

## 2012

1. Reclaru L; Unger RE; Kirkpatrick CJ; Susz C; Eschler PY; Zuercher MH; **Antoniac I**; Lüthy H; *Ni-Cr based dental alloys; Ni release, corrosion and biological evaluation*, MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATION, Volume 32, Issue 6, 1452-1460, 2012.  
DOI: 10.1016/j.msec.2012.04.025  
Accession Number: WOS: 000306030900019  
Document Type: Article  
FI = 4,959
2. Vranceanu MD; **Antoniac I**; Miculescu F; Saban R; *The influence of the ceramic phase on the porosity of some biocomposites with collagen matrix used as bone substitutes*, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, Volume 14, Issue 7-8, 671–677, 2012.  
  
Accession Number: WOS: 000308718300017  
Document Type: Article  
FI = 0,588
3. Miculescu F; Stan G; Ciocan LT; Miculescu M; Berbecaru A; **Antoniac I**; *Cortical bone as resource for producing biomimetic materials for clinical use*, DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, Volume 7, Issue 4, 1667 – 1677, 2012.  
Accession Number: WOS: 000312710300032  
Document Type: Article  
FI = 0,638
4. Sinescu C; Marsavina L; Negrutiu ML; Rusu LC; Ardelean L; Rominu M; **Antoniac I**; Topala FI; Podoleanu A; *New metallic nanoparticles modified adhesive used for time domain optical coherence tomography evaluation of class II direct composite restoration*, REVISTA DE CHIMIE, Volume 63, Issue 4, 380-383, 2012.  
Accession Number: WOS: 000304292600008  
Document Type: Article  
FI = 1,605
5. A.C. Parau, S. Zamfir, **Raluca I. Zamfir**, G. Coleasa, *Comparative studies on the corrosion resistance of Ti6Al4V and NiCr alloys in artificial saliva*, U.P.B. - Scientific Bulletin in series B-chemistry and materials science, 2012, Vol. 74, Iss. 4, pp. 237-248.
6. Miculescu F; Ciocan LT; Miculescu M; Ernuteanu A; **Antoniac I**; Matei E; Pencea I; *A study on trace elements concentration in bone particles by XRF analysis*, SOLID STATE PHENOMENA, Volume 188, 37-40, 2012.  
DOI: 10.4028/www.scientific.net/SSP.188.37  
Accession Number: WOS: 000308047400007  
Document Type: Proceedings Paper

7. **Antoniac I**; Miculescu M; Dinu M; *Metallurgical characterization of some magnesium alloys for medical applications*, SOLID STATE PHENOMENA, Volume 188, 109-113, 2012.  
DOI: 10.4028/www.scientific.net/SSP.188.109  
Accession Number: WOS: 000308047400020  
Document Type: Proceedings Paper
8. Bane M; Miculescu F; Blajan AI; Dinu M; **Antoniac I**; *Failure analysis of some retrieved orthopedic implants based on materials characterization*, SOLID STATE PHENOMENA, Volume 188, 114-117, 2012.  
DOI: 10.4028/www.scientific.net/SSP.188.114  
Accession Number: WOS: 000308047400021  
Document Type: Proceedings Paper
9. Alexandru G; Brandusa G; Maria BC; Nicolae G; **Iulian A**; *Heat Treatments Influence on Corrosion Resistance of Some New Dental Cobalt Alloys*, SOLID STATE PHENOMENA, Volume 188, 93-97, 2012.  
DOI: 10.4028/www.scientific.net/SSP.188.93  
Accession Number: WOS:000308047400017  
Document Type: Proceedings Paper
10. Mihaela MA; Brandusa G; Nicolae G; **Iulian A**; *Corrosion Behaviour in Ringer Solution of Ti-Mo Alloys used for Orthopaedic Biomedical Applications*, SOLID STATE PHENOMENA, Volume 188, 98-101, 2012.  
DOI: 10.4028/www.scientific.net/SSP.188.98  
Accession Number: WOS:000308047400018  
Document Type: Proceedings Paper
11. Complex Characterization of a New Low Ni Maraging Steel with Enhance Service Stability; Author(s): Branzei, M; Nedelcu, I; Miculescu, M; ADVANCED MATERIALS AND STRUCTURES IV Book Series: Solid State Phenomena Volume: 188 Pages: 346-352; 2012;
12. Solder Joints Properties as Function of Multiple Reflow Vapor Phase Soldering Process; Author(s): Branzei, M; Plotog, I; Miculescu, F; Varzaru, G; Svasta, P; Thumm, A; IEEE; 2012 35TH INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY (ISSE 2012): POWER ELECTRONICS Book Series: International Spring Seminar on Electronics Technology ISSE Pages: 155-160; 2012.
13. **Diana M Vranceanu**, I. Antoniac, F. Miculescu, R. Şaban, The influence of the ceramic phase on the porosity of some biocomposites with collagen matrix used as bone substitutes, Journal of Optoelectronics and Advanced Materials, Vol. 14, Iss. 7-8, 2012, pag. 671-672; **FI<sub>2020</sub> = 0.588**; Document Type: Article; Research Areas: Materials Science; Optics; Physics; Web of Science Categories: Materials Science, Multidisciplinary; Optics; Physics, Applied; **WOS:000308718300017; Q4**

14. Robert CIOCOIU, **Octavian TRANTE**, Marin MIHAI, *OPTIMAL MATERIAL SELECTION FOR UNIDIRECTIONAL LAMINAS USING DESIGN OF EXPERIMENT*, U.P.B. Sci. Bull., Series B, Vol. 74, Iss. 3, 2012 ISSN 1454-2331, 2012
  
15. Ciocoiu, R. , **Trante,O.**, Mihai, M. , *OPTIMAL MATERIAL SELECTION FOR UNIDIRECTIONAL LAMINAS USING DESIGN OF EXPERIMENT* (Article), UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Volume 74, Issue 3, 2012, Pages 157-168
  
16. Robert CIOCOIU, **Octavian TRANTE**, *Tape and Woven Reinforcements for Composites. A Theoretical Comparison*, INCER, Innovation and Collaboration in Engineering Research, 2-4 July 2012, Bucharest, Romania
  
17. Ion PENCEA, Catalin SFAT, Victor GEANTA and Radu STEFANOIU, „New multiconvolutional approach for measurement uncertainty estimation. Case study for Vickers Hardness Test”, University “Politehnica” of Bucharest, Materials Science and Engineering Faculty, Department of Metallic Material Science and Physical Metallurgy, ROMAT 2012, Bucuresti, Romania;
  
18. Ion CIUCA, Ionut CRISTEA, Mihai BRANZEI, Marin BANE, Ion PENCEA, Catalin SFAT, Adrian BIBIS, „Studies and researches regarding the estimation of cristalite size equal to some alluminum alloys by way of x-ray diffraction”, Universitatea Politehnica Bucuresti, ROMAT 2012, Bucuresti, Romania; Vi3. Ion CIUCA, Ionut CRISTEA, Catalin
  
19. SFAT, Mihai BRANZEI, Marin BANE, Ion PENCEA, Adrian BIBIS, „The study on microstructure and microhardness determination of aluminum alloy 8Fe/2V/1Si, for aeronautical industry”, Universitatea Politehnica Bucuresti, ROMAT 2012, Bucuresti, Romania;
  
20. **Pencea, I.**, Sfat, C.E., Branzei, M., Plotog, I., NEW APPROACH FOR MEASURING THE SURFACE TENSION OF SNAGCU305 MOLTEN ALLOY, (2012) 2012 IEEE 18th International Symposium for Design and Technology of Electronics Packages,SIITME 2012 – Conference Proceedings, art. No. 6384367, pp. 157-161., DOI: 10.1109/SIITME.2012.6384367 Document Type: Conference Paper, Source: Scopus
  
21. **Cosmin M. Cotruț**, A. Vlădescu, V. Braic, M. Braic, M. Bălăceanu, F. Miculescu, Evaluation of duplex (Zr,Al)CN coatings with improved tribological performance, Journal of Optoelectronics and Advanced Materials, vol. 7-8, 2012, pag. 646-652; F.I.2020 = 0.588; Document Type: Article; Research Areas: Materials Science; Optics; Physics; Web of Science Categories: Materials Science, Multidisciplinary; Optics; Physics, Applied; WOS:000308718300013;

22. Iorga, S.; **Ciuca, S.**, Leuvrey, C.; et , *Influence of the thermo-chemical conditions on the carbo-chromization process of alpha-Fe matrices obtained by powder sintering technique* al.JOURNAL OF ALLOYS AND COMPOUNDS Volume: 512 Issue: 1 Pages: 100-104 Published: JAN 25 2012
23. C.M. Mirițoiu, D. Bolcu, M.M. Stănescu, **I. Ciucă**, R. Cormos, Determination of damping coefficients for sandwich bars with polypropylene honeycomb core and the exterior layers reinforced with metal fabric, *Materiale Plastice*, 49(2), p. 118-122, 2012, (ISI, 2012-Impact Factor 0,379) ISSN 0025-5289,
24. C. Ionescu, M. A. Ionescu, **I. Ciucă**, Trial to implement transmission infrared (IR) spectrometry for studying initial stages of copper deposition from bis(hexafluoroacetylacetonato) copper(II) (Cu(hfac)<sub>2</sub>) on Si(111)-7×7, *Optoelectronics and Advanced Materials – Rapid Communications*, 6(1-2), p. 17-21, 2012, ISSN 1842-6573, (ISI, 2012-Impact Factor 0,402)
25. C. Ionescu, M. A. Ionescu, **I. Ciucă**, Total Cu coverage from Cu(hfac)<sub>2</sub> deposition on Si(111)-7×7 at room temperature using HIBS, *Optoelectronics and Advanced Materials – Rapid Communications*, 6(1-2), p. 266-268, 2012, ISSN 1842-6573, (ISI, 2012-Impact Factor 0,402)
26. M.M. Stănescu, D. Bolcu, D. Gh. Bagnaru, C.M. Mirițoiu, **I. Ciuca**, The vibratory behavior of a lathe with continuous variator of high speed and dynamic absorber, *Annals of DAAAM & Proceedings*, 23(1), 2012, p. 429-432; ISSN 1726-9679
27. G.E. Stan, I. Pasuk, L.M. Trinca, A.C. Galca, M. Enculescu, **F. Miculescu**, Tilt c Axis Crystallite Growth of Aluminium Nitride Films by Reactive RF-Magnetron Sputtering, *Digest Journal of Nanomaterials and Biostructures*, Vol. 7, Iss. 1, Pag. 41-50, Document Type: Article. WOS:000303649000005. ISSN: 1842-3582, 2012. Web of Science Categories: Materials Science, Multidisciplinary, Q4, IF 0.638
28. B.M. Galbinas, **F. Miculescu**, D. Pirvu, L.T. Ciocan, D. Herschbach, A. Tonko, I. Patrascu, F. Stoiciu, Dental tissue - inlay interface structural shift at mechanical and thermal stresses, *Optoelectronics and Advanced Materials-Rapid Communications*, Vol. 6, Iss. 3-4 Pag.: 459-464, Document Type: Article. WOS:000304431000023, ISSN: 1842-6573, 2012. Web of Science Categories: Materials Science, Multidisciplinary; Q4, IF 0.452
29. O. Vasile, **F. Miculescu**, S.I. Voicu, Correlation aspects between morphology, infrared and acoustic absorptions properties of various materials, *Optoelectronics and Advanced Materials-Rapid Communications*, Vol. 6, Iss. 5-6, Pag. 631-638, Document Type: Article. WOS:000306577000025, ISSN: 1842-6573, 2012. Web of Science Categories: Materials Science, Multidisciplinary; Q4, IF 0.452
30. C. Cotrut, A. Vladescu, A V. Braic, M. Braic, M. Balaceanu, **F. Miculescu**, Evaluation of duplex (Zr,Al)CN coatings with improved tribological performance, *Journal of Optoelectronics and Advanced Materials*, Vol. 14, Iss. 7-8 Pag. 646-652, Document Type: Article. WOS:000308718300013, ISSN: 1454-4164, 2012. Web of Science Categories: Materials Science, Multidisciplinary; Q4, IF 0.588
31. M.D. Vranceanu, I.A. Antoniac, **F. Miculescu**, R. Saban, The influence of the ceramic phase on the porosity of some biocomposites with collagen matrix used as bone substitutes, *Journal of Optoelectronics and Advanced Materials*, Vol. 14, Iss. 7-8 Pag.

- 671-677, Document Type: Article. WOS:000308718300017, ISSN: 1454-4164, 2012. Web of Science Categories: Materials Science, Multidisciplinary; Q4, IF 0.588
- 32. F. Miculescu**, G. E. Stan, L. T. Ciocan, M. Miculescu, A. Berbecaru, I. Antoniac, Cortical bone as resource for producing biomimetic materials for clinical use, Digest Journal of Nanomaterials and Biostructures, Vol. 7, Iss. 4, Pag. 1667 – 1677, Document Type: Article, WOS:000312710300032, ISSN: 1842-3582, 2012. Web of Science Categories: Materials Science, Multidisciplinary, Q4, Principal author IF 0.638
- 33.** M. Branzei, I. Plotog, **F. Miculescu**, G. Varzaru, P. Svasta, A. Thumm, Solder joints properties as function of 10 multiple reflow vapor phase soldering process, Proceedings of the International Spring Seminar on Electronics Technology, Art.No. 6273127, Pag. 155-160; Source Type: Conference Proceeding. Document Type: Conference Paper. DOI 10.1109/ISSE.2012.6273127, WOS:000374111700030, ISSN 21612528, ISBN 9781467322409, 2012.
- 34. F. Miculescu**, L.T. Ciocan, M. Miculescu, A. Ernuteanu, I.V. Antoniac, E. Matei, I. Pencea, A Study on Trace Elements Concentration in Bone Particles by XRF Analysis, Diffusion and Defect Data Pt.B: Solid State Phenomena, Vol. 188, Pag. 37-40, Document Type: Proceedings Paper. DOI: 10.4028/www.scientific.net /SSP.188.37, Web of Science Categories: Materials Science, Multidisciplinary; WOS:000308047400007, ISSN: 1012-0394 ISBN: 9783037853917, 2012.
- 35.** M. Bane, **F. Miculescu**, A.I. Blajan, M. Dinu, I.V. Antoniac, Failure Analysis of Some Retrieved Orthopedic Implants Based on Materials Characterization, Diffusion and Defect Data Pt.B: Solid State Phenomena, Vol.188, Pag. 114-177, Document Type: Proceedings Paper. DOI: 10.4028/www.scientific.net/SSP. 188.114, Web of Science Categories: Materials Science, Multidisciplinary; WOS:000308047400021, ISSN: 1012-0394 ISBN: 9783037853917, 2012.
- 36.** M. Branzei, **F. Miculescu**, A. Bibis, I. Cristea, I. Plotog, G. Varzaru, B. Mihailescu, Lead/Lead Free Solder Joints Comparative Electrical Tests as Function of Microstructure and Soldering Thermal Profile, 2013 IEEE 19TH International Symposium for Design and Technology in Electronic Packaging (SIITME), Pag. 255-258, Document Type: Proceedings Paper, Web of Science Categories: Engineering, Electrical & Electronic, WOS:000347562900045, ISBN:978-1-4799-1555-2.
- 37.** G. Iacob, G. Popescu, **F. Miculescu**, M. Buzatu, Obtaining and Characterization of Al/Al<sub>2</sub>O<sub>3</sub>/Gr Composites by Mechanical Alloying, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Vol.74, Iss. 2, Pag. 221-230, Document Type: Article. Indexat SCOPUS. CODEN: SBPSF, ISSN: 1454-2331, 2012.
- 38.** M.D. Vranceanu, R. Saban, I.V. Antoniac, M. Albu, **F. Miculescu**, Development and characterization of novel porous collagen based biocomposite for bone tissue regeneration, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Vol. 74, Iss. 3, Pag. 145-156, Document Type: Article. Indexat SCOPUS. CODEN: SBPSF, ISSN: 1454-2331, 2012 C1.14. M. Mânzână, B. Ghiban, M. Marin, N. Ghiban, I. Bordeasă, S. Mitrea, F. Miculescu, Concerning the damage of 12 stainless steels by cavitation erosion, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, Volume 74, Issue 4, 2012, Pages 223-236, ISSN: 14542331, CODEN: SBPSF, Indexat SCOPUS Document Type: Article, 2012.

39. L.T. Ciocan, **F. Miculescu**, M. Miculescu, I. Pătrașcu, Advantages and Failures in Zirconia Restorations, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9- 772069019002.
40. B.M. Galbinas, D. Herschbach, **F. Miculescu**, L.T. Ciocan, I.Patrascu, Static and Dynamic Evaluation of Inlay - Dental Tissue Interface, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9- 772069019002
41. R.M. Comăneanu, D.L. Ghergic, E. David, **F. Miculescu**, M.C. Cotruț, M. Târcolea, SEM Study About Dental Implants Failure, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069- 0193, ISBN: 9-772069019002.
42. C.M. Cotrut, A.Vladescu, V. Braic, M. Braic, I. Titorencu, , A. Kiss, **F. Miculescu**, C.N. Zoita, Characterization of Nanostructured Hf Doped Zirconium Carbonitride Films, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.
43. B. Ghiban, F. Purghele, N. Ghiban, I.V. Antoniac , A. Semenescu, S. Ciuca, **F. Miculescu**, Investigations of Different Fracture Surfaces From Stainless Steels Implants, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.
44. F. Miculescu, I. Jecu, C. Porosnicu, C. Lungu, D. Bojin, TVA Obtained CuNicoFe Nanolayers for Medical Sensors, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.
45. **F. Miculescu**, I. Jecu, C. Lungu, M. Miculescu, I. Antoniac, Measured and Estimated Influence of The Electron Beam in Analysis of Nanolayers, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9- 772069019002
45. **F. Miculescu**, L.T. Ciocan, M. Miculescu, I. Pencea, Aspects Concerning the Heavy Metal Metabolism in the Human Hard Tissues, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.  
D95. F. Miculescu, I. Pencea, M. Miculescu, I. Antoniac, Estimated Limits in XRF Analysis for Measuring Heavy Metals in Human Hard Tissues, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.
46. A. Robu, C.M. Cotrut, **F. Miculescu**, Surface and Morphology of Zr Based Biocompatible Thin Films Deposited on Metallic Substrate, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.
47. M. Târcolea, A. Bechir, R.M. Comăneanu, **F. Miculescu**, O. Smătrea, D.L. Ghergic, Microscopic Studies Regarding the Causes of the Fracture in an Aesthetic Dental Bridge, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.
48. Miculescu, F.; Stan, G. E.; Ciocan, L. T.; **Miculescu, M.**; Berbecaru, A.; Antoniac, I.; Cortical Bone As Resource For Producing Biomimetic Materials For Clinical Use, Digest Journal Of Nanomaterials And Biostructures Volume: 7 Issue: 4 Pages: 1667-1677, 2012, WOS:000312710300032, ISSN: 1842-3582 Factor de impact la data publicării IF: 1.092 / 2012 = 9,1

49. Miculescu, F; Ciocan, LT; **Miculescu, M**; Ernuteanu, A.; Antoniac, I.; Matei, E.; Pencea, I; A Study on Trace Elements Concentration in Bone Particles by XRF Analysis, Advanced Materials And Structures IV Book Series: Solid State Phenomena Volume: 188, Pages: 37-40 Published: 2012, Document Type: Proceedings Paper, Accession Number: WOS:000308047400007, ISSN: 1012-0394 Punctaj -  $50 \cdot 0,1/7 = 0,714$
50. Branzei, M.; Nedelcu, I.; **Miculescu, M.**; Complex Characterization of a New Low Ni Maraging Steel with Enhance Service Stability, Advanced Materials And Structures IV Book Series: Solid State Phenomena Volume: 188, Pages: 346-351, Published: 2012, Document Type: Proceedings Paper, Accession Number: WOS:000308047400056, ISSN: 1012-0394 Punctaj -  $50 \cdot 0,1/3 = 1,666$
51. F. Miculescu, I. Jepu, C. Lungu, **M. Miculescu**, I. Antoniac, Measured and Estimated Influence of The Electron Beam in Analysis of Nanolayers, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.
52. F. Miculescu, L.T. Ciocan, **M. Miculescu**, I. Pencea, Aspects Concerning the Heavy Metal Metabolism in the Human Hard Tissues, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.
53. F. Miculescu, I. Pencea, **M. Miculescu**, I. Antoniac, Estimated Limits in XRF Analysis for Measuring Heavy Metals in Human Hard Tissues, Proceeding of International Conference Biommedd2012, Constanța, Romania, ISSN: 2069-0193, ISBN: 9-772069019002.