

2019

1. Dascalu CA; Maidaniuc A; Pandele AM; Voicu SI; Machedon-Pisu T; Stan GE; Cimpean A; Mitran V; **Antoniac IV**; Miculescu F; *Synthesis and characterization of biocompatible polymer-ceramic film structures as favorable interface in guided bone regeneration*, APPLIED SURFACE SCIENCE, Volume 494, 335-352, 2019.
DOI: 10.1016/j.apsusc.2019.07.098
Accession Number: WOS: 000487838900040
Document Type: Article
FI = 5,155
2. Rau JV; Fadeeva IV; Fomin AS; Barbaro K; Galvano E; Ryzhov AP; Murzakhanov F; Gafurov M; Orlinskii S; **Antoniac I**; Uskoković V; *Sic Parvis Magna: Manganese-Substituted Tricalcium Phosphate and its Biophysical Properties*, ACS BIOMATERIALS SCIENCE & ENGINEERING, Volume 5, Issue 12, 6632-6644, 2019.
DOI: 10.1021/acsbiomaterials.9b01528
Accession Number: WOS: 000502193400029
Document Type: Article
FI = 4,511
3. Karlsdottir SN; Csaki I; **Antoniac IV**; Manea CA; Stefanoiu R; Magnus F; Miculescu F; *Corrosion behavior of AlCrFeNiMn high entropy alloy in a geothermal environment*, GEOTHERMICS, Volume 81, 32-38, 2019.
DOI: 10.1016/j.geothermics.2019.04.006
Accession Number: WOS: 000472689800003
Document Type: Article
FI = 3,47
4. Moldovan H; Popescu D; Buliga T; Filip A; **Antoniac I**; Gheorghita D; Moar A; *Gastric Adenocarcinoma Associated with Acute Endocarditis of the Aortic Valve and Coronary Artery Disease in a 61-Year-Old Male with Multiple Comorbidities-Combined Surgical Management-Case Report*, MEDICINA-LITHUANIA Volume 55, Issue 6, 1-7, 2019.
DOI: 10.3390/medicina55060242
Accession Number: WOS: 000475303800027
Document Type: Article
FI = 1,467
5. **Antoniac IV**; Stoia DI; Ghiban B; Tecu C; Miculescu F; Vigaru C; Saceleanu V; *Failure Analysis of a Humeral Shaft Locking Compression Plate Surface Investigation and Simulation by Finite Element Method*, MATERIALS, Volume 12, Issue 7, 1-18, Article Number 1128, 2019.
Accession Number: WOS: 000465500700127
DOI: 10.3390/ma12071128
Document Type: Article
FI = 2,972
6. Cojocar FD; Balan V; Popa M; Lobiuc A; Antoniac A; **Antoniac IV**; Verestiuc L; *Biopolymers - Calcium phosphates composites with inclusions of magnetic*

nanoparticles for bone tissue engineering, INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Volume 125, 612-620, 2019.

DOI: 10.1016/j.ijbiomac.2018.12.083

Accession Number: WOS: 000458222000067

Document Type: Article

FI = 4,784

7. **Antoniac I**; Popescu D; Zapciu A; Antoniac A; Miculescu F; Moldovan H; *Magnesium Filled Polylactic Acid (PLA) Material for Filament Based 3D Printing*, MATERIALS, Volume 12, Issue 5, 1-13, Article Number 719, 2019.

DOI: 10.3390/ma12050719

Accession Number: WOS: 000462543700035

Document Type: Article

FI = 2,972

8. Mocanu AC; Stan GE; Maidaniuc A; Miculescu M; **Antoniac IV**; Ciocoiu RC; Voicu SI; Mitran V; Cimpean A; Miculescu F; *Naturally-Derived Biphasic Calcium Phosphates through Increased Phosphorus-Based Reagent Amounts for Biomedical Applications*, MATERIALS, Volume 12, Issue 3, 1-17, Article Number 381, 2019.

DOI: 10.3390/ma12030381

Accession Number: WOS: 000460768000050

Document Type: Article

FI = 2,972

9. Pantea M; **Antoniac I**; Trante O; Ciocoiu R; Fischer CA; Traistaru T; *Correlations between connector geometry and strength of zirconia-based fixed partial dentures*, MATERIALS CHEMISTRY AND PHYSICS, Volume 222, 96-109, 2019.

DOI: 10.1016/j.matchemphys.2018.09.063

Accession Number: WOS: 000450379900012

Document Type: Article

FI = 2,781

10. Buzatu Mihai; Geanta Victor; Stefanoiu R; Butu M; Petrescu MI; Buzatu M; **Antoniac I**; Iacob G; Niculescu F; Ghica SI; Moldovan H; *Investigations into Ti-15Mo-W alloys developed for medical applications*, MATERIALS, Volume 12, Issue 1, 1-10, Article Number 147, 2019.

DOI: 10.3390/ma12010147

Accession Number: WOS: 000456410200147

Document Type: Article

FI = 2,972

11. A.C. Mocanu, A.F., Dobre, C.A. Dascalu, A. Maidaniuc, A. Ernuteanu, M. Soare, Raluca I. Zamfir, D. Gheorghe, A. Saceleanu, V. Saceleanu, Extensive quality control sequence for non-destructive characterization of implants for dental restorations, U.P.B. - Scientific Bulletin in series B-chemistry and materials science, 2019, Vol. 81, Iss. 2, pp.: 225-238, Document Type: Article; Research Areas: Chemistry, Web of Science Categories: Chemistry, Multidisciplinary; WOS: 000487213500020.

12. S. Gradinaru, D. Tabaras, G. Gheorghe, D. Gheorghita, Raluca I. Zamfir, M. Vasilescu, M. Dobrescu, G. Grigorescu, Analysis of the anisotropy for 3Dprinted PLA parts usable in medicine, U.P.B. - Scientific Bulletin in series B-chemistry and materials science, 2019, Vol. 81, Iss. 4, pp.: 313-324, Document Type: Article, Research Areas: Chemistry, Web of Science Categories: Chemistry, Multidisciplinary, WOS:000501994100029.
13. Effect of Local Heating on the Mechanical Characteristics of Repaired Automotive Panels; Author(s): Navodariu, N; Branzei, M; Ciocoiu, R; Ciuca, I; Coman, R; Raiciu, AD; Semenescu, A; Antoniac, I; Gradinaru, S; Cristescu, I; MATERIALE PLASTICE Volume: 56 Issue: 4 Pages: 750-758; DEC 2019;
14. Fractography Study of Explanted Intramedullary Nails; Author(s): Cristescu, I; Antoniac, I; Branzei, M; Ghiban, B; Ciocoiu, R; Ciuca, I; Semenescu, A; Gradinaru, S; Pop, D; Raiciu, AD; MATERIALE PLASTICE Volume: 56 Issue: 4 Pages: 759-773; DEC 2019;
15. The Influence of Thermal Shocks on the Thermophysical Properties of the Zircaloy-4; Anghel, DC; Rosu, AE; Neacsu, G; Popa, IA; Branzei, M; Rizea, V; Ducu, CM; Dicu, MM; Rizea, AD; Ungureanu, E; Abrudeanu, M; REVISTA DE CHIMIE Volume: 70 Issue: 2 Pages: 575-577; FEB 2019;
16. Mechanical vs. Electrical Properties of Conductive Adhesive Bonds as Function of Operating Temperature; Author(s): Branzei, M; Svasta, PM; Vladescu, M; Plotog, I; Mihailescu, B; Varzaru, G; IEEE; 2019 42ND INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY (ISSE) Book Series: International Spring Seminar on Electronics Technology ISSE Published: 2019;
17. Thermal Investigations on Modules Realized Using Solderless Assembly for Electronics Technology; Author(s): Ionescu, C; Branzei, M; Codreanu, N; Varzaru, G; IEEE; 2019 42ND INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY (ISSE) Book Series: International Spring Seminar on Electronics Technology ISSE Published: 2019;
18. Diana M Vranceanu, Anca C Parau, Cosmin M Cotrut, Adrian E Kiss, Lidia R Constantin, Viorel Braic, Alina Vladescu, In vitro evaluation of Ag doped hydroxyapatite coatings in acellular media, Ceramics International, 2019, Vol. 45, Iss. 8, pp.11050-11061; F.I.2020 = 3.450; DOI: 10.1016/j.ceramint.2019.02.191; Document Type: Article; Research Areas: Materials Science; Web of Science Categories: Materials Science, Ceramics WOS:000465058500170; Q1
19. Vladescu A., Parau A.C., Pana I., Cotrut M. Cosmin, Constantin L.R., Braic V., Diana M Vranceanu., In vitro activity assays of sputtered HAp coatings with SiC addition in various simulated biological fluids, Coatings, 2019, Vol. 9, Iss. 6, Article number 389; F.I.2020 = 2.330; DOI: 10.3390/coatings9060389; Document Type: Article; Research Areas: Materials Science; Web of Science Categories: Materials Science, Coatings & Films; WOS:000473753000044; Q2

20. Li Xiang, Pan Dong, XiangZhen, Lu Wei, **Batalu Dan**. Microstructure and magnetic properties of Mn₅₅Bi₄₅ powders obtained by different ball milling processes. *Metals*, 2019, vol. 9, no. 4, 9 p (WOS: 000467637000058 , IF 2018 = 2.259).
21. ZhenXiang, Xiao Wang, Yiming Song, Lunzhou Yu, Erbiao Cui, Baiwen Deng, **Dan Batalu**, Wei Lu. *Effect of cooling rates on the microstructure and magnetic properties of MnAl permanent magnetic alloys*. *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 2019, vol. 475, pp. 479-483 (WOS: 000458152000069, IF 2018 = 2.683).
22. Gozzelino Laura, Gerbaldo Roberto, Ghigo Gianluca, Laviano Francesco, Torsello Daniele, Bonino Valentina, Truccato Marco, **Batalu Dan**, Grigoroscuta Mihai A, Burdusel Mihail, Aldica Gheorghe, Badica Petre. *Passive magnetic shielding by machinable MgB₂ bulks: measurements and numerical simulations*, *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*, 2019, vol. 32, no. 3, #034004 (WOS:000458129500002, IF 2018 = 2.489).
23. **Dan Batalu**, Florin Nastase, Manuella Militaru, Mihaela Gherghiceanu, Petre Badica. *NiTi coated with oxide and polymer films in the in vivo healing processes*. *JOURNAL of Materials Research and Technology*, 2019, vol. 8, no. 1, p. 914–922 (WOS: 000467081300099, IF 2018 = 3.327).
24. *Gheorghe, D ; Pencea, I ; Antoniac, IV; Turcu, RN*, Investigation of the Microstructure, Hardness and Corrosion Resistance of a New 58Ag₂₄Pd₁₁Cu₂Au₂Zn_{1.5}In_{1.5}Sn Dental Alloy, *MATERIALS*, Volume: 12 Issue: 24, Article Number: 4199, WOS:000507308200177, Published: DEC 2019, **FI: 2.97**
25. Tecu C; **Antoniac I**; Goller G; Yava B; Gheorghe D; Antoniac A; Ciuca I; Semenescu A; Raiciu AD; Cristescu I; *The Sintering Behaviour and Mechanical Properties of Hydroxyapatite - Based Composites for Bone Tissue Regeneration*, *MATERIALE PLASTICE*, Volume 56, Issue 3, 644-648, 2019.
 Accession Number: WOS: 000487764000035
 Document Type: Article
 FI = 1,393
26. Dawod N; Florescu A; **Antoniac IV**; Stoia DI; Hancu V; Biclesanu FC; *The FEA Study of the Biomechanic Behavior of Canine Reconstructed with Composite Resin*, *REVISTA DE CHIMIE*, Volume 70, Issue 7, 2456-2462, 2019.
 Accession Number: WOS: 000485843500034
 Document Type: Article
 FI = 1,605
27. Buruiana AM; Biclesanu FC; **Antoniac IV**; Miculescu M; Predescu AM; Hancu V; *Clinical-statistical Study on the Biomimetic Adhesion of whole Ceramic Inlays*, *REVISTA DE CHIMIE*, Volume 70, Issue 6, 1934-1941, 2019.
 Accession Number: WOS: 000475860100010
 Document Type: Article
 FI = 1,605
28. Buzatu M; Geanta V; Stefanoiu R; Butu M; Petrescu MI; Buzatu M; Ghica SI; **Antoniac I**; Iacob G; Niculescu F; Marcu DF; Moldovan H; *Mathematical modeling for correlation of the resistance to compression with the parameters Md, Bo and E/A, for*

the design of titanium beta alloys developed for medical applications, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 81, Issue 1, 183-192, 2019.

Accession Number: WOS: 000465035300016

Document Type: Article

29. Mates I; **Antoniac I**; Laslo V; Vicas S; Brocks M; Fritea L; Milea C; Mohan A; Cavalu S; *Selenium nanoparticles: production, characterization and possible applications in biomedicine and food science*, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume 81, Issue 1, 205-216, 2019.

Accession Number: WOS: 000465035300018

Document Type: Article

30. Almasi A; **Antoniac I**; Focsaneanu S; Manole M; Ciocoiu R; Trante O; Earar K; Saceleanu A; Porumb A; Ratiu C; *Design improvement of Y-TZP threeunit bridges by predicted stress concentration using FEA and experimental failure modes after three point bending test*, REVISTA DE CHIMIE, Volume 70, Issue 1, 336-342, 2019.

Accession Number: WOS: 000460428100074

Document Type: Article

FI = 1,605

31. **Pencea, I.** *Multiconvolutional Approach to Treat the Main Probability Distribution Functions Used to Assess the Uncertainties of Metallurgical Tests*, capitolul 6 in *Metallurgy - Advances in Materials and Processes*, Editura InTech, ISBN 978-953-51-0736-1, 2012, 186 pg, DOI: 10.5772/2852.
32. MATES I., ANTONIAC I., LASLO V., VICAS S., BROCKS M., FRITEA L., **MILEA C.**, MOHAN A, CAVALU S. , *Selenium nanoparticles: Production, characterization and possible applications in biomedicine and food science*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science 81(1):205-216, 2019.
33. Doncean Ghe., Pop D., Ciocoiu R., Trante O., **Milea C.**, Mohan A., Benea H., Saceleanu V., *Microstructure development in titanium and its alloys used for medical applications* , UPB Scientific Bulletin, Series B: Chemistry and Materials Science 81(1):244-258, 2019.
34. Chitea C., Tomoaia Ghe., Toader O., **Milea C.**, Trante O., Kamel E., Saceleanu V., *Evaluation of the Biocompatibility and Graft Integration Following Ligamentoplasty or Augmentation Experimental study on rabbits*, Revista de Chimie -Bucharest- Original Edition- 4(70):1460-1465, 2019.
35. Ciocoiu R., Navodariu N., Dinita A., Trante O., **Milea C.**, Ciuca I., Coman R, Saceleanu V., *SURFACE REPAIRS BY MMAW AND MIG -INFLUENCES ON FRACTURE ENERGY*, UPB Scientific Bulletin, Series B: Chemistry And Materials Science 81(3):209-218, 2019.
36. S. GRADINARU, D. TABARAS, D. GHEORGHE, D. GHEORGHITA, R. ZAMFIR, M. VASILESCU, **M. DOBRESCU**, G. GRIGORESCU, I. CRISTESCU, *ANALYSIS OF THE ANISOTROPY FOR 3D PRINTED PLA PARTS USABLE IN MEDICINE*, UPB Scientific Bulletin, Series B Chemistry and Materials Science, ISSN: 1454-2331, INDEXED by Elsevier, SCOPUS and ISI Web of Science, Volume: 81 Issue: 4 Pages: 313-324 Published: 2019 Accession Number:

WOS: 000501994100029

FI=0,17 (2019)

37. M. Vasilescu, **M. Dobrescu**, FATIGUE PROPERTIES MODIFICATION ON HEATING OF SHAPE MEMORY NI-TI ALLOYS, Proceedings of 19th International Multidisciplinary Scientific GeoConference SGEM 2019, Albena, Bulgaria, INDEXED by Elsevier, SCOPUS and ISI Web of Science, in curs de publicare ISI, Volume: 19 Issue: 6.2 Pages: 139-146 Published: 2019 Accession Number: WOS:DOI: 10.5593/SGEM2019/6.2/S26.018Articles in press;FI=0,104
38. **R. E. Dumitrescu**, I. A. Gherghescu, S. Ciuca, M. Ciurdas, D. A. Neculescu, I. M. Vasile, *Microstructural Aspects of Some Magnesium Matrix Composites Reinforced with Amorphous/Nanocrystalline Ni-Ti Particulates*, Revista de Chimie, Volume 70, Issue 8, pp. 2903-2907 (2019)
39. C. Predescu, A. C. Berbecaru, G. Coman, M.G. Sohaciu, A. M. Predescu, E. Matei, **R. E. Dumitrescu**, S. Ciuca, I. A. Gherghescu, *Corrosion Resistance Evaluation of Some Stainless Steels Used in Manufacture of Hydraulic Turbine Runner Blades*, REV CHIM - BUCHAREST, Volume 70, Issue 7, pp. 2491-2496 (2019)
40. G. Coman, M. C. Pantilimon, M. G. Sohaciu, S. Ciucă, M.G. Anton, C. Predescu, **R.E. Dumitrescu**, A.C. Berbecaru, I.A. Gherghescu, *Cavitation Erosion Resistance Tests Performed on Some Stainless Steels for Turbine Runner Blades*, REV CHIM - BUCHAREST, Volume 70, No. 5, 2019, pp. 1655 – 1663, ISSN: 0034-7752
41. A. C. Berbecaru, G. Coman, C. S. Gradinaru, M. G. Sohaciu, C. Predescu, **R. E. Dumitrescu**, S. Ciucă, I.A. Gherghescu, *Microstructural Characterization of Some Turbine Blade Martensitic Stainless Steels*, REV CHIM- BUCHAREST, Volume 70, No. 4, 2019, pp. 1132 – 1139, ISSN: 0034-7752 WOS: 000469387200006
42. Saveleva M., Vladescu A., **Cosmin M Cotrut**, Van der Meeen L., Surmeneva M., Surmenev R., Parakhonskiy B., Skirtach A.G., The effect of hybrid coatings based on hydrogel, biopolymer and inorganic components on the corrosion behavior of titanium bone implants, Journal of Materials Chemistry B., 2019, Vol. 7, Iss. 43, pp. 6778-6788, F.I.2020 = 5.047; DOI: 10.1039/c9tb01287g; Document Type: Article; Research Areas: Materials Science; Web of Science Categories: Materials Science, Biomaterials; WOS:000494679300007
43. Bolmaro R., Parau A.C., Pruna V., Surmeneva M.A., Constantin L.R., Avalos M., **Cosmin M Cotrut**, Tutuianu R., Braic M., Cojocaru D.V., Dan I., Croitoru S., Surmenev R.A., Vladescu A., Investigation of cast and annealed Ti25Nb10Zr alloy as material for orthopedic devices, Journal of Materials Research and Technology, 2019, Vol. 8, Iss. 4, pp. 3399-3414; F.I.2020 = 3.327; Article; DOI: 10.1016/j.jmrt.2019.06.006; Document Type: Article; Research Areas: Materials Science; Metallurgy & Metallurgical Engineering; Web of Science Categories: Materials Science, Multidisciplinary; Metallurgy & Metallurgical Engineering; WOS:000475748000002;
44. Karlsdottir SN, Geambazu LE, Csaki I, Thorhallsson AI, Stefanoiu R, Magnus F., **Cosmin M Cotrut**, Phase Evolution and Microstructure Analysis of CoCrFeNiMo High-Entropy Alloy for Electro-Spark-Deposited Coatings for Geothermal Environment, Coatings, 2019, Vol. 9, Iss. 6, Article number 406; F.I.2020 = 2.330; DOI: 10.3390/coatings9060406; Document Type: Article; Research Areas: Materials Science; Web of Science Categories: Materials Science, Coatings & Films WOS:000473753000061;
45. Vladescu, A., Pârâu, A., Pana, I., **Cosmin M Cotrut**, Constantin L.R., Braic, V., Vrânceanu, D.M, In vitro activity assays of sputtered HAp coatings with SiC addition in various simulated biological fluids, Coatings, 2019, Vol. 9, Iss. 6, Article number

- 389; F.I.2020 = 2.330; DOI: 10.3390/coatings9060389; Document Type: Article; Research Areas: Materials Science; Web of Science Categories: Materials Science, Coatings & Films; WOS:000473753000044;
46. Diana M Vranceanu, Anca C Parau, **Cosmin M Cotrut**, Adrian E Kiss, Lidia R Constantin, Viorel Braic, Alina Vladescu, In vitro evaluation of Ag doped hydroxyapatite coatings in acellular media, *Ceramics International*, 2019, Vol. 45, Iss. 8, pp.11050-11061; F.I.2020 = 3.450; DOI: 10.1016/j.ceramint.2019.02.191; Document Type: Article; Research Areas: Materials Science; Web of Science Categories: Materials Science, Ceramics WOS:000465058500170;
 47. David S., Sarbu I., **Cosmin M Cotrut**, Comaneanu R.M., Stoian M., Patroi D.N., Studies About Degradation of Zirconia in Artificial Saliva, *Revista de Chimie*, 2019, Vol. 70, Iss. 3, pp. 863-865; F.I.2020 = 1.605; Document Type: Article; Research Areas: Chemistry; Engineering; Web of Science Categories: Chemistry, Multidisciplinary; Engineering, Chemical; WOS:000464911600023;
 48. A Vladescu, V Pruna, S Kulesza, V Braic, I Titorencu, M Bramowicz, **Cosmin M Cotrut**, Influence of Ti, Zr or Nb carbide adhesion layers on the adhesion, corrosion resistance and cell proliferation of titania doped hydroxyapatite to the Ti6Al4V alloy substrate, *Ceramics International*, 2019, Vol.45, Iss. 2, pp.: 1710-1723; F.I.2020 = 3.450; DOI: 10.1016/j.ceramint.2018.10.053; Document Type: Article; Research Areas: Materials Science; Web of Science Categories: Materials Science, Ceramics; WOS:000453492800028;
 49. Ghica, Ș.I., **Cotruț, C.M.**, Buzatu, M., Antoniac IV., Geanta V., Butu M., Petrescu M.I., Stefanoiu R., Ungureanu E., Iacob, G., Ionescu, R.N., *In vitro corrosion behavior of Ti-Mo-W alloys in artificial saliva*, IOP Conference Series: Materials Science and Engineering, **2019**, Vol. 572, Iss.1,012028
 50. Dumitrescu, Ruxandra Elena; Gherghescu, Ioana Arina; Ciuca, Sorin; et al., Microstructural Aspects of Some Magnesium Matrix Composites Reinforced with Amorphous/Nanocrystalline Ni-Ti Particulates, *REVISTA DE CHIMIE* Volume:70, Issue: 8, 2019, Pages: 2903-2907, Published: AUG. 2019
 51. Predescu, Cristian; Berbecaru, Andrei Constantin; Coman, George; **Ciuca, Sorin**; et al., Corrosion Resistance Evaluation of Some Stainless Steels Used in Manufacture of Hydraulic Turbine Runner Blades, *REVISTA DE CHIMIE* Volume: 70 Issue: 7 Pages: 2491-2496 Published: JUL 2019
 52. Coman, George; Pantilimon, Mircea Cristian; Sohaciu, Mirela Gabriela; **Ciuca, Sorin** et al., Cavitation Erosion Resistance Tests Performed on Some Stainless Steels for Turbine Runner Blades, , Volume: 70, Issue: 5, 2019, Pages: 1655-1663,
 53. Berbecaru, Andrei Constantin; Coman, George; Gradinaru, Catalin Stefan; **Ciuca, Sorin** et al, Microstructural Characterization of Some Turbine Blade Martensitic Stainless Steels,, ., *REVISTA DE CHIMIE* Volume: 70 , Issue: 4, Pages: 1132-1139 , Published: APR 2019
 54. Pantilimon, Mircea Cristian; Berbecaru, Andrei; **Ciuca, Sorin**; et al., TRANSFORMATION INDUCED PLASTICITY STEELS USED IN AUTOMOTIVE INDUSTRY, UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN SERIES B-CHEMISTRY AND MATERIALS SCIENCE Volume: 81 Issue: 4 Pages: 273-280 Published: 2019

55. Volceanov, Eniko; Popa, Cristina Georgiana; Volceanov, Adrian; **Ciuca, Sorin** et al., CHEMICAL STABILITY IN ARTIFICIAL SALIVA OF ZIRCONIA BIOCERAMICS, REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS, Volume:49, Issue:3, Pages: 313-321, Published: 2019
56. R. Ciocoiu, N. Navodariu, A. Dinita, O. Trante, C. Milea, **I. Ciuca**, R. Coman, V. Saceleanu, Surface repairs by mmaw and mig-influences on fracture energy, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 81(3), p. 209-218, 2019, ISSN 1454-2331 (ISI)
57. R. Ciocoiu, R. Coman, O. Trante, A. Daniela Raiciu, M. Vasile, **I. Ciuca**, N. Navodariu, I. Cristescu, Corrosion behavior of welded repairs for water turbine blades, Revista de Chimie, 70(7), p. 2497-2501, 2019, ISSN 2537/5733, (ISI, 2018-Impact Factor 1,605)
58. V. Rucai, N. Constantin, **I. Ciuca**, B. Ghiban, Mathematical processing and structural explanation of surface tension polythermal diagram reached out to achieve critical temperature of thermo-time treatment for a Ni based superalloy, Revista de Chimie, 70 (6), p. 2232-2236, 2019, ISSN 2537/5733, (ISI, 2018-Impact Factor 1,605)
59. C. Tecu, I. Antoniac, G. Goller, B. Yavas, D. Gheorghe, A. Antoniac, **I. Ciuca**, A. Semenescu, A. Daniela Raiciu, I. Cristescu, The sintering behaviour and mechanical properties of Hydroxyapatite-based composites for bone tissue regeneration, Materiale Plastice, 56(3), p. 644-648, 2019, ISSN 0025-5289 (ISI, 2018-Impact Factor 1,393)
60. D. Bolcu, M.M. Stănescu, **I. Ciucă**, A. Diniță, A. Roșca, D. Roșca, Experimental research into the mechanical behavior of Dammar and Sandarac-based bio resins, Materiale Plastice, 56(1), p. 1-5, 2019, ISSN 0025-5289 (ISI, 2018-Impact Factor 1,393)
61. Mocanu, AC; Stan, GE; Maidaniuc, A; Miculescu, M; Antoniac, IV; Ciocoiu, RC; Voicu, SI; Mitran, V; Cimpean, A; **Miculescu, F**, Naturally-Derived Biphasic Calcium Phosphates through Increased PhosphorusBased Reagent Amounts for Biomedical Applications, MATERIALS, Volume: 12, Issue: 3, Article Number: 381, DOI: 10.3390/ma12030381, WOS:000460768000050, ISSN: 1996-1944, 2019. (Corresponding Author) Q2, IF 2.972
62. Antoniac, I; Popescu, D; Zapciu, A; Antoniac, A; **Miculescu, F**; Moldovan, H, Magnesium Filled Polylactic Acid (PLA) Material for Filament Based 3D Printing, MATERIALS, Volume: 12, Issue: 5, Article Number: 719, DOI: 10.3390/ma12050719, WOS:000462543700035, ISSN: 1996-1944, 2019. Q2, IF 2.972
63. Antoniac, IV; Stoia, DI; Ghiban, B; Tecu,.; **Miculescu, F**; Vigarau, C; Saceleanu, V, Failure Analysis of a Humeral Shaft Locking Compression PlateSurface Investigation and Simulation by Finite Element Method, MATERIALS, Volume: 12, Issue: 7, Article Number: 1128, DOI: 10.3390/ma12071128, WOS:000465500700127, ISSN: 1996-1944, 2019. Q2, IF 2.972
64. Karlsdottir, SN; Csaki, I; Antoniac, IV; Manea, CA; Stefanoiu, R; Magnus, F; **Miculescu, F**, Corrosion behavior of AlCrFeNiMn high entropy alloy in a geothermal environment, GEOTHERMICS, Volume: 81, Pages: 32-38, DOI: 10.1016/j.geothermics.2019.04.006, WOS:000472689800003, ISSN: 0375-6505, eISSN: 1879-3576, 2019. Q1, IF 3.47
65. Mocanu, AC; Miculescu, M; Machedon-Pisu, T; Maidaniuc, A; Ciocoiu, RC; Ionita, M; Pasuk, J; Stan, GE; **Miculescu F**, Internal and external surface features of newly developed porous ceramics with random interconnected 3D channels by a fibrous sacrificial porogen method, APPLIED SURFACE SCIENCE, Volume: 489, Pages: 226-238, DOI: 10.1016/j.apsusc.2019.05.354, WOS:000474530600024, ISSN: 0169-4332, eISSN: 1873-5584, 2019. (Corresponding Author) Q1, IF 5.155 9

66. Dascălu, CA; Maidaniuc, A; Pandele AM; Voicu, SI; Machedon-Pisu, T; Stan, GE; Cîmpean, A; Mitran, V; Antoniac, IV; **Miculescu, F**; Synthesis and characterization of biocompatible polymer-ceramic film structures as favorable interface in guided bone regeneration, *Applied Surface Science*, Volume: 494, Pages: 335–352, DOI: 10.1016/j.apsusc.2019.07.098, WOS: ISSN: 0169-4332, eISSN: 1873-5584, 2019. Q1 (Corresponding Author) Q1, IF 5.155
67. Manea, CA; Csaki, I; Geambazu, LE; **Miculescu, F**; Petrescu, MI; Fanicchia, F (; Sohaciu, M; Rosu, L, HfNbTaTiZr high entropy alloy processed by mechanical alloying, *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science*, Vol. 81, Iss. 3, Pag. 201-208, WOS:000487215400020, ISSN: 1454-2331, 2019
68. Geambazu, L.E., Manea, C.A., Csaki, I., **Miculescu, F.**, Al_{0.5}CrCoFeNi high entropy alloy for Geothermal Environment, ISSN: 17578981, IOP Conference Series: Materials Science and Engineering Volume 572, Issue 1, Article number 012073, 2019 International Conference on Innovative Research, ICIR EUROINVENT 2019; Iasi; Romania; Code 150123, DOI: 10.1088/1757-899X/572/1/012073, Indexat SCOPUS, 2019
69. Csáki, I., Karlsdottir, S.N., Stefanoiu, R., Geambazu, L.E., **Miculescu, F.**, Thorlaksson, A.I., Motoiu, A.V., Mechanically alloyed CoCrFeNiMo high entropy alloy behavior in geothermal steam, *NACE - International Corrosion Conference Series*, Volume 2019-March, Article number 13239, Corrosion Conference and Expo 2019; Nashville; United States; 24 March 2019 through 28 March 2019; Code 149623, ISSN: 03614409, Indexat SCOPUS, 2019.
70. A.C. Mocanu, M. Miculescu, T. Machedon-Pisu, A. Maidaniuc, S.I. Voicu, R.C. Ciocoiu, A.M. Pandele, M. Ionita, G.E. Stan, **F. Miculescu**, Internal and external surface features of newly developed porous ceramics with random interconnected 3d channels by fibrous sacrificial porogen method, *BRAMAT 2019*, 11th International Conference on Materials Science & Engineering, Brasov, Romania, 2019.
71. A. Maidaniuc, M. Miculescu, T.M. Butte, L.M. Boldu, R.C. Ciocoiu, G.E. Stan, I.V. Antoniac, T. Machedon Pisu, **F. Miculescu**, Effect of processing parameters on the morphology, surface and mechanical properties of sintered ceramics prepared from fish bone, *BRAMAT 2019*, 11th International Conference on Materials Science & Engineering, Brasov, Romania, 2019.
72. C.A. Dascălu, I. V. Antoniac, A. Maidaniuc, A.M.Pandele, S.I. Voicu, T. Machedon-Pisu, G.E. Stan, A. Cîmpean, V. Mitran, **F. Miculescu**, Synthesis and characterization of biocompatible polymer-ceramic film structures as favorable interface in guided bone regeneration, *BRAMAT 2019*, 11th International Conference on Materials Science & Engineering, Brasov, Romania, 2019
73. N. Levința, Z. Vuluga, **F. Miculescu**, M.C. Corobea, C.A. Nicolae, R. Gabor, A.A. Măinea, G.M. Teodorescu, Nanocomposites based on polyamide 6/halloysite versus polyamide 6/hydrotacite, *RICCCE 21*, 21st Romanian International Conference on Chemistry and Chemical Engineering, 4-7 September 2019, Constanta, Romania.
74. AC Mocanu, G.E. Stan, A. Maidaniuc, **M. Miculescu**, VI Antoniac, R.C. Ciocoiu, S.I. Voicu, , V. Mitran, A. Campean, F. Miculescu, Naturally-Derived Biphasic Calcium Phosphates through Increased PhosphorusBased Reagent Amounts for Biomedical Applications, *Materials* 2019, 12(3), 1338–1349, DOI: 10.3390/ma12030381, ISSN: 1996-1944. WOS:000460768000050, Factor de impact mai 2020 IF 2,467 – 50*2.467/10=12,335