

## 2014

1. Petreus T; Stoica BA; Petreus O; Goriuc A; Cotrutz CE; **Antoniac IV**; Barbu-Tudoran L; *Preparation and cytocompatibility evaluation for hydrosoluble phosphorous acid-derivatized cellulose as tissue engineering scaffold material*, JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, Volume 25, Issue 4, 1115-1127, 2014.  
DOI: 10.1007/s10856-014-5146-z  
Accession Number: WOS: 000333093300015  
Document Type: Article
2. FI = 2,467 Ionescu R; Mardare M; Dorobantu A; Vermesan S; Marinescu E; Saban R; **Antoniac I**; Ciocan DN; Ceausu M; *Correlation between materials, design and clinical issues in the case of associate use of different stainless steels as implant materials*, KEY ENGINEERING MATERIALS, Volume 583, 41-44, 2014.  
DOI: 10.4028/www.scientific.net/KEM.583.41  
Accession Number: WOS: 000336552600008  
Document Type: Proceedings Paper
3. Voicu SI; **Antoniac I**; Naftanaila L; Nechifor G; *The functionalization of remaining solvent in polymeric membrane pores for biomedical applications*, KEY ENGINEERING MATERIALS, Volume 583, 87-90, 2014.  
DOI: 10.4028/www.scientific.net/KEM.583.87  
Accession Number: WOS: 000336552600014  
Document Type: Proceedings Paper
4. Miculescu F; Pencea I; Miculescu M; **Antoniac I**; Ciocan LT; Ernuteanu A; *Energy dispersive techniques using X-ray fluorescence with primary X-rays for human hard tissues analysis*, KEY ENGINEERING MATERIALS, Volume 583, 129-133, 2014.  
DOI: 10.4028/www.scientific.net/KEM.583.129  
Accession Number: WOS: 000336552600022  
Document Type: Proceedings Paper
5. Marinescu R; Laptoiu D; **Antoniac I**; Petcu C; *Development of modified viscoelastic solution with magnetic nanoparticles – potential method for targeted treatment of chondral injuries*, KEY ENGINEERING MATERIALS, Volume 583, 145-149, 2014.  
DOI: 10.4028/www.scientific.net/KEM.583.145  
Accession Number: WOS: 000336552600024  
Document Type: Proceedings Paper
6. Cosmin B; **Iulian A**; Florin M; Marius D; Ionel D; *Investigation of a mechanical valve impair ment after eight years of implantation*, KEY ENGINEERING MATERIALS, Volume 583, 137-144, 2014.  
DOI: 10.4028/www.scientific.net/KEM.583.137  
Accession Number: WOS: 000336552600023  
Document Type: Proceedings Paper
7. Carbonell-Blasco P; **Antoniac IV**; Martin-Martinez JM; *New polyurethane sealants containin grosin for non-invasive disc regeneration surgery*, KEY ENGINEERING MATERIALS, Volume 583, 67-79, 2014.  
DOI: 10.4028/www.scientific.net/KEM.583.67

- Accession Number: WOS:000336552600012  
Document Type: Proceedings Paper
8. Ionescu R; Cristescu I; Dinu M; Saban R; **Antoniac I**; Vilcioiu D; *Clinical, biomechanical and biomaterials approach in the case of fracture repair using different systems type plate-screw*, KEY ENGINEERING MATERIALS, Volume 583, 150-154, 2014.  
DOI: 10.4028/www.scientific.net/KEM.583.150  
Accession Number: WOS: 000336552600025  
Document Type: Proceedings Paper
9. Cotrut CM; Ciuca S; Miculescu F; **Antoniac I**; Tarcolea M; Vranceanu DM; *The influence of classical and modern manufacturing technologies on the properties of metal dental bridges*, KEY ENGINEERING MATERIALS, Volume 583, Pages 163-168, 2014.  
DOI: 10.4028/www.scientific.net/KEM.583.163  
Accession Number: WOS: 000336552600027  
Document Type: Proceedings Paper
10. **Antoniac I**; *Biodegradability of some collagen sponges reinforced with different bioceramics*, KEY ENGINEERING MATERIALS, Volume 587, 179-184, 2014.  
DOI: 10.4028/www.scientific.net/KEM.587.179  
Accession Number: WOS: 000336185000029  
Document Type: Proceedings Paper
11. Manolea H; **Antoniac I**; Florescu N; Marasescu P; Miculescu M; Dascalu IT; *Study of the expansion behaviour of some materials used in the dental metal-ceramic technology*, KEY ENGINEERING MATERIALS, Volume 587, 366-371, 2014.  
DOI: 10.4028/www.scientific.net/KEM.587.366  
Accession Number: WOS:000336185000061  
Document Type: Proceedings Paper
12. Togan V; Ionita G; **Antoniac I**; *Corrosion behavior of Ti6Al4V coated with SiO<sub>x</sub> by PECVD technology*, KEY ENGINEERING MATERIALS, Volume 583, 22-27, 2014.  
DOI: 10.4028/www.scientific.net/KEM.583.22  
Accession Number: WOS:000336552600004  
Document Type: Proceedings Paper
13. Carmen BA; Dorin L; Sorin SI; Carmen B; Alexandru B; Eduard B; **Iulian A**; Corneliu M, *New titanium alloys potentially used for metal-ceramic applications in medicine*, KEY ENGINEERING MATERIALS, Volume 587, 287-292, 2014.  
DOI: 10.4028/www.scientific.net/KEM.587.287  
Accession Number: WOS:000336185000047  
Document Type: Proceedings Paper
14. Marius N; **Iulian A**; Ana B, *Metallic biomaterials processing technologies in order to obtain a new design for a hip prosthesis femoral component*, ADVANCED MATERIALS AND STRUCTURES V, Volume 216, 239-242, 2014.  
DOI: 10.4028/www.scientific.net/SSP.216.239  
Accession Number: WOS: 000347924100041  
Document Type: Proceedings Paper

15. Barbinta AC; Luca D; Strugaru I.S; Biniuc C; Barca A; Barca E; **Antoniac I**; Munteanu C; *New titanium alloys potentially used for metal-ceramic applications in medicine*, KEY ENGINEERING MATERIALS, Volume 587, 287-292, 2014.  
DOI: 10.4028/www.scientific.net/KEM.587.287  
Document Type: Conference Paper.  
Indexat SCOPUS
16. Miculescu M; Bane M; Miculescu F; Ciocan LT; PredaOana; **Antoniac I**; *A study on metal-ceramic interface on metal base dental alloys*, KEY ENGINEERING MATERIALS, Volume 638, 14-19, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.14  
Document Type: Conference Paper.  
Indexat SCOPUS
17. Dinu M; Braic M; Tarcolea M; Vladescu A; **Antoniac I**; Cotrut CM; *Corrosion behavior of TiSiN coatings deposited on Ni-Cr alloy in artificial saliva with and without fluoride*, KEY ENGINEERING MATERIALS, Volume 638, 47-53, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.47  
Document Type: Conference Paper.  
Indexat SCOPUS
18. Crimu CI; Istrate B; Munteanu C; **Antoniac I**; Matei MN; Earar K; *XRD and Microstructural analyses on biodegradable Mg alloys*, KEY ENGINEERING MATERIALS, Volume 638, 79-84, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.79  
Document Type: Conference Paper.  
Indexat SCOPUS
19. Cirstoiu M; Cirstoiu C; **Antoniac I**; Munteanu O; *Bleeding Disorders – A Frequent Complication Related to the Use of Intrauterine Device with Low Dose Hormonal Mechanism of Action*, KEY ENGINEERING MATERIALS, ISSN: 1662-9795, Volume 638, 216-221, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.79  
Document Type: Conference Paper  
Indexat SCOPUS
20. Bors A; Székely M; Ponta O; **Antoniac I**; *Erosion effects on morphology and chemical composition of direct dental restoratives*, KEY ENGINEERING MATERIALS, Volume 638, 286-295, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.286  
Document Type: Conference Paper.  
Indexat SCOPUS
21. Blajan AI; Miculescu F; Ciuca I; Cotrut C; Semenescu A; **Antoniac I**; *Effect of calcium content on the microstructure and degradation of Mg-Ca binary alloys potentially used as orthopedic biomaterials*, KEY ENGINEERING MATERIALS, Volume 638, 104-108, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.104  
DocumentType: Conference Paper.  
Indexat SCOPUS
22. Miculescu F; Ciocan LT; Miculescu M; **Antoniac I**; Purcaru A; Preda O; Maidaniuc A; *Cooling conditions influence on cortical bovine bones derived hydroxyapatite*, KEY ENGINEERING MATERIALS, Volume 638, 111-116, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.111  
Document Type: Conference Paper.  
Indexat SCOPUS

23. Cristescu I; **Antoniac I**; Vilcioiu D; Safta F; *Analysis of centromedullary nailing with implant failure*, KEY ENGINEERING MATERIALS, Volume 638, 130-134, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.130  
Document Type: Conference Paper.  
Indexat SCOPUS
24. Adam R; Orban C; Gheorghiu N; Orban H; **Antoniac I**; *Bisphosphonates vs. atypical femur fractures - influence on bone resorption*, KEY ENGINEERING MATERIALS, Volume 638, 296-300, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.296  
Document Type: Conference Paper.  
Indexat SCOPUS
25. Voicu SI; Muhulet A; **Antoniac IV**; Corobea MS; *Cellulose derivatives based membranes for biomedical applications*, KEY ENGINEERING MATERIALS, Volume 638, 27-30, 2014.  
DOI: 10.4028/www.scientific.net/KEM.638.27  
Document Type: Conference Paper.  
Indexat SCOPUS
26. Niculescu M; Laptoiu D; Miculescu F; **Antoniac I**; *Biomaterials view on the complications associated with hip resurfacing arthroplasty*, ADVANCED MATERIALS RESEARCH, Volume 1114, 247-252, 2014.  
DOI: 10.4028/www.scientific.net/AMR.1114.247  
Document Type: Conference Paper.  
Indexat SCOPUS
27. Weshler M; Antoniac A; Cojocaru D; **Antoniac I**; *In vitro assessment of a new proposed biomaterial and dental implant abutments understatic load*, ADVANCED MATERIALS RESEARCH, Volume 1114, 266-271, 2014.  
DOI: 10.4028/www.scientific.net/AMR.1114.266  
Document Type: Conference Paper  
Indexat SCOPUS
28. Niculescu M; Laptoiu D; Miculescu F; **Antoniac I**; *Metal allergy and other adverse reactions in patients with total hip replacement*, ADVANCED MATERIALS RESEARCH, Volume 1114, 283-287, 2014.  
DOI:10.4028/www.scientific.net/AMR.1114283  
Document Type: Conference Paper.  
Indexat SCOPUS
29. Pariza G; Mavrodin CI; Gangone ME; **Antoniac I**; *Choosing the biomaterials for hernia mesh fixation in correlation with surgical procedure*, ADVANCED MATERIALS RESEARCH, Volume 1114, 253-257, 2014.  
DOI: 10,4028/www.scientific.net/AMR.1114.253  
Document Type: Conference Paper.  
Indexat SCOPUS
30. Mavrodin CI; **Antoniac I**; Pariza G; *Relationship between biomaterials structure used in hernia mesh fixation and chronic infection*, ADVANCED MATERIALS RESEARCH, Volume 1114, 278-282, 2014.  
DOI: 10.4028/www.scientific.net/AMR.1114.278  
Document Type: Conference Paper.  
Indexat SCOPUS

31. Niculescu M; **Antoniac I**; Blajan A; *Metallic biomaterials processing technologies in order to obtain a new design for a hip prosthesis femoral component*, SOLID STATE PHENOMENA, Volume 216, 239-242, 2014.  
DOI: 10.4028/www.scientific.net/SSP.216.239  
Document Type: Conference Paper.  
Indexat SCOPUS
32. Razvan I; **Julian A**; Cosmin C; Florin M; Eugeniu V; Munteanu C; Moldan D; Marius N; *Potential solutions to increase the corrosion resistance of metallic surgical instruments using different types of ceramic coatings*, KEY ENGINEERING MATERIALS, Volume 614, 206-211, 2014.  
DOI: 10.4028/www.scientific.net/KEM.614.206  
Document Type: Conference Paper.  
Indexat SCOPUS
33. Istrate B; Munteanu C; Luca D; Kamel E; Sebastian BE; **Antoniac I**; *Tribological tests and SEM analysis for titanium oxide layers*, KEY ENGINEERING MATERIALS, Volume 614, 74-79, 2014.  
DOI: 10.4028/www.scientific.net/KEM.614.74  
Document Type: Conference Paper.  
Indexat SCOPUS
34. Crimu C; **Antoniac I**; Focsaneanu S; Cristea DP; Istrate B; Munteanu C; Earar K; *The study of microstructure of the Mg alloys in their use in biodegradable orthopedic implants*, ADVANCED MATERIALS RESEARCH, Volume 1036, 207-211, 2014.  
DOI: 10.4028/www.scientific.net/AMR.1036.207  
Document Type: Conference Paper.  
Indexat SCOPUS
35. F. Constantinescu R. Ciocoiu, **O. Trante**, and I. Ciuca, *Hydroxyapatite coating influenced by Ti6Al4V substrate roughness*, Key Engineering Materials Vol. 638 (2015) pp 62-66, (2015) Trans Tech Publications, Switzerland,  
doi:10.4028/www.scientific.net/KEM.638.62, Submitted: 21.11.2014, Accepted: 21.11.2014, ISBN-13: 978-3-03835-432-1
36. Ionescu, **C**; **Branzei**, M; Mihailescu, B; Bonfert, D, *Studies on Thermal Properties of Substrates for Electronics using IR Thermography*; IEEE; 2014 IEEE 20TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME) Book Series: International Symposium for Design and Technology in Electronic Packaging Pages: 45-49; 2014;
37. ; Cucu, TC; Plotog, I; **Branzei, M**; *Mechanical Tests Regarding Low-Temperature Lead-Free Solder Pastes Application in Automotive Electronics*, IEEE; 2014 IEEE 20TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME) Book Series: International Symposium for Design and Technology in Electronic Packaging Pages: 63-68; 2014;
38. **Branzei**, M; Cristea, I; Ciuca, I; Bibis, A; Feder, M; *Correlation between Microstructure and Magnetic Properties on MnZn Ferrite with Bi<sub>2</sub>O<sub>3</sub> Increasing Addition*; ADVANCED MATERIALS AND STRUCTURES V Book Series: Solid State Phenomena Volume: 216 Pages: 23-28; 2014;

39. Miculescu, F; Ciocan, LT; Miculescu, M; Meghea, D; Bane, **M; Branzei, M**; ,Implant surface finishing influence on tissue-implant anchoring, ADVANCED MATERIALS AND STRUCTURES V Book Series: Solid State Phenomena Volume: 216 Pages: 39-44; 2014;
40. ; Miculescu, M; **Branzei, M**; Miculescu, F; Meghea, D; Bane, A study on metal-ceramic thermal expansion compatibility M; ADVANCED MATERIALS AND STRUCTURES V Book Series: Solid State Phenomena Volume: 216 Pages: 85-90; 2014;
41. Ionescu, C; Bonfert, D; **Branzei, M**;Investigation on Thermal Properties of Substrates for Printed Electronics; PROCEEDINGS OF THE 2014 37TH INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY (ISSE) - ADVANCES IN ELECTRONIC SYSTEM INTEGRATION Book Series: International Spring Seminar on Electronics Technology ISSE Pages: 75-80; 2014;
42. **Branzei, M**; Mihailescu, B; Pencea, I , Lead/Lead-Free Solder Alloys Shear Tests Correlations with Structure at Different Temperatures;; PROCEEDINGS OF THE 2014 37TH INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY (ISSE) - ADVANCES IN ELECTRONIC SYSTEM INTEGRATION Book Series: International Spring Seminar on Electronics Technology ISSE Pages: 256-259; 2014;
43. **Dan Batalu**, Ana Maria Stanciuc, Lucia Moldovan, Gheorghe Aldica, Petre Badica. *Evaluation of pristine and  $Eu_2O_3$ -added  $MgB_2$  ceramics for medical applications: hardness, corrosion resistance, cytotoxicity and antibacterial activity.* Materials Science and Engineering: C, Volume 42, 1 September 2014, Pages 350-361 (IF 2018 = 4.959)
44. G. Aldica, S. Popa, M. Enculescu, **Dan Batalu**, L. Miu, M. Ferbinteanu, P. Badica. *Addition of  $Ho_2O_3$  of different type to  $MgB_2$  in the ex-situ Spark Plasma Sintering: Simultaneous control of the critical current density at low and high magnetic fields.* Materials Chemistry and Physics, Volume 146, Issue 3, 14 August 2014, Pages 313-323 (IF 2018 = 2.781).
45. **Dan Batalu**, G. Aldica, S. Popa, L. Miu, M. Enculescu, R.F. Negrea, I. Pasuk, P. Badica. *High magnetic field enhancement of the critical current density by Ge,  $GeO_2$  and  $Ge_2C_6H_{10}O_7$  addition to  $MgB_2$ .* Scripta Materialia, Volume 82, 1 July 2014, Pages 61-64 (IF 2018 = 4.539).
46. M. Târcolea, D. Vlăsceanu, C.M. Cotrut, **Diana M Vranceanu**, R.M. Comăneanu, Mechanical Effects of Simulated Pressure and Temperature Conditions on Porcelain Dental Bridges, Solid State Phenomena, vol. 216, 2014, pag. 157-162; Doi: 10.4028/www.scientific.net/SSP.216.157; Document Type: Conference Paper; Research Areas: Materials Science; Web of Science Categories: Materials Science, Multidisciplinary; Accession Number: WOS:000347924100027;
47. C.M. Cotruț, M. Târcolea, **Diana M Vranceanu**, A.I. Gherghilescu, N. Ghiban, F. Baciu, I.C. Ionescu, Stainless Steel Brackets: In Vitro Corrosion Behaviour And Mechanical Debonding Test, Solid State Phenomena, vol. 216, 2014, pag. 187-193; DOI: 10.4028/www.scientific.net/SSP.216.187; Document Type: Proceedings Paper; WOS:000347924100032;

48. M. Dinu, V. Braic, G. Coleașe, F. Baciuc, C.M. Cotruț, M. Braic, M. Târcolea, C. Vițelaru, A. Vlădescu, **Diana M Vranceanu**, TiSiN coatings for improved bond strength of CoCr alloy to dental ceramic, *Key Engineering Materials*, vol. 587, 2014, pag. 275-281; Doi: 10.4028/www.scientific.net/KEM.587.275; Document Type: Proceedings Paper; Research Areas: Materials Science; Web of Science Categories: Materials Science, Ceramics; Materials Science, Multidisciplinary; Materials Science, Biomaterials; Accession Number: WOS:000336185000045;
49. C.M. Cotruț, S. Ciucă, F. Miculescu, I. Antoniac, M. Târcolea, **Diana M Vranceanu**, The Influence of Classical and Modern Manufacturing Technologies on the Properties of Metal Dental Bridges, *Key Engineering Materials*, vol. 583, 2014, pag. 163-168; Doi: 10.4028/www.scientific.net/KEM.583.163; Document Type: Proceedings Paper; Research Areas: Engineering; Materials Science; Web of Science Categories: Engineering, Biomedical; Materials Science, Multidisciplinary; Accession Number: WOS:000336552600027;
50. Branzei M.; Mihailescu B.; **Pencea I.** „Lead/Lead-Free Solder Alloys Shear Tests Correlations With Structure at Different Temperatures”, *Proceeding of the 37th International Spring Seminar on Electronics Technology (ISSE) - Advances in Electronic System INTEGRATION*, Book Series: INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY ISSE Pages: 256-259 Published:2014, WOS:000346580500051, ISBN:978-1-4799-4455-2 ISSN: 2161-2528
51. V. Hâncu, R.M. Comăneanu, C. Coman, A.G. Filipescu, D.L. Ghergic, **M.C. Cotruț**, In vitro Studies Regarding the Corrosion Resistance of NiCr and CoCr Types Dental Alloys, *Revista De Chimie*, vol. 65, nr. 6, 2014, pag. 706-709; F.I.2020 = 1.605; Document Type: Article; Research Areas: Chemistry; Engineering; Web of Science Categories: Chemistry, Multidisciplinary; Engineering, Chemical; Accession Number: WOS:000339140400016;
52. A. Blajan, F. Miculescu, I. Ciuca, **C. Cotruț**, A. Semenescu, I. Antoniac, Effect of calcium content on the microstructure and degradation of Mg-Ca binary alloys potentially used as orthopedic biomaterials, *Key Engineering Materials*, vol. 638, 2014, pag. 104-108, DOI: 10.4028/www.scientific.net/KEM.638.104, Document Type: Conference Paper, Materials Science; Web of Science Categories: Materials Science, Multidisciplinary; ISSN: 10139826
53. M. Târcolea, D. Vlăsceanu, **Cosmin M. Cotruț**, M.D. Vrânceanu, R.M. Comăneanu, Mechanical Effects of Simulated Pressure and Temperature Conditions on Porcelain Dental Bridges, *Solid State Phenomena*, vol. 216, 2014, pag. 157-162; Doi: 10.4028/www.scientific.net/SSP.216.157; Document Type: Conference Paper; Research Areas: Materials Science; Web of Science Categories: Materials Science, Multidisciplinary; Accession Number: WOS:000347924100027; IDS Number: BB9AE; ISSN: 1012-0394
54. I. Razvan, A. Iulian, **Cosmin M. Cotruț**, M. Miculescu, V. Eugen, C. Munteanu, D. Moldan, M. Niculescu, Potential solutions to increase the corrosion resistance of metallic surgical instruments using different types of ceramic coatings, *Key Engineering Materials*, vol. 614, 2014, pag. 206-211; Doi: 10.4028/www.scientific.net/KEM.614.206; Document Type: Conference Paper; Materials Science; Web of Science Categories: Materials Science, Multidisciplinary; ISSN: 10139826

55. M. Dinu, V. Braic, G. Coleașe, F. Baci, **Cosmin M. Cotruț**, M. Braic, M. Târcolea, C. Vițelaru, A. Vlădescu, D.M. Vrânceanu, TiSiN coatings for improved bond strength of CoCr alloy to dental ceramic, *Key Engineering Materials*, vol. 587, 2014, pag. 275-281; Doi: 10.4028/www.scientific.net/KEM.587.275; Document Type: Proceedings Paper; Research Areas: Materials Science; Web of Science Categories: Materials Science, Ceramics; Materials Science, Multidisciplinary; Materials Science, Biomaterials; Accession Number: WOS:000336185000045; IDS Number: BA4RR; ISSN: 1013-9826
56. **Cosmin M. Cotruț**, S. Ciucă, F. Miculescu, I. Antoniac, M. Târcolea, D.M. Vrânceanu, The Influence of Classical and Modern Manufacturing Technologies on the Properties of Metal Dental Bridges, *Key Engineering Materials*, vol. 583, 2014, pag. 163-168; Doi: 10.4028/www.scientific.net/KEM.583.163; Document Type: Proceedings Paper; Research Areas: Engineering; Materials Science; Web of Science Categories: Engineering, Biomedical; Materials Science, Multidisciplinary; Accession Number: WOS:000336552600027; IDS Number: BA5DC; ISSN: 1013-9826
57. **Cosmin M. Cotruț**, M. Târcolea, M.D. Vrânceanu, A.I. Gherghilescu, N. Ghiban, F. Baci, I.C. Ionescu, Stainless Steel Brackets: In Vitro Corrosion Behaviour And Mechanical Debonding Test, *Solid State Phenomena*, vol. 216, 2014, pag. 187-193; Doi: 10.4028/www.scientific.net/SSP.216.187; Document Type: Proceedings Paper; Research Areas: Materials Science; Web of Science Categories: Materials Science, Multidisciplinary; Accession Number: WOS:000347924100032; IDS Number: BB9AE; ISSN: 1012-0394
58. , Iorga, Sorin; Cojocaru, Mihai; Chivu, Adriana Ciuca, Sorin; et al., Influence of the Carbo-Chromization Process on the Microstructural, Hardness, and Corrosion Properties of 316L Sintered Stainless Steel *METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE* Volume: 45A Issue: 7 Pages: 3088-3096 Published: JUN 2014
59. Visan, A.; Grossin, D.; Stefan, N.; **Ciuca, S**; et al., Biomimetic nanocrystalline apatite coatings synthesized by Matrix Assisted Pulsed Laser Evaporation for medical applications (part I), *MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS* Volume: 181 Pages: 56-63 Published: FEB 2014
60. Cotrut, Cosmin Mihai; **Ciuca, Sorin**; Miculescu, Florin; et al., The Influence of Classical and Modern Manufacturing Technologies on the Properties of Metal Dental Bridges, Conference: 5th international Conference on Biomaterials, Tissue Engineering and Medical Devices (BiomMedD 2012) Location: Constanta, ROMANIA Date: AUG 29-SEP 01, 2012, *BIOMMEDD V* Book Series: Key Engineering Materials Volume: 583 Pages: 163-168 Published: 2014
61. M.M. Stănescu, D. Bolcu, **I. Ciucă**, A. Diniță, Study on non uniformity of composite materials reinforced with carbon and carbon-kevlar fibers fabric, *Materiale Plastice*, 51(4), p. 355-358, 2014, (ISI, 2014-Impact Factor 0,824) ISSN 0025-5289,
62. M.A. Ionescu, C. Ionescu, **I. Ciuca**, Polymer vapour deposition of Parylene-N and Parylene-C on Si (111) thin film characterization by FTIR and ellipsometry, *Revista*

- De Chimie, 65(10), p. 1242-1244, 2014, (ISI, 2014-Impact Factor 0,810) ISSN 2537/5733,
63. D. Bolcu, M.M. Stănescu, **I. Ciucă**, S. Dumitru, M. Sava, Study about the nonuniformity from composite materials reinforced with fiber glass fabric, *Materiale Plastice*, 51(1), p. 97-100, 2014, (ISI, 2014-Impact Factor 0,824) ISSN 0025-5289,
  64. M. Schwartz, R. Ciocoiu, **Ciuca I.**, D. Gheorghe et al., Failures of AISI H21 die in copper hot extrusion, *Materials at High Temperatures*, 31(2), p. 95-101, 2014, (ISI) ISSN 0960-3409.
  65. G.I. Stefanescu, **I. Ciuca**, S.B. Vasile, A comparative study of (TiZr) C and (CuSiTiYZr) C films microstructure deposited by magnetron sputtering, *Journal of Optoelectronics and Advanced Materials*, 16(1-2), p. 36-40, 2014, (ISI, 2014-Impact Factor 0,429) ISSN 1454-4164
  66. C.N. Cumpata, M. Raescu, **Ciuca I.**, F.E. Constantinescu et al., Study on biological hydroxyapatite deposition on Titanium support in a blood plasma-like solution, *Digest Journal of Nanomaterials and Biostructures*, 9(1), p. 109-121, 2014, (ISI, 2014-Impact Factor 0,945) ISSN 1842-3582,
  67. M. Branzei, I. Cristea, **I. Ciuca** et al., Correlation between microstructure and magnetic properties on MnZn ferrite with Bi<sub>2</sub>O<sub>3</sub> increasing addition, 5th International Conference on Advanced Materials and Structures (AMS), October 24-25, 2013, Timisoara, *Advanced Materials and Structures*, Book Series: Solid State Phenomena, Volume 216, p. 23-28, published 2014.
  68. G.A. Bibiș, M. Brânzei, I. Pencea, **I. Ciucă**, Studies and researches concerning the measurement uncertainty estimation of sub-grain apparent average size of polycrystallin quenched steels, *Scientific Bulletin of Valahia University, Materials & Mechanics*, 12(9), p. 34-36, 2014.
  69. M. Schwartz, R. Ciocoiu, D. Gheorghe, **I. Ciuca**, Failures of AISI H21 die in copper hot extrusion, *Materials at High Temperatures*, 31(2), p. 95-101, 2014.
  70. F. Constantinescu, R. Ciocoiu, O. Trante, I. Ciucă, Hydroxyapatite coating influenced by Ti6Al4V substrate roughness, *Key Engineering Materials*, 638, p. 62-66, 2014.
  71. A.I. Blajan, F. Miculescu, **I. Ciucă**, M.C. Cotruț, A. Semenescu, V.I. Antoniac, Effect of calcium content on the microstructure and degradation of Mg-Ca Binary alloys potentially used as orthopedic biomaterials, *Key Engineering Materials*, 638, p. 104-108, 2014.
  72. C.N. Cumpata, M. Raescu, F.E. Constantinescu, **I. Ciuca**, M.V. Constantinescu, Study on biological hydroxyapatite deposition on titanium support in a blood plasma-like solution, *Digest Journal of Nanomaterials & Biostructures (DJNB)*, 9(1), p. 109-122, 2014.
  73. M. Branzei, I. Cristea, **I. Ciuca**, A. Bibiș, M. Feder, Correlation between microstructure and magnetic properties on MnZn ferrite with Bi<sub>2</sub>O<sub>3</sub> increasing addition, *Solid State Phenomena - Trans Tech Publications*, **216**, p. 23-28, 2014.
  74. D.L. Cursaru, G. Branoiu, I. Ramadan, **F. Miculescu**, Degradation of automotive materials upon exposure to sunflower biodiesel, *Industrial Crops and Products*, Vol. 54

- Pag. 149-158, 2014, Document Type: Article, DOI: 10.1016/j.indcrop.2014.01.032, WOS:000336340600021, ISSN: 0926-6690, eISSN: 1872-633X, Web of Science Categories: Agricultural Engineering; Agronomy, Q1, IF 4.191
- 75.** C. Vitelaru, N. Ghiban, A.C. Parau, M. Balaceanu, **F. Miculescu**, A. Vladescu, Corrosion behaviour of Ti6Al4V alloy in artificial saliva solution with fluoride content and low pH value, *Materialwissenschaft und Werkstofftechnik*, Vol. 45, Iss. 2, Pag. 91-98, 2014, Document Type: Article, DOI: 10.1002/mawe.201400191, WOS:000331874400004, ISSN: 0933-5137, eISSN: 1521-4052, Web of Science Categories: Materials Science, Multidisciplinary, Q4, IF 0.556
- 76.** R.M. Comaneanu, H.M. Barbu, C. Coman, **F. Miculescu**, L. Chiutu, Correlations between cytohistopathological tissue changes at the dental implant interface and the degree of surface processing, *Romanian Journal of Morphology and Embryology*, Vol. 55, Iss. 2, Pag. 335-341, 2014, Document Type: Article, WOS:000338329700013, ISSN: 1220-0522, Web of Science Categories: Developmental Biology, Q4, IF 1.5
- 77.** D.I. Ciocan, D. Stanciu, M.A. Popescu, **F. Miculescu**, I. Plotog, G. Vărzaru, L.T. Ciocan, Electron microscopy analysis of different orthodontic brackets and their adhesion to the tooth enamel, *Romanian Journal of Morphology and Embryology*, Vol. 55, Iss. 2, Pag. 591-596, 2014, Document Type: Article, WOS:000342868500012, ISSN: 1220-0522. Web of Science Categories: Developmental Biology, Q4, IF 1.5
- 78.** L. Duta, A.C. Popa, F. Miculescu, I.N. Mihailescu, Ultra high molecular weight polyethylene acetabular cups functionalized with bioactive glass coatings synthesized by pulsed laser deposition, *Romanian Reports in Physics*, Vol. 66, Iss. 3, Pag. 788-800, 2014, Document Type: Article, WOS: 000342035600019, ISSN: 12211451. Web of Science Categories: Physics, Multidisciplinary, Q2, IF 1.94
- 79.** A.M. Stanescu, L. Stoica, C. Constantin, I. Lacatusu, O. Oprea, **F. Miculescu**, Physicochemical characterization and use of heat pretreated commercial instant dry baker's yeast as a potential biosorbent for Cu(II) removal, *Clean - Soil, Air, Water*, Vol. 42, Iss. 11, 1 Pages 1632-1641, 2014, DOI: 10.1002/clen.201300484, Document Type: Article, WOS: 000344777700019, ISSN: 18630650. Web of Science Categories: Environmental Sciences, Q3, IF 1.512
- 80.** M.E. Mânzână, B. Ghiban, I. Bordeasu, N. Ghiban, M. Marin, **F. Miculescu**, Structural analysis of steels by cavitation erosion, *Key Engineering Materials*, Vol. 583, 2014, Pag. 28-31, DOI: 10.4028/www.scientific.net /KEM.583.28, Document Type: Conference Paper, WOS:000336552600005, ISSN: 10139826 ISBN: 978- 303785866-0. Q3, IF 0.224
- 81.** C.M. Cotruț, S. Ciucă, **F. Miculescu**, I. Antoniac, M. Târcolea, D.M. Vrânceanu, The influence of classical and modern manufacturing technologies on the properties of metal dental bridges, *Key Engineering Materials*, Vol. 583, 2014, Pag. 163-168, DOI: 10.4028/www.scientific.net/KEM.583.163, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303785866-0. Q3, IF 0.224
- 82.** **F. Miculescu**, I. Pencea, M. Miculescu, I. Antoniac, L.T. Ciocan, A. Ernuteanu, Energy dispersive techniques using X-ray fluorescence with primary X-rays for human hard tissues analysis, *Key Engineering Materials*, 6 Vol. 583, 2014, Pag. 129-133, DOI: 10.4028/www.scientific.net/KEM.583.129, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303785866-0. Q3, IF 0.224
- 83.** **F. Miculescu**, L.T. Ciocan, M. Miculescu, D. Meghea, M. Bane, M. Brânzei, Implant surface finishing influence on tissue-implant anchoring , Vol. 216, Pag. 39-44, 5th International Conference on Advanced Materials and Structures, AMS 2013; Timisoara, Solid State Phenomena Code 107496, Source Type: Book series, DOI:

10.4028/ www.scientific.net/ SSP.216.39, Document Type: Conference Paper, WOS:000347924100007, ISSN: 10120394 ISBN: 978-303835212-9, 2014.

**84.** M. Miculescu, M. Branzei, **F. Miculescu**, D. Meghea, M. Bane, A study on metal-ceramic thermal expansion compatibility, Solid State Phenomena, Vol. 216, Pag. 85-90, 5th International Conference on Advanced Materials and Structures, AMS 2013; Timisoara; Code 107496, Source Type: Book series, DOI: 10.4028/www.scientific.net/ SSP.216.85, Document Type: Conference Paper, ISSN: 10120394 ISBN: 978-303835212-9 CODEN: DDBPE, 2014.

**85.** **F. Miculescu**, L.T. Ciocan, D. Meghea, M. Miculescu, Morphologic characterization of ceramic-ceramic dental systems failure, Key Engineering Materials, Vol. 614, Pag. 140-143, 25th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, ISCM 2013; Bucharest, Source Type: Book series, DOI: 10.4028/www.scientific.net/ KEM.614.140, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978- 303835128-3, CODEN: KEMAE, Indexat SCOPUS 2014.

**86.** Al. Blajan, **F. Miculescu**, I. Ciuca, C. Cotrut, A. Semenescu, I. Antoniac, Effect of calcium content on the microstructure and degradation of Mg-Ca binary alloys potentially used as orthopedic biomaterials, Key Engineering Materials, Vol. 638, 2014, Pages 104-108, CODEN: KEMAE, Code 118479, DOI: 10.4028/www.scientific.net/KEM.638.104, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978- 303835432-1, Indexat SCOPUS, 2014

**87.** **F. Miculescu**, LT. Ciocan, M. Miculescu, A. Mocanu, A. Maidaniuc, A. Purcaru, O. Preda, Micro-analytical comparison on elemental composition of nonstoichiometric bovine bone derived hydroxyapatite, Key Engineering Materials, Vol. 638, 2014, Pag. 3-7, DOI: 10.4028/www.scientific.net/KEM.638.3, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303835432-1, Indexat SCOPUS, 2014.

**88.** **F. Miculescu**, LT. Ciocan, M. Miculescu, I. Antoniac, A. Purcaru, O. Preda, A. Maidaniuc, Cooling conditions influence on cortical bovine bones derived hydroxyapatite, Key Engineering Materials , Vol. 638, 2014, Pag. 111-116, DOI: 10.4028/www.scientific.net/KEM.638.111, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303835432-1.x, Indexat SCOPUS, 2014. C1.19. M. Miculescu, M. Bane, F. Miculescu, O. Preda, I. Plotog, Dental plating efficiency of metal base dental alloys by thermal diffusivity study, Key Engineering Materials, Vol. 638, 2014, Pag. 141-144, DOI: 10.4028/www.scientific.net/KEM.638.141, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978- 303835432-1, Indexat SCOPUS, 2014.

**89.** M. Miculescu, M. Bane, **F. Miculescu**, LT. Ciocan, O. Preda, I. Antoniac, A study on metal-ceramic interface on metal base dental alloys, Key Engineering Materials, Vol. 638, 2014, Pag. 14-19, DOI: 10.4028/ www.scientific.net/ KEM.638.14, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303835432- 1, Indexat SCOPUS, 2014.

**90.** M. Branzei, M. Miculescu, **F. Miculescu**, Complex characterization of three types of titanium alloys, Conferința Internațională Biommedd2014, Constanța, România.

**91.** . Miculescu, A. Berbecaru, M. Miculescu, I.V. Antoniac, A. Purcaru, A. Maidaniuc, Cooling conditions influences on cortical bovine bones derived hydroxyapatite, Conferința Internațională Biommedd2014, Constanța, România.

**92.** **Miculescu**, L.T. Ciocan, M. Miculescu, A. Mocanu, A. Maidaniuc, A. Purcaru Micro-analytical comparison regarding elemental composition of nonstoichiometric bovine bone derived hydroxyapatite, Conferința Internațională Biommedd2014, Constanța, România.

- 93.** Miculescu, M. Bane, **F. Miculescu**, L.T. Ciocan, D. Enescu, I.V. Antoniac, A study on metal ceramic interface on metal base dental alloys, Conferința Internațională Biommedd2014, Constanța, România.
- 94.** M. Miculescu, M. Bane, **F. Miculescu**, D. Meghea, Dental plating efficiency of metal base dental alloys by thermal diffusivity study, Conferința Internațională Biommedd2014, Constanța, România.
- 95.** M. Niculescu, D. Laptoiu, D. Cojocaru, **F. Miculescu**, I.V. Antoniac, Effects of stem preheating on the stem-cement interface for cemented hip implants: in vitro study, Conferința Internațională Biommedd2014, Constanța, România.
- 96.** A. Robu, L. Reclaru, C.M. Cotrut, **F. Miculescu**, A. Antoniac, Microstructural characterization of different Co-Cr dental alloys obtained using different processing routes, Conferința Internațională Biommedd2014, Constanța, România.
- 97.** **Miculescu, M;** Muhulet, A; Nedelcu, A; Voicu, SI, Synthesis and characterization of polysulfone - carbon nanotubes - polyethylene imine composite membranes, Optoelectronics And Advanced Materials-Rapid Communications, Volume: 8 Issue: 11-12 Pages: 1072-1076, 2014, WOS:000347510200017, ISSN: 1842- 6573 Factor de impact mai 2020 I.F. 0,470 = 5,875
- 98.** Corobea, MS; Stoenescu, M; **Miculescu, M;** Raditoiu, V; Fierascu, RC; Sirbu, I; Vuluga, Z; Voicu, SI, Titanium Functionalizing and Derivatizing For Implantable Materials Osseointegration Properties Enhancing, Digest Journal of Nanomaterials and Biostructures, Volume: 9 Issue: 4 Pages: 1339-1347, 2014, WOS:000346138800006, ISSN: 1842-3582 Factor de impact mai 2020 I.F. 0,836 = 5,225
- 99.** Voicu, S. I.; Ninciuleanu, C. M.; Muhulet, O.; **Miculescu, M.;** Cellulose acetate membranes with controlled porosity and their use for the separation of aminoacids and proteins, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 2014, 16, Issue: 7-8, Pages: 903-908, WOS:000340578000023 Factor de impact la data publicării IF: 0,563 / 2014 = 7,037
- 100.** Miculescu, F.; Pencea, I; Miculescu, M; Antoniac, I; Ciocan, L.T.; Ernuteanu A.; Energy Dispersive Techniques Using X-ray Fluorescence with Primary X-Rays for Human Hard Tissues Analysis BIOMMEDD V Book Series: Key Engineering Materials, Volume: 583, Pages: 129-133, 2014, WOS:000336552600022, ISSN: 1013-9826 Factor de impact mai 2020 IF: 0,224
- 101.** Miculescu, M ; Branzei, **M; Miculescu, F;** Meghea, D; Bane, M, A study on metal-ceramic thermal expansion compatibility, ADVANCED MATERIALS AND STRUCTURES V, Book Series: Solid State Phenomena, Volume: 216, Pages: 85-90, 2014, WOS:000347924100015, ISBN:978-3-03835-212-9, Punctaj -  $50 \cdot 0,1/5 = 1,000$
- 102.** Miculescu, F.; Pencea, I; **Miculescu, M;** Antoniac, I; Ciocan, L.T.; Ernuteanu A.; Energy Dispersive Techniques Using X-ray Fluorescence with Primary X-Rays for Human Hard Tissues Analysis, BIOMMEDD V Book Series: Key Engineering Materials, Volume: 583, Pages: 129-133 Published: 2014, 5 Document Type: Proceedings Paper, Accession Number: WOS:000336552600022, ISSN: 1013-9826 Punctaj -  $50 \cdot 0,1/6 = 0,833$
- 103.** Manolea, H; Antoniac, I; Florescu, N; Marasescu, P; **Miculescu, M.;** Dacalu, IT.; Study of the expansion behaviour of some materials used in the dental metal-ceramic technology, BIOCERAMICS, VOL 25 Book Series: Key Engineering Materials, Volume: 587, Pages: 366-371, Published: 2014, Document Type: Proceedings Paper. Accession Number: WOS:000336185000061, ISSN: 1013-9826 Punctaj -  $50 \cdot 0,1/6 = 0,833$ .
- 104.** F. Miculescu, LT. Ciocan, **M. Miculescu**, A. Mocanu, A. Maidaniuc, A. Purcaru, O. Preda, Micro-analytical comparison on elemental composition of nonstoichiometric

bovine bone derived hydroxyapatite, Key Engineering Materials, Vol. 638, 2014, Pag. 3-7, DOI: 10.4028/www.scientific.net/KEM.638.3, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303835432-1, Indexat SCOPUS, 2014. Punctaj  $(50 \cdot 0.08) / 7 = 0.571$

**105.** F. Miculescu, L.T. Ciocan, **M. Miculescu**, I. Antoniac, A. Purcaru, O. Preda, A. Maidaniuc, Cooling conditions influence on cortical bovine bones derived hydroxyapatite, Key Engineering Materials, Vol. 638, 2014, Pag. 111-116, DOI: 10.4028/www.scientific.net/KEM.638.111, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303835432-1.x, Indexat SCOPUS, 2014. Punctaj  $(50 \cdot 0.08) / 7 = 0.571$

**106.** **M. Miculescu**, M. Bane, F. Miculescu, O. Preda, I. Plotog, Dental plating efficiency of metal base dental alloys by thermal diffusivity study, Key Engineering Materials, Vol. 638, 2014, Pag. 141-144, DOI: 10.4028/www.scientific.net/KEM.638.141, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303835432-1, Indexat SCOPUS, 2014. Punctaj  $(50 \cdot 0.08) / 5 = 0.8$  Ris.47. **M. Miculescu**, M. Bane, F. Miculescu, L.T. Ciocan, O. Preda, I. Antoniac, A study on metal-ceramic interface on metal base dental alloys, Key Engineering Materials, Vol. 638, 2014, Pag. 14-19, DOI: 10.4028/www.scientific.net/KEM.638.14, Document Type: Conference Paper, ISSN: 10139826 ISBN: 978-303835432-1, Indexat SCOPUS, 2014. Punctaj  $(50 \cdot 0.08) / 6 = 0.66$

**107.** F. Miculescu, A. Berbecaru, **M. Miculescu**, I.V. Antoniac, A. Purcaru, A. Maidaniuc, Cooling conditions influences on cortical bovine bones derived hydroxyapatite, Conferința Internațională Biommedd2014, Constanța, România.

**108.** F. Miculescu, L.T. Ciocan, **M. Miculescu**, A. Mocanu, A. Maidaniuc, A. Purcaru Micro-analytical comparison regarding elemental composition of nonstoichiometric bovine bone derived hydroxyapatite, Conferința Internațională Biommedd2014, Constanța, România.

**109.** **M. Miculescu**, M. Bane, F. Miculescu, L.T. Ciocan, D. Enescu, I.V. Antoniac, A study on metal ceramic interface on metal base dental alloys, Conferința Internațională Biommedd2014, Constanța, România. Vi.52. **M. Miculescu**, M. Bane, F. Miculescu, D. Meghea, Dental plating efficiency of metal base dental alloys by thermal diffusivity study, Conferința Internațională Biommedd2014, Constanța, România.