UNIVERSITATEA "DUNĂREA DE JOS" DIN GALAŢI
FACULTATEA TRANSFRONTALIERĂ DE ŞTIINȚE UMANISTE, ECONOMICE ŞI INGINEREŞTI
DEPARTAMENTUL DE ŞTIINȚE GENERALE

Fișa de verificare a îndeplinirii standardelor minimale CNATDCU

Prof. univ. dr. ing. BUCIUMEANU MIHAELA

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Criteriul 1. Activitate de cercetare ştiinţifică, dezvoltare tehnologică şi inovare - CDI

Nr. Crt.	Articol/Citare	Factor de impact articol ($FI_{articol}$)	Factor de impact citare (FI_{citare})	Punctaj/articol $A1 = \mathbf{FI}_{articol} + \sum \mathbf{FI}_{citare}$
A1	**M. Buciumeanu**, L. Palaghian, A. S. Miranda, F. S. Silva, Fatigue life predictions including the Bauschinger effect, International Journal of Fatigue 33 (2011) 145-152, doi:10.1016/j.ijfatigue.2010.07.012. http://www.sciencedirect.com/science/article/pii/S0142112310001660	**2,162**		**A1=20,261 puncte**
C1.1	*J.A. Wollmershauser, B. Clausen, S.R. Agnew, A slip system-based kinematic hardening model application to in situ neutron diffraction of cyclic deformation of austenitic stainless steel, doi:10.1016/j.ijfatigu, International Journal of Fatigue. http://www.sciencedirect.com/science/article/pii/S0142112311001915*		*2,162*	
C1.2	*D. Zhu, H. Zhang, and D. Y. Li, Molecular dynamics simulation of Bauschinger's effect in deformed copper single crystal in different strain ranges, J. Appl. Phys. 110, 124911 (2011); doi: 10.1063/1.3672414. http://jap.aip.org/resource/1/japiau/v110/i12/p124911_s1?isAuthorized=no*		*2,772*	
C1.3	*C.J. Geng, B.L. Wu,X.H. Du, Y.D. Wang, Y.D. Zhang, F. Wagner, C. Esling, Low cycle fatigue behavior of the textured AZ31B magnesium alloy under the asymmetrical loading, Materials Science and Engineering: A 560, (2013), 618–626. http://www.sciencedirect.com/science/article/pii/S0921509312014396*		*2,647*	
C1.4	*D. Zhu, H. Zhang, D. Y. Li, Influence of Nanotwin Boundary on the Bauschinger's Effect in Cu: A Molecular Dynamics Simulation Study, Metallurgical and Materials Transactions A September 2013, Volume 44, Issue 9, pp 4207-4217. http://link.springer.com/article/10.1007/s11661-013-1752-5*		*1,749*	
C1.5	*C. Geng, X. Du, B. Wu, Y. Wang, Y. Zhang, C. Esling (2013). Low cycle fatigue behavior under asymmetric loading of two AZ31B magnesium alloys with different microstructures and textures. International Journal of Materials Research: Vol. 104, No. 10, pp. 966-973*		*0,687*	

	http://www.hanser-elibrary.com/doi/abs/10.3139/146.110952			
C1.6	*Duan, G.S., Wu, B.L., Du, X.H., Zhao, X., Zhang, Y.D., Zuo, L., Esling, C.,The cyclic frequency sensitivity of low cycle fatigue (LCF) behavior of the AZ31B magnesium alloy Materials Science and Engineering: A, volume 603, issue , year 2014, pp. 11 – 22. http://www.sciencedirect.com/science/article/pii/S0921509314002275*		*2,647*	
C1.7	*Chang, L.-Z., Pan, Y.-T., Li, K.-W., Ma, X.-M., Residual stress analysis of gun barrel with bi-linear material model, Binggong Xuebao/Acta Armamentarii 34 (4) , pp. 385-391, 2013.*		*0,1*	
C1.8	*Harea, E., Lapsker, I., Laikhtman, A., Rapoport, L., Bauschinger's effect and dislocation structure under friction of LiF single crystals, Tribology Letters 52 (2) , pp. 205-212, 2013. http://www.springerprofessional.de/bauschingers-effect-and-dislocation-structure-under-friction-of-lif-single-crystals/4762166.html*		*2,259*	
C1.9	*Tamaki, H., Kitazawa, R., Yoshida, M., Horibe, S., Influence of compressive pre-strain on tensile fatigue life in carbon steel S45C, 2013 Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals. https://www.jstage.jst.go.jp/article/jinstmet/77/11/77_J2013024/_article*		*0,34*	
C1.10	*KS Zhang, JW Ju, Z Li, YL Bai, W Brocks, Micromechanics based fatigue life prediction of a polycrystalline metal applying crystal plasticity, Mechanics of Materials, Volume 85, June 2015, Pages 16–37. http://www.sciencedirect.com/science/article/pii/S0167663615000277*		*2,636*	
C1.11	*Chang, L.-Z., Pan, Y.-T., Ma, X.-M., Residual stress analysis of mechanical autofrettage gun barrel (2015) Zhongbei Daxue Xuebao (Ziran Kexue Ban)/Journal of North University of China (Natural Science Edition), 36 (3), pp. 304-310. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84938086693&doi=10.3969%2fj.issn.1673-3193.2015.03.012&partnerID=40&md5=62f9af5f66e6f98c3536d86f47bb6c76*		*0,1*	
A2	C. Gheorghies, L. Palaghian, S. Baicean, **M. Buciumeanu**, S. Ciorta, Fatigue Behaviour of Naval Steel Under Seawater Environmental and Variable Loading Conditions, Journal of Iron and Steel Research International 18 (2011) 64-69. http://www.sciencedirect.com/science/article/pii/S1006706X11600678	**0,784**		**A2=0,784puncte**
A3	**M. Buciumeanu**, I. Crudu, L. Palaghian, A. S. Miranda, F. S. Silva, Influence of an additional elastic stress on dry wear behaviour in reciprocating tests, Tribology International 42 (2009)	**2,259**		

	1101-1107, doi:10.1016/j.triboint.2009.03.014. http://www.sciencedirect.com/science/article/pii/S0301679X09000541			**A3= 2,459 puncte**
C3.1	*Cai, B., Tan, Y.-F., Tang, J., Tan, H., Wang, W.-G., Research on friction and wear properties of CaF2/TiC/Ni-base alloy composite coatings at different temperatures, Binggong Xuebao/Acta Armamentarii, 35 (6) 900-907, 2014.*		*0,1*	
C3.2	*Durak, E., Yurtseven, H.A., Experimental study of the tribological properties of an elevator's brake linings (2016) Industrial Lubrication and Tribology, 68 (6), pp. 683-688.* *https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991257091&doi=10.1108%2fILT-11-2015-0186&partnerID=40&md5=39d29a1ad81caa63521b8184fd1afa5f*		*0,1*	
A4	**M. Buciumeanu**, I. Crudu, L. Palaghian, A. S. Miranda, F. S. Silva, Influence of wear damage on the fretting fatigue life prediction of an Al7175 alloy, International Journal of Fatigue 31 (2009) 1278–1285, 10.1016/j.ijfatigue.2009.02.032. http://www.sciencedirect.com/science/article/pii/S0142112309000784	**2,162**		**A4=10,005 puncte**
C4.1	*N.A. Kadhim, S. Abdullah, A.K. Ariffin, Effect of the fatigue data editing technique associated with finite element analysis on the component fatigue design period, Materials & Design 32 (2011), 1020-1030.* *http://www.sciencedirect.com/science/article/pii/S0261306910004644*		*3,997*	
C4.2	*N. Borms, D. De Schamphelaere, J. De Pauw, P. De Baets, W. De Waele, Conceptual design of a fretting fatigue testing device, Sustainable Construction and Design 2 (2011), 370-377.* *www.scad.ugent.be/.../scad_2011_2_3_370.pdf*		*0,1*	
C4.3	*N.A. Kadhim, S. Abdullah, A.K. Ariffin, Effective strain damage model associated with finite element modelling and experimental validation, International Journal of Fatigue 36 (2012) 194–205.* *http://www.sciencedirect.com/science/article/pii/S0142112311001952*		*2,162*	
C4.4	*LIU Qiang, FANG Jian-cheng, Repeated clamping locking device for magnetic bearing flywheel, Optics and Precision Engineering 8, (2012) 1802-1810,* ***ISSN****: 1004-924X* ***CN****:22-1198/TH.* *http://www.eope.net/CN/abstract/abstract14308.shtml*		*0,1*	
C4.5	*Liu, Q., Fang, J., Han, B., Vibration test and analysis of novel locking device for magnetic bearing flywheel, Zhendong Ceshi Yu Zhenduan/Journal of Vibration, Measurement and Diagnosis 32 (6) , pp. 926-930, 2012.*		*0,1*	

C4.6	*Liu, D., Jiang, X.S., Sun, P.Q., Shen, Y., Influence of frequency on fretting fatigue damage behavior of Al-Zn-Mg alloy, Advanced Materials Research 813 , pp. 407-412, 2013.*		*0,1*	
C4.7	*Maslan, M.H., Sheikh, M.A., Arun, S., Prediction of fatigue crack initiation in complete contact fretting fatigue, Applied Mechanics and Materials, Volume 467, 2014, Pages 431-437.*		*0,1*	
C4.8	Liu, X., Zheng, S., Chen, T., Liang, G., Feng, J., Ning, X., Durability testing method of a hub-reducer system based on the Shanghai standard road driving cycle (2016) Journal of Testing and Evaluation, 44 (1), pp. 665-678. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959544867&doi=10.1520%2fJTE20140479&partnerID=40&md5=96f2491ee2e6d8e5870da96cdaf4d3f7		*0,423*	
C4.9	Salvinder, S., Shahrum, A., Mohamed, N.A.N., Discretized Markov chain in damage assessment using Rainflow cycle with effects of mean stress on an automobile crankshaft (2016) Journal of Mechanical Science and Technology, 30 (8), pp. 3539-3551. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983288573&doi=10.1007%2fs12206-016-0714-4&partnerID=40&md5=91c5eb39154ace815f2e849d2aab620d		*0,761*	
A5	**M. Buciumeanu**, A.S. Miranda, A.C.M. Pinho, F.S. Silva, Design improvement of an automotive-formed suspension component subjected to fretting fatigue, Engineering Failure Analysis 14 (2007) 810-821, 10.1016/j.engfailanal.2006.11.023. http://www.sciencedirect.com/science/article/pii/S1350630706001555	**1,358**		**A5= 15,755 puncte**
C5.1	*A. Benhamena, A. Talha, N. Benseddiq, A. Amrouche, G. Mesmacque, M. Benguediab, Effect of clamping force on fretting fatigue behaviour of bolted assemblies: Case of couple steel–aluminium, Materials Science and Engineering: A, 52 (2010) 6413-6421. http://www.sciencedirect.com/science/article/pii/S0921509310007136*		*2,647*	
C5.2	*N. Kaya, İ. Karen, F. Öztürk, Re-design of a failed clutch fork using topology and shape optimisation by the response surface method, Materials & Design 31 (2010) 3008-3014. http://www.sciencedirect.com/science/article/pii/S0261306910000166*		*3,997*	
C5.3	*A Strozzi, A Baldini, M Giacopini, E Bertocchi, L Bertocchi, Normalization of the stress concentrations at the rounded edges of a shaft–hub interference fit, The Journal of Strain Analysis for Engineering Design 46 (2011) 478-491, DOI: 10.1177/0309324711403845. http://sdj.sagepub.com/content/early/2011/06/23/0309324711403845*		*1,250*	
C5.4	*Dourado, M., Soares, D., Barbosa, J., Marques Pinho, A., Meireles, J., Branco, P., Ribeiro, C., Rei, C., A comparative study of fatigue behaviour of MAG and laser welded components using*		*2,647*	

	reliability analysis, Materials Science and Engineering: A volume 606, issue , year 2014, pp. 31 – 39.			
C5.5	*J Fang, Y Gao, G Sun, C Xu, Q Li, Multiobjective robust design optimization of fatigue life for a truck cab, Reliability Engineering & System Safety, Volume 135, March 2015, Pages 1–8.*		*2,498*	
C5.6	*Kulkarni, A., Ranjha, S.A., Kapoor, A., Fatigue analysis of a suspension for an in-wheel electric vehicle (2016) Engineering Failure Analysis, 68, pp. 150-158.*		*1,358*	
A6	**M. Buciumeanu**, A. S. Miranda, F. S. Silva, Influence of Wear Properties on Fretting Fatigue Life of a CK45 Alloy and the Al7175 Alloy, Material Science Forum Vols. 587-588 (2008) 971-975. http://www.scientific.net/MSF.587-588.971	**0,1**		**A6=0,2 puncte**
C6.1	*J.O. Agunsoye, A.A. Ayeni, Effect of Heat Treatment on the Abrasive Wear Behavior of High Chromium Iron under Dry Sliding Condition, Tribology in Industry, Vol. 34, N 82 2 (2012) 82-9.* www.tribology.fink.rs/journals/2012/...2/5.pdf		*0,1*	
A7	**M. Buciumeanu**, A. S. Miranda, F. S. Silva, Evolution of relevant parameters on fretting fatigue tests, Key Engineering Materials Vols. 385-387 (2008) 565-568. http://www.scientific.net/KEM.385-387.565	**0,1**		**A7=0,1 puncte**
A8	V. Mereuta, **M. Buciumeanu**, L. Palaghian, 3D Roughness Parameters as Factors in Determining the Evolution of Effective Stress Concentration Factors in Fatigue Processes, Applied Mechanics and Materials Vol. 248 (2013) pp 504-510. http://www.scientific.net/AMM.248.504	**0,1**		**A8= 4,844 puncte**
C8.1	*Yang, D., Liu, Z., Surface topography analysis and cutting parameters optimization for peripheral milling titanium alloy Ti-6Al-4V, International Journal of Refractory Metals and Hard Materials 51, 1 July 2015, Pages 192-200.*		*2,263*	
C8.2	*Gao, Y., Sun, R., Chen, Y., Leopold, J., Analysis of chip morphology and surface topography in modulation assisted machining (2016) International Journal of Mechanical Sciences, 111-112, pp. 88-100.* *https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963986393&doi=10.1016%2fj.ijmecsci.2016.03.025&partnerID=40&md5=6f5685c250b3e236abc7c4523d8b9b9f*		*2,481*	
A9	Z. Doni, A.C. Alves, F. Toptan, J.R. Gomes, A. Ramalho, **M. Buciumeanu**, L. Palaghian, F.S. Silva, Dry sliding and tribocorrosion behaviour of hot pressed CoCrMo biomedical alloy as	**3,997**		**A9=53,919 puncte**

	compared with the cast CoCrMo and Ti6Al4V alloys, Materials & Design, Volume 52, December 2013, 47-57. http://www.sciencedirect.com/science/article/pii/S0261306913004639			
C9.1	*Ganesh, B.K.C., Sha, W., Ramanaiah, N., Krishnaiah, A., Effect of shotpeening on sliding wear and tensile behavior of titanium implant alloys Materials & Design, volume 56, issue , year 2014, pp. 480 – 486.*		*3,997*	
C9.2	*N Oláh, Z Fogarassy, M Furkó, C Balázsi et al., Sputtered Nanocrystalline ceramic TiC/amorphous C thin films as potential materials for medical applications, Ceramics International, Volume 41, Issue 4, May 2015, Pages 5863–5871.*		*2,758*	
C9.3	*Y Chen, Y Li, S Kurosu, K Yamanaka, N Tang, A Chiba, Effects of microstructures on the sliding behavior of hot-pressed CoCrMo alloys, Wear, Volume 319, Issues 1–2, 15 November 2014, Pages 200–210.*		*2,323*	
C9.4	*AM Ribeiro, AC Alves, LA Rocha, FS Silva, F. Toptan, Synergism between corrosion and wear on CoCrMo− Al 2 O 3 biocomposites in a physiological solution, Tribology International, Available online 28 January 2015.*		*2,259*	
C9.5	*AM Ribeiro, AC Alves, FS Silva, F. Toptan, Electrochemical characterization of hot pressed CoCrMo–HAP biocomposite in a physiological solution, Materials and Corrosion, 2014, DOI: 10.1002/maco.201407885.*		*1,373*	
C9.6	*Oliveira, F.G., Ribeiro, A.R., Perez, G., Archanjo, B.S., Gouvea, C.P., Araújo, J.R.,Campos, A.P.C., Kuznetsov, A., Almeida, C.M., Maru, M.M., Achete, C.A., Ponthiaux, P., Celis, J.-P., Rocha, L.A., Understanding growth mechanisms and tribocorrosion behaviour of porous TiO_2 anodic films containing calcium, phosphorous and magnesium, Applied Surface Science, 341, 30 June 2015, Pages 1-12.*		*3,150*	
C9.7	*A Dobrowolska, P Kowalewski, A Ptak, Influence of the lubricating fluid on the changes on rubbing metallic biomaterials surface, Colloids and Surfaces A: Physicochemical and Engineering Aspects, Available online 15 December 2014.*		*2,760*	
C9.8	*Henriques, B., Bagheri, A., Gasik, M., Souza, J.C.M., Carvalho, O., Silva, F.S., Nascimento, R.M., Mechanical properties of hot pressed CoCrMo alloy compacts for biomedical applications (2015) Materials and Design, 83, pp. 829-834. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941276703&doi=10.1016%2fj.matdes.2015.06.069&partnerID=40&md5=7dd4d0e7e507d91*		*3,997*	

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C9.9	*Dimić, I., Cvijović-Alagić, I., Obradović, N., Petrović, J., Putić, S., Rakin, M., Bugarski, B. In vitro biocompatibility assessment of Co-Cr-Mo dental cast alloy (2015) Journal of the Serbian Chemical Society, 80 (12), pp. 1541-1552. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983402048&doi=10.2298%2fJSC150505070M&partnerID=40&md5=b6b09edc9ef6671399f98fbc7c965c8d*		*0,970*	
C9.10	*Hua, N., Zheng, Z., Fang, H., Ye, X., Lin, C., Li, G., Wang, W., Chen, W., Zhang, T. Dry and lubricated tribological behavior of a Ni- and Cu-free Zr-based bulk metallic glass (2015) Journal of Non-Crystalline Solids, 426, art. no. 17482, pp. 63-71. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84937243000&doi=10.1016%2fj.jnoncrysol.2015.06.026&partnerID=40&md5=0308198c11cedb3b086368354117d9a7*		*1,825*	
C9.11	*Kao, W.H., Su, Y.L., Horng, J.H., Huang, H.C., Yang, S.E., Improved tribological, electrochemical and biocompatibility properties of Ti6Al4V alloy by gas-nitriding and Ti-C:H coating (2015) Surface and Coatings Technology, 283, pp. 70-79. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949467845&doi=10.1016%2fj.surfcoat.2015.10.035&partnerID=40&md5=296672a3e8bec96733798316da5ace3d*		*2,139*	
C9.12	*Hassani, F.Z., Ketabchi, M., Bruschi, S., Ghiotti, A., Effects of carbide precipitation on the microstructural and tribological properties of Co–Cr–Mo–C medical implants after thermal treatment (2016) Journal of Materials Science, 51 (9), pp. 4495-4508. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957022939&doi=10.1007%2fs10853-016-9762-5&partnerID=40&md5=d6a8ee6c28228013c0ccb7db06e396cb*		*2,302*	
C9.13	*Mindivan, F., Yildirim, M.P., Bayindir, F., Mindivan, H. Corrosion and tribocorrosion behavior of cast and machine milled Co-Cr alloys for biomedical applications (2016) Acta Physica Polonica A, 129 (4), pp. 701-704. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971424561&doi=10.12693%2fAPhysPolA.129.701&partnerID=40&md5=4aedf79d7a3a43b4ee81daa293d85519*		*0.525*	
C9.14	*Tkachenko, S., Nečas, D., Datskevich, O., Čupera, J., Spotz, Z., Vrbka, M., Kulak, L., Foret, R. Tribological Performance of Ti–Si-Based in Situ Composites (2016) Tribology Transactions, 59*		*1,418*	

	(2), pp. 340-351. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962852704&doi=10.1080%2f10402004.2015.1079347&partnerID=40&md5=1916031e43e256900f22f14beea1f258			
C9.15	*Pontes, J.R., Alves, A.C., Toptan, F., Galo, R., Ariza, E., Effect of commercial mouthwashes on the corrosion and tribocorrosion behaviour of a Co-Cr dental casting alloy (2016) Materials and Corrosion, 67 (3), pp. 305-311. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959541718&doi=10.1002%2fmaco.201508396&partnerID=40&md5=07854a1cdf886f2deeef34fa36da493a*		*1,373*	
C9.16	*Sukaryo, S.G., Purnama, A., Hermawan, H., Structure and properties of biomaterials (2016) Advanced Structured Materials, 58, pp. 1-22. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959356594&doi=10.1007%2f978-3-319-14845-8_1&partnerID=40&md5=8ac626c8a2c14c50bc9ce6d52c41b845*		*0,1*	
C9.17	*Toptan, F., Rego, A., Alves, A.C., Guedes, A., Corrosion and tribocorrosion behavior of Ti-B<inf>4</inf>C composite intended for orthopaedic implants (2016) Journal of the Mechanical Behavior of Biomedical Materials, 61, pp. 152-163. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957582616&doi=10.1016%2fj.jmbbm.2016.01.024&partnerID=40&md5=8edb0a71465c3191b426baf9be6be6da*		*2,876*	
C9.18	*Gordo, E., Das Neves, R.G., Ferrari, B., Jimenez-Morales, A., Lima, A., Alves, A.C., Pinto, A.M., Toptan, F., Corrosion and tribocorrosion behavior of Ti-Alumina composites (2016) Key Engineering Materials, 704, pp. 28-37. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84984605209&doi=10.4028%2fwww.scientific.net%2fKEM.704.28&partnerID=40&md5=99c8ae274e0eebf281840ec899981e76*		*0,1*	
C9.19	*Jinlong, L., Huasheng, Z., Yongxin, W., Dynamic tribochemical behavior of TiN/TiCN coated Ti6Al4V in artificial seawater (2016) RSC Advances, 6 (107), pp. 105854-105861. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994524500&doi=10.1039%2fc6ra19296c&partnerID=40&md5=83d4dd16484a25bfc4a090eaada7a2a5*		*3,289*	

C9.20	*Silva, J.I., Alves, A.C., Pinto, A.M., Silva, F.S., Toptan, F., Dry sliding wear behaviour of Ti-TiB-TiNx in-situ composite synthesised by reactive hot pressing (2016) International Journal of Surface Science and Engineering, 10 (4), pp. 317-329. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978370282&doi=10.1504%2fIJSURFSE.2016.077533&partnerID=40&md5=96905f0f8f05e7dfe777ace50cab99a4*		*0,1*	
C9.21	*Totolin, V., Pejaković, V., Csanyi, T., Hekele, O., Huber, M., Rodríguez Ripoll, M., Surface engineering of Ti6Al4V surfaces for enhanced tribocorrosion performance in artificial seawater (2016) Materials and Design, 104, pp. 10-18. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966705385&doi=10.1016%2fj.matdes.2016.04.080&partnerID=40&md5=c29c81873140e700ca74a4e176949011*		*3,997*	
C9.22	*Boztepe, E., Alves, A.C., Ramalho, A., Ariza, E., Rocha, L.A., Cansever, N., Toptan, F., A comparative study on the dry sliding wear behaviour of nitrocarburised, gas nitrided, fluidised-bed nitrided, and plasma nitrided plastic mould steel (2016) International Journal of Surface Science and Engineering, 10 (5), pp. 468-484. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84987761341&doi=10.1504%2fIJSURFSE.2016.079044&partnerID=40&md5=31efbbdb262df2a2cea0e7ae51f182a0*		*0,1*	
C9.23	*Garbiec, D., Siwak, P., Mróz, A., Effect of compaction pressure and heating rate on microstructure and mechanical properties of spark plasma sintered Ti6Al4V alloy (2016) Archives of Civil and Mechanical Engineering, 16 (4), pp. 702-707. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973909649&doi=10.1016%2fj.acme.2016.04.009&partnerID=40&md5=f435b43c97a8a170ad1c83fecae9cf9c*		*2,194*	
C9.24	*Kumar, S., Chattopadhyay, K., Mahobia, G.S., Singh, V. Hot corrosion behaviour of Ti–6Al–4V modified by ultrasonic shot peening (2016) Materials and Design, 110, pp. 196-206. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980335921&doi=10.1016%2fj.matdes.2016.07.133&partnerID=40&md5=8a98e8d21868cf3c0e0ad928ff4fba33*		*3,997*	
A10	Z. Doni, **M. Buciumeanu**, L. Palaghian, Surface Integrity of Ti6Al4V Alloy under Dry Sliding Conditions, Applied Mechanics and Materials Vol. 371 (2013) pp 126-130.	**0,1**		**A10=0,1 puncte**

A11	Z. Doni, A.C. Alves, F. Toptan, A.M. Pinto, L.A. Rocha, **M. Buciumeanu**, L. Palaghian, F.S. Silva,' Tribocorrosion behaviour of hot pressed CoCrMo−Al2O3 composites for biomedical applications, Tribology – Materials, Surfaces & Interfaces 8 (4) (2014) 201-208. http://dx.doi.org/10.1179/1751584X14Y.0000000078 http://www.maneyonline.com/doi/abs/10.1179/1751584X14Y.0000000078	**0.1**		**A11=5,335 puncte**
C11.1	*AM Ribeiro, AC Alves, LA Rocha, FS Silva, F. Toptan, Synergism between corrosion and wear on CoCrMo− Al 2 O 3 biocomposites in a physiological solution, Tribology International 91* November 2015, Pages 198–205. http://www.sciencedirect.com/science/article/pii/S0301679X15000286		*2,259*	
C11.2	*Toptan, F., Rego, A., Alves, A.C., Guedes, A., Corrosion and tribocorrosion behavior of Ti-B<inf>4</inf>C composite intended for orthopaedic implants (2016) Journal of the Mechanical Behavior of Biomedical Materials, 61, pp. 152-163. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957582616&doi=10.1016%2fj.jmbbm.2016.01.024&partnerID=40&md5=8edb0a71465c3191b426baf9be6be6da*		*2,876*	
C11.3	*Silva, J.I., Alves, A.C., Pinto, A.M., Silva, F.S., Toptan, F., Dry sliding wear behaviour of Ti-TiB-TiNx in-situ composite synthesised by reactive hot pressing (2016) International Journal of Surface Science and Engineering, 10 (4), pp. 317-329. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978370282&doi=10.1504%2fIJSURFSE.2016.077533&partnerID=40&md5=96905f0f8f05e7dfe777ace50cab99a4*		*0,1*	
A12	G Miranda, **M Buciumeanu**, O Carvalho, D Soares, FS Silva, Interface analysis and wear behavior of Ni particulate reinforced aluminum–silicon composites produced by PM, Composites Part B: Engineering 69, 101-110,2015,	**3,850**		**A12=15,547 puncte**
C12.1	*HB Li, X Wang, Effect of interface diffusion on the strain and stress stability of particulate reinforced electrostrictive materials, Composites Part B: Engineering, Volume 75, 15 June 2015, Pages 319–326. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84923363236&doi=10.1016%2fj.compositesb.2015.02.004&partnerID=40&md5=4c545d8adc3296a171b68fb46d8da205*		*3,850*	
C12.2	*Golmohammadi, M., Atapour, M. , Ashrafi, A., Fabrication and wear characterization of an*		*3,997*	

	A413/Ni surface metal matrix composite fabricated via friction stir processing, Materials and Design, Volume 85, November 15, 2015, Pages 471-482. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940774982&doi=10.1016%2fj.matdes.2015.06.090&partnerID=40&md5=eef57d1bde2834160c28937d560be1af			
C12.3	*Madeira, S., Carvalho, O., Carneiro, V.H., Soares, D., Silva, F.S., Miranda, G. Damping capacity and dynamic modulus of hot pressed AlSi composites reinforced with different SiC particle sized (2016) Composites Part B: Engineering, 90, pp. 399-405. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957941866&doi=10.1016%2fj.compositesb.2016.01.008&partnerID=40&md5=dae94210803e3f8c07bf09e3c50d93ab*		*3,850*	
A13	**M Buciumeanu**, AS Miranda, FS Silva, Effect of relative displacement and normal contact load on fretting fatigue behaviour of ti6al4v alloy, Ciência & Tecnologia dos Materiais 20 (1-2), 92-98	**0,1**		**A13=0.1 puncte**
A14	**M Buciumeanu**, AS Miranda, FS Silva, Wear behaviour of the Al7175 alloy under different bulk stress states, The Annals of University "Dunarea de Jos" of Galati, Fascicole VIII	**0,1**		**A14=0.1 puncte**
A15	G Miranda, **M Buciumeanu**, S Madeira, O Carvalho, D Soares, FS Silva, Hybrid composites–metallic and ceramic reinforcements influence on mechanical and wear behavior, Composites Part B: Engineering, Volume 74, 1 June 2015, Pages 153–165.	**3,850**		**A15=11,473 puncte**
C15.1	*Tashkinov, M. Micro-scale modeling of phase-level elastic fields of SiC reinforced metal matrix multiphase composites using statistical approach (2016) Computational Materials Science, 116, pp. 113-121. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84959565902&doi=10.1016%2fj.commatsci.2015.10.047&partnerID=40&md5=5e4f9fd7dd1d1173ab5a6577b6040f23*		*2,086*	
C15.2	*Madeira, S., Miranda, G., Carneiro, V.H., Soares, D., Silva, F.S., Carvalho, O. The effect of SiCp size on high temperature damping capacity and dynamic Young's modulus of hot-pressed AlSi-SiCp MMCs (2016) Materials and Design, 93, pp. 409-417. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957812731&doi=10.1016%2fj.matdes.2015.12.147&partnerID=40&md5=1a50067eeb05b24a76c5ccf4e3307ceb*		*3,997*	

C15.3	*Pramanik, A. Effects of reinforcement on wear resistance of aluminum matrix composites (2016) Transactions of Nonferrous Metals Society of China (English Edition), 26 (2), pp. 348-358. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963938626&doi=10.1016%2fS1003-6326%2816%2964125-0&partnerID=40&md5=9cc134e2c5805a8443ebaf30067526a1*		*1,340*	
C15.4	*Vasyliev, M.O., Mordyuk, B.M., Sidorenko, S.I., Voloshko, S.M., Burmak, A.P., Kindrachuk, M.V. Synthesis of deformation-induced nanocomposites on aluminium D16 alloy surface by ultrasonic impact treatment (2016) Metallofizika i Noveishie Tekhnologii, 38 (4), pp. 545-563. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000764497&doi=10.15407%2fmfint.38.04.0545&partnerID=40&md5=ec4d5960ab8a998a2d6cfbd15fbadb45*		*0,1*	
C15.5	*Tashkinov, M.A. Modeling of elastic behavior of multicomponent composite materials based on approximate solution of stochastic boundary value problems (2015) PNRPU Mechanics Bulletin, 2015 (3), pp. 165-181. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84950245673&doi=10.15593%2fperm.mech%2f2015.3.12&partnerID=40&md5=2a97caecd40a5e35d9755421e9ca01c6*		*0,1*	
A16	O Carvalho, **M Buciumeanu**, D Soares, J Gomes, FS Silva, Improvement on sliding wear behaviour of Al/cast iron tribopair by CNT's reinforcement of an Al alloy, Tribology Transactions 58, 2015, 643-653, **DOI:** 10.1080/10402004.2014.1002143.	**1,418**		**A16=5,672 puncte**
C16.1	*Salah, N., Abdel-wahab, M.S., Habib, S.S., Khan, Z.H. Lubricant Additives Based on Carbon Nanotubes Produced from Carbon-Rich Fly Ash (2017) Tribology Transactions, 60 (1), pp. 166-175. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978175027&doi=10.1080%2f10402004.2016.1155784&partnerID=40&md5=61a5b4cf4badcd687fb5fd04a3ddf777*		*1,418*	
C16.2	*Kumar, P., Srivastava, V.K. Wear Characterization of Mica-Loaded Al-Cu Dual Matrix Particulate Composites (2016) Tribology Transactions, 59 (6), pp. 1134-1141. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991086111&doi=10.1080%2f10402004.2016.1141445&partnerID=40&md5=8e048ae48d21cde5df29070376e5d360*		*1,418*	
C16.3	*Kumar, P., Srivastava, V.K. Wear Characterization of Mica-Loaded Al-Cu Dual Matrix*		*1,418*	

	Particulate Composites (2016) Tribology Transactions, 59 (6), pp. 1134-1141. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980318126&doi=10.1080%2f10402004.2016.1141445&partnerID=40&md5=0cbfdd7b1c7a05bdacfd76ac58ce10ba			
A17	Z Doni, **M Buciumeanu**, L Palaghian, A Simplified Method for Wear Loss Prediction in Corrosive Environment, Applied Mechanics and Materials 436, 121-126, 2014.	**0,1**		**A17=0,1 puncte**
A18	Z Doni, **M Buciumeanu**, L Palaghian, Topographic and electrochemical Ti6Al4V alloy surface characterization in dry and wet reciprocating sliding, Tribology in Industry 35 (3), 217-224, 2013.	**0,1**		**A18=0,1 puncte**
C18.1	*Senhadji, S., Belarifi, F., Robbe-Valloire, F. Experimental investigation of friction coefficient and wear rate of brass and bronze under lubrication conditions (2016) Tribology in Industry, 38 (1), pp. 102-107. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961783295&partnerID=40&md5=ee8a021532ce252a3c81883455e2e22b*		*0,1*	
A19	D. S. Rodrigues, **M. Buciumeanu**, B. Henriques, J. C. M. Souza, F. S. Silva, Análise da porosidade, resistência mecânica e desgaste de materiais restauradores diretos, Revista Portuguesa de Estomatologia, Medicina Dentária e Cirurgia Maxilofacial 55 (2014) e8-e9. DOI: 10.1016/j.rpemd.2014.11.127. http://www.sciencedirect.com/science/article/pii/S1646289014002131	**0,1**		**A19=0,1 puncte**
A20	O. Carvalho, **M. Buciumeanu**, S. Madeira, D. Soares, F.S. Silva, G. Miranda, Optimization of AlSi-CNTs functionally graded material composites for engine piston rings, Materials and Design 80 (2015) 163-173.	**3,997**		**A20=20,459 puncte**
C20.1	*Shin, S.E., Ko, Y.J., Bae, D.H. Mechanical and thermal properties of nanocarbon-reinforced aluminum matrix composites at elevated temperatures (2016) Composites Part B: Engineering, 106, pp. 66-73. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988036760&doi=10.1016%2fj.compositesb.2016.09.017&partnerID=40&md5=009f6a943feb97c5c582652908fda9cd*		*3,850*	
C20.2	*Jayakumar, E., Jacob, J.C., Rajan, T.P.D., Joseph, M.A., Pai, B.C. Processing and Characterization of Functionally Graded Aluminum (A319)—SiCp Metallic Composites by Centrifugal Casting Technique (2016) Metallurgical and Materials Transactions A: Physical*			

	Metallurgy and Materials Science, 47 (8), pp. 4306-4315. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973161572&doi=10.1007%2fs11661-016-3558-8&partnerID=40&md5=7857257e6165dce3b03eda6464ee50d4			
C20.3	*Su, J., Ke, L.-L., Wang, Y.-S. Fretting contact of a functionally graded piezoelectric layered half-plane under a conducting punch (2016) Smart Materials and Structures, 25 (2), art. no. 025014. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84956664437&doi=10.1088%2f0964-1726%2f25%2f2%2f025014&partnerID=40&md5=e15812ffad177275d02a0d9dc9bcf197*		*2,769*	
C20.4	*Ebhota, W.S., Karun, A.S., Inambao, F.L. Principles and baseline knowledge of Functionally Graded Aluminium Matrix Materials (FGAMMs): Fabrication techniques and applications (2016) International Journal of Engineering Research in Africa, 26, pp. 47-67. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84990988025&doi=10.4028%2fwww.scientific.net%2fJERA.26.47&partnerID=40&md5=6e17163a1af01a2199cdf6f4c03ab43b*		*0,1*	
C20.5	*Xue, Y., Jiang, B., Bourgeois, L., Dai, P., Mitome, M., Zhang, C., Yamaguchi, M., Matveev, A., Tang, C., Bando, Y., Tsuchiya, K., Golberg, D. Aluminum matrix composites reinforced with multi-walled boron nitride nanotubes fabricated by a high-pressure torsion technique (2015) Materials and Design, 88, pp. 451-460. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944393440&doi=10.1016%2fj.matdes.2015.08.162&partnerID=40&md5=60beae989df073ccfe90ecda63da0bf2*		*3,997*	
C20.6	*Kim, J.-K., Xavier, F.-A., Kim, D.-E. Tribological properties of twin wire arc spray coated aluminum cylinder liner (2015) Materials and Design, 84, pp. 231-237. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941266447&doi=10.1016%2fj.matdes.2015.06.122&partnerID=40&md5=74262d9ec7750dcba5bff258a2b79f77*		*3,997*	
A21	O. Carvalho, **M. Buciumeanu**, S. Madeira, D. Soares, F.S. Silva, G. Miranda, Dry sliding wear behaviour of AlSi-CNTs-SiCp hybrid composites, Tribology International 90 (2015) 148-156.	**2,259**		**A21=4,398 puncte**
C21.1	*Narimani, M., Lotfi, B., Sadeghian, Z. Evaluation of the microstructure and wear behaviour of AA6063- B_4C/TiB_2 mono and hybrid composite layers produced by friction stir processing (2016) Surface and Coatings Technology, 285, pp. 1-10.*		*2,139*	

	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84955168664&doi=10.1016%2fj.surfcoat.2015.11.015&partnerID=40&md5=7ebe1bbbd1e0ac2c22fd2379dca6a79f			
A22	O. Carvalho, **M. Buciumeanu**, D. Soares, F.S. Silva, G. Miranda, Evaluation of CNT Dispersion Methodology Effect on Mecanical Properties of an AlSi Composite, Journal of Materials and Performance 24 (6) (2015) 2535-2545.	**1,094**		**A22=4,274 puncte**
C22.1	*Xiang, J., Xie, L., Meguid, S.A., Pang, S., Yi, J., Zhang, Y., Liang, R. An atomic-level understanding of the strengthening mechanism of aluminum matrix composites reinforced by aligned carbon nanotubes (2017) Computational Materials Science, 128, pp. 359-372. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006158706&doi=10.1016%2fj.commatsci.2016.11.032&partnerID=40&md5=abe1163cd4102bd75505165c0ef47af2*		*2,086*	
C22.2	*Sharma, A., Roh, M.H., Jung, J.P. Effect of La2O3 Nanoparticles on the Brazeability, Microstructure, and Mechanical Properties of Al-11Si-20Cu Alloy (2016) Journal of Materials Engineering and Performance, 25 (8), pp. 3538-3545. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975321308&doi=10.1007%2fs11665-016-2179-0&partnerID=40&md5=28cb491e09cd1da8c2e0c466f3c9a7c0*		*1,094*	
A23	Z. Doni, A.C. Alves, F. Toptan, L.A. Rocha, **M. Buciumeanu**, L. Palaghian, F.S. Silva, Tribocorrosion behaviour of hot pressed CoCrMo-HAP biocomposites, Tribology International 91 (2015) 221-227, DOI: doi:10.1016/j.triboint.2015.04.009.	**2,259**		**A23=2,259 puncte**
A24	Sampaio, M., **Buciumeanu, M**., Henriques, B., Silva, F.S., Souza, J.C.M., Gomes, J.R., Tribocorrosion behavior of veneering biomedical PEEK to Ti6Al4V structures (2016) Journal of the Mechanical Behavior of Biomedical Materials, 54, pp. 123-130. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84943538492&doi=10.1016%2fj.jmbbm.2015.09.010&partnerID=40&md5=6710881ac5e2b9f163e79c88833d9baf	**2,876**		**A24=21,300 puncte**
C24.1	*Dworak, M., Rudawski, A., Markowski, J., Blazewicz, S. Dynamic mechanical properties of carbon fibre-reinforced PEEK composites in simulated body-fluid (2017) Composite Structures, 161, pp. 428-434. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85002335999&doi=10.1016%2fj.compstruct.2016.11.070&partnerID=40&md5=decfa25b7086*		3,853	

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C24.2	*Monich, P.R., Henriques, B., Novaes de Oliveira, A.P., Souza, J.C.M., Fredel, M.C. Mechanical and biological behavior of biomedical PEEK matrix composites: A focused review (2016) Materials Letters, 185, pp. 593-597. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995970286&doi=10.1016%2fj.matlet.2016.09.005&partnerID=40&md5=8c566a170e84df9b527a3e50d02550c0*		*2,259*	
C24.3	*Revathi, A., Magesh, S., Balla, V.K., Das, M., Manivasagam, G. Current advances in enhancement of wear and corrosion resistance of titanium alloys – a review (2016) Materials Technology, 31 (12), pp. 696-704. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983746007&doi=10.1080%2f10667857.2016.1212780&partnerID=40&md5=105acd98dcea961222f165a062b3df55*		*1,442*	
C24.4	*Schwitalla, A.D., Abou-Emara, M., Zimmermann, T., Spintig, T., Beuer, F., Lackmann, J., Müller, W.-D. The applicability of PEEK-based abutment screws (2016) Journal of the Mechanical Behavior of Biomedical Materials, 63, pp. 244-251. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978908864&doi=10.1016%2fj.jmbbm.2016.06.024&partnerID=40&md5=bff09b459650faa356aa59c794b87391*		*2,876*	
C24.5	*Totolin, V., Pejaković, V., Csanyi, T., Hekele, O., Huber, M., Rodríguez Ripoll, M. Surface engineering of Ti6Al4V surfaces for enhanced tribocorrosion performance in artificial seawater (2016) Materials and Design, 104, pp. 10-18. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966705385&doi=10.1016%2fj.matdes.2016.04.080&partnerID=40&md5=c29c81873140e700ca74a4e176949011*		*3,997*	
C24.6	*Fernandes, C.R., Fernandes, B.L., Evidence of the semi-solid formation in the medical grade TI6AL4V alloy using induction heating (2015) Facta Universitatis, Series: Mechanical Engineering, 13 (3), pp. 229-239. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84951276629&partnerID=40&md5=eab4ef24acd690ddc7a5671d90fc4c8a*		*0,1*	
A25	Carvalho, O., Buciumeanu, M., Miranda, G., Madeira, S., Silva, F.S. Development of a method to produce FGMs by controlling the reinforcement distribution (2016) Materials and Design, 92,	**3,997**		**A25=7,994 puncte**

	pp. 233-239. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954505005&doi=10.1016%2fj.matdes.2015.12.032&partnerID=40&md5=dc4ff8d25abd98a5470e502fc85ed869			
C25.1	*Torres, Y., Trueba, P., Pavón, J.J., Chicardi, E., Kamm, P., García-Moreno, F., Rodríguez-Ortiz, J.A. Design, processing and characterization of titanium with radial graded porosity for bone implants (2016) Materials and Design, 110, pp. 179-187.* *https://www.scopus.com/inward/record.uri?eid=2-s2.0-84980384721&doi=10.1016%2fj.matdes.2016.07.135&partnerID=40&md5=41b48c642f0973baa68e6a74c89c827b*		*3,997*	
A26	Carvalho, O., **Buciumeanu, M**., Madeira, S., Soares, D., Silva, F.S., Miranda, G., Mechanisms governing the mechanical behavior of an AlSi-CNTs-SiCp hybrid composite (2016) Composites Part B: Engineering, 90, pp. 443-449. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957951268&doi=10.1016%2fj.compositesb.2016.01.032&partnerID=40&md5=fad27613f8f95787573fdd0e69b371ed	**3,850**		**A26=3,850 puncte**
A27	Carvalho, O., Miranda, G., **Buciumeanu, M**., Gasik, M., Silva, F.S., Madeira, S., High temperature damping behavior and dynamic Young's modulus of AlSi-CNT-SiCp hybrid composite (2016) Composite Structures, 141, pp. 155-162. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971537286&doi=10.1016%2fj.compstruct.2016.01.046&partnerID=40&md5=b87d94bcf7770050332c7ebf97ecb704	**3,853**		**A27=3,853 puncte**
A28	**Buciumeanu, M.,** Bagheri, A., Souza, J.C.M., Silva, F.S., Henriques, B., Tribocorrosion behavior of hot pressed CoCrMo alloys in artificial saliva (2016) Tribology International, 97, pp. 423-430. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84958787063&doi=10.1016%2fj.triboint.2016.02.007&partnerID=40&md5=e7a5ce714212d581e7f3dbd41cdd190b	**2,259**		**A28=2,259 puncte**
A29	Carvalho, O., **Buciumeanu, M.**, Madeira, S., Miranda, G., Silva, F.S. Interface analysis on an eutectic AlSi alloy reinforced with Ni coated MWCNT (2016) Composites Part B: Engineering, 93, pp. 229-235.	**3,850**		**A29=3,850 puncte**

	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962018386&doi=10.1016%2fj.compositesb.2016.03.050&partnerID=40&md5=e8a613521fc30290f0e31e8e6f33f4a6			
A30	Sampaio, M., **Buciumeanu, M.**, Henriques, B., Silva, F.S., Souza, J.C.M., Gomes, J.R., Comparison between PEEK and Ti6Al4V concerning micro-scale abrasion wear on dental applications (2016) Journal of the Mechanical Behavior of Biomedical Materials, 60, pp. 212-219. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957879802&doi=10.1016%2fj.jmbbm.2015.12.038&partnerID=40&md5=70e23c3029d95eb97fcefd033d338f36	**2,876**		**A30=12,481 puncte**
C30.1	*Dworak, M., Rudawski, A., Markowski, J., Blazewicz, S. Dynamic mechanical properties of carbon fibre-reinforced PEEK composites in simulated body-fluid (2017) Composite Structures, 161, pp. 428-434.* *https://www.scopus.com/inward/record.uri?eid=2-s2.0-85002335999&doi=10.1016%2fj.compstruct.2016.11.070&partnerID=40&md5=decfa25b70861689b8302db6e9817baf*		*3,853*	
C30.2	*Schwitalla, A.D., Abou-Emara, M., Zimmermann, T., Spintig, T., Beuer, F., Lackmann, J., Müller, W.-D. The applicability of PEEK-based abutment screws* *(2016) Journal of the Mechanical Behavior of Biomedical Materials, 63, pp. 244-251.* *https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978908864&doi=10.1016%2fj.jmbbm.2016.06.024&partnerID=40&md5=bff09b459650faa356aa59c794b87391*		*2,876*	
C30.3	*Wang, Z., Li, Y., Huang, W., Chen, X., He, H. Micro-abrasion–corrosion behaviour of a biomedical Ti–25Nb–3Mo–3Zr–2Sn alloy in simulated physiological fluid (2016) Journal of the Mechanical Behavior of Biomedical Materials, 63, pp. 361-374.* *https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978795900&doi=10.1016%2fj.jmbbm.2016.07.010&partnerID=40&md5=2512234dd6c638b3574da9eeabbb9e66*		*2,876*	
A31	Carvalho, O., **Buciumeanu, M.,** Miranda, G., Costa, N., Soares, D., Silva, F.S., Mechanisms governing the tensile, fatigue, and wear behavior of carbon nanotube reinforced aluminum alloy (2016) Mechanics of Advanced Materials and Structures, 23 (8), pp. 917-925.	**1,000**		**A31=1,000 puncte**

	https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960451311&doi=10.1080%2f15376494.2015.1063176&partnerID=40&md5=8a0747fa3fe46d8a29934f7aa9070e8b			
A32	Souza, J.C.M., Bentes, A.C., Reis, K., Gavinha, S., **Buciumeanu, M.**, Henriques, B., Silva, F.S., Gomes, J.R., Abrasive and sliding wear of resin composites for dental restorations (2016) Tribology International, 102, pp. 154-160. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971377588&doi=10.1016%2fj.triboint.2016.05.035&partnerID=40&md5=d13b285fa0a5be5de47a79b91fe97d11	**2,259**		**A32=4,498 puncte**
C32.1	*Wang, W., Wang, D., Yamaguchi, T., Nishio, K., Yan, M., Li, Y. Comparative study of wear performance of ceramic/iron composite coatings under two different wear modes (2017) Surface and Coatings Technology, 309, pp. 136-148. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995948191&doi=10.1016%2fj.surfcoat.2016.11.059&partnerID=40&md5=a30f6e12a0d221c54e3e7a77fcdb0a11*		*2,139*	
C32.2	*Pieniak, D., Walczak, A., Niewczas, A.M. Comparative study of wear resistance of the composite with microhybrid structure and nanocomposite (2016) Acta Mechanica et Automatica, 10 (4), pp. 306-309. https://www.scopus.com/inward/record.uri?eid=2-s2.0-85005950636&doi=10.1515%2fama-2016-0048&partnerID=40&md5=6b4423f0783e59da8a7c8e0a3c02e2a8*		*0,1*	
A33	Santos, R.L.P., **Buciumeanu, M.,** Silva, F.S., Souza, J.C.M., Nascimento, R.M., Motta, F.V., Carvalho, O., Henriques, B. Tribological behaviour of glass-ceramics reinforced by Yttria Stabilized Zirconia (2016) Tribology International, 102, pp. 361-370. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84976471672&doi=10.1016%2fj.triboint.2016.05.047&partnerID=40&md5=b9de2a10ec89317ecb20aeeb8f77bb76	**2,259**		**A33=2,259 puncte**
A34	Miranda, G., Araújo, A., Bartolomeu, F., **Buciumeanu, M.**, Carvalho, O., Souza, J.C.M., Silva, F.S., Henriques, B., Design of Ti6Al4V-HA composites produced by hot pressing for biomedical applications (2016) Materials and Design, 108, pp. 488-493. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978131783&doi=10.1016%2fj.matdes.2016.07.023&partnerID=40&md5=1753fb9cdb28f19b	**3,997**		**A34=3,997 puncte**

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A35	Santos, R.L.P., **Buciumeanu, M.**, Silva, F.S., Souza, J.C.M., Nascimento, R.M., Motta, F.V., Henriques, B., Tribological behavior of zirconia-reinforced glass–ceramic composites in artificial saliva (2016) Tribology International, 103, pp. 379-387. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979995629&doi=10.1016%2fj.triboint.2016.07.019&partnerID=40&md5=f0b3b6b0fcd5aa514696da51ff415900	**2,259**		**A35=2,259 puncte**
A36	Sampaio, M., **Buciumeanu, M.**, Askari, E., Flores, P., Souza, J.C.M., Gomes, J.R., Silva, F.S., Henriques, B., Effects of poly-ether-ether ketone (PEEK) veneer thickness on the reciprocating friction and wear behavior of PEEK/Ti6Al4V structures in artificial saliva, (2016) Wear, 368-369, pp. 84-91. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989318630&doi=10.1016%2fj.wear.2016.09.009&partnerID=40&md5=934d884268abaca917fa342d290a3a3c	**2,323**		**A36=2,323 puncte**
A37	**Buciumeanu, M.**, Araujo, A., Carvalho, O., Miranda, G., Souza, J.C.M., Silva, F.S., Henriques, B., Study of the tribocorrosion behaviour of Ti6Al4V – HA biocomposites (2017) Tribology International, 107, pp. 77-84. https://www.scopus.com/inward/record.uri?eid=2-s2.0-84995784252&doi=10.1016%2fj.triboint.2016.11.029&partnerID=40&md5=17325fc94d9931ba93ad7a2730a8a90d	**2,259**		**A37=2,259 puncte**
Punctaj total criteriul CDI				$\mathbf{CDI} = \sum_{i=1}^{37} A_i = 252,526$ **puncte**

Criteriul 2. Activitate didactică – DID

Nr. Crt.	Carte	Pagini	Punctaj/carte
1	D. Panţuru, V. Palade, N. Diaconu, I.G. Bîrsan, **M. Buciumeanu**, S. Dorin, Reologia curgerii vâscoase, Vol. 2, Editura "Evrika" Braila, 2004, **246 pages**, ISBN 973-641-050-1.	41	0,82
2	C. Spânu, **M. Buciumeanu**, D. Panţuru, Variatoare de turaţie cu curele late, Editura Fundaţiei Universitare “Dunărea de jos” Galaţi, 2004, **103 pages**, ISBN 973-627-131-5.	35	0,70
3	N. Diaconu, V. Palade, **M. Buciumeanu**, I.G. Bîrsan, D. Panţuru, S. Dorin, Bazele reologiei, Vol. 1. Editura "Evrika" Braila, 2003, **225 pages**, ISBN 973-641-049-8.	36	0,72
4	C. Banu, D. Bordei, D. Panţuru, I.G. Bîrsan, I. Vintila, S. Rubtov, R. Burluc, S. Dorin, N. Stanciu, A. Enisei, **M. Buciumeanu**, A. Chilat, Dictionar explicativ pentru stiinte exacte, Român / Englez / Francez / Rus, Editura Academiei Române (Romanian Academy Publishing House), Bucuresti, 2003. (**186 pag**)	15	0,3
5	L. Tomascu, D. Panţuru, **M. Buciumeanu**, Elemente de inginerie mecanică. Îndrumar de proiectare, Editura Fundaţiei Universitare “Dunărea de jos” Galaţi, 2002, **141 pages**, ISBN 973-8352-46-0	47	0,94
6	D. Panţuru, V. Palade, **M. Buciumeanu**, I. Mircea, Elemente de inginerie mecanica, vol.I, Editura Fundatiei Universitare "Dunarea de Jos" Galati, 2002, **184 pages**, ISBN 973-8352-63-0.	46	0,92
7	**M. Buciumeanu**, Note de curs Organe de masini navale, 2012 (format electronic) (**132 pag**)	132	2,64
8	**M. Buciumeanu**, Aplicaţie: Reductor de turatie, 2012 (format electronic) (**49 pag**)	49	0,98
9	**M. Buciumeanu,** Echipamente de process (Proiect – Centrifuga de filtrare) (format electronic), 2010 (**23 pag**).	23	0,46
10	**M. Buciumeanu**, Prediction of fretting fatigue life, LAP Lambert Academic Publishing, 2012, **248 pages**, ISBN-10: 3838388798, ISBN-13: 978-3838388793. http://www.amazon.ca/Prediction-Fretting-Fatigue-Buciumeanu-Mihaela/dp/3838388798	248	4,96
11	C. Banu şi colectiv, Dicţionar explicativ pentru ştiinţă şi tehnologie - Industrie alimentară, Român/Englez/Francez/Rus, Editura AGIR (ISBN 973-720-079-2), Bucuresti, 2006 (**1114 pag)**	15	0,3
Punctaj total criteriul DID			**DID=13,740 puncte**

Criteriul 3. Recunoaştere şi impactul activităţii - RIA

Nr. Crt.	Proiecte	Valoare	Punctaj
1	Grand de cercetare doctorala acordat de Fundaţia pentru ştiinţă şi tehnologie (Fundaçao para a Ciencia e a Tecnologia), Lisabona, Portugalia. Numărul de referinţă: SFRH/BD/19555/2004 (4 ani, 48840 €) (international)	48840 €	4,884
2	Membru în contractul de cercetare "Mechanical, wear and fatigue properties of sintered Nanotube-based functionally graded materials", finanţat de Fundaţia pentru ştiinţă şi tehnologie (Fundaçao para a Ciencia e a Tecnologia), Lisabona, Portugal. Direct proiect: Prof. Dr. Ing. Filipe Samuel Correia Pereira da Silva, Numar de referinta: PTDC/EME-PME/68664/2006 (Funding: € 70,000.00) (international) http://www.fct.pt/apoios/projectos/consulta/vglobal_projecto?idProjecto=68664&idElemConcurso=877	70000 €	1,750
3	PostDoc Researcher în contractul de cercetare „Multi-material laser sintering for the production of Functional Graded Structures", finanţat de Fundaţia pentru ştiinţă şi tehnologie (Fundaçao para a Ciencia e a Tecnologia), Lisabona, Portugal. Direct proiect: Prof. Dr. Ing. Filipe Samuel Correia Pereira da Silva, Numar de referinta: (Funding: € 453,999) (international).	453,999 €	11,34
4	Membru în contractul Numar contract: Cod CNCSIS 448: Proiect tip A "Sinteza, analiza si prelucrarea unor noi angrenaje nestandardizate din nanocompozite polimerice" Prof.dr.ing. Andrei Laura (responsible contract), 109 mil, 2004, beneficiar CNCSIS.	109000	0,545
5	Membru în contractul: Proiect CNCSIS tip A COD 514 / tema 1/ 2006, Dezvoltarea unei noi clase de compozite polimerice nanostructurate usoare cu proprietati electrice si magnetice pentru aplicatii aero-spatiale. Director Prof.dr.ing. Gabriel ANDREI, 77965 RON, 2006.	77965	0,389
Punctaj total criteriul RIA			**18,918 puncte**

TABEL CENTRALIZATOR

Crit.	Profesor universitar	Puncte
CDI	Minim 10 puncte (din care minim 6 puncte din CDI-ART)	**CDI=252,526 (100%** realizat din **CDI-ART)**
DID	Minim 10 puncte (din care minim 6 puncte din DID-MSC)	**DID=13,740 (100%** realizat din **DID-MSC)**
RIA	Minim 10 puncte	**RIA=18,918 (100%** realizat din **RIA-GRA)**