

Concurs pentru ocuparea postului poz. 19, de Conferențiar,
 Departamentul de Inginerie Mecanică Mecatronică și Robotică,
 Facultatea de Mecanică,
 Disciplinele: Materiale moderne și structuri compozite utilizate în construcția automobilelor;
 Tehnici avansate de analiza a materialelor din structuri mecatronice/Expertize metalografice;
 Mecatronica în domeniul serviciilor;
 Știința și Ingineria Materialelor.

Domeniul: Ingineria Materialelor ,
 Post publicat în Monitorul Oficial al României nr. 782 din 24.11.2020.

LISTA DE LUCRĂRI

Candidat: **ISTRATE M. Bogdan - Dr./** Ord. MECS Nr. 3867/27.05.2016, **Asist.univ.dr.ing.** din 26.09.2016,
Sef.lucr.dr.ing. din 07.02.2019

1^o Teza de doctorat (T1)

T1 “Cercetări asupra influenței unor depuneri superficiale pe aliaje metalice biodegradabile utilizate în domeniul medical” / “Research concerning the influence of some surface coatings on biodegradable metallic alloys used in the medical field” – 11.02.2016 – Univ.Tehnică “Gheorghe Asachi” din Iași, Domeniul Ingineria Materialelor, Conducător de doctorat: Prof.univ.dr.ing. Munteanu Corneliu.
 (inclusiv anul, universitatea, domeniul, conducătorul de doctorat)

2^o Cărți/ cursuri/ manuale publicate în edituri recunoscute din țară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcționale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum și alte lucrări (M1, M2 etc.) prin care se aduc contribuții la dezvoltarea activităților didactice/ profesionale.

		Punctaj
Ca	Cărți/ cursuri/ manuale publicate în edituri recunoscute din țară sau din străinătate	64.1
	Ca1. B. Istrate – Materiale metalice biodegradabile pe bază de magneziu, Ed. PIM, 268 pg., 2020, Iași, ISBN: 978-606-13-5704-8 , Carte de specialitate în domeniu Ing. Mat.	268/5x1 = 53.6
	Ca2. B. Istrate , C. Munteanu – Expertize Metalografice, Ed. PIM, 210 pg., 2020, Iași, ISBN: 978-606-13-5731-4, Suport didactic	210/10x2 = 10.5

		Punctaj
I	Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)	3.7
	I1. C. Munteanu, B.Istrate , S-C. Lupescu, Știința și Ingineria Materialelor – Îndrumar de laborator, , Ed. “Europlus”, 222 pg., 2019, Galați, ISBN: 978-606-628-207-9	222/20x3 = 3.7

3^o Cărți/ capitole cărți de specialitate publicate în edituri recunoscute din țară sau din străinătate (Cb1, Cb2 etc.), articole/ studii publicate în reviste din țară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), brevete de invenție (B1, B2 etc.), creații artistice prezentate la manifestări recunoscute din țară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor științifice naționale/ internaționale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum și alte lucrări (N1, N2 etc.) prin care se aduc contribuții științifice la dezvoltarea domeniului.

		Punctaj
Cb	Capitol carte de specialitate publicată în editură din străinătate	1
	Cb1. L. G. Bujoreanu, B. Pricop, N. M. Lohan, M.G. Suru, B. Istrate , Book Chapter, Structural and Chemical Variations Induced by Thermomechanical Cycling in Shape Memory Actuators, Frontiers in Materials Processing, Applications, Research and Technology, 2018, DOI: 10.1007/978-981-10-4819-7_7, pp. 63-73	10/2x5 = 1
R	Articole în reviste cotate ISI Thomson Reuters-Web of Science Core Collection și în volume indexate ISI proceedings - Web of Science	573.33
	R1. B. Istrate , C. Munteanu, S. Lupescu, R. Chelariu, M.D. Vlad, P. Vizureanu, MATERIALS, Vol. 13, Is. 14, Article Number: 3082, 2020, DOI: 10.3390/ma13143082, WOS:000554140300001, FI (2019): 3.057	50x3.057/ 6 = 25.48

R2. B. Istrate , J.V. Rau, C. Munteanu, I.V. Antoniac, V. Saceleanu, Properties and in vitro assessment of ZrO ₂ -based coatings obtained by atmospheric plasma jet spraying on biodegradable Mg-Ca and Mg-Ca-Zr alloys, CERAMICS INTERNATIONAL, Vol. 46, Is. 10, 15897-15906 Part: B, 2020, DOI: 10.1016/j.ceramint.2020.03.138, WOS:000533512000020, FI (2019): 3.83	50x3.83/5 = 38.30
R3. B. Istrate , C. Munteanu, R. Chelariu, D. Mihai, R. Cimpoesu, F.S.V Tudose, Electrochemical Evaluation of Some Mg-Ca-Mn-Zr Biodegradable Alloys, REVISTA DE CHIMIE, Vol. 70, Is. 9, 3435-3440, 2019, WOS:000489958900072, FI (2019): 1.755	50x1.755/6 = 14.63
R4. S Lupescu, C Munteanu, B Istrate , K Earar, The Influence of Zr on Microstructure, Mechanical Properties and Corrosion Resistance in Mg-Y-Zr Biodegradable Alloys, REV.CHIM.(Bucharest), Vol. 69, No. 12, pp. 3382-3385, 2018, WOS:000458533800010, autor corespondent FI (2019): 1.755	50x1.755/6 = 21.94
R5. B. Istrate , C. Munteanu, C.I. Crimu, S.I. Strugaru, M. Benchea, K. Earar, Morphological and tribological aspects of some ZrO ₂ coatings on Mg-Ca biodegradable alloys, Indian Journal of Engineering & Materials Sciences Vol. 23, pp. 418-424, 2016, WOS:000406728100006, FI(2019): 0.521	50x0.521/6 = 4.34
R6. B. Istrate , D. Mareci, C. Munteanu, S. Stanciu, C.I. Crimu, L.C. Trinca, E. Kamel, In vitro electrochemical properties of biodegradable YSZ-coated MgCa alloy, Environmental Engineering and Management Journal, Vol.15, No. 5, 955-963, 2016, WOS:000381274100002, FI(2018): 1.186	50x1.186/7 = 8.47
R7. B. Istrate , D. Mareci, C. Munteanu, S. Stanciu, D. Luca, C.I. Crimu, E. Kamel, In vitro electrochemical properties of biodegradable ZrO ₂ -CaO coated MgCa alloy using atmospheric plasma spraying, Journal of Optoelectronics and Advanced Materials, 17 (7-8) pp.1186-1192, 2015, WOS:000359967600044, FI(2019): 0.631	50x0.631/7 = 4.51
R8. C.C. Paleu, C. Munteanu, B. Istrate , S. Bhaumik, P. Vizureanu, M.S. Baltatu, V. Paleu, Microstructural Analysis and Tribological Behavior of AMDRY 1371 (Mo-NiCrFeBSiC) Atmospheric Plasma Spray Deposited Thin Coatings, Coatings, 10(12), 1186, 2020, doi.org/10.3390/coatings10121186, FI(2019):2.436	50x2.436/7 = 17.4
R9. M. S. Baltatu, P. Vizureanu, A. V. Sandu, C. Munteanu, B. Istrate , Microstructural Analysis and Tribological Behavior of Ti-Based Alloys with a Ceramic Layer Using the Thermal Spray Method Coatings 2020, 10(12), 1216, 2020, doi.org/10.3390/coatings10121216, FI(2019):2.436	50x2.436/7 = 24.36
R10. S.N. Mazurchevici, B. Pricop, B. Istrate , A.D. Mazurchevici, V. Carlescu, C. Carausu, D. Nedelcu, Technological Parameters Effects on Mechanical Properties of Biodegradable Materials Using FDM MATERIALE PLASTICE, Vol. 57, Is. 2, 215-227, 2020, WOS: 000579451200023, FI (2019):1.517	50x1.517/7 = 10.83
R11. E.I. Muresan, T. Malutan, D. Lutic, A. Puitel, N. Cimpoesu, B. Istrate , MACROSPHERICAL POROUS METALLOSILICATE MATERIALS: CHARACTERIZATION AND APPLICATIONS, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, Vol. 19, Is. 2, 195-204, 2020, WOS:000531733600002, FI(2018): 1.186	50x1.186/6 = 9.88
R12. N.M. Lohan, B. Pricop, M. Popa, E. Matcovschi, N. Cimpoesu, R. Cimpoesu, B. Istrate , L.G. Bujoreanu, JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, Vol. 28, Is. 12, 7273-7280, 2019, DOI: 10.1007/s11665-019-04473-6, WOS:000507536600010, FI(2019): 1.652	50x1.652/8 = 10.33
R13. EI Muresan, A Pui, T Malutan, A Coroaba, N Cimpoesu, B Istrate , M Pinteala, Hard meso/macroporous iron oxide/iron silicate macrospheres obtained by the multi-templating technique, Journal of Chemical Technology and Biotechnology, Vol. 94, Is. 9, pp. 2888-2898, DOI: 10.1002/jctb.6092, 2019, WOS:000480612500013, FI(2019): 2.75	50x2.75/7 = 19.64
R14. D Nedelcu, A Marguta, S Mazurchevici, C Munteanu, B Istrate , Micro-structural and morphological analyses of coated 'liquid wood' samples by ceramic particles, Materials Research Express, Vol. 6, Is. 8, Article Number: 085326, DOI: 10.1088/2053-1591/ab220b, 2019, WOS:000469826100001, FI(2019): 1.929	50x1.929/5 = 19.29
R15. T Roman, RL Asavei, NE Karkalos, C Roman, C Virlan, N Cimpoesu, B Istrate , M Zaharia, AP Markopoulos, K Kordatos, S Stanciu, A Pui, Synthesis and adsorption properties of nanocrystalline ferrites for kinetic modeling development, International Journal of Applied Ceramic Technology, Vol. 16, Is. 2, pp. 693-705, DOI: 10.1111/ijac.13091, 2019, WOS:000459618700026, FI(2019): 1.762	50x1.762/12 = 7.34

R16. C Bejinariu, C Munteanu, CD Florea, B Istrate , N Cimpoesu, A Alexandru, AV Sandu, Electro-chemical Corrosion of a Cast Iron Protected with a Al ₂ O ₃ Ceramic Layer, REV.CHIM.(Bucharest),Vol. 69,No. 12, pp. 3586-3589, 2018, WOS:000458533800054, FI(2018): 1.755	50x1.755/ 7 = 12.54
R17. N Cimpoesu, F Sandulache, B Istrate , R Cimpoesu, G Zegan, Electrochemical Behavior of Biodegradable FeMnSi-MgCa Alloy, Metals 2018, 8, 541; doi:10.3390/met8070541, WOS:000445096800071, FI(2019): 2.117	50x2.117/ 5 = 21.17
R18. V Geanta, I Voiculescu, I Milosan, B Istrate , I M Mates, Chemical Composition Influence on Microhardness, Microstructure and Phase Morphology of AlxCrFeCoNi High Entropy Alloys, REV.CHIM.(Bucharest),Vol. 69,No. 4, pp.798-801, 2018, WOS:000433223000009, FI(2019): 1.755	50x1.755/ 5 = 17.55
R19. C A Ghiorghe, G Iovan, V Carlescu, B Istrate , G Pancu, S Andrian, Comparative Evaluation of Hardness and Elasticity Modulus of Tooth-Colored Materials for Dental Restoration, REV.CHIM.(Bucharest), 68, No. 11, 2623-2627, 2017, WOS:000416751800033; FI(2019): 1.755	50x1.755/ 6 = 14.63
R20. S Lupescu, B Istrate , C Munteanu, M G Minciuna, S Focsaneanu, K Earar, Characterization of Some Master Mg-X System (Ca, Mn, Zr, Y) Alloys Used in Medical Applications, REV.CHIM.(Bucharest) Vol. 68 No. 6 pp. 1408-1413, 2017, WOS:000408702900034, FI(2019): 1.755	50x1.755/ 6 = 14.63
R21. G.Zegan, R. Cimpoeșu, M. Agop, I. Știrbu, D.L. Chicet, B. Istrate , A. Alexandru, B. Anton Prisacariu, Improving the HA deposition process on Ti-based advanced alloy through sandblasting, Optoelectronics and Advanced Materials-Rapid Communications, Vol. 10, Is, 3-4, pp. 279-284, 2016, WOS:000376707900031, FI(2019): 0.445	50x0.445/ 8 = 2.78
R22. D. Mareci, G. Bolat, B. Istrate , C. Munteanu, A. Căilean, Effect of thermal oxidation on electrochemical corrosion behavior of ZrTi alloys for dental applications, Materials and Corrosion 66 (12), pp. 1529–1535, 2015, WOS:000368419100019, FI(2019): 1.533	50x1.533/ 5 = 15.33
R23. L.C. Trincă, M. Fântânariu, C. Solcan, A.E. Trofin, L. Burtan, D.M. Acatrinei, S. Stanciu, B. Istrate , C. Munteanu, In vivo degradation behavior and biological activity of some new Mg-Ca alloys with concentration's gradient of Si for bone grafts, Applied Surface Science 352 pp.140-150, 2015, WOS:000361212200024, FI(2019): 6.182	50x6.182/ 9 = 34.34
R24. G.L. Pintilei, V.I. Crișmaru, M. Abrudeanu, C. Munteanu, D. Luca, B. Istrate , The influence of ZrO ₂ /20%Y ₂ O ₃ and Al ₂ O ₃ deposited coatings to the behavior of an aluminum alloy subjected to mechanical shock, Applied Surface Science, 352 pp. 169-177, 2015, WOS:000361212200029, FI(2019): 6.182	50x6.182/ 6 = 51.51
R25. G.L. Pintilei, V.I. Crișmaru, M. Abrudeanu, C. Munteanu, E.R. Baci, B. Istrate , N. Basescu, The behavior of ZrO ₂ /20%Y ₂ O ₃ and Al ₂ O ₃ coatings deposited on aluminum alloys at high temperature regime, Applied Surface Science 352 pp.178-183, 2015, WOS:000361212200030, FI(2019): 6.182	50x6.182/ 7 = 44.16
R26. O. Parteni, C.D. Radu, A. Muresan, M.Popa, L.Ochiuz, A.V. Sandu, G.Agafitei, B. Istrate , C. Munteanu, Improving the obtaining factors of a chitosan hydrogel based biomaterial, Revista de Chimie, 10 pp,1595-1599, 2015, FI(2019): 1.755	50x1.755/ 9 = 9.75
R27. E.S. Bârcă, A.G. Plăiașu, M. Abrudeanu, B. Istrate , D. Luca, C. Munteanu, Study of the plasma deposition of Al ₂ O ₃ powder on an internal combustion engine piston, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS 17 (9-10) pp. 1522-1527, 2015, WOS:000364600400046, FI(2019): 0.631	50x0.631/ 6 = 5.26
R28. E.I. Mureșan, N. Cimpoeșu, A. Bargan, B. Istrate , Effect of the Template on the Textural Properties of the Macrospherical Trimodal Metallosilicate Materials, Journal of Inorganic and Organometallic Polymers and Materials, 25 (5) pp. 1060-1068, 2015, WOS:000359536800007, FI(2019): 1.941	50x1.941/ 4 = 24.26
R29. L.G. Bujoreanu, R. Comăneci, G. Gurău, N.M. Lohan, M.G. Suru, B. Pricop, V. Goanță, V. Mușat, B. Istrate , E. Mihalache, Thermomechanical training effects of multifunctional modules processed by high-speed high pressure torsion, Indian Journal of Engineering and Materials Sciences, 22 (4) pp. 367-375, 2015, WOS:000363078700001, FI(2019): 0.521	50x0.521/ 10 = 2.61
R30. D. Mareci, K. Earar, I. Zetu, G. Bolat, C. Crimu, B. Istrate , Comparative electrochemical behaviour of uncoated and coated NiTi for dental orthodontic wires, Materiale Plastice, 52 (2) pp. 150-153, 2015, WOS:000357767900004, FI(2019): 1.517	50x1.517/ 6 = 12.64
R31. P. Avram, M.S. Imbrea, B. Istrate , S.I. Strugaru, M. Benchea, C. Munteanu - Properties of Al ₂ O ₃ and NiAlSi coatings obtained by atmospheric plasma spraying on 34CrNiMo6 substrate, Indian Journal of Engineering & Materials Sciences, 21 pp. 315-321, 2014, WOS:000339305400012, FI(2019): 0.521	50x0.521/ 6 = 4.34

R32. V. Popescu, I. Sandu, E.I. Mureşan, B. Istrate , G. Lisa, Effects of the pre-treatment with atmospheric-air plasma followed by conventional finishing, Revista de Chimie, 65 (6) pp. 676-683, 2014, WOS:000339140400010, FI(2019): 1.755	50x1.755/ 5 = 17.55
R33. I. Cimpoeşu, S. Stanciu, N. Cimpoeşu, C. Munteanu, B. Istrate , A. Ursanu, D.D. Dană, A. Alexandru, C. Nejneru, Chemical and micro-structural characterization of a copper based shape memory alloy, Journal of optoelectronics and advanced materials, 15 (11-12) pp. 1392 – 1398, 2013, WOS:000329482600039, FI(2019): 0.631	50x0.631/ 9 = 3.51
Rv34. B. Istrate , T Voloseniuc, C Munteanu and Ş Lupescu, Topical Notions About in Vivo Analysis for Degradable Biomaterials with Utility in Human Body, IOP Conf. Series: Materials Science and Engineering 374 (2018) 012092 doi:10.1088/1757-899X/374/1/012092, WOS:000446775900092	50x0.1/4= 1.25
Rv35. B. Istrate , C Munteanu, S Lupescu, M Benchea, P Vizureanu, Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr3C2-NiCr Coatings on Magnesium Substrate, IOP Conf. Series: Materials Science and Engineering 209 (2017) 012024 doi:10.1088/1757-899X/209/1/012024, WOS:000423732100024	50x0.1/5= 1
Rv36. B. Istrate , C. Munteanu, M.N. Matei, B. Oprisan, M. Moisei, K. Earar, Microstructural analysis and mechanical properties of biodegradable Mg-1.3Ca-5.5Zr alloy, IOP Conf. Series: Materials Science and Engineering 145 (2016) 072003, WOS:000396437600119	50x0.1/6= 0.83
Rv37. B. Istrate , C. Munteanu, V. Geanta, S. Baltatu, S. Focsaneanu, K Earar, Microstructural analysis of biodegradable Mg-0.9Ca-1.2Zr alloy, IOP Conf. Series: Materials Science and Engineering 147 (2016) 012033 doi:10.1088/1757-899X/147/1/012033, WOS:000390720200033	50x0.1/6= 0.83
Rv38. B. Istrate , C. Munteanu, M.N. Matei, B. Oprisan, D. Chicet, K. Earar, Influence of ZrO2-Y2O3 and ZrO2-CaO coatings on Mg-1,3Ca-5,5Zr biodegradable alloy, IOP Conf. Series: Materials Science and Engineering 133, 012010, 2016, WOS:000391140000010	50x0.1/6= 0.83
Rv39. C.C. Paleu, V. Paleu, B. Istrate , N. Cimpoesu, C. Munteanu, Thin coatings for pumping station mechanical components, IOP Conf. Series: Materials Science and Engineering 591, 012007, 2019, WOS:000562929900007	50x0.1/5= 1
Rv40. S. Popescu, S. Stanciu, R. Cimpoesu, B. Istrate , N. Cimpoesu, V. Manole, I. Ionita, Electrochemical characterization of ZnMg-Ca biodegradable alloy, MATERIALS TODAY-PROCEEDINGS, Vol. 19, 1026-1031 Part: 3, DOI: 10.1016/j.matpr.2019.08.017, 2019, WOS:000496428200018	50x0.1/7= 0.71
Rv41. O. Mocanita, D. Chicet, B. Istrate , P. Avram, C. Munteanu, Behavior of multilayer materials when exposed to open flame, MATERIALS TODAY-PROCEEDINGS, Vol. 19, 1073-1080 Part: 3, 2019, DOI: 10.1016/j.matpr.2019.08.023, WOS:000496428200024	50x0.1/5= 1
Rv42. C. Stescu, C. Munteanu, D. Chicet, M. Panturu, B. Istrate , UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Vol. 81, Is. 2, 239-248, 2019, WOS:000487213500021	50x0.1/5= 1
Rv43. M. Panturu, D. Chicet, S. Lupescu, B. Istrate, C. Munteanu, APPLICATIONS OF CERAMIC COATINGS AS TBCs ON THE INTERNAL COMBUSTION ENGINE VALVES, ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Vol. 61, Is. 1, 137-142, 2018, WOS:000428903500022	50x0.1/5= 1
Rv44. A David, A M Comanici, B. Istrate , C Munteanu and P D Barsanescu, Failure surfaces morphology for specimens with stress concentrators using scanning electron microscopy, IOP Conf. Series: Materials Science and Engineering 444 (2018) 062018 doi:10.1088/1757-899X/444/6/062018, WOS:000467443600105	50x0.1/5= 1
Rv45. S Lupescu, C Munteanu, B. Istrate , D Luca, M Benchea and G Mahu, Experimental, microstructural and tribological studies of the system Mg-2Ca-5Y, IOP Conf. Series: Materials Science and Engineering 444 (2018) 032008 doi:10.1088/1757-899X/444/3/032008, WOS:000467443600030	50x0.1/6= 0.83
Rv46. G Mahu, C Munteanu, B. Istrate , M Benchea and S Lupescu, Influence of Al2O3-13TiO2 powder on a C45 steel using atmospheric plasma spray process, IOP Conf. Series: Materials Science and Engineering 444 (2018) 032010 doi:10.1088/1757-899X/444/3/032010, WOS:000467443600032	50x0.1/6= 0.83
Rv47. O Mocănița, D L Chicet, C Munteanu, B. Istrate and B Opreșan, Fire-resistant behaviour of some cellular materials treated with intumescent solutions, IOP Conf. Series: Materials Science and Engineering 444 (2018) 032011 doi:10.1088/1757-899X/444/3/032011, WOS:000467443600033	50x0.1/5= 1

Rv48. M Panțuru, D L Chicet, C Munteanu, B Istrate and P Avram, Microstructural aspects at coating-substrate interface for some thermal sprayed layers on valve discs, IOP Conf. Series: Materials Science and Engineering 444 (2018) 032009 doi:10.1088/1757-899X/444/3/032009, WOS:000467443600031	50x0.1/5= 1
Rv49. C Stescu, D L Chicet, C Munteanu, B Istrate , M Benchea and G-N Basescu, Aspects regarding the influence of the processing regime on the surface quality of thermal sprayed coatings, IOP Conf. Series: Materials Science and Engineering 444 (2018) 032012 doi:10.1088/1757-899X/444/3/032012, WOS:000467443600034	50x0.1/6= 0.83
Rv50. G. Mahu, C. Munteanu, B. Istrate , M. Benchea, Analysis of plasma jet depositions on a C45 steel used in crankshaft manufacturing, POWDER METALLURGY AND ADVANCED MATERIALS, Book Series: Materials Research Proceedings, Vol. 8, 61-69, DOI: 10.21741/9781945291999-7, WOS:000452925200007	50x0.1/4= 1.25
Rv51. S Dobrița, B Istrate , N Cimpoeșu, S Stanciu, V Apostol, R Cimpoeșu*, I Ioniță and P Paraschiv, Preliminary Results on the Corrosion Behaviour of a New Biodegradable Metallic Material Based on Zinc, IOP Conf. Series: Materials Science and Engineering 374 (2018) 012027 doi:10.1088/1757-899X/374/1/012027, WOS:000446775900027	50x0.1/8= 0.63
Rv52. C D Florea, C Bejinariu, C Munteanu, B Istrate , S L Toma, A Alexandru and R Cimpoeșu*, Corrosion Resistance of a Cast-Iron Material Coated With a Ceramic Layer Using Thermal Spray Method, IOP Conf. Series: Materials Science and Engineering 374 (2018) 012028 doi:10.1088/1757-899X/374/1/012028, WOS:000446775900028	50x0.1/7= 0.71
Rv53. A Savin, P Vizureanu, Z Prevorsevsky, M Chlada, J Krofta, M S Baltatu, B Istrate and R Steigmann, Noninvasive Evaluation of Special Alloys for Prostheses Using Complementary Methods, IOP Conf. Series: Materials Science and Engineering 374 (2018) 012030 doi:10.1088/1757-899X/374/1/012030, WOS:000446775900030	50x0.1/8= 0.63
Rv54. V. GEANTĂ, I. VOICULESCU, B. ISTRATE , D. M. VRÂNCEANU, R. CIOCOIU, C. M. COTRUȚ, The Influence of Chromium Content on the Structural and Mechanical Properties of AlCrFeCoNi High Entropy Alloys, International Journal of Engineering Research in Africa, ISSN: 1663-4144, Vol. 37, pp 23-28, 2018, doi:10.4028/www.scientific.net/JERA.37.23, WOS:000444288100003	50x0.1/6= 0.83
Rv55. S Lupescu, C Munteanu, B Istrate , S Stanciu, N Cimpoesu, B Oprisan, Microstructural Investigations on Alloy Mg-2Ca-0.2Mn-0.5Zr-1Y, IOP Publishing IOP Conf. Series: Materials Science and Engineering 209 (2017), 012018 doi:10.1088/1757-899X/209/1/012018, WOS:000423732100018	50x0.1/6= 0.83
Rv56. M G Minciuna, P Vizureanu, M M B Abdullah, D C Achitei, B Istrate , R Cimpoesu, S C Focsaneanu, Surface Characterization of New Biomaterials, IOP Publishing IOP Conf. Series: Materials Science and Engineering 209 (2017) 012022 doi:10.1088/1757-899X/209/1/012022, WOS:000423732100022	50x0.1/7= 0.71
Rv57. G Mahu, C Munteanu, B Istrate , M Benchea, Plasma sprayed coatings on crankshaft used steels, IOP Conf. Series: Materials Science and Engineering 227 (2017) 012077 doi:10.1088/1757-899X/227/1/012077, WOS:000409221600077	50x0.1/4= 1.25
Rv58. P. Simion, V. Dia, B. Istrate , G. Hrituleac, I. Hrituleac, C. Munteanu, Study of fatigue behavior of longitudinal welded pipes, IOP Conf. Series: Materials Science and Engineering 145 (2016) 022032, WOS:000396437600032	50x0.1/6= 0.83
Rv59. V. Paleu, S. Georgescu, C. Baci, B. Istrate , E. R. Baci, Preliminary experimental research on friction characteristics of a thick gravitational casted babbit layer on steel substrate, IOP Conf. Series: Materials Science and Engineering 147 (2016) 012028 doi:10.1088/1757-899X/147/1/012028, WOS:000390720200028	50x0.1/5= 1
Rv60. C. Paulin, D.L. Chicet, B. Istrate , M. Panțuru, C. Munteanu, Corrosion behavior aspects of Ni-base self-fluxing coatings, IOP Conf. Series: Materials Science and Engineering 147 (2016) 012034 doi:10.1088/1757-899X/147/1/012034, WOS:000390720200034	50x0.1/5= 1
Rv61. D.C. Achitei, M.G. Minciună, P. Vizureanu, A.V. Sandu, R. Cimpoeșu, B. Istrate , Study on structure and properties of CuZn40Pb alloy, IOP Conf. Series: Materials Science and Engineering 133, 012015, 2016, WOS:000391140000015	50x0.1/6= 0.83
Rv62. E. Mihalache, B. Pricop, M.G. Suru, N.M. Lohan, R.I. Comănescu, B. Istrate , B. Özkal, L.G. Bujoreanu, Factors influencing martensite transitions in Fe-based shape memory alloys, Matec Web of Conferences 33, 04002 pp. 1-6, 2015, WOS:000372402800039	50x0.1/8= 0.63

Rv63. B. Pricop, U. Söyler, B. Özkal, M.G. Suru, N.M. Lohan, R.I. Comănescu, N. Cimpoeșu, V. Mușat, G. Gurău, B. Istrate , E. Mihalache, L.G. Bujoreanu, A study of martensite formation in powder metallurgy Fe-Mn-Si-Cr-Ni shape memory alloys, Materials Today: Proceedings 2S pp. S789 – S792, WOS:000372402800041	50x0.1/12 = 0.42
Rv64. E.S. Bărcă, V. Rizea, M. Abrudeanu, A.G. Plăiașu, B. Istrate , C. Munteanu, A comparative study of morphology and composition on oxide nanopowders elaborated by SPVD, IOP Conference Series-Materials Science and Engineering 95 012028, 2015, WOS:000365128900028	50x0.1/6= 0.83
Rv65. B. Pricop, E. Mihalache, N.M. Lohan, B. Istrate , M. Mocanu, B. Ozkal, L.G. Bujoreanu, Powder metallurgy and mechanical alloying effects on the formation of thermally induced martensite in an FeMnSiCrNi SMA, Matec Web of Conferences 33, 04002 pp. 1-6. 2015, WOS:000371032100070	50x0.1/7= 0.71
Articole în reviste și volumele unor manifestări științifice indexate în alte Baze de Date Internaționale [BDI]	33.88
R1. B. Istrate , C. Munteanu, Tribological aspects of some biodegradable magnesium alloys, INCAS Bulletin, Volume 12, Issue 1, 2020, Pages 83-89, DOI: 10.13111/2066-8201.2020.12.1.8	50x0.08/2 = 2
R2. G. Mahu, C. Munteanu, B. Istrate , I. Blanari, C. Paleu, C.M. Cotrut, Evaluation of the corrosion resistance of some coating obtained by thermal spray in plasma jet, on the surface of some crankshafts made of C45 steel, Revista de Chimie, Vol. 71, Is. 10, 211-223, 2020, DOI: 10.37358/RC.20.10.8366, autor corespondent	50x0.08/6 = 0.66
R3. B. Oprisan, D. Vasincu, S. Lupescu, C. Munteanu, B. Istrate , D. Popescu, C. Condratovici, A.R. Dimofte, K. Earar, Electrochemical analysis of some biodegradable Mg-Ca-Mn alloys, Revista de Chimie, Volume 70, Issue 12, 2019, Pages 4525-4530, DOI: 10.37358/RC.19.12.7788, autor corespondent	50x0.08/9 = 0.44
R4. B. Istrate , C. Munteanu, S. Lupescu, V-I Antoniac and E. Sindilar, Structural Characterization of Mg-0.5Ca-xY Biodegradable Alloys, Key Engineering Materials, ISSN: 1662-9795, Vol. 782, pp 129-135, doi:10.4028/www.scientific.net/KEM.782.129	50x0.08/5 = 0.8
R5 B. Istrate , C.I. Crimu, C. Munteanu, Microstructural analysis of Mg-Ca and Mg-Si-Ca biodegradable alloys, International Journal of Modern Manufacturing Technologies, 7 (1) pp. 36-41, 2015	50x0.08/3 = 1.33
R6. B. Istrate , C.I. Crimu, S. Stanciu, B. Opreșan, C. Munteanu, Comparative XRD and microstructure analysis on biodegradable Mg-Si-Ca alloys, Key Engineering Materials 660 pp. 51-56, 2015, DOI: 10.4028/www.scientific.net/KEM.660.51	50x0.08/5 = 0.8
R7. B. Istrate , C. Munteanu, S.I. Strugaru, A. Barca, C. Biniuc, C.I. Crimu, Influence of time on thermal oxidation of CP-Ti Grade II at 850 °C, Key Engineering Materials, 614 pp. 35-40, 2014, DOI: 10.4028/www.scientific.net/KEM.614.35	50x0.08/6 = 0.67
R8. B. Istrate , C. Munteanu, D. Luca, E. Kamel, E.S. Barca, I. Antoniac, Tribological tests and SEM analysis for titanium oxide layers, Key Engineering Materials, 614 pp. 74-79, 2014, DOI: 10.4028/www.scientific.net/KEM.614.74	50x0.08/6 = 0.67
R9. B. Istrate , C. Munteanu, P. Simion, V. Dia, P. Avram, C.I. Crimu, E. Kamel, Influence of the degree of cold drawing over the wear test and XRD analysis of pipes used for dampers, Applied Mechanics and Materials, 659 pp. 85-90, 2014, DOI: 10.4028/www.scientific.net/AMM.659.85	50x0.08/7 = 0.57
R10. B. Istrate , C.I. Crimu, C. Munteanu, C. Biniuc, L.G. Pintilei, S.C. Strugaru Iacob, P. Avram, E. Kamel, Structural modification of α-Ti based alloy after submission to open flame thermal shock, Key Engineering Materials, 638 pp. 333-338, 2014, DOI: 10.4028/www.scientific.net/KEM.638.333	50x0.08/8 = 0.50
R11. C. Stescu, D. Chicet, A. Tufescu, B. Istrate , C. Munteanu, S.I. Strugaru, Contact stress simulation problem in case of thermal spray coatings, IOP Conference Series: Materials Science and Engineering, Vol. 916, Is. 1, 2020, Article number 012114, 10.1088/1757-899X/916/1/012114	50x0.08/6 = 0.66
R12. A. Savin, F. Novy, M.L. Craus, N. Iftimie, R. Steigmann, B. Istrate , C. Munteanu, Assessment of magnesium calcium alloys improved by rare earths addition for medical implants, Vol. 916, Is. 1, 2020, Article number 012099, 10.1088/1757-899X/916/1/012099	50x0.08/7 = 0.57
R13. O. Mocanita, D.L. Chicet, O. Rusu, B. Istrate , C. Munteanu, Expanded Foam Glass - An Application for Fire Resistant Multilayer Materials, IOP Conference Series: Materials Science and Engineering, Vol. 877, Is. 1, 2020, Article number 012038, 10.1088/1757-899X/877/1/012038	50x0.08/5 = 0.8

R14. C. Cîrlan Paleu, B. Istrate , V. Paleu, C. Munteanu, Technological and structural analysis of Al ₂ O ₃ 40TiO ₂ coating deposited on a shaft sleeve of hydraulic pump, IOP Conference Series: Materials Science and Engineering, Vol. 724, Is. 1, 2020, Article number 012063, DOI: 10.1088/1757-899X/724/1/012063	50x0.08/4 = 1
R15. V. Paleu, C. Cîrlan Paleu, B. Istrate , S. Bhaumik, C. Munteanu, Friction and wear resistance of Al ₂ O ₃ 40TiO ₂ (AMDRY 6250) coating of a pump shaft sleeve bearing, IOP Conference Series: Materials Science and Engineering, Vol. 724, Is. 1, 2020, Article number 012064, DOI: 10.1088/1757-899X/724/1/012064	50x0.08/5 = 0.8
R16. M. Luțcanu, N. Cimpoeșu, B. Istrate , M. Coteață, V. Manole, I. Știrbu, F. Dimitriu, Procedia Manufacturing, Vol. 47, 2020, Pages 808-811, DOI: 10.1016/j.promfg.2020.04.249	50x0.08/7 = 0.57
R17. C. Cîrlan Paleu, V. Paleu, B. Istrate , N. Cimpoesu, C. Munteanu, IOP Conference Series: Materials Science and Engineering, Vol. 591, Is. 1, 2019, Article number 012007, DOI: 10.1088/1757-899X/591/1/012007	50x0.08/5 = 0.8
R18. O. Mocanita, D. Chicet, B. Istrate , C. Micu, C. Munteanu, Investigation of thermal coating influence on the fire resistance of a multi-layer material, IOP Conference Series: Materials Science and Engineering, Vol. 572, Is. 1, 2019, Article number 012052, DOI: 10.1088/1757-899X/572/1/012052	50x0.08/5 = 0.8
R19. A. Savin, N. Iftimie, R. Steigmann, G.S. Dobrescu, B. Istrate , C. Munteanu, Ultrasound methods for determining the influence of yttrium in Mg-0.5Ca-xY, IOP Conference Series: Materials Science and Engineering, Vol. 572, Is. 1, Article number 012017, DOI: 10.1088/1757-899X/572/1/012017	50x0.08/6 = 0.67
R20. S.D. Popescu, S. Stanciu, R. Cimpoeșu, B. Istrate , I. Știrbu, I. Ionita, B.A. Prisecariu, Phases and compounds composition analyze of ZnMgCa biodegradable alloy, IOP Conference Series: Materials Science and Engineering, Vol. 572, Is. 1, 2019, Article number 012019, DOI: 10.1088/1757-899X/572/1/012019	50x0.08/7 = 0.57
R21. C Munteanu, S Lupescu, B. Istrate , V-I Antoniac, M Benchea and A Savin, Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials, Key Engineering Materials, Vol. 782, pp 136-141, doi:10.4028/www.scientific.net/KEM.782.136	50x0.08/5 = 0.8
R22. V Paleu, V Goanță, B. Istrate , Experimental investigation on wear resistance of a new cutting fluid using a four ball tribometer – optimization of additive percent, MATEC Web of Conferences 112, 07026 (2017), DOI: 10.1051/mateconf/20171120702	50x0.08/3 = 1.33
R23. M. S. Bălțatu, P. Vizureanu, M. Benchea, M. G. Minciună, D. C. Achiței, B. Istrate , Ti-Mo-Zr-Ta Alloy for Biomedical Applications: Microstructures and Mechanical Properties, Key Engineering Materials, ISSN: 1662-9795, Vol. 750, pp 184-188, doi:10.4028/www.scientific.net/KEM.750.184, 2017	50x0.08/6 = 0.67
R24. C Stescu, C Munteanu C, D Luca, B. Istrate , M Benchea, D Chicet, B Oprisan, Increasing Wear Resistance of Power Steering Pump Cam Using Ni-Cr-Fe and Ni-Cr-Fe-B Coatings, Materials Science Forum, ISSN: 1662-9752, Vol. 907, pp 145-150, doi:10.4028/www.scientific.net/MSF.907.145, 2017	50x0.08/7 = 0.57
R25. O Mocănița, D Chicet, M Benchea, B. Istrate , C Munteanu, Coating of Liquid Wood Sheets, Materials Science Forum , ISSN: 1662-9752, Vol. 907, pp 134-139, 2017, doi:10.4028/www.scientific.net/MSF.907.134, 2017	50x0.08/5 = 0.8
R26. D. C. ACHIȚEI, P. VIZUREANU, M. G. MINCIUNĂ, N. CIMPOEȘU, B. ISTRATE , Improvement of Structural Characteristics for CuZn Alloy through Heat Treatments, <i>Key Engineering Materials</i> , ISSN: 1662-9795, Vol. 750, pp 3-8, doi:10.4028/www.scientific.net/KEM.750.3, 2017	50x0.08/5 = 0.8
R27. C. A. TUGUI, P. VIZUREANU, M. C. PERJU, C. NEJNERU, B. ISTRATE , A. SAVIN, Investigations of Thin Films Obtained by Plasma Jet Method on a Stainless Steel Used in Turbine Blades Construction, Key Engineering Materials, ISSN: 1662-9795, Vol. 750, pp 85-90, doi:10.4028/www.scientific.net/KEM.750.85, 2017	50x0.08/6 = 0.67
R28. C Florea, C Bejinariu, C Savin, B. Istrate , M Benchea, R Cimpoesu, Adhesion Characterisation of Complex Ceramics Thin Layers Deposited on Metallic Substrate, Materials Science Forum, ISSN: 1662-9752, Vol. 907, pp 126-133, doi:10.4028/www.scientific.net/MSF.907.126, 2017	50x0.08/6 = 0.67
R29. M.S. Bălțatu Mădălina, P. Vizureanu, B. Istrate , Physical and structural characterization of Ti-based alloy, International Journal of Modern Manufacturing Technologies, Vol. VII, No. 2, pp. 12-17, 2015	50x0.08/3 = 1.33
R30. C. Biniuc, B. Istrate , C. Munteanu, L. Dorin, Increased resistance to mechanical shock of metallic materials by metal-ceramic surface coatings, Key Engineering Materials, 638 (2014) 316-321, DOI: 10.4028/www.scientific.net/KEM.638.316	50x0.08/4 = 1

R31. P. Simion, V. Dia, B. Istrate , C. Munteanu, Controlling and Monitoring of Welding Parameters for Micro-alloyed Steel Pipes Produced by High Frequency Electric Welding, Advanced Materials Research, 1036 pp. 464-469, 2014, DOI: 10.4028/www.scientific.net/AMR.1036.464	50x0.08/4 = 1
R32. P. Avram, B. Istrate , M.S. Imbrea, M.V. Lozneau, C. Paulin, C. Munteanu, Friction studies over idlers sprayed with Al ₂ O ₃ powder using Atmospheric plasma spraying method, Advanced Materials Research, 1036 pp. 218-222, 2014, DOI: 10.4028/www.scientific.net/AMR.1036.218	50x0.08/6 = 0.67
R33. R. Ionescu, E. Vasile, C. Munteanu, B. Istrate , M. Niculescu- Structural and surface characterization of some ceramic coatings obtained by plasma jet spraying on metallic biomaterials substrates, Key Engineering Materials, 614 pp. 68-73, 2014, DOI: 10.4028/www.scientific.net/KEM.614.68	50x0.08/5 = 0.8
R34. C. Crimu, C. Munteanu, S. Stanciu, B. Istrate , K. Earar, Comparative in vitro study on MgCa and MgCaSi, as biodegradable implants, Applied Mechanics and Materials, 659 pp. 75-80, 2014, DOI: 10.4028/www.scientific.net/AMM.659.75	50x0.08/5 = 0.8
R35. A. Bărcă, B. Istrate , E.S. Bărcă Eduard, V.I. Crîșmaru, C. Munteanu, Corrosion behaviour of a cermet deposited coating in sulfuric acid solution, Applied Mechanics and Materials, 659 pp. 28-33, 2014, DOI: 10.4028/www.scientific.net/AMM.659.28	50x0.08/5 = 0.8
R36. A. Bărcă, E.S. Bărcă, B. Istrate , V.I. Crismaru, C. Munteanu, A Study on Plastic Deformations due to Contact Fatigue Wear on a Cermet Coating Deposited by Thermal Spraying Methods, Applied Mechanics and Materials, 659 pp. 34-39, 2014, DOI: 10.4028/www.scientific.net/AMM.659.34	50x0.08/5 = 0.8
R37. P. Avram, B. Istrate , M.S. Imbrea, C. Axinte, C. Paulin, S.C. Iacob Strugaru, C. Munteanu, Contact Wear Studies Over Idlers Sprayed With Ni Al Si Powder Using Atmospheric Plasma Spraying Method, Advanced Materials Research 1036 pp. 184-188, 2014, DOI: 10.4028/www.scientific.net/AMR.1036.184	50x0.08/7 = 0.57
R38. P. Simion, B. Istrate , C. Munteanu, V. Dia, P. Avram, M. S. Imbrea, Influence of the Degree of Cold Drawing on the Microstructure and Properties of Pipes Used for Dampers, Advanced Materials Research, 1036 pp. 134-139, 2014	50x0.08/6 = 0.67
R39. C. I. Crimu, B. Istrate , C. Munteanu, I. Antoniac, M.N. Matei, K. Earar, XRD and Microstructural Analyses on Biodegradable Mg Alloys, Key Engineering Materials, 638 pp. 79-84, 2014, DOI: 10.4028/www.scientific.net/KEM.638.79	50x0.08/6 = 0.67
R40. P. Avram, M. S. Imbrea, B. Istrate , S. I. Strugaru, I. Cucos, C. Axinte, C. Munteanu, Wear Resistance and XRD Analyses of CMoCuNiCrSiBO Coatings Obtained by Thermal Deposition on OLC45 Substrate, Applied Mechanics and Materials, 659 pp. 10-15, 2014, DOI: 10.4028/www.scientific.net/AMM.659.10	50x0.08/7 = 0.57
R41. C. Crimu, I. Antoniac, S. Focșăneanu, D. Pitul Cristea, B. Istrate , C. Munteanu, K. Earar, The Study Of Microstructure Of The Mgca Alloys In Their Use In Biodegradable Orthopedic Implants, Advanced Materials Research, 1036 pp. 207-211, 2014, DOI: 10.4028/www.scientific.net/AMR.1036.207	50x0.08/7 = 0.57
R42. V51. P. Avram, M. S. Imbrea, B. Istrate , S. I. Strugaru, I. Cucos, C. Axinte, C. Munteanu, Wear Resistance and XRD Analyses of CNiCrSiBO Coatings Obtained by Thermal Deposition on OLC45 Substrate, Applied Mechanics and Materials, 659 pp. 16-21, 2014, DOI: 10.4028/www.scientific.net/AMM.659.16	50x0.08/7 = 0.57
R43. M. Rățoi, G. Dascălu, T. Stanciu, S.O. Gurlui, S. Stanciu, B. Istrate , N. Cimpoeșu, R. Cimpoeșu, Preliminary results of FeMnSi+Si(PLD) alloy degradation, Key Engineering Materials, 638 pp. 117-122, 2014	50x0.08/8 = 0.5
Articol/studiu publicat în revistă de specialitate sau volumul unei manifestări științifice neindexată în baze de date	
R1. S.L. Toma, I. Ioniță, L. Eva, C. Bejinariu, B. Istrate , B.F. Toma, The Behavior at Corrosion and Fatigue of the Aluminum Alloy, Coated with a Cobalt Base Alloy, Deposited by Thermal Spraying in Electric Arc, Applied Mechanics and Materials, 809-810 pp. 584-589, 2015, DOI: 10.4028/www.scientific.net/AMM.809-810.584	-
R2. C. Paulin, D. Chicet, B. Istrate , P. Avram, C. Munteanu, A Study on Wear Behaviour of NiCrBSi Flame Sprayed Coatings, Advanced Materials Research, 1128 pp. 332-337, 2015	-
R3. L. Andrușcă, V. Goanță, P. D. Bărsănescu, B. Istrate , Investigation of materials behavior under combined loading conditions, Buletinul Institutului Politehnic din Iași, Tomul LXI (LXV), Fasc. 2, pp.23-28, 2015, Construcții de Mașini	-

	R4. A.C. Bărbântă, R. Chelariu, C.I. Crimu, B. Istrate , S. Nazarie, K. Earar, C. Munteanu, Metallorgraphic characterization of a new biomedical titanium-based alloy for orthopedic applications, Bulletin of the Transilvania University of Braşov Series I: Engineering Sciences, 6 (55) no. 1, pp. 83-88, 2013	-
	R5. A.C. Bărbântă, R. Chelariu, C.I. Crimu, B. Istrate , S. Nazarie, K. Earar, C. Munteanu, Investigation of a new Ti-Nb-Zr-Ta alloy by electron microscopy, X-ray diffraction and nanoindentation, Bulletin of the Transilvania University of Braşov, Series I: Engineering Sciences • Vol. 6 (55) No. 1, pp. 77-82, 2013	-
	R6. I. Rotaru, B. Istrate , M. Benchea, A. Tufescu, D. Olaru, MECHANICAL AND STRUCTURAL CHARACTERISTICS OF p(HEMA) HYDROGEL FOR LUMBAR DISC PROSTHESIS, TEHNOMUS - New Technologies and Products in Machine Manufacturing Technologies, 2013, pp. 112-119	-
	R7. M. Suche, I.V. Tudose, N. Vrînceanu, B. Istrate , C. Munteanu, E. Koudoumas, Precursor concentration effect on structure and morphology of ZnO for coatings on fabric substrates, ACTA CHEMICA IASI, 21_2, 107-118 (2013), DOI: 10.2478/achi-2013-0010	
	R8. D.C. Achîtei, P. Vizureanu, M. G. Minciună, B. Istrate , A.V. Sandu, Phase analysis and structural characterization of CuAlMnFe alloy, International conference of scientific paper AFASES 2014, Brasov 22-24 May 2014	-
	Brevet de invenție acordat în țară	8.33
	B1. L. Zaharia, B. Istrate , R. Ghimpe, Rolling device for making round specimens for tensile tests, comprises a plate on which three supports are fixed by screws, OSIM, Nr. Patent: RO128319-A2, RO128319-B1, 2017	25/3 = 8.33
	B2. D. Cherciu, B. Istrate , E.Marin, D. Manea - Surface decontamination installation, <i>Cerere de brevet de invenție înregistrată de OSIM cu nr. A-00873 / 20.11.2015</i>	-
	B3. D. Cherciu, B. Istrate , E.Marin, R. Ciuperca - Automated regulation system of seeding norms, <i>Cerere de brevet de invenție înregistrată de OSIM cu nr. A-00872 / 20.11.2015</i>	-
B	B4. B. Istrate , C. Munteanu, R. Chelariu, I.V. Antoniac, M.D. Vlad, Aliaje biodegradabile pe baza de magneziu-calcium cu adaos controlat de zirconiu, <i>Cerere de brevet de invenție înregistrată de OSIM cu nr. A-00650/14.10.2019</i>	-
	B5. C. Munteanu, B. Istrate , S.C. Lupescu, A. Savin, E.V. Sindilar, Aliaje biodegradabile pe baza de magneziu-calcium cu adaos controlat de Ytriu (Mg-Ca-Y), <i>Cerere de brevet de invenție înregistrată de OSIM cu nr. A-00748/15.11.2019</i>	-
	B6. C. Munteanu, B. Istrate , O.D. Popescu, I.V. Antoniac, D.M. Vlad, Aliaje biodegradabile pe baza de magneziu-calcium cu adaos controlat de gadoliniu (Mg-Ca-Gd), <i>Cerere de brevet de invenție înregistrată de OSIM cu nr. A-100701/05.11.2020</i>	-
	B7. B. Istrate , C. Munteanu, A. Savin, E.V. Sindilar, S.C. Lupescu, Aliaje biodegradabile pe bază de magneziu-calcium cu adaos controlat de mangan, <i>Cerere de brevet de invenție înregistrată de OSIM cu nr. A-100702/05.11.2020</i>	-

4. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum și alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se aduc contribuții la dezvoltarea mediului educațional/ cultural/ economic/ social etc.

	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câștigate prin competiție națională sau încheiate cu institute de cercetare, companii, regii, societăți comerciale	Punctaj : 75
	P1. Responsabil Partener TUIASI - Proiect Component 3 (BIODENTRUT) - Proiect Complex „OBTINEREA ȘI EXPERTIZAREA UNOR NOI MATERIALE BIOCOMPATIBILE PENTRU APLICAȚII MEDICALE”, Contract Nr. 60PCCDI/2018, PN-III-P1-1.2-PCCDI-2017-0239, 2018-2021 , Valoare: 212000 Lei	5 x 4 = 20
P	P2. Director – Mobilitate pentru cercetători - PNCDI III RU-MC 313MC/2019, 2019, Valoare: 21727.43 Lei	5 x 1 = 5
	P3. Director - Grant Intern Nr. 0430/2018, „Materiale speciale biodegradabile din sistemul Mg-Ca-Mn-Zr utilizate ca implanturi in reconstructia osului biologic”, TUIASI-GI-2018-PN-III-P1-1.1-PD-2016-0430, 2018-2019, Valoare: 10000 Lei	5 x 1 = 5
	P4. Director – Contract agent economic Nr. 14921/03.08.2020, „Analize microstructurale, compoziționale (SEM-EDX) și difracție de raze X pentru diverse materiale”, 2020-2021, Valoare: 2305 Lei	5 x 1 = 5

P5. Membru - Proiect Component 1 (ORTOMAG) - Proiect Complex „OBTINEREA ȘI EXPERTIZAREA UNOR NOI MATERIALE BIOCUMPATIBILE PENTRU APLICAȚII MEDICALE”, Contract Nr. 60PCCDI/2018, PN-III-P1-1.2-PCCDI-2017-0239, 2018-2021, Director – Prof.dr.ing. Munteanu Corneliu	2 x 4 = 8
P6. Membru - Bridge Grant Project “Tehnologii performante pentru obtinerea de structuri 3D cu aplicatii in securitate”, PN-III-P2-2.1-BG-2016-0290, 2016-2018, Director – Prof.dr.ing. Manea Liliana Rozemarie	2 x 3 = 6
P7. Membru – Proiect „Dezvoltarea de echipamente tehnice inovative destinate tehnologiei de valorificare rațională a pajiștilor în condițiile schimbărilor climatice”, Program Inovare, 30DPST/26.09.2013, 2013-2015	-
P8. Membru – Proiect “Informarea corectă – Cheia recunoașterii studiilor”- ID: 2789, POSDRU/2/1.2/S/6	-
P9. Membru - Grant Intern - Design and characterization of a multifocal shape memory form for medical applications, TUIASI-GI-2018 -1420, 6 membri, 2018, Director – Prof.dr.ing. Cimpoeșu Nicanor	2 x 1 = 2
P10. Membru - Grant Intern - „Noi aspecte privind efectul solicitărilor termo-mecanice în regim dinamic asupra comportamentului fizico-chimic a aliajelor cu memoria formei Ti-Ni-X”, TUIASI-GI-2018-PN-III-P1-1.1-TE-2016-0273, 2018-2019, Sef.lucr. dr.ing. Lohan Monica	2 x 2 = 4
P11. Membru – Process Engineering –Klarwin – Contract nr. 19511/20.09.2018 - agent economic , 2018-2019 , Director – Prof.dr.ing. Munteanu Corneliu	2 x 2 = 4
P12. Membru - "Cercetări științifice și aplicații practice pentru prototipurile C.En în domeniul stocării hidrogenului în materiale din sticlă” – Contract Nr. 7294/05.04.2019 – agent economic, 2019-2020, Director – Prof.dr.ing. Munteanu Corneliu	2 x 2 = 4
P13. Membru - Contract tip ROSE SGU-N, nr. AG-206/2019, etapa 2019-2020, Director – Sef.lucr. dr.ing. Iulian Agape	2 x 1 = 2
P14. Membru - „Tehnologii de fabricare inteligente pentru producția avansată a pieselor din industriile de automobile și aeronautică ", Pr. Comp. 2 „Formarea adaptivă a materialelor compozite pentru reperele din industria de automobile", Nr. 82PCCDI/2018, PN-III-P1-1.2-PCCDI-2017-0446, 2018-2021, 12 membrii. Resp. TUIASI: Prof. Nedelcu Dumitru	2 x 4 = 8
P15. Membru - POC/71/1/4/Parteneriate pentru transfer de cunoștințe / MySMIS 105524, " PRODUSE ȘI TEHNOLOGII ECOINOVATOARE PENTRU EFICIENȚĂ ENERGETICĂ ÎN CONSTRUCȚII" – EFECON, 2020 – Director Prof. Isopescu Dorina	2 x 1 = 2
P16. Membru – Proiect POCU/626/6/13/131181 "Insertia absolvertilor prin stagii de pregatire PRACTica modern si eficiente din cadrul Univeritatii TEHnice Gheorghe Asachi din Iasi, pe piata muncii - PRACTeh", 2020-2022, Director proiect Conf.univ.dr.ing. Lidia Gaiginschi	-
P17. Membru – Proiect RO-MD – BCS, contractare, Director – Conf.univ.dr.ing. Ianus Gelu	-

5.	Recunoașterea și impactul activității (A3)	
	3.1 Citări în reviste cotate în ISI Thomson Reuters - Web of Science Core Collection. Minim 15 citări Pentru Conferențiar/CS II, în ISI Thomson Reuters-Web of Science Core.	185.41
	ISI	
<p>Citări în sistemul ISI (sursa: Web of Science): https://apps-whofofknowledge-com.am.e-nformation.ro/CitationReport.do?product=WOS&search_mode=CitationReport&SID=D4ngPTxeshhBZSR4A6R&page=1&cr_pqid=11&viewType=summary&from_ML=true&colName=WOS TOTAL CITĂRI (fără autocitări) detaliate în tabel: 92. TOTAL CITĂRI (fără autocitări) conform ISI Web of Science: 184 Notă: Pentru calcul citărilor s-a utilizat Factorul de Impact pentru anul 2019, disponibil pe Web of Science</p>		
1.	D. Mareci, K. Earar, I. Zetu, G. Bolat, C. Crimu, B. Istrate , Munteanu, C, Matel, MN, Comparative electrochemical behaviour of uncoated and coated NiTi for dental orthodontic wires, Materiale Plastice, 52 (2) pp. 150-153, 2015, WOS:000357767900004, FI(2019): 1.517, 27 citări	61.67
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	3.3.1. ISI Web of Knowledge - Editor/chairman - 12; Membru - 8; Recenzor - 5	
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	ISSN 2073-4352, FI(2019): 2.404	
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6. Sisteme de laborator funcționale (numai pentru disciplinele prevăzute cu lucrări de laborator/ proiect/ lucrări)

D	Sisteme de laborator funcționale (numai pentru disciplinele prevăzute cu lucrări de laborator/ proiect/ lucrări) - Amenajare/ concepere lucrare nouă de laborator/ proiect/ simulare pe calculator/ studiu de caz	Punctaj
D1	Lucrare de laborator – Studiul microstructurilor materialelor metalice tratate termic, termochimic și acoperiri termice, pp 151-179, C. Munteanu, B.Istrate , S-C. Lupescu, Știința și Ingineria Materialelor – Îndrumar de laborator, Ed. "Europlus", 222 pg., pp. 151-179, 2019, Galați, ISBN: 978-606-628-207-9	
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7. Utilizarea sistemelor de predare/ învățare/ evaluare de tip e-learning/ on-line/ multimedia etc.

W	Utilizarea sistemelor de predare/ învățare/ evaluare de tip e-learning/ on-line/ multimedia etc - Suport de prezentare/ instruire text/ video/ audio/ ppt a disciplinei	Punctaj
W1	Prezentare curs - Tehnici avansate de analiză structurală a materialelor utilizate în mecatronică -	

Conferences - Invited Speaker

Key Note Speaker – Bramat 2017 – Synthesis and characterization of some ceramic coatings on Mg-Ca-Zr metallic substrate for medical applications, 08-11.03.2017, Brasov, Romania

Invited Speaker - International Seminar on Biomaterials and Regenerative Medicine - BIOREMED 2017 - Istrate Bogdan (Romania)- Influence of Yttrium in Mg-1Ca-0.5Mn-nY biodegradable alloys (n = 1,2,3), 05-08.2017, Timisoara, Romania

Chairman Poster Session: Istrate Bogdan (Romania) - International Seminar on Biomaterials and Regenerative Medicine - BIOREMED 2017, 05-08.2017, Timisoara, Romania

Data: 22.12.2020

Candidat,
Sef.lucr.dr.ing. Istrate Bogdan