

Examen de promovare pentru ocuparea postului poz. 7, de Profesor,
 Departamentul de Inginerie Mecanică Mecatronică și Robotică,
 Facultatea de Mecanică,
 Disciplinele: Știința și ingineria materialelor;
 Materiale moderne și structuri compozite în construcția autovehiculelor.

Domeniul: Ingineria Materialelor ,

LISTA DE LUCRĂRI

Candidat: **ISTRATE M. Bogdan - Dr./** Ord. MECS Nr. 3867/27.05.2016, **Conf.univ.dr.ing.** din 22.02.2021,

1. Lista a maximum 10 lucrări, cele mai relevante pentru domeniul disciplinelor postului

1.	1. Istrate, B ; Cojocar, FD; Henea, ME; Balan, V; Sindilar, EV; Verestiuc, L; Munteanu, C; Solcan, C; In Vitro and In Vivo Analysis of the Mg-Ca-Zn Biodegradable Alloys, JOURNAL OF FUNCTIONAL BIOMATERIALS, 2024,15 (6), 166, 10.3390/jfb15060166, FI (2023): 5
2.	2. Istrate, B ; Munteanu, C; Baltatu, MS; Cimpoesu, R; Ioanid, N; Microstructural and Electrochemical Influence of Zn in MgCaZn Biodegradable Alloys, MATERIALS, Vol. 16, Iss. 6, DOI10.3390/ma16062487, Article Number 2487, 2023, FI(2022): 3.4
3.	3. Istrate, B ; Munteanu, C; Antoniac, IV; Lupescu, SC; Current Research Studies of Mg-Ca-Zn Biodegradable Alloys Used as Orthopedic Implants-Review; CRYSTALS, Vol. 12(10), 1468, 10.3390/cryst12101468, FI(2021): 2.67
4.	4. Lupescu, S; Munteanu, C; Sindilar, EV; Istrate, B* ; Mihai, I; Oprisan, B; Pasca, AS; Long-Term Examination of Degradation and In Vivo Biocompatibility of Some Mg-0.5Ca-xY Alloys in Sprague Dawley Rats, MATERIALS, Vol. 15(17), 5958, 2022, 10.3390/ma15175958, FI(2021): 3.748
5.	5. Nastasa, RO; Tufescu, A; Munteanu, C; Istrate, B* ; Przybyl, A; Ianus, G; CONTACT STRESS SIMULATION FOR MG-0.5CA-xMN ALLOYS USED FOR MEDICAL APPLICATION, ARCHIVES OF METALLURGY AND MATERIALS, Vol. 67 (2), 405-408, 2022, 10.24425/amm.2022.137771, FI(2021): 0.633
6.	6. C. Munteanu; D.M. Vlad; E.V. Sindilar; B. Istrate* ; M. Butnaru; S.A. Pasca; R. O. Nastasa; I. Mihai; S.L. Burlea, Novel Mg-0.5Ca-xMn biodegradable alloys intended for orthopedic application: An in vitro and in vivo study, Materials, Vol. 14, Is. 23, Article number 7262, 2021, autor correspondent, Q1, FI(2020):3.623
7.	7. B. Istrate , C. Munteanu, R. Cimpoesu, N. Cimpoesu, O.D. Popescu, M.D. Vlad, Microstructural, Electrochemical and In Vitro Analysis of Mg-0.5Ca-xGd Biodegradable Alloys, APPLIED SCIENCES-BASEL, Vol. 11, Is. 3, Article Number: 981, DOI: 10.3390/app11030981, 2021, Q2, FI(2020): 2.679
8.	8. E.V. Sindilar, C. Munteanu, S.A. Pasca, I. Mihai, M.E. Henea, B. Istrate* , Long Term Evaluation of Biodegradation and Biocompatibility In-Vivo the Mg-0.5Ca-xZr Alloys in Rats, CRYSTALS, Vol. 11 Is. 1, Article Number: 54, DOI: 10.3390/cryst11010054, 2021, autor corespondent, Q2, FI(2020): 2.589
9.	9. B. Istrate , C. Munteanu, S. Lupescu, R. Chelariu, M.D. Vlad, P. Vizureanu, Electrochemical Analysis and In Vitro Assay of Mg-0.5Ca-xY Biodegradable Alloys, MATERIALS, Vol. 13, Is. 14, Article Number: 3082, 2020, DOI: 10.3390/ma13143082, WOS:000554140300001, FI (2019): 3.057
10.	10. 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.

2. 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)

3. Brevete de invenție și alte titluri de proprietate industrială

B	Brevet de invenție acordat în țară	13.33
	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. 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), RO134975-A2, RO134975-B1, 2024	25/5 = 5
	B3. 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>	-
	B4. 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>	-
	B5. 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>	-
	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. Cărți și capitole din cărți

a) 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	17.2
	Ca1. B. Istrate , C. Munteanu - Știința și Ingineria Materialelor - Volumul II, Ed. "Gheorghe Asachi" din Iași, 134 pg., 2025, Iași, ISBN 978-973-621-565-0, Suport didactic	134/10x2 = 6.7
	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)	3.8
	I1. C. Munteanu, B. Istrate , F.C. Lupu, Știința și Ingineria Materialelor – Îndrumar de laborator, Ed. "Studis", 229 pg., 2023, Iași, ISBN: 978-606-48-1023-6	229/20x3 = 3.8

b) Cărți/ capitole cărți de specialitate publicate în edituri recunoscute din țară sau din străinătate (Cb1, Cb2 etc.),

		Punctaj
Cb	Cărți de specialitate publicate în edituri din țară și străinătate	90.85
	Cb1. 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
	Cb2. F. C. Lupu, C. Munteanu, B. Istrate . Armours with special properties obtained by cold spraying on 52100 steel. Editura. Generis Publishing. 2024. pagini: 174, ISBN: 979-8-89248-581-4,	174/2x3 = 29
	Cb3. C. Obreja, C. Truș, V. Ghisman, B. Istrate – Inteligența artificială aplicată în inginerie medicală, Ed. Universității "Dunărea de Jos" din Galați, 2023, 165 pg, Galați, ISBN 978-606-696-272-8	165/5x4 = 8.25

5. Articole/ studii publicate în reviste din țară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 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.		
R	Articole în reviste cotate ISI Thomson Reuters-Web of Science Core Collection și în volume indexate ISI proceedings - Web of Science	1950.08
	1. Munteanu, C; Melnic, I; Istrate, B ; Hardiman, M; Gaiginschi, L; Lupu, FC; Arsenoia, VN; Chicet, DL; Zirnescu, C; Badiul, V, A Comprehensive Review of Improving the Durability Properties of Agricultural Harrow Discs by Atmospheric Plasma Spraying (APS), COATINGS, 2025, 15(6), 10.3390/coatings15060632, FI (2024): 2.8	50x2.8/10 = 14
	2. Ropotoae, AI; Munteanu, C; Lupu, FC; Istrate, B ; Benchea, M; Rotariu, AN; Spoiala, A, Resulted Mechanical and Microstructural Properties of Ballistic Protection Materials for Bulletproof Vest Applications Using Plasma Jet Thermal Spray Coatings, CRYSTALS, 2025, 15(11), 10.3390/cryst15110977, FI (2024): 2.4	50x2.4/7 = 17.34
	3. Minciuna, MG; Vizureanu, P; Sandu, AV; Istrate, B , Evaluation of Wear Mechanisms of an Aluminum Alloy in Emergency Applications, ARCHIVES OF METALLURGY AND MATERIALS, 2025, 70(2), 10.24425/amm.2025.153494, FI (2024): 0.7	50x0.7/4 = 8.75
	4. Chicet, DL; Juhasz, J; Cotrut, CM; Istrate, B ; Munteanu, C, Assessment of the Corrosion Resistance of Thermal Barrier Coatings on Internal Combustion Engine Components, MATERIALS, 2025, 18(6), 10.3390/ma18061227, FI (2024): 3.2	50x3.2/5 = 32
	5. Nicolescu, C; Munteanu, C; Lupescu, SC; Tiganescu, V; Miculescu, M; Istrate, B ; Antoniac, IV, Characterization of the Alumina Layer Deposited by Plasma Spray Deposition on the Hardox Steel for Ballistic Protection, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 2025, 87(1), N/A, FI (2024): 0.3	50x 0.3/7 = 2.14
	6. Nicolescu, C; Miculescu, M; Tiganescu, TV; Iorga, O; Alexe, F; Stefanoiu, R; Neculescu, DA; Istrate, B ; Antoniac, I, Evaluation of the Ballistic Performance for Different Coatings on Hardox 450 Steel, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, 2025, 87(3), N/A, FI (2024): 0.3	50x0.3/9 = 1.67
	7. Epure, C; Munteanu, C; Istrate, B ; Harja, M; Lupu, FC; Luca, D, Innovation in the Use of Recycled and Heat-Treated Glass in Various Applications: Mechanical and Chemical Properties, COATINGS, 2025, 15(6), 10.3390/coatings15060651, FI (2024): 2.8	50x2.8/6 = 23.33
	8. Cimpoesu, R; Moga, SG; Istrate, B ; Lupu, FC; Cimpoesu, N; Roman, AM; Badarau, G; Patrascu, I; Diaconu, R; Chelariu, R, PEO Treatment for Improved Corrosion Resistance in a Zn-Mg Alloy: Electrochemical and Structural Analysis, MATERIALS, 2025, 18(17), 10.3390/ma18174064, FI (2024): 3.2	50x3.2/10 = 16
	9. Ivanescu, MC; Munteanu, C; Cimpoesu, R; Istrate, B ; Lupu, FC; Benchea, M; Sindilar, EV; Vlasa, A; Stamatin, O; Zegan, G, The Influence of Ca on Mechanical Properties of the Mg-Ca-Zn-RE-Zr Alloy for Orthopedic Applications, JOURNAL OF FUNCTIONAL BIOMATERIALS, 2025, 16(5), 10.3390/jfb16050170, FI (2024): 5.2	50x5.2/10 = 26
	10. Roman, T; Gherca, D; Murgulescu, II; Istrate, B ; Cimpoesu, N; Stoian, G; Lostun, M; Lupu, N; Grigoras, M, Natural Oxidation Process of Magnetic LTP in MnBi Alloys. Challenges and Issues for Preserving the Magnetic Phase, JOURNAL OF ALLOYS AND COMPOUNDS, 2025, 1038, 10.1016/j.jallcom.2025.182818, FI (2024): 6.3	50x6.3/9 = 35
	11. Doroftei, RF; Mirila, D; Sillion, M; Ionita, D; Rosu, AM; Munteanu, C; Istrate, B ; Muntianu, G; Georgescu, AM; Nistor, ID, Clays as Dual-Function Materials for TNT Adsorption and Catalytic Degradation: An Experimental Approach, MATERIALS, 2025, 18(16), 10.3390/ma18163824, FI (2024): 3.2	50x3.2/10 = 16
	12. Leata, G; Earar, K; Munteanu, C; Lupu, FC; Vlad, MD; Istrate, B ; Cimpoesu, R; Pasca, AS; Sindilar, EV, Mg-Ca-Sr Biodegradable Alloys for Medical Applications: Production, Biomaterials' Properties Characterization, and In Vitro and In Vivo Biocompatibility Evaluation, BIOENGINEERING-BASEL, 2025, 12(9), 10.3390/bioengineering12090939, FI (2024): 3.7	50x3.7/9 = 20.56
	13. Ivanescu, MC; Munteanu, C; Cimpoesu, R; Vlad, MD; Istrate, B ; Lupu, FC; Sindilar, EV; Vlasa, A; Stan, CI; Ivanescu, ML; Zegan, G, The Influence of Zn and Ca Addition on the Microstructure, Mechanical Properties, Cytocompatibility, and Electrochemical Behavior of WE43 Alloy Intended for Orthopedic Applications, MEDICINA-LITHUANIA, 2025, 61(7), 10.3390/medicina61071271, FI (2024): 2.4	50x2.4/11 = 10.91

14. Samara, F; Goanta, V; Istrate, B * ; Alkisswani, L; Munteanu, C; Cosau, R, Influence of the Plastic Deformation Process on the Residual Stresses and Hardness of an Al-5Mg Alloy, MATERIALS, 2024, 17(14), 3593, 10.3390/ma17143593, FI (2023): 3.1	50x3.1/6= 25.83
15. Istrate, B ; Cojocaru, FD; Henea, ME; Balan, V; Sindilar, EV; Verestiuc, L; Munteanu, C; Solcan, C; In Vitro and In Vivo Analysis of the Mg-Ca-Zn Biodegradable Alloys, JOURNAL OF FUNCTIONAL BIOMATERIALS, 2024,15 (6), 166, 10.3390/jfb15060166, FI (2023): 5	50x5/8= 31.25
16. Lupu, FC; Munteanu, C; Müftü, S; Benchea, M; Cimpoesu, R; Ferguson, G; Boese, S; Schwartz, P; Istrate, B* ; Arsenaia, VN; Evaluation of the Wear Properties and Corrosion Resistance of 52100 Steel Coated with Ni/CrC by Cold Spraying; 2024, 14(1), 145, 10.3390/coatings14010145, FI (2023): 2.9	50x2.9/10 = 14.5
17. Moraras, CI; Goanta, V; Husaru, D; Istrate, B* ; Bârsanescu, PD; Munteanu, C; Analysis of the Effect of Fiber Orientation on Mechanical and Elastic Characteristics at Axial Stresses of GFRP Used in Wind Turbine Blades, POLYMERS, Vol. 15, Iss. 4, DOI10.3390/polym15040861, 2023, FI(2022):5	50x5/6 = 41.66
18. Lupu, FC; Munteanu, C; Sachelarie, AC; Arsenaia, VN; Istrate, B* ; Improving the Usage Properties of Steel Using Cold Spray Deposition: A Review, CRYSTALS, Vol. 13, Iss. 2, DOI10.3390/cryst13020245, Article Number 245, 2023, FI(2022):2.7	50x2.7/5 = 27
19. Istrate, B ; Munteanu, C; Baltatu, MS; Cimpoesu, R; Ioanid, N; Microstructural and Electrochemical Influence of Zn in MgCaZn Biodegradable Alloys, MATERIALS, Vol. 16, Iss. 6, DOI10.3390/ma16062487, Article Number 2487, 2023, FI(2022): 3.4	50x3.4/5 = 34
20. Sutic, AT; Chelariu, R; Cimpoesu, R; Roman, AM; Istrate, B ; Goanta, V; Benchea, M; Moscu, M; Alexandru, A; Cimpoesu, N; Zegan, G, Corrosion Behavior and Mechanical Properties of Zn-Ti Alloys as Biodegradable Materials, METALS, 2024, 14 (7), 764, 10.3390/met14070764, FI (2023): 2.6	50x2.6/11 = 11.81
21. Muresan, EI; Pui, A; Cernatescu, C; Cimpoesu, R; Horhoge, CE; Istrate, B ; Rimbu, CM; Green Synthesis of Nanoparticles Containing Zinc Complexes and Their Incorporation in Topical Creams with Antimicrobial Properties, APPLIED SCIENCES-BASEL, 2024, 14(11), 4612, 10.3390/app14114612, FI (2023): 2.5	50x2.5/7 = 17.85
22. Chelariu, RG; Cimpoesu, R; Jurca, AM; Popa, CM; Benchea, M; Badarau, G; Istrate, B ; Cazac, AM; Cimpoesu, N; Pintilie, DD; Vasilescu, GD; Bejinariu, C; Analysis of Chemical, Microstructural and Mechanical Properties of a CuAlBe Material Regarding Its Role as a Non-Sparking Material, MATERIALS, 2024, 17(10), 2220, 10.3390/ma17102220, FI (2023): 3.1	50x3.1/12 = 12.91
23. Alkisswani, L; Goanta, V; Munteanu, C; Samara, F; Cosau, RE; Istrate, B , Considerations on the Failure Mechanisms at Fatigue Loading of 1018 Steel Samples Coated with Wip-C1 by Cold Spray, MATERIALS, 2024, 17(8), 1868, 10.3390/ma17081868, FI (2023): 3.1	50x3.1/6= 25.83
24. Lazar, P; Cimpoesu, N; Istrate, B ; Cazac, AM; Burduhos-Nergis, DP; Benchea, M; Berbecaru, AC; Badarau, G; Vasilescu, GD; Popa, M; Bejinariu, C; Microstructural and Mechanical Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions, COATINGS, 2024, 14(2), 182, 10.3390/coatings14020182, FI (2023): 2.9	50x2.9/11 = 13.18
25. Roman, AM; Cimpoesu, R; Pricop, B; Cazacu, MM; Zegan, G; Istrate, B ; Cocean, A; Chelariu, R; Moscu, M; Badarau, G; Cimpoesu, N; Ivanescu, MC; Investigations on the Degradation Behavior of Processed FeMnSi-xCu Shape Memory Alloys, NANOMATERIALS, 2024, 14(4), 330, 10.3390/nano14040330, FI (2023): 4.4	50x4.4/12 = 18.33
26. Bunea, G; Toma, IO; Alexa-Stratulat, SM; Mihai, P; Cimpoesu, N; Istrate, B ; Stoian, G; Assessing the effect of adding TiO2 and calcined montmorillonite clay nanoparticles on the mechanical properties of cement mortar, CONSTRUCTION AND BUILDING MATERIALS, 2024, 413, 134910, 10.1016/j.conbuildmat.2024.134910, FI (2023): 7.4	50x7.4/7 = 52.85
27. Cristisor, D; Chicet, DL; Istrate, B ; Stescu, C; Munteanu, C; INFLUENCE OF TIO2 ALLOYING PERCENTAGE ON THE MORPHOLOGY OF APS-DEPOSITED COATINGS FROM Cr2O3 POWDERS, ARCHIVES OF METALLURGY AND MATERIALS, 2024, 69(3), 1231-1239, 10.24425/amm.2024.150946, FI (2023): 0.7	50x0.7/5 = 7
28. Stefan, A; Chicet, DL; Istrate, B ; Munteanu, C; COLD SPRAY COATINGS MORPHOLOGY, ARCHIVES OF METALLURGY AND MATERIALS, 2024, 69 (4), 1509-1518, 10.24425/amm.2024.151421, FI (2023): 0.7	50x0.7/4= 8.75

29. Roman, AM; Voiculescu, I; Cimpoesu, R; Istrate, B ; Chelariu, R; Cimpoesu, N; Zegan, G; Panaghie, C; Lohan, NM; Axinte, M; Murariu, AM; Microstructure, Shape Memory Effect, Chemical Composition and Corrosion Resistance Performance of Biodegradable FeMnSi-Al Alloy; CRYSTALS, Vol. 13, Iss. 1, DOI10.3390/cryst13010109, Article Number 109, 2023, FI(2022):2.7	50x2.7/11 = 12.27
30. Vâlcea, AE; Grecu, D; Maris, I; Negrea, AD; Cimpoesu, N; Giugea, D; Istrate, B ; Munteanu, C; Moga, SG; Anghel, DC; Rizea, AD; Petrescu, MI; Abrudeanu, M; The Characterization of a Fragment of a Medieval Fresco from Corbii de Piatra Cave Church; APPLIED SCIENCES-BASEL, Vol. 13, Iss. 8, DOI10.3390/app13084933, Article Number 4933, 2023, FI(2022): 2.7	50x2.7/13 = 10.38
31. Popa, M; Popa, F; Pricop, B; Cimpoesu, N; Lohan, NM; Kicsi, G; Istrate, B ; Bujoreanu, LG; Heat Treatment and Dynamic Mechanical Analysis Strain Sweep Effects on the Phase Structure and Morphology of an Fe-28Mn-6Si-5Cr Shape Memory Alloy, NANOMATERIALS, Vol. 13, Iss. 7, DOI10.3390/nano13071250, Article Number 1250, 2023, FI(2022): 5.3	50x5.3/8 = 33.12
32. Panaghie, C; Zegan, G; Sodor, A; Cimpoesu, N; Lohan, NM; Istrate, B ; Roman, AM; Ioanid, N; Analysis of Degradation Products of Biodegradable ZnMgY Alloy; MATERIALS, Vol. 16, Iss. 8, DOI10.3390/ma16083092, Article Number 3092, 2023, FI(2022): 3.4	50x3.4/ 8= 21.25
33. Burduhos-Nergis, DP; Cimpoesu, N; Epure, EL; Istrate, B ; Burduhos-Nergis, DD; Bejinariu, C; Ca-Zn Phosphate Conversion Coatings Deposited on Ti6Al4V for Medical Applications; COATINGS, Vol.13,Iss.6,DOI10.3390/coatings13061029, Article No. 1029, 2023, FI(2022): 3.4	50x3.4 / 6= 28.33
34. Valcea, AE; Maris, I; Negrea, AD; Cimpoesu, N; Garbea, G; Grecu, D; Moga, SG; Istrate, B ; Finta, FN; Rizea, AD; Anghel, DC; Munteanu, C; Petrescu, MI; Abrudeanu, M; Interdisciplinary Research on Medieval Fresco Subjected to Degradation Processes in the Corbii de Piatra Cave Church; MATERIALS, Vol. 16, Iss. 15, DOI10.3390/ma16155257, Article Number 5257, 2023, FI(2022): 3.4	50x3.4/14 = 12.14
35. Gradinaru, I; Vasiliu, AL; Bargan, A; Checherita, LE; Ciubotaru, BI; Armencia, AO; Istrate, B ; Dascalu, CG; Antohe, ME; The Influence of Beverages on Resin Composites: An In Vitro Study; BIOMEDICINES, Vol. 11, Iss. 9, DOI10.3390/biomedicines11092571, Article Number 2571, 2023, FI(2022): 4.7	50x4.7/9 = 26.11
36. Epure, C; Munteanu, C; Istrate, B ; Harja, M; Buium, F; Applications of Recycled and Crushed Glass (RCG) as a Substitute for Natural Materials in Various Fields-A Review; MATERIALS, Vol. 16, Iss. 17, DOI10.3390/ma16175957, Article Number 5957, 2023, FI(2022): 3.4	50x3.4/5 = 34
37. Istrate B. , Munteanu C., Antoniac I.-V., Lupescu Ș.-C., Current Research Studies of Mg–Ca–Zn Biodegradable Alloys Used as Orthopedic Implants—Review, (2022) Crystals, 12 (10), art. no. 1468, DOI: 10.3390/cryst12101468, WOS:000872374100001, FI (2021): 2.67	50x2.67/4 = 33.3
38. Morăraș C.I., Goanță V., Istrate B. , Munteanu C., Dobrescu G.S., Structural Testing by Torsion of Scalable Wind Turbine Blades, (2022) Polymers, 14 (19), art. no. 3937, DOI: 10.3390/polym14193937, WOS:000867041500001, autor corespondent FI (2021): 4.967	50x 4.967/5= 49.67
39. Lupescu Ș., Munteanu C., Sindilar E.V., Istrate B. , Mihai I., Oprisan B., Pasca A.-S., Long-Term Examination of Degradation and In Vivo Biocompatibility of Some Mg-0.5Ca-xY Alloys in Sprague Dawley Rats (2022) Materials, 15 (17), art. no. 5958, DOI: 10.3390/ma15175958, WOS:000851880000001, autor corespondent FI (2021): 3.748	50x 3.748/7 = 26.77
40. Goanta V., Munteanu C., Müftü S., Istrate B. , Schwartz P., Boese S., Ferguson G., Morăraș C.I., Evaluation of the Fatigue Behaviour and Failure Mechanisms of 52100 Steel Coated with WIP-C1 (Ni/CrC) by Cold Spray, (2022) Materials, 15 (10), art. no. 3609, DOI: 10.3390/ma15103609, WOS:000803695300001, autor corespondent FI (2021): 3.748	50x 3.748/9 = 20.82
41. Nastasa R.O., Tufescu A., Munteanu C., Istrate B. , Przybył A., Ianus G., Contact Stress Simulation for Mg-0.5Ca-xMn Alloys used for Medical Application, (2022) Archives of Metallurgy and Materials, 67 (2), pp. 405 – 408, DOI: 10.24425/amm.2022.137771, WOS:000813489200003, autor corespondent FI (2021): 0.633	50x0.633/ 6= 5.28
42. Ancaș A.D., Munteanu C., Istrate B. , Profire M., Țurcanu F.-E., The influence of the environment for glass-reinforced plastic composite material used for ground water transport pipes (2021) Materials, 14 (12), art. no. 3160, DOI: 10.3390/ma14123160, WOS:000666327100001, autor corespondent FI (2021): 3.748	50x3.748/ 5= 37.48

43. Istrate B. , Munteanu C., Cimpoesu R., Cimpoesu N., Popescu O.D., Vlad M.D., Microstructural, electrochemical and in vitro analysis of mg-0.5ca-xgd biodegradable alloys (2021) Applied Sciences (Switzerland), 11 (3), art. no. 981, pp. 1 – 18, DOI: 10.3390/app11030981 WOS:000614993400001, FI (2021): 2.838	50x2.838/ 6 = 23.65
44. Sindilar E.-V., Munteanu C., Pasca S.A., Mihai I., Henea M.E., Istrate B. , Long term evaluation of biodegradation and biocompatibility in-vivo the mg-0.5ca-xzr alloys in rats, (2021) Crystals, 11 (1), art. no. 54, pp. 1 – 11, DOI: 10.3390/cryst11010054, WOS:000610149700001, autor corespondent FI (2021): 2.67	50x2.67/6 = 22.25
45. Munteanu C., Vlad D.M., Sindilar E.-V., Istrate B. , Butnaru M., Pasca S.A., Nastasa R.O., Mihai I., Burlea S.-L., Novel Mg-0.5Ca-xMn biodegradable alloys intended for orthopedic application: An in vitro and in vivo study, (2021) Materials, 14 (23), art. no. 7262, DOI: 10.3390/ma14237262, WOS:000735126500001, autor corespondent FI (2021): 3.748	50x3.748/ 9= 20.82
46. 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 (2020): 3.623	50x3.623/ 6 = 30.19
47. 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): 4.527	50x4.527/ 5= 45.27
48. 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:000489589000072, FI (2019): 1.755	50x1.755/ 6 = 14.63
49. 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
50. 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
51. 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): 1.334	50x1.186/ 7 = 8.47
52. 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
53. Achitei D.C., Baltatu M.S., Vizureanu P., Sandu A.V., Benchea M., Istrate B. , Ni-Cr Alloys Assessment for Dental Implants Suitability (2022) Applied Sciences (Switzerland), 12 (24), art. no. 12814, DOI: 10.3390/app122412814, WOS:000902082600001, FI (2021): 2.838	50x2.838/ 6 = 23.65
54. Bejinariu C., Paleu V., Stamate C.V., Cimpoeșu R., Coteață M., Bădăraș G., Axinte M., Istrate B. , Vasilescu G.D., Cimpoeșu N., Microstructural, Corrosion Resistance, and Tribological Properties of Al ₂ O ₃ Coatings Prepared by Atmospheric Plasma Spraying, (2022) Materials, 15 (24), art. no. 9013, DOI: 10.3390/ma15249013, WOS:000906867300001, FI (2021):3.748	50x 3.748/ 10= 18.74
55. Goanță V., Munteanu C., Müftü S., Istrate B. , Schwartz P., Boese S., Ferguson G., Morăraș C.-I., Stefan A., Evaluation of the Fatigue Behavior and Failure Mechanisms of 4340 Steel Coated with WIP-C1 (Ni/CrC) by Cold Spray, (2022) Materials, 15 (22), art. no. 8116, DOI: 10.3390/ma15228116, WOS:000887322000001, FI (2021): 3.748	50x 3.748/ 9= 20.82
56. Marian G., Ianuș G., Istrate B. , Banari A., Nazar B., Munteanu C., Măluțan T., Gudîma A., Ciolacu F., Daraduda N., Paleu V., Evaluation of Agricultural Residues as Organic Green Energy Source Based on Seabuckthorn, Blackberry, and Straw Blends, (2022) Agronomy, 12 (9), art. no. 2018, DOI: 10.3390/agronomy12092018, WOS:000856162800001, FI (2021): 3.949	50x 3.949/ 11= 17.95

57. Rusu L., Grigoraş C.-G., Simion A.-I., Suceveanu E.-M., Istrate B. , Harja M., Biosorption Potential of Microbial and Residual Biomass of Saccharomyces pastorianus Immobilized in Calcium Alginate Matrix for Pharmaceuticals Removal from Aqueous Solutions, (2022) Polymers, 14 (14), art. no. 2855, DOI: 10.3390/polym14142855, WOS:000832305000001, FI (2021): 4.967	50x 4.967/ 6= 41.39
58. Moldovan E.R., Doria C.C., Ocaña J.L., Istrate B. , Cimpoesu N., Baltes L.S., Stanciu E.M., Croitoru C., Pascu A., Munteanu C., Tiorean M.H., Morphological Analysis of Laser Surface Texturing Effect on AISI 430 Stainless Steel, (2022) Materials, 15 (13), art. no. 4580, DOI: 10.3390/ma15134580, WOS:000824045100001, FI (2021): 3.748	50x 3.748/ 11= 17.04
59. Ciolacu F., Ianuş G., Marian G., Munteanu C., Paleu V., Nazar B., Istrate B. , Gudîma A., Daraduda N., A Qualitative Assessment of the Specific Woody Biomass of Fruit Trees (2022) Forests, 13 (3), art. no. 405, DOI: 10.3390/f13030405, WOS:000775378000001 FI (2021):3.282	50x 3.282/ 9= 18.23
60. Chelariu R.G., Cimpoesu N., Birnoveanu T.I., Istrate B. , Baci C., Bejinariu C., OBTAINING AND ANALYSIS OF A NEW ALUMINIUM BRONZE MATERIAL USING INDUCTION FURNACE, (2022) Archives of Metallurgy and Materials, 67 (4), pp. 1251 – 1257, DOI: 10.24425/amm.2022.141049, WOS:000890623500007, FI (2021): 0.633	50x 0.633/ 6= 5.28
61. Lutcanu M., Coteata M., Bernevig M.A., Nechifor C.D., Cazacu M.M., Paraschiv P., Istrate B. , Badarau G., Sandu I.G., Cimpoesu N., Obtaining and Analyzing the Al ₂ O ₃ -ZrO ₂ Ceramic Layers on Metallic Substrate (2022) Archives of Metallurgy and Materials, 67 (2), pp. 479 – 485, DOI: 10.24425/amm.2022.137780, WOS:000813449300004, FI (2021): 0.633	50x 0.633/ 10= 3.17
62. Munteanu C., Paleu V., Istrate B. , Dascălu A., Paleu C.C., Bhaumik S., Ancaş A.D., Tribological behavior and microstructural analysis of atmospheric plasma spray deposited thin coatings on cardan cross spindles, (2021) Materials, 14 (23), art. no. 7322, DOI: 10.3390/ma14237322, WOS:000735625800001, FI (2021):3.748	50x 3.748/ 7= 26.77
63. Mazurchevici S.-N., Marguta A., Istrate B. , Benchea M., Boca M., Nedelcu D., Improvements of arboblend v2 nature characteristics through depositing thin ceramic layers, (2021) Polymers, 13 (21), art. no. 3765, DOI: 10.3390/polym13213765, WOS:000718663700001, FI (2021): 4.967	50x 4.967/ 6= 41.39
64. Popescu V., Buciscanu I.I., Pruneanu M., Maier S.S., Danila A., Maier V., Pîslaru M., Rotaru V., Cristian I.N., Popescu A., Istrate B. , Blaga A.C., Ciolacu F., Cretescu I., Chelariu P., Marin M., Sustainable functionalization of PAN to improve tinctorial capacity, (2021) Polymers, 13 (21), art. no. 3665, DOI: 10.3390/polym13213665, WOS:000719009600001, FI (2021): 4.967	50x 4.967/ 16= 15.52
65. Rusu L., Grigoraş C.-G., Suceveanu E.-M., Simion A.-I., Botezatu A.V.D., Istrate B. , Doroftei I., Eco-friendly biosorbents based on microbial biomass and natural polymers: Synthesis, characterization and application for the removal of drugs and dyes from aqueous solutions (2021) Materials, 14 (17), art. no. 4810, DOI: 10.3390/ma14174810, WOS:000694414700001, FI (2021): 3.748	50x 3.748/ 7= 26.77
66. Roman T., Ghercă D., Borhan A.-I., Grigoraş M., Stoian G., Lupu N., Turcan I., Cimpoesu N., Istrate B. , Radu I., Dănilă R., Pui A., Nanostructured quaternary Ni _{1-x} Cu _x Fe _{2-y} Ce _y O ₄ complex system: Cerium content and copper substitution dependence of cation distribution and magnetic-electric properties in spinel ferrites (2021) Ceramics International, 47 (13), pp. 18177 – 18187, DOI: 10.1016/j.ceramint.2021.03.136, WOS:000656553200005, FI (2021): 4.527	50x 4.527/ 12= 18.86
67. Ghiban B., Pascu N.E., Antoniac I.V., Jiga G., Milea C., Petre G., Gheorghe C., Munteanu C., Istrate B. , Surface characterization of fracture in polylactic acid vs. Pla + particle (cu, al, graphene) insertions by 3d fused deposition modeling technology (2021) Coatings, 11 (6), art. no. 633, DOI: 10.3390/coatings11060633, WOS:000665551900001, FI (2021): 3.236	50x 3.236 / 9= 17.98
68. Panaghie C., Cimpoeşu R., Istrate B. , Cimpoeşu N., Bernevig M.-A., Zegan G., Roman A.-M., Chelariu R., Sodor A., New Zn ₃ Mg-xy alloys: Characteristics, microstructural evolution and corrosion behavior (2021) Materials, 14 (10), art. no. 2505, DOI: 10.3390/ma14102505, WOS:000662653500001, FI (2021): 3.748	50x 3.748/ 9= 20.82
69. Baltes L.S., Patachia S., Ekincioglu O., Ozkul H., Croitoru C., Munteanu C., Istrate B. , Tiorean M.H., Article polymer-cement composites glazing by concentrated solar energy (2021) Coatings, 11 (3), art. no. 350, DOI: 10.3390/coatings11030350, WOS:000633596300001, FI (2021): 3.236	50x 3.236/ 9= 20.23

70. Radu C.D., Verestiuc L., Ulea E., Lipsa F.D., Vulpe V., Munteanu C., Bulgariu L., Pasca S., Tamas C., Ciuntu B.M., Ciocan M., Sîrbu I., Gavrilaș E., Macarel C.V., Istrate B. , Evaluation of keratin/bacterial cellulose based scaffolds as potential burned wound dressing (2021) Applied Sciences (Switzerland), 11 (5), art. no. 1995, pp. 1 – 17, DOI: 10.3390/app11051995, WOS:000627985900001, FI (2021): 2.838	50x 2.838/ 15= 9.46
71. Goriuc A., Jitareanu A., Martu I., Dascalu C.G., Kappenberg-Nitescu D.C., Solomon S.M., Martu A., Foia L., Tapu I., Istrate B. , Tatarciuc M., Luchian I., Experimental EDX analysis of different periodontal splinting systems, Experimental and Therapeutic Medicine, (2021), 22 (6), Article Number1384, DOI10.3892/etm.2021.10820, WOS:000734959500001, FI (2021): 2.751	50x2.751/ 12= 11.46
72. 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
73. 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
74. 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
75. 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
76. 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
77. El 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
78. 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
79. 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
80. C Bejinariu, C Munteanu, CD Florea, B Istrate , N Cimpoesu, A Alexandru, AV Sandu, Electro-chemical Corrosion of a Cast Iron Protected with a Al2O3 Ceramic Layer, REV.CHIM.(Bucharest),Vol. 69,No. 12, pp. 3586-3589, 2018, WOS:000458533800054, FI(2018): 1.755	50x1.755/ 7 = 12.54
81. 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
82. 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
83. 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

84. 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
85. 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
86. 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
87. 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
88. 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
89. G.L. Pintilei, V.I. Crișmaru, M. Abrudeanu, C. Munteanu, E.R. Băciu, B. Istrate , N. Bănescu, 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
90. 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
91. E.S. Bărcă, 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
92. 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
93. 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
94. 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
95. 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
96. V. Popescu, I. Sandu, E.I. Mureșan, 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
97. I. Cimpoeșu, S. Stanciu, N. Cimpoeșu, 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
Rv98. B. Istrate , T. Voloseniuc, C. Munteanu and Ș. 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
Rv99. B. Istrate , C. Munteanu, S. Lupescu, M. Benchea, P. Vizureanu, Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr ₃ C ₂ -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

Rv100. 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
Rv101. 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
Rv102. B. Istrate , C. Munteanu, M.N. Matei, B. Oprisan, D. Chicet, K. Earar, Influence of ZrO ₂ -Y ₂ O ₃ and ZrO ₂ -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
Rv103. 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
Rv104. Faktorova D., Novy F., Steigmann R., Istrate B. , Munteanu C., Savin A., Nondestructive Evaluation of Biodegradable Magnesium Alloys, 13TH INTERNATIONAL CONFERENCE ON ELEKTRO (ELEKTRO 2020), MAY 25-28, 2020, WOS:000621581100085	50x0.1/6= 0.83
Rv105. Lutcanu M., Cimpoesu N., Istrate B. , Coteata M., Manole V., Stirbu I., Dimitriu F., Analyze of Cutting Effect on Ceramic Coated Steels, 23RD INTERNATIONAL CONFERENCE ON MATERIAL FORMING, Procedia Manufacturing, 47, 808-811, 2020, DOI10.1016/j.promfg.2020.04.249, WOS:000863670600129	50x0.1/7= 0.71
Rv106. Paleu C.C., Istrate B. , Paleu V., Munteanu C., Technological and structural analysis of Al ₂ O ₃ 40TiO ₂ coating deposited on a shaft sleeve of hydraulic pump, INTERNATIONAL CONFERENCE ON TRIBOLOGY (ROTRIB'19), IOP Conference Series-Materials Science and Engineering, 724, 012063, DOI10.1088/1757-899X/724/1/012063, 2020, WOS:000619349400063	50x0.1/4= 1.25
Rv107. Paleu V., Paleu C.C., Istrate B. , Bhaumik S., Munteanu C., 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, 724, 012064, DOI10.1088/1757-899X/724/1/012064, 2020, WOS:000619349400064	50x0.1/5= 1
Rv108. Savin A., Novy F., Craus M.L., Iftimie N., Steigmann R., Istrate B. , Munteanu C., Assessment of magnesium calcium alloys improved by rare earths addition for medical implants, Modtech Conference, IOP Conference Series-Materials Science and Engineering, 916, 012099, DOI10.1088/1757-899X/916/1/012099, 2020, WOS:000625330000099	50x0.1/6= 0.83
Rv109. Stescu C., Chicet D., Tufescu A., Istrate B. , Munteanu C., Strugaru-Iacob S., Contact stress simulation problem in case of thermal spray coatings, Modtech Conference, IOP Conference Series-Materials Science and Engineering, 916, 012114, DOI10.1088/1757-899X/916/1/012114, 2020, WOS:000625330000114	50x0.1/6= 0.83
Rv110. 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
Rv111. 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
Rv112. 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
Rv113. 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
Rv114. 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

Rv115. 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
Rv116. G Mahu, C Munteanu, B Istrate , M Benchea and S Lupescu, Influence of Al ₂ O ₃ -13TiO ₂ 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
Rv117. 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
Rv118. 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
Rv119. 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
Rv120. 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
Rv121. 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
Rv122. 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
Rv123. 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
Rv124. 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
Rv125. S Lupescu, C Munteanu, B Istrate , S Stanciu, N Cimpoeșu, 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
Rv126. M G Minciuna, P Vizureanu, M M B Abdullah, D C Achitei, B Istrate , R Cimpoeșu, 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
Rv127. 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
Rv128. 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
Rv129. 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

Rv130. 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
Rv131. D.C. Achiței, 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
Rv132. E. Mihalache, B. Pricop, M.G. Suru, N.M. Lohan, R.I. Comănesci, 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
Rv133. B. Pricop, U. Söyler, B. Özkal, M.G. Suru, N.M. Lohan, R.I. Comănesci, 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
Rv134. E.S. Bârcă, 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
Rv135. 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 in reviste si 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 (AMDREY 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. Cimpoeșu, 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, 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, Key Engineering Materials, 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. Vitureanu, 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. Lozneanu, 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. Bârcă, B. Istrate , E.S. Bârcă Eduard, V.I. Crișmaru, 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. Bârcă, E.S. Bârcă, 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 Brașov 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 Brașov, 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. Achiței, 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	-

7. 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 : 133
	P1. Director – PN III TE 27/2022 - PN-III-P1-1_1-TE-2021-0702, cu titlul „ <i>Materiale metalice biodegradabile inovative din sistemul Mg-Ca-Zn utilizate în aplicații ortopedice</i> ”, 2022-2024, Valoare: 450000 Lei	5x3=15
	P2. 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	5x4=20
	P3. Director – Mobilitate pentru cercetători - PNCDI III RU-MC 313MC/2019, 2019, Valoare: 21727.43 Lei	5x1=5
P	P4. 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	5x2=10
	P5. 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	5x1=5
	2.4.2 Membru în echipă	
	P6. Membru - Proiect Component 1 (ORTOMAG) - 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, Director – Prof.dr.ing. Munteanu Corneliu	2x4=8
	P7. 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	2x3=6

P8. 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	2x3=6
P9. Membru – Proiect „Informarea corectă – Cheia recunoașterii studiilor” - ID: 2789, POSDRU/2/1.2/S/6	2x1=2
P10. 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. Cimpoesu Nicanor	2x1=2
P11. 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	2x1=2
P12. Membru – Process Engineering –Klarwin – Contract nr. 19511/20.09.2018 - agent economic , 2018-2019 , Director – Prof.dr.ing. Munteanu Corneliu	2x1=2
P13. 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	2x1=2
P14. Membru - Contract tip ROSE SGU-N, nr. AG-206/2019, etapa 2019-2020, Director – Sef.lucr. dr.ing. Iulian Agape	2x2=4
P15. 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	2x4=8
P16. 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	2x1=2
P17. Membru – Proiect POCU/626/6/13/131181 "Insertia absolventilor 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	2x3=6
P18. Membru – Proiect RO-MD – BCS, nr. 2SOFT/1.2/44, "Improving the Quality of Solid Biofuels Produced from Raw Material Collected from Both Sides of Prut River", acronim BCS RO-MD, 2 ani, Director – Conf.univ.dr.ing. Ianus Gelu, Valoare contract: 100000 Euro	2x2=4
P19. Membru – Proiect „Development and comprehensive research using nuclear physics methods of functional environments for ultrahigh-density capacitors based on Zirconia nanopowders for nanoelectronics and microsystem technology", 03-4-1128-2017/2022, poziția 83, România - IUCN Dubna, Rusia, 2021, Director – Prof.univ.dr.ing. Dorin Luca, Valoare:4000 USD	2x1=2
P20. Membru – Contractul tip Agent economic nr. W911NF2020024/2020 (subcontract 25212/2020 – 504141/2020) cu tema "Program in Materials, Additive and Manufacturing, and Multiscale materials Engineering" (3ME),Director - Prof.univ.dr.ing. Corneliu Munteanu, Valoare:100000 USD, 2021-2022	2x2=4
P21. Membru – Grant pentru susținerea capacității de publicare, Grant Intern GI/P2/2021, Director: Prof. Nicanor Cimpoesu, Valoare : 45000 Lei.	2x1=2
P22. Membru – Grant pentru susținerea capacității de publicare, Grant Intern GI/P8/2021, Director: Prof. Corneliu Munteanu, Valoare : 44999,51 Lei.	2x1=2
P23. Membru – Grant pentru susținerea capacității de publicare, Grant Intern GI/P11/2021, Director: Conf. Popescu Vasilica, Valoare : 45000 Lei.	2x1=2
P24. Membru – Grant pentru susținerea capacității de publicare, Grant Intern GI/P21/2021, Director: Prof. Nedelcu Dumitru, Valoare : 44934,71 Lei.	2x1=2
P25. Membru – Grant pentru idei de proiect, Grant Intern GI/P122/2021_IDEI, Director: Prof. Diana Ancas, Valoare : 38579,56 Lei.	2x1=2
P26. Membru – Proiect 13ROMD – PN-IV-P8-8.3.ROMD 2023-0108. cu titlul: Îmbunătățirea durabilității grapelor cu discuri prin acoperiri termice în jet de plasmă. 2024-2026 Valoare: 477.500 Ron, din care revine TUIASI 238.750 Ron.	2x2=4
P27. Membru – Proiect PNCDI IV-5.6-24Sol(T24)/2024.cu titlul: Combatant Digital. 2024-2026. Valoare: 5.000.000 Ron, din care revine TUIASI 750.000 Ron.	2x2=4

8.	<div><div>Recunoașterea și impactul activității (A3)</div><div><div>Citation Report</div><div><div><div><div><div><div></div><div>Q Istrate b (Author)</div><div>Analyze Results</div><div>Create Alert</div></div></div><div>Refined By: <div>Researcher Profiles: Bogdan, Istrate</div> <div>Affiliations: GH ASACHI TECHNICAL UNIVERSITY</div> <div>Clear all</div></div></div><div><div><div>Publications</div><div>123</div><div>Total</div><div>From 1975 to 2025</div></div><div><div>Citing Articles</div><div>684</div><div>Analyze</div><div>Total</div><div>636</div><div>Analyze</div><div>Without self-citations</div></div><div><div>Times Cited</div><div>856</div><div>Total</div><div>753</div><div>Without self-citations</div><div>6.96</div><div>Average per item</div></div><div><div>15</div><div>H-index</div></div><div><div>Export Full Report</div></div></div></div></div></div></div>	
	3.1 Citări în reviste indexate WoS și SCOPUS [7], Minim 100 citari	507.78
	ISI Web of Science	
	1.B. Istrate, J.V. Rau, C. Munteanu, I.V. Antoniac, V. Saceleanu, Properties and in vitro assessment of ZrO2-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): 4.527	86
1	Title: Surface synthesization of magnesium alloys for improving corrosion resistance and implant applications, Author(s): Hossain, MH (Hossain, MD. Helal); Hossain, N (Hossain, Nayem); Chowdhury, MA (Chowdhury, Mohammad Asaduzzaman); Kowser, MA (Kowser, Md Arefin); Rana, MM (Rana, Md Masud) Source: ARABIAN JOURNAL OF CHEMISTRY Volume: 16 Issue: 2 Article Number: 104465 DOI: 10.1016/j.arabjc.2022.104465 Published: FEB 2023 Accession Number: WOS:000916217600010, FI 6.212	6
2	Title: A comprehensive review of properties of the biocompatible thin films on biodegradable Mg alloys, Author(s): Rajan, ST (Rajan, S. Thanka); Arockiarajan, A (Arockiarajan, A.), Source: BIOMEDICAL MATERIALS Volume: 18 Issue: 1 Article Number: 012002 DOI: 10.1088/1748-605X/aca85b Published: JAN 1 2023, Accession Number: WOS:000898903300001, FI 4.103	4
3	Title: Progress in bioactive surface coatings on biodegradable Mg alloys: A critical review towards clinical translation, Author(s): Singh, N (Singh, Navdeep); Batra, U (Batra, Uma); Kumar, K (Kumar, Kamal); Ahuja, N (Ahuja, Neeraj); Mahapatro, A (Mahapatro, Anil), Source: BIOACTIVE MATERIALS Volume: 19 Pages: 717-757 DOI: 10.1016/j.bioactmat.2022.05.009 Published: JAN 2023, Accession Number: WOS:000800025800001, FI: 16.874	6
4	Title: Assessment of the Mechanical and Corrosion Properties of Mg-1Zn-0.6Ca/Diamond Nanocomposites for Biomedical Applications, Author(s): Sevik, H (Sevik, Huseyin); Ozarslan, S (Ozarslan, Selma); Dieringa, H (Dieringa, Hajo), Source: NANOMATERIALS Volume: 12 Issue: 24 Article Number: 4399 DOI: 10.3390/nano12244399 Published: DEC 2022, Accession Number: WOS:000903063000001, FI: 5.719	6
5	Title: Microstructure and corrosion behavior of ZrO2 coated carbon fiber reinforced magnesium matrix composites sprayed with different powder characteristics Author(s): Yang, L (Yang, Li); Shi, XH (Shi, Xiaohong); Tian, XF (Tian, Xinfu); Wang, HH (Wang, Hanhui); Qi, LH (Qi, Lehua), Source: CERAMICS INTERNATIONAL Volume: 48 Issue: 20 Pages: 30797-30806 DOI: 10.1016/j.ceramint.2022.07.033 Early Access Date: AUG 2022 Published: OCT 15 2022 ,Accession Number: WOS:000848685900004, FI 5.532	6
6	Title: A review on recent advancements in biodegradable Mg-Ca alloys, Author(s): Sahu, MR (Sahu, Manas Ranjan); Kumar, TSS (Kumar, T. S. Sampath); Chakkingal, U (Chakkingal, Uday), Source: JOURNAL OF MAGNESIUM AND ALLOYS Volume: 10 Issue: 8 Pages: 2094-2117 DOI: 10.1016/j.jma.2022.08.002 Published: AUG 2022, Accession Number: WOS:000856191100001, FI 11.862	6
7	Title: Advancing dental implants: Bioactive and therapeutic modifications of zirconia, Author(s): Chopra, D (Chopra, Divya); Jayasree, A (Jayasree, Anjana); Guo, TQ (Guo, Tianqi); Gulati, K (Gulati, Karan); Ivanovski, S (Ivanovski, Saso), Source: BIOACTIVE MATERIALS Volume: 13 Pages: 161-178 DOI: 10.1016/j.bioactmat.2021.10.010 Published: JUL 2022, Accession Number: WOS:000766625200003, FI 16.874	6
8	Title: First-principles investigation of structural stability, electronic and optical properties of suboxide (Zr3O), Author(s): Pan, Y (Pan, Yong), Source: MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS Volume: 281 Article Number: 115746 DOI: 10.1016/j.mseb.2022.115746 Early Access Date: APR 2022 Published: JUL 2022, Accession Number: WOS:000832772000008, FI 3.407	4
9	Title: Characterization of Tetracalcium Phosphate/Monetite Biocement Modified by Magnesium Pyrophosphate, Author(s): Stulajterova, R (Stulajterova, Radoslava); Medvecký, L (Medvecký, Lubomir); Giretova, M (Giretova, Maria); Sopcak, T (Sopcak, Tibor); Luptakova, L (Luptakova, Lenka); Bures, R (Bures, Radovan); Szekiova, E (Szekiova, Eva), Source: MATERIALS Volume:	4

	15 Issue: 7 Article Number: 2586 DOI: 10.3390/ma15072586 Published: APR 2022 Accession Number: WOS:000781280100001, FI 3.748	
10	Title: Performance Evaluation and Thermal Shock Behavior of PS-PVD (Gd _{0.9} Yb _{0.1})(2)ZrO ₇ /YSZ Thermal Barrier Coatings, Author(s): Zhao, HX (Zhao, Hongxu); Zhang, XF (Zhang, Xiaofeng); Deng, CM (Deng, Chunming); Deng, ZQ (Deng, Ziqian); Chen, XL (Chen, Xiaolong), Source: COATINGS Volume: 12 Issue: 3 Article Number: 323 DOI: 10.3390/coatings12030323 Published: MAR 2022, Accession Number: WOS:000776979500001 FI 3.236	4
11	Title: Microstructure and Corrosion Behavior of Atmospheric Plasma Sprayed NiCoCrAlFe High Entropy Alloy Coating, Author(s): Mehmood, K (Mehmood, Kashif); Umer, MA (Umer, Malik Adeel); Munawar, AU (Munawar, Ahmed Umar); Imran, M (Imran, Muhammad); Shahid, M (Shahid, Muhammad); Ilyas, M (Ilyas, Muhammad); Firdous, R (Firdous, Rabeeqa); Kousar, H (Kousar, Humaira); Usman, M (Usman, Muhammad), Source: MATERIALS Volume: 15 Issue: 4 Article Number: 1486 DOI: 10.3390/ma15041486 Published: FEB 2022, Accession Number: WOS:000767272600001 FI 3.748	4
12	Title: Biocompatibility and electrochemical evaluation of ZrO ₂ thin films deposited by reactive magnetron sputtering on MgZnCa alloy, Author(s): Millan-Ramos, B (Millan-Ramos, Benjamin); Morquecho-Marin, D (Morquecho-Marin, Daniela); Silva-Bermudez, P (Silva-Bermudez, Phaedra); Ramirez-Ortega, D (Ramirez-Ortega, David); Depablos-Rivera, O (Depablos-Rivera, Mary); Garcia-Lopez, J (Garcia-Lopez, Julieta); Fernandez-Lizarraga, M (Fernandez-Lizarraga, Mariana); Victoria-Hernandez, J (Victoria-Hernandez, Jose); Letzig, D (Letzig, Dietmar); Almaguer-Flores, A (Almaguer-Flores, Argelia); Rodil, SE (Rodil, Sandra E.), Source: JOURNAL OF MAGNESIUM AND ALLOYS Volume: 9 Issue: 6 Pages: 2019-2038 DOI: 10.1016/j.jma.2021.07.010 Published: NOV 15 2021, Accession Number: WOS:000753691400003 FI 11.862	6
13	Title: Simple Approach to Medical Grade Alumina and Zirconia Ceramics Surface Alteration via Acid Etching Treatment, Author(s): Nakonieczny, DS (Nakonieczny, Damian Stanislaw); Sliva, A (Sliva, Ales); Paszenda, Z (Paszenda, Zbigniew); Hundakova, M (Hundakova, Marianna); Kratosova, G (Kratosova, Gabriela); Holesova, S (Holesova, Sylva); Majewska, J (Majewska, Justyna); Kaluzynski, P (Kaluzynski, Piotr); Sathish, SK (Sathish, Sajjan Kumar); Martynkova, GS (Simha Martynkova, Grazyna), Source: CRYSTALS Volume: 11 Issue: 10 Article Number: 1232 DOI: 10.3390/cryst11101232 Published: OCT 2021, Accession Number: WOS:000715414100001 FI 2.67	4
14	Title: Sustainable Coatings on Metallic Alloys as a Nowadays Challenge, Author(s): Nartita, R (Nartita, Radu); Ionita, D (Ionita, Daniela); Demetrescu, I (Demetrescu, Ioana), Source: SUSTAINABILITY Volume: 13 Issue: 18 Article Number: 10217 DOI: 10.3390/su131810217 Published: SEP 2021, Accession Number: WOS:000702056600001 FI 3.889	4
15	Title: Effect of sealing treatment on corrosion behavior of plasma sprayed ZrO ₂ coated C-f/Mg composites, Author(s): Yang, L (Yang, Li); Shi, XH (Shi, Xiaohong); Tian, XF (Tian, Xinfu); Han, X (Han, Xu); Mu, JR (Mu, Jierui); Qi, LH (Qi, Lehua), Source: SURFACE & COATINGS TECHNOLOGY Volume: 423 Article Number: 127627 DOI: 10.1016/j.surfcoat.2021.127627 Early Access Date: AUG 2021 Published: OCT 15 2021, Accession Number: WOS:000697566200043 FI 4.865	4
16	Title: Research progress on surface protective coatings of biomedical degradable magnesium alloys, Author(s): Liu, Y (Liu, Yun); Zhang, Y (Zhang, Yuan); Wang, YL (Wang, Yan-Li); Tian, YQ (Tian, Ya-Qiang); Chen, LS (Chen, Lian-Sheng), Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 885 Article Number: 161001 DOI: 10.1016/j.jallcom.2021.161001 Early Access Date: JUL 2021 Published: DEC 10 2021, Accession Number: WOS:000692233600001 FI 6.371	6
17	Title: Protection of magnesium alloys: From physical barrier coating to smart self-healing coating, Author(s): Zhang, DD (Zhang, Dongdong); Peng, F (Peng, Feng); Liu, XY (Liu, Xuanyong), Source: JOURNAL OF ALLOYS AND COMPOUNDS Volume: 853 Article Number: 157010 DOI: 10.1016/j.jallcom.2020.157010 Published: FEB 5 2021, Accession Number: WOS:000582806400047 FI 6.371	6
2. 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		46
1	Title: Synthesis and Characterization of Zirconia-Silica PMMA Nanocomposite for Endodontic Implants, Author(s): Widodo, P (Widodo, Puji); Mulyawan, W (Mulyawan, Wawan); Djustiana, N (Djustiana, Nina); Joni, IM (Joni, I. Made), Source: DENTISTRY JOURNAL Volume: 11 Issue: 3 Article Number: 57 DOI: 10.3390/dj11030057 Published: MAR 2023, Accession Number: WOS:000958919500001 FI: 0.81	1
2	Title: Comparison of Friction Behaviour of Titanium Grade 2 after Non-Contact Boriding in Oxygen-Containing Medium with Gas Nitriding Author(s): Lavrys, S (Lavrys, Serhii); Pohrelyuk, I (Pohrelyuk, Iryna); Tkachuk, O (Tkachuk, Oleh); Padgurskas, J (Padgurskas, Juozas); Trush, V (Trush, Vasyli); Proskurnyak, R (Proskurnyak, Roman) Source: COATINGS Volume: 13 Issue: 2 Article Number: 282 DOI: 10.3390/coatings13020282 Published: FEB 2023 Accession Number:	4

	WOS:000938369800001 FI: 3.236	
3	Title: Effect of bilayer numbers on structural, mechanical, tribological and corrosion properties of TiO ₂ -SiO ₂ multilayer film-coated beta-type Ti45Nb alloys Author(s): Comakli, O (Comakli, Onur); Yazici, M (Yazici, Mustafa); Demir, M (Demir, Merve); Yetim, AF (Yetim, Ali Fatih); Celik, A (Celik, Ayhan) Source: CERAMICS INTERNATIONAL Volume: 49 Issue: 2 Pages: 3007-3015 DOI: 10.1016/j.ceramint.2022.09.285 Published: JAN 15 2023 Accession Number: WOS:000934002400001 FI: 5.532	6
4	Title: Multi-Criteria Optimization of Automatic Electro-Spark Deposition TiCrNiVSi0.1 Multi-Principal Element Alloy Coating on TC4 Alloy Author(s): Lian, Y (Lian, Yong); Cui, MH (Cui, Menghui); Han, AH (Han, Aihua); Liu, Z (Liu, Zhao); Zhang, J (Zhang, Jin) Source: COATINGS Volume: 13 Issue: 1 Article Number: 214 DOI: 10.3390/coatings13010214 Published: JAN 2023 Accession Number: WOS:000914535200001 FI: 3.236	4
5	Title: Study of Tribotechnical Properties of Multilayer Nanostructured Coatings and Contact Processes during Milling of Titanium Alloys Author(s): Migranov, MS (Migranov, Mars Sharifullovich); Shehtman, SR (Shehtman, Semen Romanovich); Sukhova, NA (Sukhova, Nadezhda Aleksandrovna); Mitrofanov, AP (Mitrofanov, Artem Petrovich); Gusev, AS (Gusev, Andrey Sergeevich); Migranov, AM (Migranov, Arthur Marsovič); Repin, DS (Repin, Denis Sergeyevich) Source: COATINGS Volume: 13 Issue: 1 Article Number: 171 DOI: 10.3390/coatings13010171 Published: JAN 2023 Accession Number: WOS:000917029100001 FI: 3.236	4
6	Title: Analysis of the Physical-Mechanical Properties of the Zinc Phosphate Layer Deposited on a Nodular Cast Iron Substrate Author(s): Nejneru, C (Nejneru, Carmen); Burduhos-Nergis, DP (Burduhos-Nergis, Diana-Petronela); Axinte, M (Axinte, Mihai); Perju, MC (Perju, Manuela Cristina); Bejinariu, C (Bejinariu, Costica) Source: COATINGS Volume: 12 Issue: 10 Article Number: 1384 DOI: 10.3390/coatings12101384 Published: OCT 2022 Accession Number: WOS:000872654800001 FI: 3.236	4
7	Title: Plasma-Sprayed Hydroxyapatite Coatings and Their Biological Properties, Author(s): Kowalski, S (Kowalski, Szymon); Gonciarz, W (Gonciarz, Weronika); Belka, R (Belka, Radoslaw); Goral, A (Goral, Anna); Chmiela, M (Chmiela, Magdalena); Lechowicz, L (Lechowicz, Lukasz); Kaca, W (Kaca, Wieslaw); Zorawski, W (Zorawski, Wojciech) Source: COATINGS Volume: 12 Issue: 9 Article Number: 1317 DOI: 10.3390/coatings12091317 Published: SEP 2022 Accession Number: WOS:000856330500001 FI 3.236	4
8	Title: Surface Characterization of Current Dental Ceramics Using Scanning Electron Microscopic and Atomic Force Microscopic Techniques Author(s): Kaczmarek, K (Kaczmarek, Katarzyna); Konieczny, B (Konieczny, Bartłomiej); Siarkiewicz, P (Siarkiewicz, Przemyslaw); Leniart, A (Leniart, Andrzej); Lukomska-Szymanska, M (Lukomska-Szymanska, Monika); Skrzypek, S (Skrzypek, Slawomira); Lapinska, B (Lapinska, Barbara) Source: COATINGS Volume: 12 Issue: 8 Article Number: 1122 DOI: 10.3390/coatings12081122 Published: AUG 2022 Accession Number: WOS:000846005400001 FI: 3.236	4
9	Title: Preparation and CMAS Wettability Investigation of CMAS Corrosion Resistant Protective Layer with Micro-Nano Double Scale Structure Author(s): Wang, YH (Wang, Yihao); Xu, ZN (Xu, Zhenning); Wang, WZ (Wang, Weize); Zhang, CC (Zhang, Chengcheng); Yu, ZX (Yu, Zexin); Fang, HJ (Fang, Huanjie); Yang, T (Yang, Ting) Source: COATINGS Volume: 12 Issue: 5 Article Number: 648 DOI: 10.3390/coatings12050648 Published: MAY 2022 Accession Number: WOS:000801773900001 FI: 3.236	4
10	Title: Application of thermal spray technologies in anticorrosive coatings: a short review Author(s): Duda, A (Duda, Alicja); Kopycinski, B (Kopycinski, Bartosz) Source: OCHRONA PRZED KORROZJA Volume: 65 Issue: 2 Pages: 37-42 DOI: 10.15199/40.2022.2.1 Published: FEB 2022 Accession Number: WOS:000773379700002 FI: 0.03	1
11	Title: ANALYSIS OF THE CORROSION RATE OF FeMn-Si BIODEGRADABLE MATERIAL Author(s): Roman, AM (Roman, A. -M.); Chelariu, R (Chelariu, R.); Cimpoesu, R (Cimpoesu, R.); Stirbu, I (Stirbu, I.); Ionita, I (Ionita, I.); Cazacu, MM (Cazacu, M. M.); Prisecariu, BA (Prisecariu, B. A.); Cimpoesu, N (Cimpoesu, N.); Pietrusiewicz, P (Pietrusiewicz, P.); Sodor, A (Sodor, A.), Source: ARCHIVES OF METALLURGY AND MATERIALS Volume: 67 Issue: 4 Pages: 1243-1250 DOI:	1

	10.24425/amm.2022.141048 Published: 2022, Accession Number: WOS:000890623500006 FI 0.633	
12	Title: "IN-VITRO" TESTS ON NEW BIODEGRADABLE METALLIC MATERIAL BASED ON ZnMgY Author(s): Panaghie, C (Panaghie, C.); Cimpoesu, N (Cimpoesu, N.); Benchea, M (Benchea, M.); Roman, AM (Roman, A-M); Manole, V (Manole, V); Alexandru, A (Alexandru, A.); Cimpoesu, R (Cimpoesu, R.); Cazacu, MM (Cazacu, M. M.); Wnuk, I (Wnuk, I); Zegan, G (Zegan, G.) Source: ARCHIVES OF METALLURGY AND MATERIALS Volume: 67 Issue: 2 Pages: 587-594 DOI: 10.24425/amm.2022.137794 Published: 2022 Accession Number: WOS:000813491700001 FI 0.633	1
13	Title: Microstructure and Wear Behaviors of Plasma-Sprayed MoAlB Ceramic Coating Author(s): Li, FZ (Li, Fuzhu); Sun, SN (Sun, Shengnan); Xu, Y (Xu, Yong); Tian, LH (Tian, Lihui); Wang, Y (Wang, Yun); Xu, ZY (Xu, Zhenying); Li, RT (Li, Ruitao) Source: COATINGS Volume: 11 Issue: 4 Article Number: 474 DOI: 10.3390/coatings11040474 Published: APR 2021 Accession Number: WOS:000642935100001 FI: 3.236	4
14	Title: Preparation of Coating on the Titanium Surface by Micro-Arc Oxidation to Improve Corrosion Resistance, Author(s): Hu, YL (Hu, Yulong); Wang, ZQ (Wang, Zhiqiao); Ai, JY (Ai, Jianyang); Bu, SC (Bu, Shichao); Liu, HW (Liu, Hongwei) Source: COATINGS Volume: 11 Issue: 2 Article Number: 230 DOI: 10.3390/coatings11020230 Published: FEB 2021 Accession Number: WOS:000622399800001 FI: 3.236	4
3. 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		27.88
1	Title: Characterization and wear properties of plasma sprayed Cr3C2 and Stellite coatings on Inconel 62, Author(s): Kumar, SS (Kumar, S. Satheesh); Meignanamoorthy, M (Meignanamoorthy, M.); Ravichandran, M (Ravichandran, M.) Source: SURFACE TOPOGRAPHY-METROLOGY AND PROPERTIES Volume: 11 Issue: 1 Article Number: 015006 DOI: 10.1088/2051-672X/aca1d4 Published: MAR 1 2023 Accession Number: WOS:000915876700001 FI: 2.185	2.86
2	Title: Cracking Behavior of Atmospheric Plasma-Sprayed 8YSZ Thermal Barrier Coatings during Thermal Shock Test, Author(s): Huang, JB (Huang, Jibo); Sun, W (Sun, Wen); Huang, RZ (Huang, Renzhong); Ma, WH (Ma, Wenhua) Source: COATINGS Volume: 13 Issue: 2 Article Number: 243 DOI: 10.3390/coatings13020243 Published: FEB 2023, Accession Number: WOS:000944878700001 FI: 3.236	2.86
3	Title: Comparison of Friction Behaviour of Titanium Grade 2 after Non-Contact Boriding in Oxygen-Containing Medium with Gas Nitriding, Author(s): Lavrys, S (Lavrys, Serhii); Pohrellyuk, I (Pohrellyuk, Iryna); Tkachuk, O (Tkachuk, Oleh); Padgurskas, J (Padgurskas, Juozas); Trush, V (Trush, Vasyli); Proskurnyak, R (Proskurnyak, Roman), Source: COATINGS Volume: 13 Issue: 2 Article Number: 282 DOI: 10.3390/coatings13020282 Published: FEB 2023, Accession Number: WOS:000938369800001 FI: 3.236	2.86
4	Title: Temperature profile, microstructural evolution, and wear resistance of plasma-sprayed NiCrBSi coatings under different powers in a vertical remelting way, Author(s): Xuan, HN (Xuan, Hao-Nan); Chen, LY (Chen, Liang-Yu); Li, N (Li, Nan); Wang, HY (Wang, Haiyang); Zhao, CH (Zhao, Cuihua); Bobrov, M (Bobrov, Maksym); Lu, S (Lu, Sheng); Zhang, LC (Zhang, Lai-Chang), Source: MATERIALS CHEMISTRY AND PHYSICS Volume: 292 Article Number: 126773 DOI: 10.1016/j.matchemphys.2022.126773 Published: DEC 1 2022, Accession Number: WOS:000869004400002 FI: 4.778	2.86
5	Title: Mechanism for magnetic field induced structural relaxation and accompanying fracture toughness improvement of the thermal spraying coating, Author(s): Qian, CK (Qian, Chengkai); Liu, Q (Liu, Qu); Xiong, XY (Xiong, Xiyao); Ye, BJ (Ye, Bangjiao); Li, ZY (Li, Zhiyong); Li, KJ (Li, Kejian); Ying, SJ (Ying, Shaojun); Zhang, HJ (Zhang, Hongjun); Huang, DM (Huang, Dongmei); Zhang, X (Zhang, Xu); Cai, ZP (Cai, Zhipeng), Source: MATERIALS & DESIGN Volume: 223 Article Number: 111113 DOI: 10.1016/j.matdes.2022.111113 Published: NOV 2022 Accession Number: WOS:000863245400007, FI: 9.417	4.29
6	Title: Microstructure and Tribological Properties of Lubricating-Reinforcing Laser Cladding Composite Coating with the Ti2SC-Ti2Ni Mosaic Structure Phase, Author(s): Zhang, TG (Zhang, Tiangang); Zhen, H (Zhen, Hao); Liu, TX (Liu, Tianxiang); Hou, XY	2.86

	(Hou, Xiaoyun); Zhang, ZQ (Zhang, Zhiqiang), Source: COATINGS Volume: 12 Issue: 7 Article Number: 876 DOI: 10.3390/coatings12070876 Published: JUL 2022 Accession Number: WOS:000831848800001 FI: 3.236	
7	Title: Microstructure and Corrosion Behavior of Atmospheric Plasma Sprayed NiCoCrAlFe High Entropy Alloy Coating, Author(s): Mehmood, K (Mehmood, Kashif); Umer, MA (Umer, Malik Adeel); Munawar, AU (Munawar, Ahmed Umar); Imran, M (Imran, Muhammad); Shahid, M (Shahid, Muhammad); Ilyas, M (Ilyas, Muhammad); Firdous, R (Firdous, Rabeeqa); Kousar, H (Kousar, Humaira); Usman, M (Usman, Muhammad), Source: MATERIALS Volume: 15 Issue: 4 Article Number: 1486 DOI: 10.3390/ma15041486 Published: FEB 2022 Accession Number: WOS:000767272600001, FI: 3.748	2.86
8	Title: COMPARATIVE ROLLING CONTACT BEHAVIOR OF TWO APS COATINGS WITH DIFFERENT MATRIX, Author(s): Chicet, D (Chicet, D.); Toma, S (Toma, S.); Haraga, R (Haraga, R.); Bejinariu, C (Bejinariu, C.), Source: ARCHIVES OF METALLURGY AND MATERIALS Volume: 67 Issue: 3 Pages: 869-878 DOI: 10.24425/amm.2022.139677 Published: 2022, Accession Number: WOS:000849223500008 FI: 0.633	0.71
9	Title: Effect of Arc Currents on the Mechanical, High Temperature Oxidation and Corrosion Properties of CrSiN Nanocomposite Coatings, Author(s): Xiang, YX (Xiang, Yanxiong); Zou, CW (Zou, Changwei), Source: COATINGS Volume: 12 Issue: 1 Article Number: 40 DOI: 10.3390/coatings12010040 Published: JAN 2022, Accession Number: WOS:000759106000001 FI: 3.236	2.86
10	Title: Comparison of Ni-Based Self-Fluxing Remelted Coatings for Wear and Corrosion Applications, Author(s): Kazamer, N (Kazamer, Norbert); Muntean, R (Muntean, Roxana); Valean, PC (Valean, Petru Cristian); Pascal, DT (Pascal, Dragos Toader); Marginean, G (Marginean, Gabriela); Serban, VA (Serban, Viorel-Aurel), Source: MATERIALS Volume: 14 Issue: 12 Article Number: 3293 DOI: 10.3390/ma14123293 Published: JUN 2021, Accession Number: WOS:000666107300001, FI: 3.748	2.86
4. B. Istrate , C. Munteanu, S. Lupescu, R. Chelariu, M.D. Vlad, P. Vizureanu, Electrochemical Analysis and In Vitro Assay of Mg-0.5Ca-xY Biodegradable Alloys, MATERIALS, Vol. 13, Is. 14, Article Number: 3082, 2020, DOI: 10.3390/ma13143082, WOS:000554140300001		14.99
1	Title: Surface synthesization of magnesium alloys for improving corrosion resistance and implant applications, Author(s): Hossain, MH (Hossain, MD. Helal); Hossain, N (Hossain, Nayem); Chowdhury, MA (Chowdhury, Mohammad Asaduzzaman); Kowser, MA (Kowser, Md Arefin); Rana, MM (Rana, Md Masud), Source: ARABIAN JOURNAL OF CHEMISTRY Volume: 16 Issue: 2 Article Number: 104465 DOI: 10.1016/j.arabjc.2022.104465 Published: FEB 2023, Accession Number: WOS:000916217600010, FI: 6.212	5
2	Title: Influence of Surface Roughness on Biodegradability and Cytocompatibility of High-Purity Magnesium, Author(s): Chen, JH (Chen, Jiahao); Dai, JT (Dai, Jingtao); Qian, JY (Qian, Junyu); Li, WR (Li, Weirong); Li, RH (Li, Ronghui); Pang, D (Pang, Dong); Wan, GJ (Wan, Guojiang); Li, P (Li, Ping); Xu, SL (Xu, Shulan), Source: MATERIALS Volume: 15 Issue: 11 Article Number: 3991 DOI: 10.3390/ma15113991 Published: JUN 2022, Accession Number: WOS:000808822900001, FI: 3.748	3.33
3	Title: The Formation of 14H-LPSO in Mg-9Gd-2Y-2Zn-0.5Zr Alloy during Heat Treatment, Author(s): Liu, YF (Liu, Yunfang); Yang, YQ (Yang, Yaqin); Yi, M (Yi, Ming); Yu, JM (Yu, Jianmin); Li, BC (Li, Baocheng); Zhang, ZM (Zhang, Zhimin), Source: MATERIALS Volume: 14 Issue: 19 Article Number: 5758 DOI: 10.3390/ma14195758 Published: OCT 2021, Accession Number: WOS:000708304800001, FI: 3.748	3.33
4	Title: Influence of simultaneous alloying with Ca and Sc on the high temperature deformation mechanism, texture, and recrystallization behavior of Mg-Ca-Sc alloys, Author(s): Singh, C (Singh, Chetan); Narayan, RL (Narayan, R. Lakshmi); Jain, J (Jain, Jayant), Source: MATERIALS CHARACTERIZATION Volume: 179 Article Number: 111343 DOI: 10.1016/j.matchar.2021.111343 Early Access Date: JUL 2021 Published: SEP 2021, Accession Number: WOS:000692247000003, FI: 4.537	3.33
5. 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		12
1	Title: The Influence of Annealing at 500 and 900 degrees C on the Structure and Mechanical Properties of AlxCoCrFeNi Alloys, Author(s): Tokarewicz, M (Tokarewicz, Marzena); Gradzka-Dahlke, M (Gradzka-Dahlke, Malgorzata); Recko, K (Recko,	4

	Katarzyna); Lepicka, M (Lepicka, Magdalena), Source: MATERIALS Volume: 16 Issue: 3 Article Number: 1245 DOI: 10.3390/ma16031245 Published: FEB 2023 Accession Number: WOS:000929727800001 FI: 3.748	
2	Title: Tuning crystal structure by composition in Al-Cr-Fe-Ni multi-principal component alloy films, Author(s): Lao, YX (Lao, Yuanxia); Lao, XM (Lao, Xiumin); Yin, YQ (Yin, Yuqi); Zhai, YC (Zhai, Yucui); Yang, Y (Yang, Yi); Sun, S (Sun, Sen), Source: VACUUM Volume: 197 Article Number: 110851 DOI: 10.1016/j.vacuum.2021.110851 Early Access Date: DEC 2021 Published: MAR 2022, Accession Number: WOS:000747187700004 FI: 4.11	4
3	Title: Review of Recent Research on AlCoCrFeNi High-Entropy Alloy, Author(s): Tokarewicz, M (Tokarewicz, Marzena); Gradzka-Dahlke, M (Gradzka-Dahlke, Malgorzata), Source: METALS Volume: 11 Issue: 8 Article Number: 1302 DOI: 10.3390/met11081302 Published: AUG 2021, Accession Number: WOS:000689377700001 FI: 2.695	4
6. B. Istrate , C. Munteanu, M.N. Matei, B. Oprisan, D. Chicet, K. Earar, Influence of ZrO ₂ -Y ₂ O ₃ and ZrO ₂ -CaO coatings on Mg-1,3Ca-5,5Zr biodegradable alloy, IOP Conf. Series: Materials Science and Engineering 133, 012010, 2016, WOS:000391140000010		5.83
1	Title: Influence of Surface Roughness on Biodegradability and Cytocompatibility of High-Purity Magnesium, Author(s): Chen, JH (Chen, Jiahao); Dai, JT (Dai, Jingtao); Qian, JY (Qian, Junyu); Li, WR (Li, Weirong); Li, RH (Li, Ronghui); Pang, D (Pang, Dong); Wan, GJ (Wan, Guojiang); Li, P (Li, Ping); Xu, SL (Xu, Shulan), Source: MATERIALS Volume: 15 Issue: 11 Article Number: 3991 DOI: 10.3390/ma15113991 Published: JUN 2022, Accession Number: WOS:000808822900001 FI: 3.748	3.33
2	Title: Experimental Study on the Influence of Zirconia Surface Preparation on Deposition of Hydroxyapatite, Author(s): Focsaneanu, SC (Focsaneanu, Sergiu Ciprian); Vizureanu, P (Vizureanu, Petrica); Sandu, AV (Sandu, Andrei Victor); Ciobanu, G (Ciobanu, Gabriela); Baltatu, SM (Baltatu, Simona Madalina); Vlad, D (Vlad, Daniela), Source: REVISTA DE CHIMIE Volume: 70 Issue: 6 Pages: 2273-2275 Published: JUN 2019, Accession Number: WOS:000475860100081 FI: 1.755	2.5
7. Istrate B. , Munteanu C., Antoniac I.-V., Lupescu S.-C., Current Research Studies of Mg–Ca–Zn Biodegradable Alloys Used as Orthopedic Implants—Review, (2022) Crystals, 12 (10), art. no. 1468, DOI: 10.3390/cryst12101468, WOS:000872374100001, FI (2021): 2.67		37.5
1	Title: A Critical Review on Improving the Fatigue Life and Corrosion Properties of Magnesium Alloys via the Technique of Adding Different Elements, Author(s): Kashyzadeh, KR (Kashyzadeh, Kazem Reza); Amiri, N (Amiri, Nima); Maleki, E (Maleki, Erfan); Unal, O (Unal, Okan) Source: JOURNAL OF MARINE SCIENCE AND ENGINEERING Volume: 11 Issue: 3 Article Number: 527 DOI: 10.3390/jmse11030527 Published: MAR 2023, Accession Number: WOS:000955874500001 FI: 2.744	5
2	Title: Low-Cycle Fatigue Behavior of Hot V-Bent Structural Components Made of AZ31B Wrought Magnesium Alloy, Author(s): Mader, F (Mader, Florian); Nischler, A (Nischler, Anton); Huber, O (Huber, Otto), Source: CRYSTALS Volume: 13 Issue: 2 Article Number: 184 DOI: 10.3390/cryst13020184 Published: FEB 2023, Accession Number: WOS:000938952800001 FI: 2.67	5
3	Title: Microstructure and Salt Fog Corrosion of Wrought Mg-Al-Zn and Mg-RE Alloys, Author(s): Kamoutsis, H (Kamoutsis, Helen); Haidemenopoulos, GN (Haidemenopoulos, Gregory N.); Gunnaes, AE (Gunnaes, Anette E. E.); Diplas, S (Diplas, Spyros), Source: MATERIALS Volume: 16 Issue: 3 Article Number: 1004 DOI: 10.3390/ma16031004 Published: FEB 2023 FI: 3.748	5
4	Title: Attaining High Functional Performance in Biodegradable Mg-Alloys: An Overview of Challenges and Prospects for the Mg-Zn-Ca System Author(s): Vinogradov, A (Vinogradov, Alexei); Merson, E (Merson, Evgeniy); Myagkikh, P (Myagkikh, Pavel); Linderov, M (Linderov, Mikhail); Brilevsky, A (Brilevsky, Alexandr); Merson, D (Merson, Dmitry), Source: MATERIALS Volume: 16 Issue: 3 Article Number: 1324 DOI: 10.3390/ma16031324 Published: FEB 2023, Accession Number: WOS:000930921400001 FI: 3.748	5
5	Title: Surface synthesization of magnesium alloys for improving corrosion resistance and implant applications, Author(s): Hossain, MH (Hossain, MD. Helal); Hossain, N (Hossain, Nayem); Chowdhury, MA (Chowdhury, Mohammad Asaduzzaman); Kowser, MA (Kowser, Md Arefin); Rana, MM (Rana, Md Masud), Source: ARABIAN JOURNAL OF CHEMISTRY Volume: 16 Issue: 2 Article Number: 104465 DOI: 10.1016/j.arabjc.2022.104465 Published: FEB 2023, Accession Number:	7.5

	WOS:000916217600010, FI:6.212	
6	Title: Metals Biotribology and Oral Microbiota Biocorrosion Mechanisms, Author(s): Contuzzi, N (Contuzzi, Nicola); Casalino, G (Casalino, Giuseppe); Boccaccio, A (Boccaccio, Antonio); Ballini, A (Ballini, Andrea); Charitos, IA (Charitos, Ioannis Alexandros); Bottalico, L (Bottalico, Lucrezia); Santacroce, L (Santacroce, Luigi), Source: JOURNAL OF FUNCTIONAL BIOMATERIALS Volume: 14 Issue: 1 Article Number: 14 DOI: 10.3390/jfb14010014 Published: JAN 2023, Accession Number: WOS:000914613600001, FI: 4.901	5
7	Title: Effect of TiN Coating on the Structure, Mechanical Properties and Fracture of the Mg-Ca-Zn Alloy, Author(s): Khrustalyov, A (Khrustalyov, Anton); Monogenov, A (Monogenov, Alexander); Baigonakova, G (Baigonakova, Gulsharat); Akhmadieva, A (Akhmadieva, Anastasia); Marchenko, E (Marchenko, Ekaterina); Vorozhtsov, A (Vorozhtsov, Alexander), Source: METALS Volume: 12 Issue: 12 Article Number: 2140 DOI: 10.3390/met12122140 Published: DEC 2022, Accession Number: WOS:000902547000001, FI: 2.695	5
8.	Istrate B. , Munteanu C., Cimpoesu R., Cimpoesu N., Popescu O.D., Vlad M.D., Microstructural, electrochemical and in vitro analysis of Mg-0.5Ca-xGd biodegradable alloys (2021) Applied Sciences (Switzerland), 11 (3), art. no. 981, pp. 1 – 18, DOI: 10.3390/app11030981 WOS:000614993400001, FI (2021): 2.838	18.32
1	Title: Corrosion and Mechanical Behavior of the As-Cast and Solid-Solution-Treated AM50 Magnesium Alloy in Different Media, Author(s): Yang, M (Yang, Miao); Liu, XB (Liu, Xiaobo); Xing, LY (Xing, Liyun); Chen, ZY (Chen, Zhaoyu), Source: MATERIALS Volume: 16 Issue: 6 Article Number: 2406 DOI: 10.3390/ma16062406 Published: MAR 2023, Accession Number: WOS:000957154800001 FI: 3.748	3.33
2	Title: Mechanical and Corrosion Properties of Mg-Gd-Cu-Zr Alloy for Degradable Fracturing Ball Applications, Author(s): Jiang, JH (Jiang, Jiahao); Geng, X (Geng, Xue); Zhang, XB (Zhang, Xiaobo), Source: METALS Volume: 13 Issue: 3 Article Number: 446 DOI: 10.3390/met13030446 Published: MAR 2023, Accession Number: WOS:000958202900001 FI: 2.695	3.33
3	Title: Surface synthesization of magnesium alloys for improving corrosion resistance and implant applications, Author(s): Hossain, MH (Hossain, MD. Helal); Hossain, N (Hossain, Nayem); Chowdhury, MA (Chowdhury, Mohammad Asaduzzaman); Kowser, MA (Kowser, Md Arefin); Rana, MM (Rana, Md Masud), Source: ARABIAN JOURNAL OF CHEMISTRY Volume: 16 Issue: 2 Article Number: 104465 DOI: 10.1016/j.arabjc.2022.104465 Published: FEB 2023, Accession Number: WOS:000916217600010 FI: 6.212	5
4	Title: The Formation of 14H-LPSO in Mg-9Gd-2Y-2Zn-0.5Zr Alloy during Heat Treatment, Author(s): Liu, YF (Liu, Yunfang); Yang, YQ (Yang, Yaqin); Yi, M (Yi, Ming); Yu, JM (Yu, Jianmin); Li, BC (Li, Baocheng); Zhang, ZM (Zhang, Zhimin), Source: MATERIALS Volume: 14 Issue: 19 Article Number: 5758 DOI: 10.3390/ma14195758 Published: OCT 2021, Accession Number: WOS:000708304800001 FI: 3.748	3.33
5	Title: Surface Modification of Biomedical MgCa4.5 and MgCa4.5Gd0.5 Alloys by Micro-Arc Oxidation, Author(s): Sakiewicz, P (Sakiewicz, Piotr); Piotrowski, K (Piotrowski, Krzysztof); Bajorek, A (Bajorek, Anna); Mlynarek, K (Mlynarek, Katarzyna); Babilas, R (Babilas, Rafal); Simka, W (Simka, Wojciech), Source: MATERIALS Volume: 14 Issue: 6 Article Number: 1360 DOI: 10.3390/ma14061360 Published: MAR 2021 Accession Number: WOS:000640033500001 FI: 3.748	3.33
9.	Panaghie C., Cimpoeșu R., Istrate B. , Cimpoeșu N., Bernevig M.-A., Zegan G., Roman A.-M., Chelariu R., Sodor A., New zn3mg-xy alloys: Characteristics, microstructural evolution and corrosion behavior (2021) Materials, 14 (10), art. no. 2505, DOI: 10.3390/ma14102505, WOS:000662653500001, FI (2021): 3.748	6.11
1	Title: Biodegradable Zn-Dy binary alloys with high strength, ductility, cytocompatibility, and antibacterial ability for bone-implant applications Author(s): Tong, X (Tong, Xian); Han, Y (Han, Yue); Zhou, RQ (Zhou, Runqi); Jiang, WY (Jiang, Wanying); Zhu, L (Zhu, Li); Li, YC (Li, Yuncang); Huang, SB (Huang, Shengbin); Ma, JF (Ma, Jianfeng); Wen, CE (Wen, Cuie); Lin, JX (Lin, Jixing), Source: ACTA BIOMATERIALIA Volume: 155 Pages: 684-702 DOI: 10.1016/j.actbio.2022.10.053 Early Access Date: DEC 2022 Published: JAN 1 2023, Accession Number: WOS:000925810900001, FI 10.633	3.33
2	Title: Comparison of corrosion behaviour of heat treated, ZrO2 and ZrN PVD coated AZ91D Mg alloy, Author(s): Kumaradhas, P (Kumaradhas, P.); Sivapragash, M (Sivapragash, M.), Source: MATERIALS TODAY-PROCEEDINGS Volume: 56 Pages:	0.56

	527-532 DOI: 10.1016/j.matpr.2022.02.181 Early Access Date: APR 2022 Part: 1 Published: 2022, Accession Number: WOS:000796933000005 FI:0	
3	Title: Surface Treatment of Zn-Mn-Mg Alloys by Micro-Arc Oxidation in Silicate-Based Solutions with Different NaF Concentrations, Author(s): Sun, SN (Sun, Shineng); Ye, G (Ye, Guo); Lu, ZT (Lu, Ziting); Weng, YM (Weng, Yuming); Ma, GF (Ma, Guofeng); Liu, JT (Liu, Jiatao), Source: MATERIALS Volume: 14 Issue: 15 Article Number: 4289 DOI: 10.3390/ma14154289 Published: AUG 2021, Accession Number: WOS:000682089700001, FI: 3.748	2.22
10.	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	13.32
1	Title: The Role of Mg Content and Aging Treatment on the Tensile and Fatigue Properties of Die-Cast 380 Alloy, Author(s): Samuel, AM (Samuel, Agnes M.); Zedan, Y (Zedan, Yasser); Elsharkawi, EA (Elsharkawi, Ehab A.); Abdelaziz, MH (Abdelaziz, Mohamed H.); Samuel, FH (Samuel, Fawzy H.), Source: MATERIALS Volume: 15 Issue: 24 Article Number: 8844 DOI: 10.3390/ma15248844 Published: DEC 2022 Accession Number: WOS:000902789500001, FI: 3.748	3.33
2	Effect of Ca and Zr Additions on Microstructure and Mechanical Properties of As-Extruded Mg-3Sn Alloy, Author(s): Jia, Z (Jia, Zheng); Yu, YZ (Yu, Yongzhi); Yu, B (Yu, Bing); Fu, L (Fu, Li); Hu, WY (Hu, Wenyi); Shao, YC (Shao, Yichuan), Source: MATERIALS Volume: 15 Issue: 18 Article Number: 6343 DOI: 10.3390/ma15186343 Published: SEP 2022, Accession Number: WOS:000856801100001, FI: 3.748	3.33
3	Title: Systems, Properties, Surface Modification and Applications of Biodegradable Magnesium-Based Alloys: A Review, Author(s): Chen, JX (Chen, Junxiu); Xu, Y (Xu, Yu); Kolawole, SK (Kolawole, Sharafadeen Kunle); Wang, JH (Wang, Jianhua); Su, XP (Su, Xuping); Tan, LL (Tan, Lili); Yang, K (Yang, Ke), Source: MATERIALS Volume: 15 Issue: 14 Article Number: 5031 DOI: 10.3390/ma15145031 Published: JUL 2022, Accession Number: WOS:000831678000001 FI: 3.748	3.33
4	Title: Influence of Surface Roughness on Biodegradability and Cytocompatibility of High-Purity Magnesium, Author(s): Chen, JH (Chen, Jiahao); Dai, JT (Dai, Jingtao); Qian, JY (Qian, Junyu); Li, WR (Li, Weirong); Li, RH (Li, Ronghui); Pang, D (Pang, Dong); Wan, GJ (Wan, Guojang); Li, P (Li, Ping); Xu, SL (Xu, Shulan), Source: MATERIALS Volume: 15 Issue: 11 Article Number: 3991 DOI: 10.3390/ma15113991 Published: JUN 2022, Accession Number: WOS:000808822900001 FI: 3.748	3.33
11.	Radu C.D., Verestiuc L., Ulea E., Lipsa F.D., Vulpe V., Munteanu C., Bulgariu L., Pasca S., Tamas C., Ciuntu B.M., Ciocan M., Sîrbu I., Gavrilas E., Macarel C.V., Istrate B. , Evaluation of keratin/bacterial cellulose based scaffolds as potential burned wound dressing (2021) Applied Sciences (Switzerland), 11 (5), art. no. 1995, pp. 1 – 17, DOI: 10.3390/app11051995, WOS:000627985900001, FI (2021): 2.838	5.65
1	Title: The fabrication and evaluation of silver nanoparticle-based keratin scaffolds, Author(s): Lei, TD (Lei, Tongda); Fan, J (Fan, Jie); Wang, YH (Wang, Yongheng); Cao, FY (Cao, Fuyuan); Yang, QQ (Yang, Qingqi); Tian, FM (Tian, Faming); Li, B (Li, Bo); Su, ZB (Su, Zhibo); Chen, RX (Chen, Rouxi); Liu, Y (Liu, Yong), Source: JOURNAL OF BIOMATERIALS APPLICATIONS Volume: 37 Issue: 6 Pages: 1071-1085 DOI: 10.1177/08853282221150685 Early Access Date: JAN 2023 Published: JAN 2023, Accession Number: WOS:000908088600001 FI: 2.712	1.33
2	Title: Cellulose-Based Composites as Scaffolds for Tissue Engineering: Recent Advances, Author(s): Iravani, S (Iravani, Siavash); Varma, RS (Varma, Rajender S. S.), Source: MOLECULES Volume: 27 Issue: 24 Article Number: 8830 DOI: 10.3390/molecules27248830 Published: DEC 2022, Accession Number: WOS:000902874300001 FI: 4.927	1.33
3	Title: 3D-Printed composite scaffolds based on poly(epsilon-caprolactone) filled with poly(glutamic acid)-modified cellulose nanocrystals for improved bone tissue regeneration, Author(s): Averianov, I (Averianov, Ilia); Stepanova, M (Stepanova, Mariia); Solomakha, O (Solomakha, Olga); Gofman, I (Gofman, Iosif); Serdobintsev, M (Serdobintsev, Mikhail); Blum, N (Blum, Natalya); Kaftuirev, A (Kaftuirev, Aleksander); Baulin, I (Baulin, Ivan); Nashchekina, J (Nashchekina, Juliya); Lavrentieva, A (Lavrentieva, Antonina); Vinogradova, T (Vinogradova, Tatiana); Korzhikov-Vlakh, V (Korzhikov-Vlakh, Viktor); Korzhikova-Vlakh, E (Korzhikova-Vlakh, Evgenia), Source: JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS Volume: 110 Issue: 11 Pages: 2422-2437 DOI:	1.33

	10.1002/jbm.b.35100 Early Access Date: MAY 2022 Published: NOV 2022, Accession Number: WOS:000805382100001 FI: 3.405	
4	Title: Recent trends in the development of smart bacterial cellulose wound dressings, Author(s): Rathinamoorthy, R (Rathinamoorthy, R.) Source: INDIAN JOURNAL OF FIBRE & TEXTILE RESEARCH Volume: 47 Issue: 1 Pages: 30-44 Published: MAR 2022, Accession Number: WOS:000771206000001 FI: 0.825	0.33
5	Title: Recent Advances on Bacterial Cellulose-Based Wound Management: Promises and Challenges, Author(s): Moradpoor, H (Moradpoor, Hedayat); Mohammadi, H (Mohammadi, Hossein); Safaei, M (Safaei, Mohsen); Mozaffari, HR (Mozaffari, Hamid Reza); Sharifi, R (Sharifi, Roohollah); Gorji, P (Gorji, Pourya); Sulong, A (Sulong, Abu Bakar); Muhamad, N (Muhamad, Norhamidi); Ebadi, M (Ebadi, Mona), Source: INTERNATIONAL JOURNAL OF POLYMER SCIENCE Volume: 2022 Article Number: 1214734 DOI: 10.1155/2022/1214734 Published: FEB 14 2022, Accession Number: WOS:000769775500001 FI: 2.973	1.33
	12.G.L. Pintilei, V.I. Crişmaru, 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	14.3
1	Title: Duplex and Composite Coatings: A Thematic Review on Thermal Spray Techniques and Applications, Author(s): Sathish, M (Sathish, M.); Radhika, N (Radhika, N.); Saleh, B (Saleh, Bassiouny), Source: METALS AND MATERIALS INTERNATIONAL DOI: 10.1007/s12540-022-01302-9 Early Access Date: OCT 2022, Accession Number: WOS:000862534100002 FI: 3.451	2.86
2	Title: Performance Evaluation and Thermal Shock Behavior of PS-PVD (Gd _{0.9} Yb _{0.1})(2)Zr ₂ O ₇ /YSZ Thermal Barrier Coatings, Author(s): Zhao, HX (Zhao, Hongxu); Zhang, XF (Zhang, Xiaofeng); Deng, CM (Deng, Chunming); Deng, ZQ (Deng, Ziqian); Chen, XL (Chen, Xiaolong), Source: COATINGS Volume: 12 Issue: 3 Article Number: 323 DOI: 10.3390/coatings12030323 Published: MAR 2022, Accession Number: WOS:000776979500001 FI: 3.236	2.86
3	Title: Aluminum borophosphate glaze-coated aluminum alloy substrate: Coating properties and coating/substrate coupling, Author(s): Franceschini, FG (Franceschini, Francieli Goncalves); Montedo, ORK (Klegues Montedo, Oscar Rubem); Arcaro, S (Arcaro, Sabrina); Bergmann, CP (Bergmann, Carlos Perez), Source: CERAMICS INTERNATIONAL Volume: 47 Issue: 2 Pages: 2050-2057 DOI: 10.1016/j.ceramint.2020.09.037 Published: JAN 15 2021, Accession Number: WOS:000597762500006, FI: 5.532	4.29
4	Title: Mechanical properties and thermal shock in thin ZrO ₂ -Y ₂ O ₃ -Al ₂ O ₃ films obtained by the sol-gel method, Author(s): Diaz-Parralejo, A (Diaz-Parralejo, Antonio); Diaz-Diez, MA (Diaz-Diez, M. Angeles); Sanchez-Gonzalez, J (Sanchez-Gonzalez, Jose); Macias-Garcia, A (Macias-Garcia, Antonio); Carrasco-Amador, JP (Pablo Carrasco-Amador, Juan), Source: CERAMICS INTERNATIONAL Volume: 47 Issue: 1 Pages: 80-86 DOI: 10.1016/j.ceramint.2020.08.109 Published: JAN 1 2021, Accession Number: WOS:000589647200006 FI: 5.532	4.29
	13.Sindilar E.-V., Munteanu C., Pasca S.A., Mihai I., Henea M.E., Istrate B. , Long term evaluation of biodegradation and biocompatibility in-vivo the mg-0.5ca-xzr alloys in rats, (2021) Crystals, 11 (1), art. no. 54, pp. 1 – 11, DOI: 10.3390/cryst11010054, WOS:000610149700001, autor corespondent FI (2021): 2.67	4.16
1	Title: Fabrication of Radio-Opaque and Macroporous Injectable Calcium Phosphate Cement, Author(s): Belaid, H (Belaid, Habib); Barou, C (Barou, Carole); Collart-Dutilleul, PY (Collart-Dutilleul, Pierre-Yves); Desoutter, A (Desoutter, Alban); Kajdan, M (Kajdan, Marilyn); Bernex, F (Bernex, Florence); Tetreau, R (Tetreau, Raphael); Cuisinier, F (Cuisinier, Frederic); Bares, J (Bares, Jonathan); Huon, V (Huon, Vincent); Teyssier, C (Teyssier, Catherine); Cornu, D (Cornu, David); Cavailles, V (Cavailles, Vincent); Bechelany, M (Bechelany, Mikhael), Source: ACS APPLIED BIO MATERIALS Volume: 5 Issue: 6 Pages: 3075-3085 DOI: 10.1021/acsabm.2c00345 Published: MAY 18 2022, Accession Number: WOS:000814176700001, FI 0.56	0.83
2	Title: The Formation of 14H-LPSO in Mg-9Gd-2Y-2Zn-0.5Zr Alloy during Heat Treatment, Author(s): Liu, YF (Liu, Yunfang); Yang, YQ (Yang, Yaqin); Yi, M (Yi, Ming); Yu, JM (Yu, Jianmin); Li, BC (Li, Baocheng); Zhang, ZM (Zhang, Zhimin), Source: MATERIALS Volume: 14 Issue: 19 Article Number: 5758 DOI: 10.3390/ma14195758 Published: OCT 2021, Accession Number: WOS:000708304800001 FI: 3.748	3.33

14.	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, 28 citări	48.88
1	Title: A Critical Appraisal of the Use and Properties of Nickel-Titanium Dental Alloys, Author(s): Mocnik, P (Mocnik, Petra); Kosec, T (Kosec, Tadeja) Source: MATERIALS Volume: 14 Issue: 24 Article Number: 7859 DOI: 10.3390/ma14247859 Published: DEC 2021 Accession Number: WOS:000738737100001 FI: 3.748	2.5
2	Improvement of binding friction between stainless steel orthodontic wire and bracket by performing Rh-PTFE composite plating on the wire, Koyama, A; Ono, T; Uo, M; Kiyokawa, H; Ohira, N; Shima, Y; Kanno, Z; ORTHODONTIC WAVES, Volume: 79 Issue: 1 Pages: 39-47, DOI: 10.1080/13440241.2020.1733180, WOS:000547447800005, FI (2019):0	0.63
3	Experimental Study on the Improvement of the Use of Diacrylic Composite Resins in Restorative Dentistry by Compensatory Techniques, Vasilescu, E; Docan, A; Vasilescu, VG; Popa, CL; Ionel, NC; Muntenita, C; MATERIALE PLASTICE, Volume: 56 Issue: 2 Pages: 378-381, 2019, WOS:000476641000016, FI (2019):1.517	1.88
4	Biochemical Interactions Between Polymeric Resins Used for Occlusal Splints and Saliva A pilot study comparing the CAD/CAM technology and the conventional approach, Melescanu-Imre, M; Pantea, M; Totan, A; Tancu, AMC; Greabu, M; Totan, C; Spinu, TC; MATERIALE PLASTICE, Volume: 56 Issue: 2 Pages: 409-412, 2019, WOS:000476641000023, FI (2019):1.517	1.88
5	General Treatment Principles in Alergies-Plastic Materials, Nechita, A; Mitrea, G; Raftu, G; Stefanescu, C; Anton, DM; Popa, G; Macovei, LA; MATERIALE PLASTICE, Volume: 56 Issue: 1 Pages: 220-223, 2019, WOS:000464604100044, FI(2019):1.517	1.88
6	Structural and Thermal Changes in Dental Resins Enriched with Silver Nanoparticles, Vitalariu, A; Tatarciuc, M.; Luca, O; Cioloca, CH; Bulancea, B; Aungurencei, A; Aungurencei, O; Raftu, G; Popa, DD; REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 591-595, 2019, WOS:000461982200047, FI(2019):1.755	1.88
7	Biochemical and Bioimpedance Correlation with Quality of Life and Illness Perception in Hemodialysis Patients, Donciu, MD; Florea, L; Mititiuc, LI; Popescu, ER; Chirita, R; REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 679-684, 2019, WOS:000461982200069, FI(2019):1.755	1.88
8	Evaluation of the Degree of Dental Anxiety in a Lot of Patients Altered in Young Adults, Raftu, G; Sin, EC; Caraiane, A; Bustiuc, SG; Briceag, R, REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 689-692, 2019, WOS:000461982200071, FI(2019):1.755	1.88
9	Applications of Factorial Analysis in the Study of Risk Factors and their Chemical Influence for Erosive Dental Wear, Chiriac, AM; Mercut, V; Alexandru, D; Popescu, SM; Mercut, R; Popescu, FD; Luchianenco, D; Resceanu, I; REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 693-699, 2019, WOS:000461982200072, FI(2019):1.755	1.88
10	Aesthetic Rehabilitation of the Teeth using Single Fixed Protheses, Caraiane, A; Toma, V; Raftu, G; Debita, M; Dimofte, AR; Iordache, C; REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 714-717, 2019, WOS:000461982200076, FI(2019):1.755	1.88
11	Study on the Behavior of Dental Alloy CoCrWNBMoV in Artificial Saliva, Alexandru, A; Cimpoesu, R; Melian, A; Salceanu, M, REVISTA DE CHIMIE, Volume: 70 Issue: 1 Pages: 165-168, 2019, WOS:000460428100036, FI(2019):1.755	1.88
12	Correlation of Glycemic and Lipid Control Parameters with Cognitive Dysfunction Scores, in Type 2 Diabetic Persons Results from a cross- sectional study, Botnariu, G; Popa, A; Mitrea, G; Manole, M; Pacura, M; Anghele, M; Curis, C; Teodorescu, E; REVISTA DE CHIMIE, Volume: 69 Issue: 12 Pages: 3486-3489, 2018, WOS:000458533800031, FI(2019):1.755	1.88
13	The Prevalence of Dental Midline Deviation in a Group of Orthodontic Patients, Anistoroaei, D; Zegan, G; Saveanu, IC; Sodor, A; Golovcencu, L; REVISTA DE CHIMIE; Volume: 69 Issue: 12 Pages: 3626-3629; WOS:000458533800056 2018, FI(2019):1.755	1.88
14	The Role of Chemical Factors in the Inflammation and Infection of Cervico-facial Actinomycosis, Nechita, A; Constantin, M; Budacu, C; Raftu, G; Popa, C; REVISTA DE CHIMIE; Volume: 69 Issue: 12 Pages: 3630-3633, 2018, WOS:000458533800063, FI(2019):1.755	1.88
15	The Efficiency and Degree of Penetrability of Frequent Washing Solutions Used in Endodontal Treatment, Iliescu, AA; Melian, A; Dan-Cristian, I; Stefanescu, C; Anton, DM; Popa, G; Salceanu, M; Iordache, C; Manole, M ; REVISTA DE CHIMIE, Volume: 69	1.88

	Issue: 12 Pages: 3717-3722, 2018, WOS:000458533800083, FI(2019):1.755	
16	Chemical Additives from the Composition of Plastic Products and Other Materials in Establishing Diagnosis for Allergy Disease, Raftu, G; Mitrea, G; Macovei, LA; Nechita, A, MATERIALE PLASTICE, Volume: 55 Issue: 4 Pages: 609-612, 2018, WOS:000454987400032, FI(2019):1.517	1.88
17	In vitro Study of the Structure and Adhesive Interface in Direct Restorations with Experimental Nanocomposite Materials and Adhesive Systems, Porumb, A; Almasi, A; Todor, L; Ratiu, CA; Ciavoi, G; Todor, PC; Todow, SA; Matei, MN; Romanec, C; Matei, RI; MATERIALE PLASTICE, Volume: 55 Issue: 4 Pages: 620-625, 2018, WOS:000454987400035, FI(2019):1.517	1.88
18	Relation of Polypharmacy to Systemic and Oral Health Related Factors, Bicheru, M; Preoteasa, CT; Zamfirescu, A; Capisizu, A; Imre, MM; Preoteasa, E; REVISTA DE CHIMIE, Volume: 69 Issue: 11 Pages: 4015-4017, 2018, WOS:000451931500033, FI(2019):1.755	1.88
19	The Use of Diacrylic Resins in Dental Restorations, Romanec, C; Stan, CI; Hinganu, MV; Scutariu, MM; Rosu, S; Hinganu, D; REVISTA DE CHIMIE, Volume: 69 Issue: 11 Pages: 4052-4054, 2018, WOS:000451931500040, FI(2019):1.755	1.88
20	THE INFLUENCE OF THE TECHNOLOGICAL PARAMETERS ON THE CHARACTERISTICS OF CAST DENTAL BRIDGES, Forna, N; Tatarciuc, M; Vitalariu, A; Baci, R; Popa, DD; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 4 Pages: 13-19, 2018, WOS:000453870200002, FI(2019): 0	0.63
21	INTERDISCIPLINARY APPROACH IN THE TREATMENT OF CONGENITALLY MISSING LATERAL INCISOR, Anistoroaei, D; Saveanu, CI; Golovcencu, L; Cernei, ER; Zegan, G; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 4 Pages: 71-77, 2018, WOS:000453870200010, FI(2019): 0	0.63
22	STUDY ON ELEVATION OF PARTIALLY REMOVABLE PROSTHESES IN SYSTEMIC CONTEXT IN GERIATRIC PATIENTS, Gradinaru, I; Hurjui, LL; Hurjui, I; Antohe, ME ; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 4 Pages: 114-122, 2018, WOS:000453870200017, FI(2019): 0	0.63
23	IMPRESSION IN EXTENDED PARTIALLY EDENTATION - IMPLICATIONS IN METHODS OF TRAINING FOR DENTAL TECHNICIANS, Antohe, ME; Andronache, M; Vasluianu, RI; Cretu, CI; Stamatin, O; Forna, NC; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 4 Pages: 143-148, 2018, WOS:000453870200021, FI(2019): 0	0.63
24	Nanoparticles Deposition on Mini-implants for Osseointegration and Antibacterial Properties Improvement, Zegan, G; Carausu, EM; Golovcencu, L; Botezatu, AS; Cernei, ER; Anistoroaei, D; REVISTA DE CHIMIE, Volume: 68 Issue: 12 Pages: 2929-2931, 2017 WOS:000423261900042, FI(2019):1.755	1.88
25	Effectiveness of Nickel-Titanium Endodontic Instruments on Smear Layer Removal from Radicular Dentin A Scanning Electron Microscopy Study, Monea, M; Biris, C; Bechir, ES; Suciu, N; Pop, AM; Olah, P; REVISTA DE CHIMIE, Volume: 68 Issue: 11 Pages: 2519-2522, 2017, WOS:000416751800010, FI(2019):1.755	1.88
26	The effect of pH, fluoride and tribocorrosion on the surface properties of dental archwires, Mocnik, P; Kosec, T; Kovac, J; Bizjak, M, MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, Volume: 78 Pages: 682-689, DOI: 10.1016/j.msec.2017.04.050, 2017, WOS:000404944700081, FI(2019): 5.88	3.75
27	Experimental Research on the Behaviour of the Alloy Ti10Zr in Simulated Oral Environment Vasilescu, VG; Patrascu, I; Cotrut, C; Vasilescu, E, REVISTA DE CHIMIE, Volume: 67 Issue: 2 Pages: 263-266, 2016, WOS:000372170700013, FI(2019):1.755	1.88
28	Influence of CeO ₂ Thickness Layer Deposited on the 945A Steel Substrate Concerning the Corrosion Process, Barca, ES; Trinca, LC; Filipescu, M; Dinescu, M; Plaiasu, AG; Abrudeanu, M; Leata, R, REVISTA DE CHIMIE, Volume: 67 Issue: 1 Pages: 177-181, 2016, WOS:000369524300040, FI(2019):1.755	1.88
15.	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(2019): 1.186, 14 citări	24.24
1	Oxidative Chemical Hybrid Formulations for Internal Bleaching of Endodontically Treated Teeth, Pascalau, D; Dudescu, MC; Merie, V; Pustan, M; Marinca, TF; Ionel, DC; Mesaros, AS;	2.14

	REVISTA DE CHIMIE, Volume: 69 Issue: 7 Pages: 1760-1765, 2018, WOS:000444595700034, FI(2019):1.755	
2	Implementation of Holographic Research in Periodontal Disease, Manole, M; Burde, AV; Milea, C; Neculescu, A; Ciocoiu, R; Trante, O; Sinescu, C; Mohan, A; Ducea, D; Ionel, DC; Baci, S; REVISTA DE CHIMIE, Volume: 69 Issue: 7 Pages: 1791-1795, 2018, WOS:000444595700039, FI(2019):1.755	2.14
3	Chemical Features of Bisphosphonates and Histopathological Outcomes in Rat Jaw Treated with Zoledronic Acid Combined with Dexamethasone, Stan, IAA; Petrovan, C; Cerghizan, D; Albu, DE; Craciun, AE; Copotioiu, C; REVISTA DE CHIMIE, Volume: 69 Issue: 7 Pages: 1802-1807, 2018, WOS:000444595700041, FI(2019):1.755	2.14
4	Risk Factors and the Mechanism of Induced Oral Cancer by the Chemical Substances, Stefanescu, OM; Dragomir, R; Ciurcanu, O; Budacu, CC, REVISTA DE CHIMIE, Volume: 69 Issue: 5 Pages: 1283-1287, 2018, WOS:000434954100054, FI(2019):1.755	2.14
5	Odontal and Protetic Reconstruction in Total Coronar Fractures, Caraiane, A; Raftu, G; Leata, R; Cerghizan, D; Macovei, LA; Focsaneanu, SC; Covaci, AM; Negraia, MR; Ilie, M; Dimofte, AR; Decusara, M; REVISTA DE CHIMIE, Volume: 69 Issue: 4 Pages: 1010-1013, 2018, WOS:000433223000054, FI(2019):1.755	2.14
6	Chemical Senses-Smell and Olfaction, Decusara, M; Caraiane, A; Macovei, LA; Ilie, M; Focsaneanu, SC; Covaci, AM; Negraia, MR; Raftu, G, REVISTA DE CHIMIE, Volume: 69 Issue: 4 Pages: 1034-1036, 2018, WOS:000433223000060, FI(2019):1.755	2.14
7	The Efficuency of Cream Adhesives for Prosthesis Evaluated by the Wearer of Acrylic Total Prosthesis, Caraiane, A; Raftu, G; Sin, EC; Bustiuc, SG, REVISTA DE CHIMIE, Volume: 69 Issue: 3 Pages: 725-727, 2018, WOS:000430946500042, FI(2019):1.755	2.14
8	Studies Regarding the Architectural Design of Various Composites and Nanofibres Used in Dental Medicine, Gradinaru, I; Ignat, L; Dascalu, CG; Soroaga, LV; Antohe, ME, REVISTA DE CHIMIE, Volume: 69 Issue: 2 Pages: 328-331, 2018, WOS:000427327700009, FI(2019):1.755	2.14
9	The Effect of Heat Treatment and Corrosion Behavior of AISI420, Minciuna, MG; Achitei, DC; Vizureanu, P; Benchea, M; Sandu, AV, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012039, DOI: 10.1088/1757-899X/374/1/012039, 2018, WOS:000446775900039, FI(2019):0	0.71
10	Effectiveness of Various Gingival Sulcus Widening Materials, Cerghizan, D; Tirca, T; Bumbescu, IG; Scutariu, MM; Caraiane, A, REVISTA DE CHIMIE, Volume: 69 Issue: 1 Pages: 271-276, 2018, WOS:000425369600055, FI(2019):1.755	2.14
11	Studies on Adhesion of Composite Resins and Glass-Ionomer Cements in Open-Sandwich Technique, Ghiorghe, CA; Iovan, G; Andrian, S; Nica, I; Topoliceanu, C; Pancu, G, REVISTA DE CHIMIE, Volume: 68 Issue: 8 Pages: 1890-1894, 2017, WOS:000410388000044, FI(2019):1.755	2.14
12	Surface Topographical Modification of Coronary Stent: A Review, Tan, CH; Muhamad, N; Abdullah, MMAB, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: UNSP 012031, DOI: 10.1088/1757-899X/209/1/012031, 2017, WOS:000423732100031, FI(2019):0	0.71
13	Morpho-Structural Characterization of WC20Co Deposited Layers, Tugui, CA; Vizureanu, P, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012020, DOI: 10.1088/1757-899X/209/1/012020, 2017, WOS:000423732100020, FI(2019):0	0.71
14	Behavior of Al-Mg Alloy Subjected To Thermal Processing, Achitei, DC; Minciuna, MM; Sandu, AV; Abdullah, MMA, Book Series: AIP Conference Proceedings, Volume: 1835, Article Number: UNSP 020051, DOI: 10.1063/1.4983791, 2017, WOS:000405780000051, FI(2019):0	0.71
16.	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, 12 citări	28.33
1	General and Particular Structural Characteristics of Acetylsalicylic Acid - Aspirine Chemical properties, Topor, G; Nechita, A; Debita, M; Ciupilan, C; Axente, ER, REVISTA DE CHIMIE, Volume: 70 Issue: 1 Pages: 248-253, 2019, WOS:000460428100055, FI(2019):1.755	2.5
2	Bioadhesives Used in Cardiovascular Surgery, Moldovan, H; Gheorghita, D; Antoniac, I;	2.5

	Gheorghe, D; Fiori, F; Mohan, A; Raftu, G; Ionel, C; Costache, V, REVISTA DE CHIMIE, Volume: 69 Issue: 10 Pages: 2799-2803, 2018, WOS:000451925300039, FI(2019):1.755	
3	Dental Inclusion of Canine and Wisdom Tooth in Orthodontics Chemical Necroses, Budacu, CC; Ioanid, N; Romanec, C; Balan, M; Pavel, LL; Pacurar, M; Rosu, S, REVISTA DE CHIMIE, Volume: 69 Issue: 8 Pages: 2191-2196, 2018, WOS:000444602300051, FI(2019):1.755	2.5
4	Soil Chemical Pollution and Aggressive Pathologies, Morariu, SI; Duceac, LD; Luca, AC; Popescu, F; Pavel, L; Gavrilescu, CM, REVISTA DE CHIMIE, Volume: 69 Issue: 8 Pages: 2278-2282, 2018, WOS:000444602300069, FI(2019):1.755	2.5
5	The Chemical Effect in Medicine Interaction Determining the Form and Speed of Psychical Involution in the Prosthetic Restauration in the Edentulous, Caraiane, A; Leata, R; Toba, V; Vesa, D; Macovei, LA; Dan, CI; Pavel, L, REVISTA DE CHIMIE, Volume: 69 Issue: 8 Pages: 2306-2310, 2018, WOS:000444602300076, FI(2019):1.755	2.5
6	THE ROLE OF CLINICAL STAGES IN MAKING EFFICIENT THE THERAPEUTIC MANAGEMENT IN PARTIAL EDENTATION, Diana, B; Forna, DA; Cristina, I; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 3 Pages: 125-132, 2018, WOS:000444858500015, FI(2019):0	0.83
7	Oxidative Chemical Hybrid Formulations for Internal Bleaching of Endodontically Treated Teeth, Pascalau, D; Dudescu, MC; Merie, V; Pustan, M; Marinca, TF; Ionel, DC; Mesaros, AS, REVISTA DE CHIMIE, Volume: 69 Issue: 7 Pages: 1760-1765, 2018, WOS:000444595700034, FI(2019):1.755	2.5
8	Odontal and Protetic Reconstruction in Total Coronar Fractures, Caraiane, A; Raftu, G; Leata, R; Cerghizan, D; Macovei, LA; Focsaneanu, SC; Covaci, AM; Negraia, MR; Ilie, M; Dimofte, AR, REVISTA DE CHIMIE, Volume: 69 Issue: 4 Pages: 1010-1013, 2018, WOS:000433223000054, FI(2019):1.755	2.5
9	Chemical Senses-Smell and Olfaction, Decusara, M; Caraiane, A; Macovei, LA; Ilie, M; Focsaneanu, SC; Covaci, AM; Negraia, MR; Raftu, G, REVISTA DE CHIMIE, Volume: 69 Issue: 4 Pages: 1034-1036, 2018, WOS:000433223000060, FI(2019):1.755	2.5
10	The Efficuency of Cream Adhesives for Prosthesis Evaluated by the Wearer of Acrylic Total Prosthesis, Caraiane, A; Raftu, G; Sin, EC; Bustiuc, SG, REVISTA DE CHIMIE, Volume: 69 Issue: 3 Pages: 725-727, 2018, WOS:000430946500042, FI(2019):1.755	2.5
11	Studies Regarding the Architectural Design of Various Composites and Nanofibres Used in Dental Medicine, Gradinaru, I; Ignat, L; Dascalu, CG; Soroaga, LV; Antohe, ME, REVISTA DE CHIMIE, Volume: 69 Issue: 2 Pages: 328-331, 2018, WOS:000427327700009, FI(2019):1.755	2.5
12	Effectiveness of Various Gingival Sulcus Widening Materials, Cerghizan, D; Tirca, T; Bumbescu, IG; Scutariu, MM; Caraiane, A, REVISTA DE CHIMIE, Volume: 69 Issue: 1 Pages: 271-276, 2018, WOS:000425369600055, FI(2019):1.755	2.5
17.	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, 5 citări	15.56
1	Title: Biodegradable metals for bone defect repair: A systematic review and meta-analysis based on animal studies Author(s): Zhang, JZ (Zhang, Jiazhen); Jiang, YB (Jiang, Yanbiao); Shang, ZZ (Shang, Zhizhong); Zhao, B (Zhao, Bing); Jiao, MY (Jiao, Mingyue); Liu, WB (Liu, Wenbo); Cheng, MB (Cheng, Maobo); Zhai, B (Zhai, Bao); Guo, YJ (Guo, Yajuan); Liu, B (Liu, Bin); Shi, XL (Shi, Xinli); Ma, B (Ma, Bin), Source: BIOACTIVE MATERIALS Volume: 6 Issue: 11 Pages: 4027-4052 DOI: 10.1016/j.bioactmat.2021.03.035 Published: NOV 2021 , Accession Number: WOS:000685107200027, FI 16.874	3.33
2	Title: In vitro and in vivo degradation assessment and preventive measures of biodegradable Mg alloys for biomedical applications, Author(s): Jana, A (Jana, Anuradha); Das, M (Das, Mitun); Balla, VK (Balla, Vamsi Krishna), Source: JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A DOI: 10.1002/jbm.a.37297 Early Access Date: AUG 2021, Accession Number: WOS:000686924100001, FI: 4.854	2.22
3	Title: Enhanced Corrosion Resistance and In Vitro Biocompatibility of Mg-Zn Alloys by Carbonate Apatite Coating, Author(s): Pham, DN (Dinh Ngoc Pham); Hiromoto, S (Hiromoto, Sachiko); Yamazaki, T (Yamazaki, Tomohiko); Minho, O (Minho, O.); Kobayashi, E (Kobayashi, Equo) Source: ACS APPLIED BIO MATERIALS Volume: 4 Issue: 9 Pages: 6881-6892 DOI:	1.11

	10.1021/acsabm.1c00594 Early Access Date: AUG 2021 Published: SEP 20 2021, Accession Number: WOS:000699828900027, FI: 0.56	
4	Title: Biodegradable Nanostructured Composites for Surgery and Regenerative Medicine, Author(s): Demina, VA (Demina, V. A.); Sedush, NG (Sedush, N. G.); Goncharov, EN (Goncharov, E. N.); Krasheninnikov, SV (Krasheninnikov, S. V.); Krupnin, AE (Krupnin, A. E.); Goncharov, NG (Goncharov, N. G.); Chvalun, SN (Chvalun, S. N.), Source: NANOBIO TECHNOLOGY REPORTS Volume: 16 Issue: 1 Pages: 2-18 DOI: 10.1134/S2635167621010043 Published: JAN 2021, Accession Number: WOS:000669996800002, FI:0	0.56
5	Biodegradable Magnesium Alloys as Promising Materials for Medical Applications (Review), Kiselevsky, MV; Anisimova, NY; Polotsky, BE; Martynenko, NS; Lukyanova, EA; Sitdikova, SM; Dobatkin, SV; Estrin, YZ, SOVREMENNYE TEHNOLOGII V MEDICINE, Volume: 11 Issue: 3 Pages: 146-155, DOI: 10.17691/stm2019.11.3.18, 2019, WOS:000488303800018, FI(2019):0	0.56
6	Magnesium-based biodegradable alloys: Degradation, application, and alloying elements, Pogorielov, M; Husak, E; Solodivnik, A; Zhdanov, S; INTERVENTIONAL MEDICINE AND APPLIED SCIENCE, Volume: 9 Issue: 1 Pages: 27-38, DOI: 10.1556/1646.9.2017.04, 2017, WOS:000397578400005, FI(2019):0	0.56
7	Monitoring degradation products and metal ions in vivo, Paramitha, D; Ulum, MF; Purnama, A; Wicaksono, DHB; Noviana, D; Hermawan, H, MONITORING AND EVALUATION OF BIOMATERIALS AND THEIR PERFORMANCE IN VIVO, Book Series: Woodhead Publishing Series in Biomaterials, Pages: 19-44, DOI: 10.1016/B978-0-08-100603-0.00002-X, WOS:000413460300002, 2017, FI(2019):0	0.56
8	The formation of FHA coating on biodegradable Mg-Zn-Zr alloy using a two-step chemical treatment method, Jiang, ST; Zhang, J; Shun, SZ; Chen, MF, APPLIED SURFACE SCIENCE, Volume: 388 Pages: 424-430 Part: A, DOI: 10.1016/j.apsusc.2015.12.087, 2016, WOS:000384573100062, FI(2019):6.182	3.33
9	High throughput corrosion screening of Mg-Zn combinatorial material libraries, Kotoka, R; Konchady, M; Ramakrishnan, G; Yarmolenko, S; Pai, D; Sankar, J, MATERIALS & DESIGN, Volume: 108 Pages: 42-50, DOI: 10.1016/j.matdes.2016.06.078, 2016, WOS:000382793200007, FI(2019):6.289	3.33
18.	V. Popescu, I. Sandu, E.I. Mureșan, 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, 2 citări	10
1	Effect of high-pressure microfluidization treatment on the physicochemical properties and antioxidant activities of polysaccharide from Mesona chinensis Benth, Huang, LX; Shen, MY; Zhang, XW; Jiang, L; Song, QQ; Xie, JH, CARBOHYDRATE POLYMERS, Volume: 200 Pages: 191-199, DOI: 10.1016/j.carbpol.2018.07.087, 2018, WOS:000443264400023, FI(2019): 7.182	6
2	Functionalization and characterization of cotton with phase change materials and thyme oil encapsulated in beta-cyclodextrins, Scacchetti, FAP; Pinto, E; Soares, GMB, PROGRESS IN ORGANIC COATINGS, Volume: 107 Pages: 64-74, DOI: 10.1016/j.porgcoat.2017.03.015, 2017, WOS:000401216900010, FI(2019): 4.469	4
19.	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, 4 citări	4.99
1	Experimental Study on the Influence of Zirconia Surface Preparation on Deposition of Hydroxyapatite, Focsaneanu, SC; Vizureanu, P; Sandu, AV; Ciobanu, G; Baltatu, SM; Vlad, D, REVISTA DE CHIMIE, Volume: 70 Issue: 6 Pages: 2273-2275, 2019, WOS:000475860100081, FI(2019): 1.755	2.5
2	Preliminary Tests for Ti-Mo-Zr-Ta Alloys as Potential Biomaterials, Baltatu, MS; Vizureanu, P; Balan, T; Lohan, M; Tugui, CA, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012023, DOI: 10.1088/1757-899X/374/1/012023, 2018, WOS:000446775900023, FI(2019): 0	0.83
3	Melt Electrospinning - Characteristics, Application Areas and Perspectives, Manea, LR; Berteau, A; Popa, A; Berteau, AP, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: 012063, DOI: 10.1088/1757-899X/374/1/012063, 2018, WOS:000446775900063, FI(2019): 0	0.83
4	Obtaining and Mechanical Properties of Ti-Mo-Zr-Ta Alloys, Baltatu, MS; Vizureanu, P; Geanta, V; Nejneru, C; Tugui, CA; Focsaneanu, SC, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012019, DOI:	0.83

	10.1088/1757-899X/209/1/012019, WOS:000423732100019, FI(2019): 0	
20.	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, 3 citări	32
1	Bioresorbable metals in cardiovascular stents: Material insights and progress, Toong, DWY; Ng, JCK; Huang, YY; Wong, PEH; Leo, HL; Venkatraman, SS; Ang, HY; MATERIALIA, Volume: 12, Article Number: 100727, DOI: 10.1016/j.mtla.2020.100727, 2020, WOS:000559331000010, FI(2019): 0	1
2	Manufacturing of Mg-Ti Couples at Different Heat Treatment Temperatures and Their Corrosion Behavior in Chloride Solutions, Sherif, EM; AlHaza, AN; Abdo, HS; MATERIALS; Volume: 12 Issue: 8, Article Number: 1300, DOI: 10.3390/ma12081300, 2019, WOS:000467767400106, FI(2019): 3.057	4
3	Study on the Behavior of Dental Alloy CoCrWNBMoV in Artificial Saliva, Alexandru, A; Cimpoesu, R; Melian, A; Salceanu, M, REVISTA DE CHIMIE, Volume: 70 Issue: 1 Pages: 165-168, 2019, WOS:000460428100036, FI(2019): 1.755	3
4	Title: On the Possible Cause of Sudden Storage Modulus Increase during the Heating of PM FeMnSiCrNi SMAs Author(s): Pricop, B (Pricop, Bogdan); Grigoras, M (Grigoras, Marian); Borza, F (Borza, Firuta); Ozkal, B (Ozkal, Burak); Bujoreanu, LG (Bujoreanu, Leandru-Gheorghe)Source: NANOMATERIALS Volume: 12 Issue: 14 Article Number: 2342 DOI: 10.3390/nano12142342 Published: JUL 2022 Accession Number: WOS:000831806100001 FI: 5.719	6
5	Title: Biodegradable Iron and Porous Iron: Mechanical Properties, Degradation Behaviour, Manufacturing Routes and Biomedical Applications Author(s): Salama, M (Salama, Mariana); Vaz, MF (Vaz, Maria Fatima); Colaco, R (Colaco, Rogerio); Santos, C (Santos, Catarina); Carmezim, M (Carmezim, Maria), Source: JOURNAL OF FUNCTIONAL BIOMATERIALS Volume: 13 Issue: 2 Article Number: 72 DOI: 10.3390/jfb13020072 Published: JUN 2022, Accession Number: WOS:000818517600001 FI: 4.901	4
6	Title: Biodegradable shape memory alloys: Progress and prospects Author(s): Wang, Y (Wang, Yuan); Venezuela, J (Venezuela, Jeffrey); Dargusch, M (Dargusch, Matthew) Source: BIOMATERIALS Volume: 279 Article Number: 121215 DOI: 10.1016/j.biomaterials.2021.121215 Early Access Date: NOV 2021 Published: DEC 2021 Accession Number: WOS:000719372900001 FI: 15.304	6
7	Title: Effect of silver additions on the microstructure, mechanical properties and corrosion behavior of biodegradable Fe-30Mn-6Si Author(s): Babacan, N (Babacan, N.); Kochta, F (Kochta, F.); Hoffmann, V (Hoffmann, V); Gemming, T (Gemming, T.); Kuhn, U (Kuehn, U.); Giebler, L (Giebler, L.); Gebert, A (Gebert, A.); Hufenbach, J (Hufenbach, J.) Source: MATERIALS TODAY COMMUNICATIONS Volume: 28 Article Number: 102689 DOI: 10.1016/j.mtcomm.2021.102689 Early Access Date: AUG 2021 Published: SEP 2021 Accession Number: WOS:000697029500003 FI: 0.64	2
8	Title: Evaluation of in vitro corrosion resistance and in vivo osseointegration properties of a FeMnSiCa alloy as potential degradable implant biomaterial Author(s): Trinca, LC (Trinca, Lucia Carmen); Burtan, L (Burtan, Liviu); Mareci, D (Mareci, Daniel); Fernandez-Perez, BM (Fernandez-Perez, Bibiana M.); Stoleriu, I (Stoleriu, Iulian); Stanciu, T (Stanciu, Teodor); Stanciu, S (Stanciu, Sergiu); Solcan, C (Solcan, Carmen); Izquierdo, J (Izquierdo, Javier); Souto, RM (Souto, Ricardo M.) Source: MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS Volume: 118 Article Number: 111436 DOI: 10.1016/j.msec.2020.111436 Published: JAN 2021 Accession Number: WOS:000600853200004 FI: 8.457	6
21.	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, 3 citări	4.16
1	Biocompatible Titanium Alloys used in Medical Applications, Baltatu, MS; Tugui, CA; Perju, MC; Benchea, M; Spataru, MC; Sandu, AV; Vizureanu, P, REVISTA DE CHIMIE, Volume: 70 Issue: 4 Pages: 1302-1306, 2019, WOS:000469387200039, FI(2019): 1.755	2.5
2	Melt Electrospinning - Characteristics, Application Areas and Perspectives, Manea, LR; Berteau, A; Popa, A; Berteau, AP, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: 012063, DOI: 10.1088/1757-899X/374/1/012063, 2018, WOS:000446775900063, FI(2019): 0	0.83
3	Electrospun Membranes for Environmental Protection, Manea, LR; Berteau, A; Popa, A; Berteau, AP, Book Series: IOP Conference Series-Materials Science and Engineering,	0.83

	Volume: 374, Article Number: UNSP 012081, DOI: 10.1088/1757-899X/374/1/012081, 2018, WOS:000446775900081, FI(2019): 0	
22.	G.L. Pintilei , V.I. Crişmaru, 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, 4 citări	10
1	Structural and Morphological Characteristics of Hybrid Nanomaterials Type Ascorbic Acid-hydrotalcite Used for Stimulating Salivary Secretion, Zegan, G; Golovcencu, L; Cernei, ER; Carausu, EM; Anistoroaei, D; REVISTA DE CHIMIE, Volume: 69 Issue: 5 Pages: 1244-1246, 2018, WOS:000434954100044, FI(2019): 1.755	2.5
2	ZnO and TiO ₂ Nanoparticles Genotoxicity According to their Structural and Morphological Characteristics Used for Medical Purposes, Glod, M; Damir, D; Nichitus, S; Calin, G; Duceac, LD; Gorgan, DL; Tascu, S; Cuihodaru, MI; REVISTA DE CHIMIE, Volume: 69 Issue: 3 Pages: 609-611; 2018, WOS:000430946500016, FI(2019): 1.755	2.5
3	Finite Element Method Application for the Determination of Hardness for Magnesium Alloys, Sliwa, A; Sroka, M; Bloch, K; Sandu, IG; Abdullah, MMA; Sandu, AV; REVISTA DE CHIMIE, Volume: 69 Issue: 2 Pages: 324-327, 2018, WOS:000427327700008, FI(2019): 1.755	2.5
4	Structural Analysis of Carabiners Materials Used at Personal Protective Equipments, Burduhos-Nergis, DP; Nejneru, C; Achitei, DC; Cimpoesu, N; Bejinariu, C, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: 012040, DOI: 10.1088/1757-899X/374/1/012040, 2018, WOS:000446775900040, FI(2019): 0	0.83
5	Title: PARTICULARITIES OF SYNTHETIC WOOD - A BIOMATERIAL WITH RECYCLED WASTE, Author(s): Lepadatu, D (Lepadatu, Daniel); Isopescu, D (Isopescu, Dorina); Judele, L (Judele, Loredana); Cucos, I (Cucos, Iulian); Antonescu, I (Antonescu, Ion); Alecu, IC (Alecu, Ionel-Ciprian), Source: ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 20 Issue: 4 Pages: 585-592 Published: APR 2021, Accession Number: WOS:000637747700010, FI:0.88	1.67
23.	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, 5 citări	12.5
1	Influence of Nanostructuration on the Sound Velocity in Aluminum Al 99.50, Cazac, AM; Alexandru, A; Baci, C; Sandu, AV; Bejinariu, C, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012038, DOI: 10.1088/1757-899X/374/1/012038, 2018, WOS:000446775900038, FI(2019): 0	0.83
2	Melt Electrospinning - Characteristics, Application Areas and Perspectives; Berteau, A; Popa, A; Berteau, AP, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: 012063, DOI: 10.1088/1757-899X/374/1/012063, 2018, WOS:000446775900063, FI(2019): 0	0.83
3	Influence of surface pretreatment on the coating quantity and properties of nanostructured octacalcium phosphate on commercially pure titanium, Suwanprateeb, J; Thammarakcharoen, F, INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, Volume: 24 Issue: 5 Pages: 351-361, 2017, WOS:000424965700004, FI(2019): 0.521	1.67
4	Vibration damping behavior and surface characterization of magneto-mechanical powder coated AISI304 stainless steel, Pakkirappa, H; Mahesha, K; Sachidananda, KB, SURFACE & COATINGS TECHNOLOGY, Volume: 324 Pages: 382-389, DOI: 10.1016/j.surfcoat.2017.06.005, 2017, WOS:000406988200044 FI(2019):3.784	3.33
5	Analyse of Ti-based Alloy for Medical Instruments after Chemical, Mechanical and Physical Processing, Burlea, SL; Leata, R; Agop, M; Cimpoesu, N; REVISTA DE CHIMIE, Volume: 67 Issue: 2 Pages: 260-262, 2016, WOS:000372170700012, FI(2019): 1.755	2.5
6	Title: COMPARATIVE ROLLING CONTACT BEHAVIOR OF TWO APS COATINGS WITH DIFFERENT MATRIX, Author(s): Chicet, D (Chicet, D.); Toma, S (Toma, S.); Haraga, R (Haraga, R.); Bejinariu, C (Bejinariu, C.), Source: ARCHIVES OF METALLURGY AND MATERIALS Volume: 67 Issue: 3 Pages: 869-878 DOI: 10.24425/amm.2022.139677 Published: 2022, Accession Number: WOS:000849223500008, FI: 0.633	1.67
7	Title: PARTICULARITIES OF SYNTHETIC WOOD - A BIOMATERIAL WITH RECYCLED WASTE, Author(s): Lepadatu, D (Lepadatu, Daniel); Isopescu, D	1.67

	(Isopescu, Dorina); Judele, L (Judele, Loredana); Cucos, I (Cucos, Iulian); Antonescu, I (Antonescu, Ion); Alecu, IC (Alecu, Ionel-Ciprian), Source: ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL Volume: 20 Issue: 4 Pages: 585-592 Published: APR 2021, Accession Number: WOS:000637747700010 FI: 0.858	
24.	B. Istrate , C. Munteanu, S. Lupescu, M. Benchea, P. Vizureanu, Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr ₃ C ₂ -NiCr Coatings on Magnesium Substrate, IOP Conference Series-Materials Science and Engineering, Volume: 209, 012024, DOI: 10.1088/1757-899X/209/1/012024, 2017, FI(2019):0, 2 citări	5
1	Nanocrystalline Cermet Coatings for Erosion-Corrosion Protection, By:Tiware, A, Seman, S, Singh, G, Jayaganthan, R, COATINGS, Volume: 9 Issue: 6, Article Number: 400, DOI: 10.3390/coatings9060400, 2019, FI(2019):2.436	4
2	Electrospun Membranes for Environmental Protection, By:Manea, LR, Berteau, A, Popa, A, Berteau, AP, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012081, DOI: 10.1088/1757-899X/374/1/012081, 2018, FI(2019):0	1
25.	D. Mareci, G. Bolat, B. Istrate , C. Munteanu, A. Cailean, Effect of thermal oxidation on electrochemical corrosion behaviour of ZrTi alloys for dental applications, MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, Volume: 66 Issue: 12 Pages: 1529-1535, DOI: 10.1002/maco.201508327, 2015, FI(2019): 1.533, 2 citări	4
1	Corrosion and wear properties of biomedical Ti-Zr-based alloys, By:Zhang, JJ, Wang, HF, Yang, SY, Xing, XG, Shu, XF, Jin, XM, MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, Volume: 69 Issue: 12 Pages: 1703-1712, DOI: 10.1002/maco.201810278, 2018, FI(2019):1.533	3
2	Synthesis and Characterization of TiO ₂ /SiO ₂ Thin Film via Sol-Gel Method, By:Halin, DSC, Abdullah, MMAB, Mahmed, N, Malek, SNAA, Vizureanu, P, Azhari, AW, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012002, DOI: 10.1088/1757-899X/209/1/012002, 2017, FI (2019): 0	1
26.	E.S. Barca, A.G. Plaiasu, 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, Volume: 17 Issue: 9-10 Pages: 1522-1527, 2015, WOS:000364600400046, FI(2019): 0.631, 3 citări	2.49
1	Aluminum Coating Influence on Nitride Layer Performance Deposited by MO-CVD in Fluidized Bed on Austenitic Stainless Steel Substrate, By:Galusca, DG, Perju, MC, Nejneru, C, Burduhos-Nergis, DD, Lazarescu, IE, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012020, DOI: 10.1088/1757-899X/374/1/012020, 2018, FI (2019): 0	0.83
2	The Analysis of an Internal Combustion Engine Breakdown Case Study, By:Agape, I, Gaiginschi, L, Ianus, G, Cimpoesu, N, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012077, DOI: 10.1088/1757-899X/209/1/012077, 2017, FI (2019): 0	0.83
3	Corrosion Evaluation of Some Phosphated Thin Layers on Reinforcing Steel, By:Lazar, P, Bejinariu, C, Sandu, AV, Cazac, AM, Corbu, O, Sandu, IG, Perju, MC, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012025, DOI: 10.1088/1757-899X/209/1/012025, 2017, FI (2019): 0	0.83
27.	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, Vol. 17 Is. 7-8, 1186-1192, 2015, WOS:000359967600044, FI(2019): 0.631, 3 citări	2.13
1	High-temperature Sulfidation and Oxidation Behavior of Plasma-sprayed Al-Mo Coatings, By:Wu, LM, Wang, WZ, Yu, JY, Huang, JB, Li, CX, RARE METAL MATERIALS AND ENGINEERING, Volume: 47 Issue: 12 Pages: 3610-3615, Published: DEC 2018, FI(2019): 0.485	0.71
2	Preliminary Tests for Ti-Mo-Zr-Ta Alloys as Potential Biomaterials, By:Baltatu, MS, Vizureanu, P, Balan, T, Lohan, M, Tugui, CA, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012023, DOI: 10.1088/1757-899X/374/1/012023, 2018, FI (2019): 0	0.71
3	In-Situ Plasma Monitoring during the Pulsed Laser Deposition of Ni ₆₀ Ti ₄₀ Thin Films, Cimpoesu, N; Gurlui, S; Bulai, G; Cimpoesu, R; Paun, VP; Irimiciuc, SA; Agop, M, SYMMETRY-BASEL, Volume: 12 Issue: 1, Article Number: 109, DOI: 10.3390/sym12010109, Published: JAN 2020, FI (2019): 0	0.71
28.	T. Roman, R.L. Asavei, N.E. Karkalos, C. Roman, C. Virvan, N. Cimpoesu, B. Istrate , M. Zaharia, A.P. Markopoulos, K. Kordatos, S. Stanciu, A. Pui, Synthesis and adsorption	15.44

	properties of nanocrystalline ferrites for kinetic modeling development, INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, Volume: 16 Issue: 2 Pages: 693-705, DOI: 10.1111/ijac.13091, 2019 FI(2019): 1.762, 3 citări	
1	Fabrication of Magnesium Ferrites for Enormous Adsorbance of Neutral Red and Their Electrochemical Properties, Liu, M; Li, Y; Wang, Z; Liu, RJ, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, Volume: 20 Issue: 12 Pages: 7601-7609, DOI: 10.1166/jnn.2020.18711, Published: DEC 2020, FI (2019): 1.134	1.25
2	Structural and magnetic features of Ce doped Co-Cu-Zn spinel nanoferrites prepared using sol gel self-ignition method, Qamar, S; Akhtar, MN; Batoo, KM; Raslan, EH, CERAMICS INTERNATIONAL, Volume: 46 Issue: 10 Pages: 14481-14487 Part: A, DOI: 10.1016/j.ceramint.2020.02.246, Published: JUL 2020, FI(2019): 3.83	1.67
3	Adsorption mechanism and electrochemical performance of methyl blue onto magnetic Ni(1-x-y)Co _{0.5} Zn _{0.5} Fe ₂ O ₄ nanoparticles prepared via the rapid-combustion process, Li, Y; Pan, S; Yu, QM; Ding, X; Liu, RJ, CERAMICS INTERNATIONAL, Volume: 46 Issue: 3 Pages: 3614-3622, DOI: 10.1016/j.ceramint.2019.10.080, Published: FEB 15 2020, FI(2019): 3.83	1.67
4	Title: Microstructural, thermal, electrical and magnetic analysis of Mg(2+)substituted Cobalt ferrite, Author(s): Mercy, SJ (Mercy, Shaik Jesus); Murali, N (Murali, N.); Ramakrishna, A (Ramakrishna, A.); Ramakrishna, Y (Ramakrishna, Y.); Veeraiah, V (Veeraiah, V.); Samatha, K (Samatha, K.), Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 126 Issue: 11 Article Number: 873 DOI: 10.1007/s00339-020-04048-6 Published: OCT 19 2020, Accession Number: WOS:000579032500001 FI: 2.983	1.67
5	Title: Magnetic and DC Electrical Properties of Cu Doped Co-Zn Nanoferrites, Author(s): Himakar, P (Himakar, P.); Murali, N (Murali, N.); Parajuli, D (Parajuli, D.); Veeraiah, V (Veeraiah, V.); Samatha, K (Samatha, K.); Mammo, TW (Mammo, Tulu Wegayehu); Khalid, MB (Khalid, Mufasam Batoo); Muhammad, H (Muhammad, Hadi); Emad, HR (Emad, H. Raslan); Adil, SF (Adil, Syed Farooq), Source: JOURNAL OF ELECTRONIC MATERIALS Volume: 50 Issue: 6 Special Issue: SI Pages: 3249-3257 DOI: 10.1007/s11664-021-08760-8 Early Access Date: MAR 2021 Published: JUN 2021, Accession Number: WOS:000625617700002 FI: 2.047	1.67
6	Title: Correlation between the structural, magnetic, and dc resistivity properties of Co _{0.5} M _{0.5} -xCo _x Fe ₂ O ₄ (M = Mg, and Zn) nano ferrites Author(s): Parajuli, D (Parajuli, D.); Tadesse, P (Tadesse, Paulos); Murali, N (Murali, N.); Samatha, K (Samatha, K.), Source: APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Volume: 128 Issue: 1 Article Number: 58 DOI: 10.1007/s00339-021-05211-3 Published: JAN 2022, Accession Number: WOS:000733915300007 FI: 2.983	1.67
7	Title: Corrosion Behaviour of Nodular Cast Iron Used for Rotor Manufacturing in Different Wastewaters, Author(s): Nejneru, C (Nejneru, Carmen); Burduhos-Nergis, DP (Burduhos-Nergis, Diana-Petronela); Axinte, M (Axinte, Mihai); Perju, MC (Perju, Manuela Cristina); Bejinariu, C (Bejinariu, Costica), Source: COATINGS Volume: 12 Issue: 7 Article Number: 911 DOI: 10.3390/coatings12070911 Published: JUL 2022 Accession Number: WOS:000831664600001 FI: 3.236	1.67
8	Title: Magnetic and Mossbauer Spectroscopy of Co/MgFe ₂ O ₄ Spinel, Author(s): Shen, JY (Shen, JiYu); Mo, JJ (Mo, JiaJun); Tao, YC (Tao, YuChen); Xia, YF (Xia, YanFang); Liu, M (Liu, Min), Source: JOURNAL OF LOW TEMPERATURE PHYSICS Volume: 209 Issue: 1-2 Pages: 166-181 DOI: 10.1007/s10909-022-02773-1 Early Access Date: JUL 2022 Published: OCT 2022, Accession Number: WOS:000825225900008 FI: 1.618	1.25
9	Title: Optimization of Preparation of Cerium-loaded Intercalated Bentonite by Response Surface Method and Genetic Algorithm-back Propagation Neural Network and Its Application in Simultaneous Removal of Ammonia Nitrogen and Phosphorus, Author(s): Wang, W (Wang, Wei); Li, GF (Li, Gufeng); Ye, JX (Ye, Junxiu); Li, GZ (Li, Guizhen); Tang, Y (Tang, Yi); Fang, SJ (Fang, Shuju), Source: CHEMISTRY LETTERS Volume: 51 Issue: 8 Pages: 886-890 DOI: 10.1246/cl.220255 Published: AUG 2022, Accession Number: WOS:000851149200010, FI: 1.715	1.25
10	Title: Development of a New Eco-Friendly Copolymer Based on Chitosan for Enhanced Removal of Pb and Cd from Water, Author(s): Ganea, IV (Ganea, Iolanda-Veronica); Nan, A (Nan, Alexandrina); Roba, C (Roba, Carmen); Neamtii, I (Neamtii, Iulia); Gurzau, E (Gurzau, Eugen); Turcu, R (Turcu, Rodica); Filip, X (Filip, Xenia); Baciuc, C (Baciuc, Calin), Source: POLYMERS Volume: 14 Issue: 18 Article Number: 3735 DOI: 10.3390/polym14183735 Published: SEP 2022, Accession Number: 1.67	1.67

WOS:000857083100001 FI: 4.967	
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3.4 Membru în colectivele de redacție ale revistelor / editor / recenzor pentru reviste	1. Editor Crystals - Special Issue "Biomaterials Characterization for Medical Applications", https://www.mdpi.com/journal/crystals/special_issues/biomaterials_characterization , ISSN 2073-4352, FI(2021): 2.67	12
	2. Editor Crystals - Special Issue "Multifunctional Materials and Structures", https://www.mdpi.com/journal/crystals/special_issues/multifunctional_materials_structures , ISSN 2073-4352, FI(2021): 2.67	12
	3. Editor Materials - Special Issue "Recent Research and Progress of Biomaterials and Biodegradable Alloys for Medical Applications", ISSN 1996-1944, FI(2021):3.748	12
	4. Editor Polymers - Special Issue "Advanced Materials and Polymers for Industrial and Biomedical Applications", https://www.mdpi.com/journal/polymers/special_issues/Adv_Mater_Polym_Ind_Biomed_Appl , ISSN 2073-4360, FI(2021):4.967	12
3.4.1 WoS	5. Editor Coatings - Special Issue "Recent Progress in Dental and Implant Biomaterials", https://www.mdpi.com/journal/coatings/special_issues/Implant_biomaterials , ISSN 2079-6412, FI(2021):3.236	12
	6. Editor Coatings - Special Issue "Thermal Spray Coatings", https://www.mdpi.com/journal/coatings/special_issues/thermal_coatings , ISSN 2079-6412, FI(2021):3.236	12
	Recenzor Coatings, ISSN 2079-6412 – 12 recenzii	5
	Recenzor Materials, ISSN 1996-1944– 44 recenzii	5
	Recenzor Crystals, ISSN 2073-4352 – 5 recenzii	5
	Recenzor Metals – 6 recenzii	5
	Recenzor Materials Letters – 3 recenzii	5
	Recenzor Minerals – 3 recenzii	5
	Recenzor Advances in Mechanical Engineering – 2 recenzii	5
Punctaj		107

3.7 Membru în Comisiile Publice de susținere a tezelor de doctorat	1. Lupescu Stefan, 2021, TUIASI	
	2. Ionescu Ionut Cercel, 2022, UNSTPB	
	3. Valeriu Andrei, 2023, UNSTPB	
	4. Borsan Ioana, 2024, UNIV. Transilvania	
	5. Lupu Ghita Andreea, 2024, UNSTPB	

Data: 29.12.2025

Candidat,
Conf.dr.ing. Istrate Bogdan

8.	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-wofknowledge-com.am.e-information.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	61.67

wires, Materiale Plastice, 52 (2) pp. 150-153, 2015, WOS:000357767900004, FI(2019):1.517, 27 citări		
1	Improvement of binding friction between stainless steel orthodontic wire and bracket by performing Rh-PTFE composite plating on the wire, Koyama, A; Ono, T; Uo, M; Kiyokawa, H; Ohira, N; Shima, Y; Kanno, Z; ORTHODONTIC WAVES, Volume: 79 Issue: 1 Pages: 39-47, DOI: 10.1080/13440241.2020.1733180, WOS:000547447800005, FI (2019):0	5/6 = 0.83
2	Experimental Study on the Improvement of the Use of Diacrylic Composite Resins in Restorative Dentistry by Compensatory Techniques, Vasilescu, E; Docan, A; Vasilescu, VG; Popa, CL; Ionel, NC; Muntenita, C; MATERIALE PLASTICE, Volume: 56 Issue: 2 Pages: 378-381, 2019, WOS:000476641000016, FI (2019):1.517	15/6 = 2.5
3	Biochemical Interactions Between Polymeric Resins Used for Occlusal Splints and Saliva A pilot study comparing the CAD/CAM technology and the conventional approach, Melescanu-Imre, M; Pantea, M; Totan, A; Tancu, AMC; Greabu, M; Totan, C; Spinu, TC; MATERIALE PLASTICE, Volume: 56 Issue: 2 Pages: 409-412, 2019, WOS:000476641000023, FI (2019):1.517	15/6 = 2.5
4	General Treatment Principles in Alergies-Plastic Materials, Nechita, A; Mitrea, G; Raftu, G; Stefanescu, C; Anton, DM; Popa, G; Macovei, LA; MATERIALE PLASTICE, Volume: 56 Issue: 1 Pages: 220-223, 2019, WOS:000464604100044, FI(2019):1.517	15/6 = 2.5
5	Structural and Thermal Changes in Dental Resins Enriched with Silver Nanoparticles, Vitalariu, A; Tatarciuc, M.; Luca, O; Cioloca, CH; Bulancea, B; Aungurencei, A; Aungurencei, O; Raftu, G; Popa, DD; REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 591-595, 2019, WOS:000461982200047, FI(2019):1.755	15/6 = 2.5
6	Biochemical and Bioimpedance Correlation with Quality of Life and Illness Perception in Hemodialysis Patients, Donciu, MD; Florea, L; Mititiuc, LI; Popescu, ER; Chirita, R; REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 679-684, 2019, WOS:000461982200069, FI(2019):1.755	15/6 = 2.5
7	Evaluation of the Degree of Dental Anxiety in a Lot of Patients Altered in Young Adults, Raftu, G; Sin, EC; Caraiane, A; Bustiuc, SG; Briceag, R, REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 689-692, 2019, WOS:000461982200071, FI(2019):1.755	15/6 = 2.5
8	Applications of Factorial Analysis in the Study of Risk Factors and their Chemical Influence for Erosive Dental Wear, Chiriac, AM; Mercut, V; Alexandru, D; Popescu, SM; Mercut, R; Popescu, FD; Luchianenco, D; Resceanu, I; REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 693-699, 2019, WOS:000461982200072, FI(2019):1.755	15/6 = 2.5
9	Aesthetic Rehabilitation of the Teeth using Single Fixed Prostheses, Caraiane, A; Toma, V; Raftu, G; Debita, M; Dimofte, AR; Iordache, C; REVISTA DE CHIMIE, Volume: 70 Issue: 2 Pages: 714-717, 2019, WOS:000461982200076, FI(2019):1.755	15/6 = 2.5
10	Study on the Behavior of Dental Alloy CoCrWNBMoV in Artificial Saliva, Alexandru, A; Cimpoesu, R; Melian, A; Salceanu, M, REVISTA DE CHIMIE, Volume: 70 Issue: 1 Pages: 165-168, 2019, WOS:000460428100036, FI(2019):1.755	15/6 = 2.5
11	Correlation of Glycemic and Lipid Control Parameters with Cognitive Dysfunction Scores, in Type 2 Diabetic Persons Results from a cross- sectional study, Bothariu, G; Popa, A; Mitrea, G; Manole, M; Pacura, M; Anghele, M; Curis, C; Teodorescu, E; REVISTA DE CHIMIE, Volume: 69 Issue: 12 Pages: 3486-3489, 2018, WOS:000458533800031, FI(2019):1.755	15/6 = 2.5
12	The Prevalence of Dental Midline Deviation in a Group of Orthodontic Patients, Anistoroaei, D; Zegan, G; Saveanu, IC; Sodor, A; Golovcencu, L; REVISTA DE CHIMIE; Volume: 69 Issue: 12 Pages: 3626-3629; WOS:000458533800056 2018, FI(2019):1.755	15/6 = 2.5
13	The Role of Chemical Factors in the Inflammation and Infection of Cervico-facial Actinomycosis, Nechita, A; Constantin, M; Budacu, C; Raftu, G; Popa, C; REVISTA DE CHIMIE; Volume: 69 Issue: 12 Pages: 3630-3633, 2018, WOS:000458533800063, FI(2019):1.755	15/6 = 2.5
14	The Efficiency and Degree of Penetrability of Frequent Washing Solutions Used in Endodontal Treatment, Iliescu, AA; Melian, A; Dan-Cristian, I; Stefanescu, C; Anton, DM; Popa, G; Salceanu, M; Iordache, C; Manole, M ; REVISTA DE CHIMIE, Volume: 69 Issue: 12 Pages: 3717-3722, 2018, WOS:000458533800083, FI(2019):1.755	15/6 = 2.5
15	Chemical Additives from the Composition of Plastic Products and Other Materials in Establishing Diagnosis for Alergy Disease, Raftu, G; Mitrea, G; Macovei, LA; Nechita, A, MATERIALE PLASTICE, Volume: 55 Issue: 4 Pages: 609-612, 2018, WOS:000454987400032, FI(2019):1.517	15/6 = 2.5

16	In vitro Study of the Structure and Adhesive Interface in Direct Restorations with Experimental Nanocomposite Materials and Adhesive Systems, Porumb, A; Almasi, A; Todor, L; Ratiu, CA; Ciavoi, G; Todor, PC; Todow, SA; Matei, MN; Romanec, C; Matei, RI; MATERIALE PLASTICE, Volume: 55 Issue: 4 Pages: 620-625, 2018, WOS:000454987400035, FI(2019):1.517	15/6 = 2.5
17	Relation of Polypharmacy to Systemic and Oral Health Related Factors, Bicheru, M; Preoteasa, CT; Zamfirescu, A; Capisizu, A; Imre, MM; Preoteasa, E; REVISTA DE CHIMIE, Volume: 69 Issue: 11 Pages: 4015-4017, 2018, WOS:000451931500033, FI(2019):1.755	15/6 = 2.5
18	The Use of Diacrylic Resins in Dental Restorations, Romanec, C; Stan, CI; Hinganu, MV; Scutariu, MM; Rosu, S; Hinganu, D; REVISTA DE CHIMIE, Volume: 69 Issue: 11 Pages: 4052-4054, 2018, WOS:000451931500040, FI(2019):1.755	15/6 = 2.5
19	THE INFLUENCE OF THE TECHNOLOGICAL PARAMETERS ON THE CHARACTERISTICS OF CAST DENTAL BRIDGES, Forna, N; Tatarciuc, M; Vitalariu, A; Baci, R; Popa, DD; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 4 Pages: 13-19, 2018, WOS:000453870200002, FI(2019): 0	5/6 = 0.83
20	INTERDISCIPLINARY APPROACH IN THE TREATMENT OF CONGENITALLY MISSING LATERAL INCISOR, Anistoroaei, D; Saveanu, CI; Golovcencu, L; Cernei, ER; Zegan, G; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 4 Pages: 71-77, 2018, WOS:000453870200010, FI(2019): 0	5/6 = 0.83
21	STUDY ON ELEVATION OF PARTIALLY REMOVABLE PROSTHESES IN SYSTEMIC CONTEXT IN GERIATRIC PATIENTS, Gradinaru, I; Hurjui, LL; Hurjui, I; Antohe, ME ; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 4 Pages: 114-122, 2018, WOS:000453870200017, FI(2019): 0	5/6 = 0.83
22	IMPRESSION IN EXTENDED PARTIALLY EDENTATION - IMPLICATIONS IN METHODS OF TRAINING FOR DENTAL TECHNICIANS, Antohe, ME; Andronache, M; Vasluianu, RI; Cretu, CI; Stamatin, O; Forna, NC; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 4 Pages: 143-148, 2018, WOS:000453870200021, FI(2019): 0	5/6 = 0.83
23	Nanoparticles Deposition on Mini-implants for Osseo-integration and Antibacterial Properties Improvement, Zegan, G; Carausu, EM; Golovcencu, L; Botezatu, AS; Cernei, ER; Anistoroaei, D; REVISTA DE CHIMIE, Volume: 68 Issue: 12 Pages: 2929-2931, 2017 WOS:000423261900042, FI(2019):1.755	15/6 = 2.5
24	Effectiveness of Nickel-Titanium Endodontic Instruments on Smear Layer Removal from Radicular Dentin A Scanning Electron Microscopy Study, Monea, M; Biris, C; Bechir, ES; Suciu, N; Pop, AM; Olah, P; REVISTA DE CHIMIE, Volume: 68 Issue: 11 Pages: 2519-2522, 2017, WOS:000416751800010, FI(2019):1.755	15/6 = 2.5
25	The effect of pH, fluoride and tribocorrosion on the surface properties of dental archwires, Mocnik, P; Kosec, T; Kovac, J; Bizjak, M, MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, Volume: 78 Pages: 682-689, DOI: 10.1016/j.msec.2017.04.050, 2017, WOS:000404944700081, FI(2019): 5.88	30/6 = 5
26	Experimental Research on the Behaviour of the Alloy Ti10Zr in Simulated Oral Environment Vasilescu, VG; Patrascu, I; Cotrut, C; Vasilescu, E, REVISTA DE CHIMIE, Volume: 67 Issue: 2 Pages: 263-266, 2016, WOS:000372170700013, FI(2019):1.755	15/6 = 2.5
27	Influence of CeO ₂ Thickness Layer Deposited on the 945A Steel Substrate Concerning the Corrosion Process, Barca, ES; Trinca, LC; Filipescu, M; Dinescu, M; Plaiasu, AG; Abrudeanu, M; Leata, R, REVISTA DE CHIMIE, Volume: 67 Issue: 1 Pages: 177-181, 2016, WOS:000369524300040, FI(2019):1.755	15/6 = 2.5
2. 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(2019): 1.186, 14 citări		24.24
1	Oxidative Chemical Hybrid Formulations for Internal Bleaching of Endodontically Treated Teeth, Pascalau, D; Dudescu, MC; Merie, V; Pustan, M; Marinca, TF; Ionel, DC; Mesaros, AS; REVISTA DE CHIMIE, Volume: 69 Issue: 7 Pages: 1760-1765, 2018, WOS:000444595700034, FI(2019):1.755	15/7 = 2.14
2	Implementation of Holographic Research in Periodontal Disease, Manole, M; Burde, AV; Milea, C; Neculescu, A; Ciocoiu, R; Trante, O; Sinescu, C; Mohan, A; Dudea, D; Ionel, DC; Baci, S; REVISTA DE CHIMIE, Volume: 69 Issue: 7 Pages: 1791-1795,	15/7 = 2.14

	2018, WOS:000444595700039, FI(2019):1.755	
3	Chemical Features of Bisphosphonates and Histopathological Outcomes in Rat Jaw Treated with Zoledronic Acid Combined with Dexamethasone, Stan, IAA; Petrovan, C; Cerghizan, D; Albu, DE; Craciun, AE; Copotou, C; REVISTA DE CHIMIE, Volume: 69 Issue: 7 Pages: 1802-1807, 2018, WOS:000444595700041, FI(2019):1.755	15/7 = 2.14
4	Risk Factors and the Mechanism of Induced Oral Cancer by the Chemical Substances, Stefanescu, OM; Dragomir, R; Ciurcanu, O; Budacu, CC, REVISTA DE CHIMIE, Volume: 69 Issue: 5 Pages: 1283-1287, 2018, WOS:000434954100054, FI(2019):1.755	15/7 = 2.14
5	Odontal and Protetic Reconstruction in Total Coronar Fractures, Caraiane, A; Raftu, G; Leata, R; Cerghizan, D; Macovei, LA; Focsaneanu, SC; Covaci, AM; Negraia, MR; Ilie, M; Dimofte, AR; Decusara, M; REVISTA DE CHIMIE, Volume: 69 Issue: 4 Pages: 1010-1013, 2018, WOS:000433223000054, FI(2019):1.755	15/7 = 2.14
6	Chemical Senses-Smell and Olfaction, Decusara, M; Caraiane, A; Macovei, LA; Ilie, M; Focsaneanu, SC; Covaci, AM; Negraia, MR; Raftu, G, REVISTA DE CHIMIE, Volume: 69 Issue: 4 Pages: 1034-1036, 2018, WOS:000433223000060, FI(2019):1.755	15/7 = 2.14
7	The Efficuency of Cream Adhesives for Prosthesis Evaluated by the Wearer of Acrylic Total Prosthesis, Caraiane, A; Raftu, G; Sin, EC; Bustiuc, SG, REVISTA DE CHIMIE, Volume: 69 Issue: 3 Pages: 725-727, 2018, WOS:000430946500042, FI(2019):1.755	15/7 = 2.14
8	Studies Regarding the Architectural Design of Various Composites and Nanofibres Used in Dental Medicine, Gradinaru, I; Ignat, L; Dascalu, CG; Soroaga, LV; Antohe, ME, REVISTA DE CHIMIE, Volume: 69 Issue: 2 Pages: 328-331, 2018, WOS:000427327700009, FI(2019):1.755	15/7 = 2.14
9	The Effect of Heat Treatment and Corrosion Behavior of AISI420, Minciuna, MG; Achitei, DC; Vizureanu, P; Benchea, M; Sandu, AV, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012039, DOI: 10.1088/1757-899X/374/1/012039, 2018, WOS:000446775900039, FI(2019):0	5/7 = 0.71
10	Effectiveness of Various Gingival Sulcus Widening Materials, Cerghizan, D; Tirca, T; Bumbescu, IG; Scutariu, MM; Caraiane, A, REVISTA DE CHIMIE, Volume: 69 Issue: 1 Pages: 271-276, 2018, WOS:000425369600055, FI(2019):1.755	15/7 = 2.14
11	Studies on Adhesion of Composite Resins and Glass-Ionomer Cements in Open-Sandwich Technique, Ghiorghe, CA; Iovan, G; Andrian, S; Nica, I; Topoliceanu, C; Pancu, G, REVISTA DE CHIMIE, Volume: 68 Issue: 8 Pages: 1890-1894, 2017, WOS:000410388000044, FI(2019):1.755	15/7 = 2.14
12	Surface Topographical Modification of Coronary Stent: A Review, Tan, CH; Muhamad, N; Abdullah, MMAB, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: UNSP 012031, DOI: 10.1088/1757-899X/209/1/012031, 2017, WOS:000423732100031, FI(2019):0	5/7 = 0.71
13	Morpho-Structural Characterization of WC20Co Deposited Layers, Tugui, CA; Vizureanu, P, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012020, DOI: 10.1088/1757-899X/209/1/012020, 2017, WOS:000423732100020, FI(2019):0	5/7 = 0.71
14	Behavior of Al-Mg Alloy Subjected To Thermal Processing, Achitei, DC; Minciuna, MM; Sandu, AV; Abdullah, MMA, Book Series: AIP Conference Proceedings, Volume: 1835, Article Number: UNSP 020051, DOI: 10.1063/1.4983791, 2017, WOS:000405780000051, FI(2019):0	5/7 = 0.71
3. B. Istrate , C. Munteanu, C.I. Crimu, S.I. Strugaru, M. Benchea, K. Earar, Morphological and tribological aspects of some ZrO2 coatings on Mg-Ca biodegradable alloys, Indian Journal of Engineering & Materials Sciences Vol. 23, pp. 418-424, 2016, WOS:000406728100006, FI(2019): 0.521, 12 citări		28.33
1	General and Particular Structural Characteristics of Acetylsalicylic Acid - Aspirine Chemical properties, Topor, G; Nechita, A; Debita, M; Ciupilan, C; Axente, ER, REVISTA DE CHIMIE, Volume: 70 Issue: 1 Pages: 248-253, 2019, WOS:000460428100055, FI(2019):1.755	15/6 = 2.5
2	Bioadhesives Used in Cardiovascular Surgery, Moldovan, H; Gheorghita, D; Antoniac, I; Gheorghe, D; Fiori, F; Mohan, A; Raftu, G; Ionel, C; Costache, V, REVISTA DE CHIMIE, Volume: 69 Issue: 10 Pages: 2799-2803, 2018, WOS:000451925300039, FI(2019):1.755	15/6 = 2.5
3	Dental Inclusion of Canine and Wisdom Tooth in Orthodontics Chemical Necroses,	15/6 = 2.5

	Budacu, CC; Ioanid, N; Romanec, C; Balan, M; Pavel, LL; Pacurar, M; Rosu, S, REVISTA DE CHIMIE, Volume: 69 Issue: 8 Pages: 2191-2196, 2018, WOS:000444602300051, FI(2019):1.755	
4	Soil Chemical Pollution and Aggressive Pathologies, Morariu, SI; Duceac, LD; Luca, AC; Popescu, F; Pavel, L; Gavrilescu, CM, REVISTA DE CHIMIE, Volume: 69 Issue: 8 Pages: 2278-2282, 2018, WOS:000444602300069, FI(2019):1.755	15/6 = 2.5
5	The Chemical Effect in Medicine Interaction Determining the Form and Speed of Psychical Involution in the Prosthetic Restauration in the Edentulous, Caraiane, A; Leata, R; Toba, V; Vesa, D; Macovei, LA; Dan, CI; Pavel, L, REVISTA DE CHIMIE, Volume: 69 Issue: 8 Pages: 2306-2310, 2018, WOS:000444602300076, FI(2019):1.755	15/6 = 2.5
6	THE ROLE OF CLINICAL STAGES IN MAKING EFFICIENT THE THERAPEUTIC MANAGEMENT IN PARTIAL EDENTATION, Diana, B; Forna, DA; Cristina, I; ROMANIAN JOURNAL OF ORAL REHABILITATION, Volume: 10 Issue: 3 Pages: 125-132, 2018, WOS:000444858500015, FI(2019):0	5/6 = 0.83
7	Oxidative Chemical Hybrid Formulations for Internal Bleaching of Endodontically Treated Teeth, Pascalau, D; Dudescu, MC; Merie, V; Pustan, M; Marinca, TF; Ionel, DC; Mesaros, AS, REVISTA DE CHIMIE, Volume: 69 Issue: 7 Pages: 1760-1765, 2018, WOS:000444595700034, FI(2019):1.755	15/6 = 2.5
8	Odontal and Protetic Reconstruction in Total Coronar Fractures, Caraiane, A; Raftu, G; Leata, R; Cerghizan, D; Macovei, LA; Focsaneanu, SC; Covaci, AM; Negraia, MR; Ilie, M; Dimofte, AR, REVISTA DE CHIMIE, Volume: 69 Issue: 4 Pages: 1010-1013, 2018, WOS:000433223000054, FI(2019):1.755	15/6 = 2.5
9	Chemical Senses-Smell and Olfaction, Decusara, M; Caraiane, A; Macovei, LA; Ilie, M; Focsaneanu, SC; Covaci, AM; Negraia, MR; Raftu, G, REVISTA DE CHIMIE, Volume: 69 Issue: 4 Pages: 1034-1036, 2018, WOS:000433223000060, FI(2019):1.755	15/6 = 2.5
10	The Efficuency of Cream Adhesives for Prosthesis Evaluated by the Wearer of Acrylic Total Prosthesis, Caraiane, A; Raftu, G; Sin, EC; Bustiuc, SG, REVISTA DE CHIMIE, Volume: 69 Issue: 3 Pages: 725-727, 2018, WOS:000430946500042, FI(2019):1.755	15/6 = 2.5
11	Studies Regarding the Architectural Design of Various Composites and Nanofibres Used in Dental Medicine, Gradinaru, I; Ignat, L; Dascalu, CG; Soroaga, LV; Antohe, ME, REVISTA DE CHIMIE, Volume: 69 Issue: 2 Pages: 328-331, 2018, WOS:000427327700009, FI(2019):1.755	15/6 = 2.5
12	Effectiveness of Various Gingival Sulcus Widening Materials, Cerghizan, D; Tirca, T; Bumbescu, IG; Scutariu, MM; Caraiane, A, REVISTA DE CHIMIE, Volume: 69 Issue: 1 Pages: 271-276, 2018, WOS:000425369600055, FI(2019):1.755	15/6 = 2.5
4. 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, 5 citări		8.34
1	Biodegradable Magnesium Alloys as Promising Materials for Medical Applications (Review), Kiselevsky, MV; Anisimova, NY; Polotsky, BE; Martynenko, NS; Lukyanova, EA; Sitdikova, SM; Dobatkin, SV; Estrin, YZ, SOVREMENNYE TEHNOLOGII V MEDICINE, Volume: 11 Issue: 3 Pages: 146-155, DOI: 10.17691/stm2019.11.3.18, 2019, WOS:000488303800018, FI(2019):0	5/9 = 0.56
2	Magnesium-based biodegradable alloys: Degradation, application, and alloying elements, Pogorielov, M; Husak, E; Solodivnik, A; Zhdanov, S; INTERVENTIONAL MEDICINE AND APPLIED SCIENCE, Volume: 9 Issue: 1 Pages: 27-38, DOI: 10.1556/1646.9.2017.04, 2017, WOS:000397578400005, FI(2019):0	5/9 = 0.56
3	Monitoring degradation products and metal ions in vivo, Paramitha, D; Ulu, MF; Purnama, A; Wicaksono, DHB; Noviana, D; Hermawan, H, MONITORING AND EVALUATION OF BIOMATERIALS AND THEIR PERFORMANCE IN VIVO, Book Series: Woodhead Publishing Series in Biomaterials, Pages: 19-44, DOI: 10.1016/B978-0-08-100603-0.00002-X, WOS:000413460300002, 2017, FI(2019):0	5/9 = 0.56
4	The formation of FHA coating on biodegradable Mg-Zn-Zr alloy using a two-step chemical treatment method, Jiang, ST; Zhang, J; Shun, SZ; Chen, MF, APPLIED SURFACE SCIENCE, Volume: 388 Pages: 424-430 Part: A, DOI: 10.1016/j.apsusc.2015.12.087, 2016, WOS:000384573100062, FI(2019):6.182	30/9 = 3.33
5	High throughput corrosion screening of Mg-Zn combinatorial material libraries, Kotoka, R; Konchady, M; Ramakrishnan, G; Yarmolenko, S; Pai, D; Sankar, J, MATERIALS &	30/9 = 3.33

	DESIGN, Volume: 108 Pages: 42-50, DOI: 10.1016/j.matdes.2016.06.078, 2016, WOS:000382793200007, FI(2019):6.289	
	5. V. Popescu, I. Sandu, E.I. Mureșan, 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, 2 citări	10
1	Effect of high-pressure microfluidization treatment on the physicochemical properties and antioxidant activities of polysaccharide from Mesona chinensis Benth, Huang, LX; Shen, MY; Zhang, XW; Jiang, L; Song, QQ; Xie, JH, CARBOHYDRATE POLYMERS, Volume: 200 Pages: 191-199, DOI: 10.1016/j.carbpol.2018.07.087, 2018, WOS:000443264400023, FI(2019): 7.182	30/5 = 6
2	Functionalization and characterization of cotton with phase change materials and thyme oil encapsulated in beta-cyclodextrins, Scacchetti, FAP; Pinto, E; Soares, GMB, PROGRESS IN ORGANIC COATINGS, Volume: 107 Pages: 64-74, DOI: 10.1016/j.porgcoat.2017.03.015, 2017, WOS:000401216900010, FI(2019): 4.469	20/5 = 4
	6. 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, 4 citări	4.99
1	Experimental Study on the Influence of Zirconia Surface Preparation on Deposition of Hydroxyapatite, Focsaneanu, SC; Vizureanu, P; Sandu, AV; Ciobanu, G; Baltatu, SM; Vlad, D, REVISTA DE CHIMIE, Volume: 70 Issue: 6 Pages: 2273-2275, 2019, WOS:000475860100081, FI(2019): 1.755	15/6 = 2.5
2	Preliminary Tests for Ti-Mo-Zr-Ta Alloys as Potential Biomaterials, Baltatu, MS; Vizureanu, P; Balan, T; Lohan, M; Tugui, CA, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012023, DOI: 10.1088/1757-899X/374/1/012023, 2018, WOS:000446775900023, FI(2019): 0	5/6 = 0.83
3	Melt Electrospinning - Characteristics, Application Areas and Perspectives, Manea, LR; Berteau, A; Popa, A; Berteau, AP, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: 012063, DOI: 10.1088/1757-899X/374/1/012063, 2018, WOS:000446775900063, FI(2019): 0	5/6 = 0.83
4	Obtaining and Mechanical Properties of Ti-Mo-Zr-Ta Alloys, Baltatu, MS; Vizureanu, P; Geanta, V; Nejneru, C; Tugui, CA; Focsaneanu, SC, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012019, DOI: 10.1088/1757-899X/209/1/012019, WOS:000423732100019, FI(2019): 0	5/6 = 0.83
	7. 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, 3 citări	8
1	Bioresorbable metals in cardiovascular stents: Material insights and progress, Toong, DWY; Ng, JCK; Huang, YY; Wong, PEH; Leo, HL; Venkatraman, SS; Ang, HY; MATERIALIA, Volume: 12, Article Number: 100727, DOI: 10.1016/j.mtl.2020.100727, 2020, WOS:000559331000010, FI(2019): 0	5/5 = 1
2	Manufacturing of Mg-Ti Couples at Different Heat Treatment Temperatures and Their Corrosion Behavior in Chloride Solutions, Sherif, EM; AlHazzaa, AN; Abdo, HS; MATERIALS; Volume: 12 Issue: 8, Article Number: 1300, DOI: 10.3390/ma12081300, 2019, WOS:000467767400106, FI(2019): 3.057	20/5 = 4
3	Study on the Behavior of Dental Alloy CoCrWNBMoV in Artificial Saliva, Alexandru, A; Cimpoesu, R; Melian, A; Salceanu, M, REVISTA DE CHIMIE, Volume: 70 Issue: 1 Pages: 165-168, 2019, WOS:000460428100036, FI(2019): 1.755	15/5 = 3
	8. 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, 3 citări	4.16
1	Biocompatible Titanium Alloys used in Medical Applications, Baltatu, MS; Tugui, CA; Perju, MC; Benchea, M; Spataru, MC; Sandu, AV; Vizureanu, P, REVISTA DE CHIMIE, Volume: 70 Issue: 4 Pages: 1302-1306, 2019, WOS:000469387200039, FI(2019): 1.755	15/6 = 2.5
2	Melt Electrospinning - Characteristics, Application Areas and Perspectives, Manea, LR; Berteau, A; Popa, A; Berteau, AP, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: 012063, DOI: 10.1088/1757-899X/374/1/012063, 2018, WOS:000446775900063, FI(2019): 0	5/6 = 0.83
3	Electrospun Membranes for Environmental Protection, Manea, LR; Berteau, A; Popa, A;	5/6 = 0.83

	Bertea, AP, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012081, DOI: 10.1088/1757-899X/374/1/012081, 2018, WOS:000446775900081, FI(2019): 0	
9.	G.L. Pintilei, V.I. Crişmaru, 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, 4 citări	8.33
1	Structural and Morphological Characteristics of Hybrid Nanomaterials Type Ascorbic Acid-hydroxalcalite Used for Stimulating Salivary Secretion, Zegan, G; Golovcencu, L; Cernei, ER; Carausu, EM; Anistoroaei, D; REVISTA DE CHIMIE, Volume: 69 Issue: 5 Pages: 1244-1246, 2018, WOS:000434954100044, FI(2019): 1.755	15/6 = 2.5
2	ZnO and TiO ₂ Nanoparticles Genotoxicity According to their Structural and Morphological Characteristics Used for Medical Purposes, Glod, M; Damir, D; Nichitus, S; Calin, G; Duceac, LD; Gorgan, DL; Tascu, S; Cuihodaru, MI; REVISTA DE CHIMIE, Volume: 69 Issue: 3 Pages: 609-611; 2018, WOS:000430946500016, FI(2019): 1.755	15/6 = 2.5
3	Finite Element Method Application for the Determination of Hardness for Magnesium Alloys, Sliwa, A; Sroka, M; Bloch, K; Sandu, IG; Abdullah, MMA; Sandu, AV; REVISTA DE CHIMIE, Volume: 69 Issue: 2 Pages: 324-327, 2018, WOS:000427327700008, FI(2019): 1.755	15/6 = 2.5
4	Structural Analysis of Carabiners Materials Used at Personal Protective Equipments, Burduhos-Nergis, DP; Nejneru, C; Achitei, DC; Cimpoesu, N; Bejinariu, C, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: 012040, DOI: 10.1088/1757-899X/374/1/012040, 2018, WOS:000446775900040, FI(2019): 0	5/6 = 0.83
10.	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, 5 citări	9.16
1	Influence of Nanostructuration on the Sound Velocity in Aluminum Al _{99.50} , Cazac, AM; Alexandru, A; Baci, C; Sandu, AV; Bejinariu, C, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012038, DOI: 10.1088/1757-899X/374/1/012038, 2018, WOS:000446775900038, FI(2019): 0	5/6 = 0.83
2	Melt Electrospinning - Characteristics, Application Areas and Perspectives; Bertea, A; Popa, A; Bertea, AP, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: 012063, DOI: 10.1088/1757-899X/374/1/012063, 2018, WOS:000446775900063, FI(2019): 0	5/6= 0.83
3	Influence of surface pretreatment on the coating quantity and properties of nanostructured octacalcium phosphate on commercially pure titanium, Suwanprateeb, J; Thammarakcharoen, F, INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, Volume: 24 Issue: 5 Pages: 351-361, 2017, WOS:000424965700004, FI(2019): 0.521	10/6= 1.67
4	Vibration damping behavior and surface characterization of magneto-mechanical powder coated AISI304 stainless steel, Pakkirappa, H; Mahesha, K; Sachidananda, KB, SURFACE & COATINGS TECHNOLOGY, Volume: 324 Pages: 382-389, DOI: 10.1016/j.surfcoat.2017.06.005, 2017, WOS:000406988200044 FI(2019):3.784	20/6= 3.33
5	Analyse of Ti-based Alloy for Medical Instruments after Chemical, Mechanical and Physical Processing, Burlea, SL; Leata, R; Agop, M; Cimpoesu, N; REVISTA DE CHIMIE, Volume: 67 Issue: 2 Pages: 260-262, 2016, WOS:000372170700012, FI(2019): 1.755	15/6= 2.50
11.	B. Istrate , C. Munteanu, S. Lupescu, M. Benchea, P. Vizureanu, Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr ₃ C ₂ -NiCr Coatings on Magnesium Substrate, IOP Conference Series-Materials Science and Engineering, Volume: 209, 012024, DOI: 10.1088/1757-899X/209/1/012024, 2017, FI(2019):0, 2 citări	5
1	Nanocrystalline Cermet Coatings for Erosion-Corrosion Protection, By:Tiwari, A, Seman, S, Singh, G, Jayaganthan, R, COATINGS, Volume: 9 Issue: 6, Article Number: 400, DOI: 10.3390/coatings9060400, 2019, FI(2019):2.436	20/5= 4
2	Electrospun Membranes for Environmental Protection, By:Manea, LR, Bertea, A, Popa, A, Bertea, AP, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012081, DOI: 10.1088/1757-899X/374/1/012081, 2018, FI(2019):0	5/5= 1
12.	D. Mareci, G. Bolat, B. Istrate , C. Munteanu, A. Cailean, Effect of thermal oxidation on	4

	electrochemical corrosion behaviour of ZrTi alloys for dental applications, MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, Volume: 66 Issue: 12 Pages: 1529-1535, DOI: 10.1002/maco.201508327, 2015, FI(2019): 1.533, 2 citări	
1	Corrosion and wear properties of biomedical Ti-Zr-based alloys, By:Zhang, JJ, Wang, HF, Yang, SY, Xing, XG, Shu, XF, Jin, XM, MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, Volume: 69 Issue: 12 Pages: 1703-1712, DOI: 10.1002/maco.201810278, 2018, FI(2019):1.533	15/5=3
2	Synthesis and Characterization of TiO ₂ /SiO ₂ Thin Film via Sol-Gel Method, By:Halin, DSC, Abdullah, MMAB, Mahmed, N, Malek, SNAA, Vizureanu, P, Azhari, AW, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012002, DOI: 10.1088/1757-899X/209/1/012002, 2017, FI (2019): 0	5/5=1
	13. E.S. Barca, A.G. Plaiasu, 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, Volume: 17 Issue: 9-10 Pages: 1522-1527, 2015, WOS:000364600400046, FI(2019): 0.631, 3 citări	2.49
1	Aluminum Coating Influence on Nitride Layer Performance Deposited by MO-CVD in Fluidized Bed on Austenitic Stainless Steel Substrate, By:Galusca, DG, Perju, MC, Nejneru, C, Burduhos-Nergis, DD, Lazarescu, IE, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012020, DOI: 10.1088/1757-899X/374/1/012020, 2018, FI (2019): 0	5/6=0.83
2	The Analysis of an Internal Combustion Engine Breakdown Case Study, By:Agape, I, Gaiginschi, L, Ianus, G, Cimpoesu, N, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012077, DOI: 10.1088/1757-899X/209/1/012077, 2017, FI (2019): 0	5/6=0.83
3	Corrosion Evaluation of Some Phosphated Thin Layers on Reinforcing Steel, By:Lazar, P, Bejinariu, C, Sandu, AV, Cazac, AM, Corbu, O, Sandu, IG, Perju, MC, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 209, Article Number: 012025, DOI: 10.1088/1757-899X/209/1/012025, 2017, FI (2019): 0	5/6=0.83
	14. 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, Vol. 17 Is. 7-8, 1186-1192, 2015, WOS:000359967600044, FI(2019): 0.631, 3 citări	2.13
1	High-temperature Sulfidation and Oxidation Behavior of Plasma-sprayed Al-Mo Coatings, By:Wu, LM, Wang, WZ, Yu, JY, Huang, JB, Li, CX, RARE METAL MATERIALS AND ENGINEERING, Volume: 47 Issue: 12 Pages: 3610-3615, Published: DEC 2018, FI(2019): 0.485	5/7=0.71
2	Preliminary Tests for Ti-Mo-Zr-Ta Alloys as Potential Biomaterials, By:Baltatu, MS, Vizureanu, P, Balan, T, Lohan, M, Tugui, CA, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 374, Article Number: UNSP 012023, DOI: 10.1088/1757-899X/374/1/012023, 2018, FI (2019): 0	5/7=0.71
3	In-Situ Plasma Monitoring during the Pulsed Laser Deposition of Ni ₆₀ Ti ₄₀ Thin Films, Cimpoesu, N; Gurlui, S; Bulai, G; Cimpoesu, R; Paun, VP; Irimiciuc, SA; Agop, M, SYMMETRY-BASEL, Volume: 12 Issue: 1, Article Number: 109, DOI: 10.3390/sym12010109, Published: JAN 2020, FI (2019): 0	5/7=0.71
	15. T. Roman, R.L. Asavei, N.E. Karkalos, C. Roman, C. Virlan, N. Cimpoesu, B. Istrate , M. Zaharia, A.P. Markopoulos, K. Kordatos, S. Stanciu, A. Pui, Synthesis and adsorption properties of nanocrystalline ferrites for kinetic modeling development, INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, Volume: 16 Issue: 2 Pages: 693-705, DOI: 10.1111/ijac.13091, 2019 FI(2019): 1.762, 3 citări	4.57
1	Fabrication of Magnesium Ferrites for Enormous Adsorbance of Neutral Red and Their Electrochemical Properties, Liu, M; Li, Y; Wang, Z; Liu, RJ, JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, Volume: 20 Issue: 12 Pages: 7601-7609, DOI: 10.1166/jnn.2020.18711, Published: DEC 2020, FI (2019): 1.134	15/12=1.25
2	Structural and magnetic features of Ce doped Co-Cu-Zn spinel nanoferrites prepared using sol gel self-ignition method, Qamar, S; Akhtar, MN; Batoo, KM; Raslan, EH, CERAMICS INTERNATIONAL, Volume: 46 Issue: 10 Pages: 14481-14487 Part: A, DOI: 10.1016/j.ceramint.2020.02.246, Published: JUL 2020, FI(2019): 3.83	20/12=1.66
3	Adsorption mechanism and electrochemical performance of methyl blue onto magnetic Ni(1-x-y)Co ₂ Fe ₂ O ₄ nanoparticles prepared via the rapid-combustion process, Li, Y; Pan, S; Yu, QM; Ding, X; Liu, RJ, CERAMICS INTERNATIONAL, Volume: 46 Issue: 3 Pages: 3614-3622, DOI: 10.1016/j.ceramint.2019.10.080, Published: FEB 15 2020, FI(2019): 3.83	20/12=1.66

	3.3. Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice / Recenzor pentru reviste și manifestări științifice naționale și internaționale – ISI Web	27
	3.3.1. ISI Web of Knowledge - Editor/chairman - 12; Membru - 8; Recenzor - 5	
	Editor Crystals - Special Issue "Biomaterials Characterization for Medical Applications", https://www.mdpi.com/journal/crystals/special_issues/biomaterials_characterization , ISSN 2073-4352, FI(2019): 2.404	12
	Recenzor Coatings, ISSN 2079-6412, FI(2019): 2.436	5
	Recenzor Materials, ISSN 1996-1944, FI(2019): 3.057	5
	Recenzor Crystals, ISSN 2073-4352, FI(2019): 2.404	5

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	
D2	Lucrare de laborator – Studiul microstructurilor materialelor speciale : biomateriale, materiale composite, materiale semiconductoare, materiale nemetalice, pp 180-200, C. Munteanu, B.Istrate , S-C. Lupescu, Știința și Ingineria Materialelor – Îndrumar de laborator, Ed. "Europlus", 222 pg., pp. 180-200, 2019, Galați, ISBN: 978-606-628-207-9	

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