PaperIMECE2006-13223, pp. 9-21 (ASME 2006 Intern.Mech. Engng Congress and Exposition Fluid Power Systems and Techn. Chicago, Illinois, USA, Nov. 5–10,2006) doi:10.1115/IMECE2006-13223 *(SCOPUS)*	0	0.1
7	**T.Cicone, M.D. Pascovici, A. Minculescu - A Simplified Thermo-Elasto-Hydrodynamic Model for a Parallel Surface Slider Tribology International 41 (2008) Issues 9-10 (Sept.-Oct), Pages 947-953 - doi:10.1016/j.triboint.2008.04.001 *WOS:000257736800019***	**2.903**	**4.4**	**7.4**
	1	M Fesanghary, MM Khonsari -On the modeling and shape optimization of hydrodynamic flexible-pad thrust bearings - **Proceed.of the IMechE, Part J: J. of Engineering Tribology** vol.221 no. 6 pp. 717-725 (june 2007) doi: 10.1177/1350650112464323 *WOS:000319224100003*	1.32	1.42
	2	L Heirendt, HHT Liu, P Wang - Aircraft landing gear greased slider bearing steady-state thermo-elastohydrodynamic concept model - **Tribology International** - Vol. 82, Part B, (Feb. 2015), pp 453–463 doi:10.1016/j.triboint.2014.04.001 *WOS:000347753300022*	2.903	3.003
8	**Melciu IC, Cicone T.,Pascovici MD , Saturated porous layers squeezed between parallel disks in enclosed cells, IOP Conference Series: Materials Science and Engineering 174 (1), 012031Published: 2017 DOI: 10.1088/1757-899X/174/1/012031 *WOS:000399753500031***	0	0	**0.1**
9	**Radoi, M.; Cicone, T. Analytical and finite element simulation of a three-bar torsion spring - 7-TH INT. CONF. ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING (ACME) IOP Conference Series-Materials Science and Engineering Vol: 147 Article Number: UNSP 012008 Published: 2016 DOI: 10.1088/1757-899X/147/1/012008 *WOS:000390720200008***	0	0	**0.1**
10	**Radu, M., Cicone, T., Experimental determination of the damping capacity of highly compressible porous materials imbibed with water, în curs de publicare în Journal of Balkan Tribological Association, 22, No. 1 (2016) pp. 390-400, ISSN 1310-4772 *WOS:000374619000037***	0.74	0	**0.8**
11	**M Radu, B Bou-Said, T Cicone -Experimental determination of viscoelastic properties of a highly compressible porous materials imbibed with water -Mechanics & Industry, Vol. 16, No 6, p. 606, (2015) http://dx.doi.org/10.1051/meca/2015044 *WOS:000363258300006***	0.39	0	**0.5**
12	**M.B. Ilie, T.Cicone, M.D. Pascovici (2012) *Accuracy of analytical models for squeeze of rigid spheres on highly compressible porous layers imbibed with liquid* . Journal of the Balkan Tribological Association, 1. p. 124-132 *WOS:000302843400012***	0.74	0	**0.8**
13	**M.D. Pascovici, A. Predescu, T. Cicone, C.S. Popescu, (2011), Experimental evidence of cavitational effects in a Rayleigh step slider, Proceed.of the IMechE, Part J: J. of Engineering Tribology vol. 225, Iss. 6 (June 2011) pp 225: 527 doi: 10.1177/1350650111403996 *WOS:000292799400020***	1.32	0.1	**1.5**

	1	UP Singh, RS Gupta - Dynamic performance characteristics of a curved slider bearing operating with ferrofluids - **Advances in Tribology** - Hindawi Volume 2012, Article ID 278723 http://dx.doi.org/10.1155/2012/278723	0	0.1	
14	**M.B. Dobrică, M. Fillon, M.D. Pascovici, T. Cicone – Texturing effects in plane-inclined slider bearings, Proceed. of the STLE/ASME Int. Joint Tribology Conf. IJTC2007 Oct.r 22-24, 2007, p. 269-271 (published 2008) San Diego, CA, USA doi:10.1115/IJTC2007-44258**		**0**	**5.14**	**5.2**
	1	Ji J., Fu Y., Bi Q.; Influence of Geometric Shapes on the Hydrodynamic Lubrication of a Partially Textured Slider With Micro-Grooves; **ASME J. of Tribology** 136, 4, 041702 (oct 2014) Paper No: TRIB-12-1001; doi: 10.1115/1.4027633 *WOS:000341775600013 (SCOPUS)*	1.521	1.621	
	2	A Guzek, P Podsiadlo, GW Stachowiak - Optimization of Textured Surface in 2D Parallel Bearings Governed by the Reynolds Equation Including Cavitation and Temperature -**Japanese Society of Tribologists Tribology Online,** Vol. 8 (2013) No. 1 ITC Hiroshima 2011 Special issue, Part II p. 7-21 - http://doi.org/10.2474/trol.8.7 *(SCOPUS)*	0	0.1	
	3	Y Fu, J Ji, Q Bi - The influence of partially textured slider with oriented parabolic grooves on the behavior of hydrodynamic lubrication - **Tribology Transactions**, 55, 2, 2012 DOI:10.1080/10402004.2011.643854 *WOS:000303590300007 (SCOPUS)*	1.685	1.785	
	4	C.I. Papadopoulos, P.G. Nikolakopoulos and L. Kaiktsis - Evolutionary Optimization of Micro-Thrust Bearings With Periodic Partial Trapezoidal Surface Texturing - **ASME Journal of Engineering for Gas Turbines and Power**, 133(1), 012301, doi:10.1115/1.4001990 *WOS:000282274800015 (SCOPUS)*	1.534	1.634	
15	**Cicone, T., Tournerie, B., Brunetière, N., Frêne J., - Analysis of Lubrication Regime Transitions Experimentally Observed in Liquid Face-Seals, Using an Analytical Model of Thermoelastic Distortions - BHR Group Conference Series. Publication No. 42 (2000), pp 449-464. WOS:000166734000032**		**0**	**3.0**	**3.1**
	1	Z Luan, MM Khonsari - Heat transfer analysis in mechanical seals using fin theory - **Proceed.of the IMechE, Part J: J. of Engineering Tribology** vol.221 no. 6 pp. 717-725 (june 2007) doi: 10.1243/13506501JET285 *WOS:000250621700008 (G-Scholar)*	1.32	1.42	
	2	N Brunetière, B Tournerie, J Frene - TEHD lubrication of mechanical face seals in stable tracking mode: Part. 1 Numerical model and experiments - **ASME Journal of Tribology** 125(3), 608-616 (Jun 19, 2003) doi:10.1115/1.1510885	1.521	1.621	
16	**T. Cicone, B. Tournerie - A Simple Analytical Model for Calculation of Transient Thermal Effects in Mechanical Face Seals. Proc. of the 9th Nordic Symp. on Tribology, June 11-14, 2000, vol. 3, pp 838-848. ISBN:951-38-5278-4. *WOS:000165636200021***		0	0	**0.1**
17	**Radu, M., Cicone, T. -Squeeze effects of an infinitely long, rigid cylinder on a highly compressible porous layer imbibed with liquid - (2014) UPB Scientific Bulletin, Series D: Mechanical Engineering, 76 (4), pp. 91-102. *(SCOPUS)***		0	0	**0.1**
18	**Turtoi P.,Cicone T., Fatu A. - Experimental and theoretical analysis of (water) permeability variation of nonwoven textiles subjected to compression, Mechanics & Industry 18 (3), 307 (2017) http://dx.doi.org/10.1051/meca/2015044 *(SCOPUS)***		0.393	0	**0.5**
19	**Ilie, M.-B., Pascovici, M.D., Cicone, T., Predescu, A. -Compliant porous layers imbibed with liquids squeezed at constant velocity by a rigid sphere - (2011) UPB Scientific Bulletin, Series D: Mechanical Engineering, 73 (4), pp. 111-124. *(SCOPUS)***		0	0	**0.1**
20	**A. Fatu, B. Tournerie, T. Cicone - Etude parametrique des joints d'etancheite a faces radiales au cours de demarrage, en utilisant un modele TEHD 1-D – Mechanics & Industry, Vol. 6, No 6, pp. 615-623, (2005) – ISSN-1296-2139 DOI 10.1051-meca:2005052 *(SCOPUS)***		0.393	0	**0.5**

21	**A. Minculescu, T. Cicone- Parametric Analysis of a Hydrodynamic Thrust Bearing with Elastic Slider - Analele Universităţii "DUNAREA DE JOS" din Galaţi, Fascicle VIII, TRIBOLOGY, no. 1/2005, pp. 101-106** ***(CSA- 2007)***	**0**	**1.42**	**1.5**
	1 M Fesanghary, MM Khonsari -On the modeling and shape optimization of hydrodynamic flexible-pad thrust bearings - Proceed.of the IMechE, Part J: J. of Engineering Tribology vol.221 no. 6 pp. 717-725 (june 2007) doi: 10.1177/1350650112464323 *WOS:000319224100003*	1.32	1.42	

Observatii:

FI conform 2016 JCR Science Edition [ISI Web of Knowledge]

Factorul de impact corectat FI* ia în considerare articolele în publicatii indexate BDI sau indexate ISI (fără factor de impact) prin valoarea de prag 0.1

- Se pot lua în considerare articolele cu FI*articol = 0 dar cu FI*citare > 0
- Se exclud autocitările

Criteriul CDI-MON

DESCRIERE		Nr. pag.	Punctaj
Monografii de specialitate sau capitole in monografii de specialitate (1 punct = 50 pagini)	J. Frene, T. Cicone-"FRICTION IN LUBRICATED CONTACTS" cap. 8.4. din LEMAITRE HANDBOOK OF MATERIALS BEHAVIOR MODELS Academic Press, 2001, ISBN 0-12-443341-3	7	**0.70**
	E. Miriţă, T.Cicone, G. Dobre - SISTEME CU ŞURUBURI DE MIŞCARE - ÎNDRUMAR DE PROIECTARE, Ed. PRINTECH Bucureşti,1997, ISBN 973-9402-39-9	120	**2.40**
	M.D. Pascovici, T. Cicone – *ELEMENTE DE TRIBOLOGIE* **-** Editura BREN Bucureşti 2002 ISBN 973-8143-41-1 - **CIP 621.891**	218	**4.36**
	R.M. Carp-Ciocârdia, M.D.Pascovici, Şt. Stanciu, G. Stoica, I. Voica, P.L. Seiciu, T. Cicone, S. Cănănău – PRINCIPIILE PROIECTĂRII ÎN CONSTRUCŢIA DE MAŞINI - Teste –Ed. BREN, Bucureşti 2000 ISBN 973-9493-99-8	204	**4.08**
	TOTAL CDI-MON		**11.54**

Criteriul DID

INDICATORI DID	DESCRIERE		Nr. pag.	Punctaj
DID-MSC (min. 60% din punctaj minimal)	Manuale suport curs, format tiparit sau format electronic (1 punct = 50 pagini)	T. Cicone, M.D. Pascovici – APLICAŢIILE LUBRIFICAŢIEI - Editura PRINTECH Bucureşti 2006 ISBN 978-973-718-727-7	109	**2.18**
		T. Cicone, M.D. Pascovici – Etanșări cu perii – Ed. BREN Bucureşti 2007, ISBN 978-973-648-645-4 CIP : 750.2	166	**3.32**
		T. Cicone - TRIBOLOGY – Laboratory, Ed. BREN Bucureşti, 2007, ISBN 978-973-718-739-0	39	**0.78**
		T. Cicone, Şt Stanciu, S. Cănănău, E. Barbu, P.L.Seiciu, C. Păuna.– TRANSMISII MECANICE- Teste, Ed. BREN, Bucureşti 2001, ISBN 973-8143-40-3.	100	**2.00**
		T. Cicone – *MACHINE ELEMENTS (curs pentru studentii de la sectia "Autovehicule Rutiere")* . *Format electronic*	180	**3.60**
		T. Cicone –ORGANE DE MASINI - probleme de examen *(pentru studentii FILS)* . *Format electronic*	80	**1.60**
		T. Cicone –ORGANE DE MASINI curs pentru studentii de la sectia "Autovehicule Rutiere" . *Format electronic*	90	**1.80**
			Total	**13.10**
DID-LAB	Standuri/laboratoare pentru activităti didactice realizate sau dezvoltate de candidat, cu lucrări de laborator elaborate de candidat si incluse în îndrumător laborator format tipărit sau format electronic (1 punct = o lucrare de laborator cu infrastructura realizata/dezvoltata de candidat)	Determinarea caracteristicii arcurilor inelare		**1**
		Determinarea experimentala a frecarii din rulmenti		**1**
		Laborator Tribologie - Lagar radial hidrodinamic		**1**
		Laborator Tribologie - Reazem axial hidrostatic		**1**
			Total	**4**
			TOTAL DID-LAB=	**17.1**

Criteriul RIA

Indicatori RIA		Descriere	Val (RON/EURO)	Punctaj
Contributie principală (minim 60%) în calitate de director grant/proiect				**12.29**
RIA-GRA	**Director /responsabil partener grant international***			**0.00**
	1	Etudes TEHD des joints d'étanchéité à faces radiales. *Grant de recherche Post Doctorale de la Région Poitou Charentes. Convention N°99/RPC-R-17 en date du 26 janvier 1999*	**15000**	**0.00**
	Director / responsabil partener grant national**			**12.29**
	1	Grant CNCSIS 734/2001 "Studiul elasto-hidrodinamic al etansarilor axiale cu segmente elastice, cu film fluid", **Tema A43-34967/2001** - Studiu de sinteză privind construcţia şi funcţionarea etanşărilor axiale cu segmente elastice	**2950**	**0.06**
	2	Grant CNCSIS 151/2002"Studiul elasto-hidrodinamic al etansarilor axiale cu segmente elastice, cu film fluid", **Tema A58- 33784/2002** - Modelarea macro-elasto-hidrodinamică, bidimensională.	**4500**	**0.09**
	3	Grant CNCSIS 1458/2004 "Modele avansate, termo-elasto-hidrodinamice, pentru analiza funcţionării în regim tranzitoriu, a etanşărilor mecanice cu film fluid"- **ME-14/04/08**-Model termo-elasto-hidrodinamic simplificat, pentru regimul tranzitoriu (2D)	**8000**	**0.16**
	4	Grant CNCSIS 34694/24.06.2005 "Modele avansate, termo-elasto-hidrodinamice, pentru analiza funcţionării în regim tranzitoriu, a etanşărilor mecanice cu film fluid" Tema **ME-14/05/03**-Analiza parametrica a performanţelor etanşării	**12000**	**0.24**
	5	Grant CNCSIS A-292/2006. „*Studiul termo-elasto-hidrodinamic (TEHD) al lagarelor axiale cu sectoare deformabile* "-**ME 14/06/02** Modele termo-elasto-hidrodinamice simplificate, cu solutie analitica	**28000**	**0.56**
	6	Grant CNCSIS A-292/2007 „Studiul termo-elasto-hidrodinamic (TEHD) al lagarelor axiale cu sectoare deformabile" Tema 14 (**ME 14/07/01**) Modelarea numerica, termo-elasto-hidrodinamica a lagarelor axiale cu sectoare deformabile	**30500**	**0.61**
	7	Grant CNCSIS A122 "STUDIUL CONSECINŢELOR DEFECTELOR ASUPRA PERFORMANŢELOR ŞI SIGURANŢEI LAGĂRELOR CU ALUNECARE DE MARE IMPORTANŢĂ" Tema 39/GR 49/2008 - **ME 14/08/01** Analiza consecintelor defectelor, de uzare sau tehnologice, pentru lagarele radial cu functionare in regim hidrodinamic (HD)	**68500**	**1.37**
	8	Grant Parteneriate PN-II-PT-PCCA-2013 (ME 14/14/01) SISTEME DE PROTECTIE IMPOTRIVA IMPACTURILOR DE ENERGIE MARE SI A EXPLOZIILOR FOLOSIND MATERIALE POROASE IMBIBATE CU LICHIDE	**460000**	**9.20**
Contributie complementară în calitate de membru echipă cercetare grant/proiect***				**7.42**
	Membru echipa grant national			

	3	Grant de cercetare CNCSIS (CNCSU) A1250/2000 Tema 7 “Studiul termohidrodinamic al etansarilor mecanice cu film fluid, bifazice” **ME-20-20-01** Director MD Pascovici	**40000**	**0.20**
	4	Grant de cercetare CNCSIS (CNCSU) **A122/2001** “Studiul termohidrodinamic al etansarilor mecanice cu film fluid, bifazice” Tema 72 Modelarea analitica si numerica a rezultatelor experimentale obtinute Director MD Pascovici	**40000**	**0.20**
	5	Grant CNCSIS (CNCSU) **A395/2002** “Modele avansate, teoretice şi expermentale, pentru fundamentarea lubrificaţiei elasto-poro-hidrodinamice”, (Contract 33784/2002 Tema A26) Dezvoltarea modelelor de curgere ex-poro-hidrodinamice (XPHD) Director M.D. Pascovici	**7800**	**0.04**
	6	Grant CNCSIS (CNCSU) **A463/2003** “Modele avansate, teoretice şi expermentale, pentru fundamentarea lubrificaţiei elasto-poro-hidrodinamice”, (Contract 33552/2003 tema 46)Modele teoretice 2D şi 1D complexe Director M.D. Pascovici.	**6750**	**0.03**
	7	Grant CNCSIS A1418 Studiul cavitaţiei în procesele de lubrificaţie din cuplele cu suprafeţe texturate” (Contract 33308/2004 Tema A42 - **ME-14/04/09**) : Studiul portanţei cuplelor de frecare cu suprafeţe texturate, lubrifiate, în regim hidrodinamic. *Director MD Pascovici*	**13000**	**0.07**
	8	Grant CNCSIS A1418 Studiul cavitaţiei în procesele de lubrificaţie din cuplele cu suprafeţe texturate” (Tema A67/34694/24.06.2005 - **ME-14/05/05**) : Studiul analitic si numeric al cresterii portantei lagarelor hidrodinamice (HD) printr-o texturare partiala. *Director MD Pascovici*	**18000**	**0.09**
	9	Grant CNCSIS A122 “STUDIUL CONSECINŢELOR DEFECTELOR ASUPRA PERFORMANŢELOR ŞI SIGURANŢEI LAGĂRELOR CU ALUNECARE DE MARE IMPORTANŢĂ” Tema 8 /GR 18/29.05.2007 - **ME 14/07/01** Modele teoretice, analitice si numerice, pentru analiza influentei defectelor asupra performantelor cuplelor cu frecare fluida *Director Adrian Predescu*	**72000**	**0.36**
	11	CNCSIS IDEI 9 ID-912- 2007-2010 -PROCESE DE LUBRIFICATIE IN STRATURI POROASE, FOARTE COMPRESIBILE, SUPUSE LA SARCINI DE IMPACT. **(ME-14-07-05 & 14-08-01 &14-09-01)** Director. M.D. Pascovici.	**812557**	**4.06**
	12	GRANT PNCD-I 71-081 - 2007-2010. “TEXTURO: APLICAREA TEXTURARII SUPRAFETELOR PENTRU REDUCEREA FRECARII SI UZARII LAGARELOR CU ALUNECARE Director: Adrian Predescu	**474646**	**2.37**
			TOTAL	**19.71**

RIA-GRA
*1 punct =10000 EUR
**1 punct =50000 RON
RIA-CTR
*1 punct =2000 EUR
***Punctaj **1 punct =10000 RON