

LISTA DE LUCRĂRI

Conf.Habil.Dr.Ing. Marian Miculescu

I. A-TEZE DE ABILITARE

- A. “Contributions on synthesis of natural origin ceramics and analysis on biomaterials surface and interfaces, 2019.

T-TEZE DE DOCTORAT

- T. “Metode moderne de investigare a proprietăților termofizice ale materialelor cu aplicabilitate în domeniul biomaterialelor, Conducător științific: Prof.dr.fiz. Dionezie Bojin, Universitatea POLITEHNICA București, 2010.

II. CĂRȚI PUBLICATE (C)

Ca – Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

- Ca.1. **M. Miculescu**, I. Antoniac, A. Seceleanu, “Introducere în biomateriale – note de curs”, Ed. Politehnica Press, 2019, ISBN 978-606-515-895-5
Ca.2. D. Bojin, D. Bunea, F. Miculescu, **M. Miculescu**, „Microscopie Electronică de Baleiaj și Aplicații”, Ed. AGIR, 2005, ISBN 973-720-019-5

Cb – Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

- Cb.1. **M. Miculescu**, Proprietățile termofizice ale sistemelor metalo-ceramice, Ed. Politehnica Press, 2019, ISBN 978-606-515-863-4

III. ALTE MATERIALE PUBLICATE (I,D)

I - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern).

- I.1 Antoniac, F. Miculescu, **M. Miculescu**, D. Lăptoiu, “Biomateriale - Culegere de probleme“, Ed. Printech, 2007, ISBN 978-973-718-880-9.

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

- D.1. L.T. Ciocan, F. Miculescu, I. Pătrașcu, **M. Miculescu**, “Biological reactions to dental implants, In Implant dentistry – A rapidly evolving practice”, Ilser Turkyilmaz Editor, Ed. InTech, pag. 505-530, ISBN 978-953-307-658-4, 2011.
D.2. F. Miculescu, A. Maidaniuc, G.E. Stan, **M. Miculescu**, S.I. Voicu, L.T.Ciocan, “Thermal Degradation and Morphological Characteristics of Bone Products”, in “Reactions and Mechanisms in Thermal Analysis of Advanced Materials”, Wiley, Atul Tiwari, Baldev Raj Editors, pag. 393-410, ISBN: 978-1-119-11757-5, 2015.
D.3. Miculescu, F., Ciocan, L.T., **Miculescu, M.**, Berbecaru, A., Oliva, J., Comăneanu, R.M., Book Chapter “Failure analysis of dental prosthesis”, in Handbook of Bioceramics and Biocomposites, Ed. IV. Antoniac, Springer, pag. 1217-1246, DOI: 10.1007/978-3-319-12460-5-56, ISBN 978-3-319-12459-9, 2016.
D.4. F. Miculescu, A. Maidaniuc, G.E. Stan, M. Miculescu, S.I. Voicu, A. Cîmpean, V. Mitran, D. Batalu, “Tuning hydroxyapatite particles characteristics for solid free fabrication of bone scaffolds”, in Advanced Composite Materials (Advanced Materials Book Series), Eds. Ashutosh Tiwari, Mohammad Rabia Alenezi and Seong Chan Jun, WILEY-Scrivener Publishing, USA, pag. 321-397, DOI: 10.1002/9781119242666, ISBN 987-1-119-24253-6, 2016.
D.5. F. Miculescu, A.C. Mocanu, A. Maidaniuc, C.A. Dascălu, M. Miculescu, S.I. Voicu, ”Biomimetic Calcium Phosphates Derived from Marine and Land Bioresources”, in “Hydroxyapatite” book edited by J Thirumalai InTech, ISBN 978-953-51-5731-1, 2018.
D.6. F. Miculescu, AC. Mocanu, GE. Stan, A. Maidaniuc, M. Miculescu, SI. Voicu, I. Antoniac, “Bioceramics derived from marble and sea shells as potential bone substitution materials”, in Bioceramics and biocomposites: from experiment to clinical use, Ed.I. Antoniac, Wiley, ISBN-10: 1119049342, 2019.
D.7. Biommedd VI - Key Engineering Materials, Editori I. Antoniac, M. Sinescu, M. Miculescu, publicare 2015.

IV. ARTICOLE / STUDII IN EXTENSO PUBLICATE (R,V)

Ris. Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate in alte Baze de Date Internationale - BDI specifice domeniului, care fac un proces de selectie a revistelor pe baza unor criterii de performanta). *Se mentioneaza la fiecare lucrare includerea in Baza ISI [Accession Number, WOS=....., ultimul Factor Impact, ISSN] si/sau denumirea altei (altor) BDI.*

- Ris.1. 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 Phosphorus-Based 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 – $50 * 2.467 / 10 = 12,335$
- Ris.2. Miculescu, F., Mocanu, A.C., Stan, G.E., Miculescu, M., Maidaniuc, A., Cîmpean, A., Mitran, V., Voicu, S.I., Machedon-Pisu, T., Ciocan, L.T., Influence of the modulated two-step synthesis of biogenic hydroxyapatite on biomimetic products' surface, *Applied Surface Science*, 2018, 438, Pages: 147-157, DOI: 10.1016/j.apsusc.2017.07.144, WOS:000425731200016
Factor de impact mai 2020
I.F. 4.439 - $50 * 4.439 / 10 = 22,195$
- Ris.3. Maidaniuc, A., Miculescu, F., Voicu, S.I., Andronescu, C., Miculescu, M., Matei, E., Mocanu, A.C., Pencea, I., Csaki, I., Machedon-Pisu, T., Ciocan, L.T., Induced wettability and surface-volume correlation of composition for bovine bone derived hydroxyapatite particles, *Applied Surface Science*, 2018, 438, Pages: 158-166, DOI: 10.1016/j.apsusc.2017.07.074, WOS:000425731200017
Factor de impact mai 2020
I.F. 4.439 - $50 * 4.439 / 11 = 20,177$
- Ris.4. F. Miculescu, A.C. Mocanu, C.A. Dascalu , A. Maidaniuc, D. Batalu, A. Berbecaru, S.I. Voicu, M. Miculescu, V. Kumar Thakur, L.T. Ciocan, Facile synthesis and characterization of hydroxyapatite particles for high value nanocomposites and biomaterials, *Vacuum*, 146, Pages: 614-622, DOI: 10.1016/j.vacuum.2017.06.008, ISSN: 0042-207X, WOS:000416184600080
Factor de impact mai 2020
IF=2.067 - $50 * 2.067 / 11 = 10,335$
- Ris.5. Miculescu M., Thakur V.K., Miculescu F, Voicu S.I., Graphene-based polymer nanocomposite membranes: a review, *Polymers for advanced technologies*, January 2016, 27, Issue: 7, Pages: 844-859, DOI: 10.1002/pat.3751, WOS:000378733400001
Factor de impact mai 2020
I.F. 2.137 - $50 * 2,137 / 4 = 26,712$
- Ris.6. Manolea, H., Antoniac, I., Miculescu, M., Rică, R., Platon, A., Melnicenco, R., Variability of the composite resins adhesion with the dental substrate preparation and the used adhesive type, *Journal of Adhesion Science and Technology*, 2015, 30, Issue: 16, Pages: 1754-1764, DOI: 10.1080/01694243.2015.1091676, WOS:000373945200005
Factor de impact mai 2020
I.F. 1,039 - $50 * 1,039 / 6 = 8.658$
- Ris.7. Voicu S.I., Condruz R.M., Mitran V., Cimpean A., Miculescu F., Andronescu C., Miculescu M., Thakur V.K., Sericin Covalent Immobilization onto Cellulose Acetate Membrane for Biomedical Applications, *ACS SUSTAINABLE CHEMISTRY & ENGINEERING*, February 2016, 4, Issue: 3, Pages: 1765-1774, DOI: 10.1021/acssuschemeng.5b01756, WOS:000371755400134
Factor de impact mai 2020
I.F. 6,14 - $50 * 6,140 / 8 = 38,375$
- Ris.8. Miculescu, F; Jepu, I; Stan, GE; Miculescu, M; Voicu, SI ; Cotrut, C; Pisu, TM; Ciuca, S, Tailoring the electric and magnetic properties of submicron-sized metallic multilayered systems by TVA atomic inter-diffusion engineered processes, *APPLIED SURFACE SCIENCE*, Volume: 358, Pages: 619-626, 2015, WOS:000366220500016, ISSN: 0169-4332
Factor de impact mai 2020
I.F. 4.439 - $50 * 4,439 / 6 = 27,743$
- Ris.9. Miculescu, F; Maidaniuc, A; Voicu, SI; Miculescu, M; Berbecaru, A; Ciocan, LT; Purcaru, A; Semenescu, A; Preda, O, Structural and morphological induced modifications in hydroxyapatite obtained by bone thermal treatments, *Journal Of Optoelectronics And Advanced Materials*, Volume: 17 Issue: 9-10 Pages: 1361-1366, 2015, WOS:000364600400021,ISSN:1454-4164
Factor de impact mai 2020
I.F. 0,429 - $50 * 0,429 / 6 = 3,575$
- Ris.10. A Maidaniuc, M. Miculescu, S.I. Voicu, L.T. Ciocan, M. Niculescu, M.C. Corobea, M.E. Rada, F. Miculescu, Effect of micron sized silver particles concentration on the adhesion induced by sintering and antibacterial properties of hydroxyapatite microcomposites, *Journal of Adhesion Science and Technology*, Volume 30, Issue 17, 2016, Pages 1829-1841, DOI: 10.1080/01694243.2016.1163808;

WOS:000374585600001; ISSN: 0169-4243.

Factor de impact mai 2020

IF=1.073 - 50*1,073/8=6,706

- Ris.11. Miculescu, F; Purcaru, A; Miculescu, M; Ciocan, LT; Voicu, SI; Maidaniuc,; Mocanu,; Branzei, M, Hydroxyapatite induced microstructure by cooling rate modification of cancellous bone thermal treatment, Journal Of Optoelectronics And Advanced Materials, Volume: 17 Issue: 7-8 Pages: 1219-1224, 2015, WOS:000359967600048, ISSN: 1454-4164 .

Factor de impact mai 2020

I.F. 0,449 = 2,806

- Ris.12. 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

- Ris.13. 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

- Ris.14. 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

- Ris.15. 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 BIOMMED 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

- Ris.16. Miculescu, F.; Ciocan, L. T.; Miculescu, M.; Branzei, M.; Ghiban, N.; Thermal processing temperature influence on hard tissue chemical composition JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 15 Issue: 7-8 Pages: 707-711, 2013, WOS:000323397900019, ISSN: 1454-4164

Factor de impact mai 2020

IF: 0,563 = 5,63

- Ris.17. Magheru, A.M; Ghiban, B; Ghiban, N; Miculescu, M.; Friction Behaviour Of New Tymo Alloys For Biomedical Applications, Metalurgia International Volume: 18 Special Issue: 1, Pages: 81-84, Published: 2013, WOS:000315368200018, ISSN: 1582-2214

Factor de impact mai 2020

IF: 0,134 = 1,675

- Ris.18. Miculescu, F.; Miculescu, M.; Ciocan, L.T.; Pencea, I.; Ernuteanu A.; Matei, E.; Correlation of Spectrometric Methods In Hard Tissue Heavy Elements Concentration Study, University Politehnica Of Bucharest Scientific Bulletin-Series A-Applied Mathematics And Physics, 75, Issue: 1, Pages: 233-242, 2013, WOS:000315547300022, ISSN: 1223-7027

Factor de impact mai 2020

IF: 0.461 = 3,841

- Ris.19. 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

- Ris.20. Miculescu, F.; Miculescu, M.; Ciocan, L. T.; Ernuteanu, A.; Antoniac, I.; Matei, E.; Pencea, I; Comparative Studies Regarding Heavy Elements Concentration in Human Cortical Bone, Digest Journal of Nanomaterials and Biostructures Volume: 6 Issue: 3 Pages: 1117-1127, 2011, WOS:000297986100026

ISSN: 1842-3582

Factor de impact la data publicării

IF: 1.2 / 2011 = 8,570

- Ris.21. Miculescu, F.; Jepu, I.; Lungu, C. P.; Miculescu, M.; Bane, M.; Researches Regarding the Microanalysis Results Optimisation on Multilayer Nanostructures Investigations, Digest Journal of Nanomaterials and Biostructures Volume: 6 Issue: 2 Pages: 769-778 2011, WOS:000290789400050, ISSN: 1842-3582

Factor de impact la data publicării

- IF: 1.2 / 2011; = 12**
- Ris.22. Miculescu, F.; Ciocan, L. T.; Miculescu, M.; Ernuteanu, A.; Effect Of Heating Process On Micro Structure Level Of Cortical Bone Prepared For Compositional Analysis, Digest Journal Of Nanomaterials And Biostructures Volume: 6 Issue: 1 Pages: 225-233, 2011, WOS:000289716200028, ISSN: 1842-3582
Factor de impact la data publicării
IF: 1.2 / 2011; - 15
- Ris.23. Miculescu, F.; Jepu, I.; Porosnicu, C.; Lungu C.P.; Miculescu, M.; Burhala, B.; A Study on the Influence of the Primary Electron Beam on Nanodimensional Layers Analysis, Digest Journal Of Nanomaterials And Biostructures Volume: 6 Issue: 1 Pages: 307-317, 2011, WOS:000289716200039, ISSN: 1842-3582
Factor de impact la data publicării
IF: 1.2/ 2011; = 10
- Ris.24. Miculescu, F.; Jepu, I.; Lungu, C.P.; Miculescu, M.; Antoniac, I.; Tarcolea, M.; Branzei, M.; Correlation Between Simulation and Microanalytical Experiment in Multilayer Nanostructures Type Analysis University Politehnica Of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics, Volume: 73, Issue: 4, Pages: 153-166, 2011, WOS:000299150300013, ISSN: 1223-7027
Factor de impact mai 2020
IF: 0.461; = 3.292
- Ris.25. Ciocan, L. T.; Miculescu, F.; Miculescu, M.; Patrascu, I.; Retrieval analysis on dental implants biointegration phases, ROMANIAN JOURNAL OF MORPHOLOGY AND EMBRYOLOGY Volume: 51 Issue: 1 Pages: 117-122, 2010, WOS:000275165700018, ISSN: 1220-0522
IF: 0.67; = 8,375
- Ris.26. Pencea, I.; Miculescu, M.; Pencea, M.; Sfat, C.E.; Branzei, M.; Manoliu, V.; Thermal barrier effect estimation of a new refractory enamel, Optoelectronics And Advanced Materials-Rapid Communications Volume: 3 Issue: 5 Pages:439-445, 2009, WOS:000268622300011, ISSN: 1842-6573
Factor de impact mai 2020
IF: 0.390; = 3,25
- Ris.27. Corobea, M. C.; Donescu, D.; Petcu, C.; Radovici, C.; Serban, C; Constantinescu, S.; Miculescu, M.; Polyvinyl alcohol - Na montmorillonite nanocomposites films obtained by solution intercalation, Journal Of Optoelectronics And Advanced Materials, 9, Issue: 11, Pages: 3358-3360, 2007, WOS:000251435200014, ISSN: 1454-4164
Factor de impact la data publicării
IF: 1.106 / 2007 = 11,060
- Ris.28. Miculescu, M.; Motiu, G.; Radut, M.; Donescu, D.; Corobea, M.C.; Study of a polymer-clay nanocomposite material interaction with a VERO cell line for cytotoxic evaluation, Journal Of Optoelectronics And Advanced Materials, 9, Issue: 11, Pages: 3364-3367, 2007, WOS:000251435200016, ISSN: 1454-4164
Factor de impact la data publicării
IF: 1.106 / 2007 = 11,060
- Ris.29. Voicu, S. I.; Nechifor, A. C.; Serban, B.; Nechifor, G.; Miculescu, M.; Formylated polysulfone membranes for cell immobilization, JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, 9, Issue: 11, Pages: 3423-3426, 2007, WOS:000251435200029, ISSN: 1454-4164
Factor de impact la data publicării
IF: 1.106 / 2007 = 11,060
- Ris.30. Miculescu, F; Maidaniuc, A; Miculescu, M; Batalu, ND; Ciocoiu, RC; Voicu, SI; Stan, GE; Thakur, VK, Synthesis and Characterization of Jellified Composites from Bovine Bone-Derived Hydroxyapatite and Starch as Precursors for Robocasting, ACS OMEGA, 3 (1), Pages: 1338-1349, DOI: 10.1021/acsomega.7b01855, WOS:000427933200143, ISSN: 2470-1343.
Punctaj - 50*0,1/8=0,625
- Ris.31. Maidaniuc, Andreea; Miculescu, Florin; Mocanu, Aura Catalina; et al, Sinterability Study of Bovine-Derived Hydroxyapatite and Silver Microcomposites, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry And Materials Science, 79 (1), Pages: 145-154, WOS:000405772200015, ISSN: 1454-2331
Punctaj - 50*0,1/9=0,555
- Ris.32. 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, WOS:000347924100007,
Punctaj - 50*0,1/6=0,833
- Ris.33. 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*0,1/5=1,000
- Ris.34. 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,

Document Type: Proceedings Paper, Accession Number: WOS:000336552600022, ISSN: 1013-9826

Punctaj - $50 \cdot 0,1/6 = 0,833$

- Ris.35. 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 - $50 \cdot 0,1/6 = 0,833$
- Ris.36. Magheru, A.M; Ghiban, B; Ghiban, N; Miculescu, M.; FRICTION BEHAVIOUR OF NEW TiMo ALLOYS FOR BIOMEDICAL APPLICATIONS, *METALURGIA INTERNATIONAL* Volume: 18 Special Issue: 1, Pages: 81-84, Published: 2013, Document Type: Article, Accession Number: WOS:000315368200018, ISSN: 1582-2214
Punctaj - $50 \cdot 0,1/4 = 1,250$
- Ris.37. 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 - $50 \cdot 0,1/7 = 0,714$
- Ris.38. 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 - $50 \cdot 0,1/3 = 1,666$
- Ris.39. G. Popescu, P. Moldovan, S. Bejan, M. Miculescu, F. Miculescu, *Thermophysical properties and microstructural analysis of AZ80 magnesium alloys designed for automotive industry*, Materials Science and Technology Conference and Exhibition, MS and T'08, Vol. 2, Pag. 1222-1229, Proceeding. Document Type: Conference Paper. Materials Science and Technology Conference and Exhibition, MS and T'08; Pittsburgh, PA; United States; Code 75829. Indexat SCOPUS. ISBN: 9781605606217, 2008.
Punctaj ($50 \cdot 0.08$) / 5 = 0.8
- Ris.40. M. Miculescu, G. Coşmeleată, M. Brânzei, F. Miculescu, Thermal diffusivity of materials using flash method applied on CoCr alloys, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, Volume 70, Issue 2, 2008, Pages 71-80, ISSN: 14542331, CODEN: SBPSF, Indexat SCOPUS, Document Type: Article, 2008.
Punctaj ($50 \cdot 0.08$) / 4 = 1
- Ris.41. M. Branzei, P. Svasta, F. Miculescu, M. Miculescu, I. Plotog, *Correlation between the thermophysical properties, geometry and microstructure of the SAC305 and SAC-X typical solder joints*, SIITME 2009 - 15th International Symposium for Design and Technology of Electronics Packages, Art.No. 5407386, Pag. 129-133, Document Type: Conference Paper. 15th International Symposium for Design and Technology of Electronics Packages, SIITME 2009; Gyula; Hungary; Category number CFP0907I-CDR; Code 79485, DOI: 10.1109/SIITME.2009.5407386, Indexat SCOPUS. ISBN: 9781424451333, 2009.
Punctaj ($50 \cdot 0.08$) / 5 = 0.8
- Ris.42. F. Miculescu, I.V. Antoniac, L.T. Ciocan, M. Miculescu, M. Branzei, A. Ernuteanu, D. Batalu, A. Berbecaru, Complex analysis on heat treated human compact bones, *UPB Scientific Bulletin, Series B: Chemistry and Materials Science*, Vol. 73, Iss. 4, Pag. 203-212, Document Type: Article. Indexat SCOPUS. ISSN 1454-2331, 2011.
Punctaj ($50 \cdot 0.08$) / 8 = 0.5
- Ris.43. 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.
Punctaj ($50 \cdot 0.08$) / 4 = 1
- Ris.44. 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
- Ris.45. 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.
Punctaj ($50 \cdot 0.08$) / 7 = 0.571
- Ris.46. 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*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*0.08) / 6 =0.66

Ris.48. S.I. Voicu, A. Muhulet, M. Miculescu, F. Miculescu, S. Vizireanu, Polysulfone membrane reactors for derivatization of carbon nanotubes, Advanced Materials - TechConnect Briefs 2016, Volume 1, 2016, Pages 300-303, 10th Annual TechConnect World Innovation Conference and Expo, Held Jointly with the 19th Annual Nanotech Conference and Expo, and the 2016 National SBIR/STTR Conference; Washington; United States; Code 122946, ISBN: 978-099751170-3, Document Type: Conference Paper, Indexat SCOPUS, 2016.

Punctaj (50*0.08) / 5 =0.8

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Vi.4. I. Antoniac, D. Laptoiu, M. Miculescu, V. Bunea, F. Miculescu, Retrieval analysis of some cementless HA-coated smooth surface acetabular implants, European Cells and Materials, Vol. 5, Iss. SUPPL. 1, Pag. 51-52, Source Type: Journal. Document Type: Conference Paper. Indexat SCOPUS. ISSN: 14732262,

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V. BREVETE DE INVENȚIE / INOVAȚII (B,A)

B - Brevete de invenție.

- B.1. Maraging steel meant to be used at high temperatures and method for the thermal treatment thereof, Patent Number(s): RO123056-B1, Botan V, Branzei M, Carceanu I, Epure S, Marta C, **Miculescu M**, Nedelcu D, Nedelcu I, Roceanu I, Derwent Primary Accession Number: 2010-M72720
- B.2. Procedeu de Obținere a unui Produs Tip Scaffold pe Bază de Hidroxiapatită, pentru Reconstrucția Defectelor Osoase Majore, cu Proprietăți Fizico-Chimice Predeterminate, Patent Number(S): RO131943 (B1), Miculescu Florin; Maidaniuc Andreea; Costoiu Mihnea Cosmin; Semenescu Augustin; Miculescu Marian; Ioniță-Radu Florentina; Arghirescu Marius. Derwent Primary Accession Number: 2017-441190
- B.3. Uscător mecanoelectric de rufe, Patent Number(s): RO131500 (B1), Miculescu Florin; Miculescu Marian; Costoiu Mihnea Cosmin; Chivu Oana-Roxana; Barbu Cătălin-Alexandru; Semenescu Augustin, Derwent Primary Accession Number: 2016-73519D

VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/strainatate (**Pn** – nationale, **Pi** - internationale).

- Pi.1. FP6 “Magnesium forged components for structural lightweight automotive applications“, MAGFORGE Responsabil contract Prof.dr.ing. Petru Moldovan. (3 ani) Punctaj 4 x 3 = 12
- Pi.2. FP6-Marie Curie Actions-ToK; Contract nr. 014059/2005; Intensive Program for Transfer of Knowledge to Eastern Europe Reference Pole for Micro- and Nanotechnologies (NANOTEC-EST), Director de contract Meghea Aurelia/Bunea Daniel. (3 ani) Punctaj 4 x 3 = 12

- Pi.3. FP7-NMP-2007-LARGE-1, Proiect nr.293104/2008, Novel biofunctional polymer scaffolds and techniques for the regeneration and repair of degenerate intervertebral disc, Acronym Disc Regeneration; Collaborative Project; Large-scale integrating project; Work programme topics addressed: NMP-2007-2.3-1; Director proiect: Prof. Luigi Ambrosio. (3 ani) Punctaj 4 x 3 = 12
- Pi.4. COST MP0602 - "Advanced Solder Materials for High Temperature Application (HISOLD)", Responsabil de contract Prof.Dr.Ing. Svasta Paul. (3 ani) Punctaj 4 x 3 = 12
- Pn.1. Grant CNCISIS – tip TD (competiția 2004), Tema Nr. 14, Cod CNCISIS 438, Unic Partener UPB, - Cercetari experimentale privind posibilitatile de caracterizare termofizica a unor biomateriale metalice in diferite stari de prelucrare metalurgica, 2004-2006. Director Proiect (3 ani) Punctaj 3x5=15p
- Pn.2. Contract nr. 130/2004 program INVENT (competiția 2004), Contractor SC BIMETAL SA; partener UPB. Asimilarea tehnologiei de fabricație a platinelor din oțeluri inoxidabile feritice economice, W 4510, W 4521, destinate fabricării echipamentelor pentru industria alimentară, prin practicarea desulfurării avansate cu ajutorul dispozitivului brevetat. Responsabil Contract (3 ani) – punctaj 3x5=15p
- Pn.3. Grant ANSTI Contract Nr. 5076/1999, Nr. temă A1, Cercetări privind posibilitățile de utilizare a materialelor din producția națională ca materiale biocompatibile și elaborarea de noi materiale cu ajutorul tehnicilor moderne de prelucrare metalurgică și de depuneri electrochimice, Director de contract Prof.Dr.Ing. Bunea Daniel. (3 ani) 6
- Pn.4.
- Pn.5. Grant CNCISIS Contract 34967/2001, Nr. temă 15, Cod CNCISIS 600/2001, Cercetări privind stabilirea unei tehnologii ecologice de reciclare a deșeurilor de titan în vederea obținerii unui nou aliaj de titan utilizabil ca biomaterial, Director de contract Iulian Antoniac. (2 an) - Punctaj =4
- Pn.6. Grant CNCISIS tip A, contract Nr. 34967/2001, tema nr.63, Cod CNCISIS 601, Cercetări privind prelucrările metalurgice ale oțelurilor inoxidabile austenitice biocompatibile, utilizând tehnica vidului, Director de contract Prof.Dr.Ing. Daniel Bunea. (1 an) 2
- Pn.7. Contract INFOSOC Nr. 18/2001, Centru virtual de selecție a biomaterialelor, Director de contract Prof.Dr.Ing. Târcolea Mihail. (3 ani) - Punctaj =6
- Pn.8. Contract BIOTECH Nr.82/2001, Modelarea si cuantificarea interaciilor biomaterialelor si implantelor cu mediul gazda si/sau tesut implantat prin metode avansate, Director de contract Caloianu Maria. (3 ani) - Punctaj =6
- Pn.9. Contract RELANSIN S9 Nr. 1473/2001, Centru de biomateriale, Responsabil de contract Prof.Dr.Ing Zamfir Simona. (3 ani) - Punctaj =6
- Pn.10 Contract RELANSIN S13 Nr. 1474/2001, Realizarea protezelor articulare de șold, Director de contract Brânzei Mihai. (3 ani) - Punctaj =6
- Pn.11 Contract RELANSIN / Nr. 1740/2003, Tehnologii noi pentru fabricarea de etaloane spectrale din oțeluri și aliaje complexe, Responsabil contract Pencea Ion. (2 ani) 4
- Pn.12 Contract RELANSIN S8 Nr. 1771/2003, Laborator mobil pentru determinarea de la distanță a amprentei termice a tehnicii militare în gama spectrală $2 \div 5\mu\text{m}$ și $8 \div 12\mu\text{m}$, Responsabil de contract Conf.Dr.Ing. Pencea Ion. (2 ani) - Punctaj =4
- Pn.13 Contract CERES Nr. 4-116/2004, Cercetari privind influenta gradului de prelucrare al suprafetei biomaterialelor metalice asupra proceselor de osteointegrare in tesuturile biologice, Responsabil contract CEEX Prof.dr.ing. Bunea Daniel. (2 ani) - Punctaj =4
- Pn.14 Contract RELANSIN S3, Subcontract Nr. 1964/2004, Modernizarea echipamentelor și aplicațiilor în transportul și distribuția gazelor naturale prin realizarea și utilizarea de adezivi și paste de etanșare cu proprietăți specifice, APEG, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (2 ani) - Punctaj =4
- Pn.15 Contract RELANSIN S3, PDT, 2025/2004, Realizarea tehnologiei de prelucrare a unor aliaje biocompatibile pe bază de metale nobile, Responsabil de contract Prof.Dr.Ing. Răducanu Doina. (2 ani) 4
- Pn.16 Contract RELANSIN Nr. 2146/2004, Gamă de depărtătoare autostatice cu multiple aplicații chirurgicale, Responsabil de contract Antoniac Iulian. (18 luni) - Punctaj =4
- Pn.17 Contract AGRAL S5, Nr. 267/2004, Realizarea si dezvoltarea unui echipament modern, destinat ambalării produselor alimentare portionate, prin metoda top sealing, Responsabil de contract Antoniac Iulian. (2 ani) - Punctaj =4
- Pn.18 Contract CEEX 46/2005 Retea tehnologica integrata de cercetare a structurilor avansate biocompatibile pentru implanturi dentare, Rete-β-dent, Responsabil contract Prof.dr.ing. Târcolea Mihai. (3 ani) - Punctaj =6
- Pn.19 Contract CEEX nr.121/10.10.2005, Analiza aprofundată privind implicațiile structurale rezultate din utilizarea combustibililor alternativi la fabricarea cimentului, IARIS, Responsabil de contract: Miculescu Florin (3 ani) - Punctaj =6
- Pn.20 Contract CEEX nr. 06-10-89/2006, Producerea și studiul comportării acoperirilor din carbon, wolfram și beriliu folosit la primul perete al instalațiilor de fuziune termonucleară, FUSITERMAT, Responsabil de contract: Miculescu Florin (2 ani) 6
- Pn.21 Contract CEEX Nr. 21/2006, Dinamica si structura fluxului in supraconductori nanostructurati sau cvasi-

- bidimensionali, FLUXDIN, Responsabil de contract Prf.Dr.Fiz. Bojin Dionezie. (2 ani) - Punctaj =4
- Pn.22 Contract CEEX Nr. 06-10-82/2006 Cercetari avansate privind dezvoltarea unei structuri de moderare, focalizare si accelerare fascicule de pozitroni monoenergetici in domeniul 0,8- 50 keV, utilizata la determinarile de defecte de tip vacanta sau aglomerari de goluri in materia condensata, TUN POZITRONIC, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (2 ani) - Punctaj =4
- Pn.23 Contract CEEX Nr. 116/2006, Studii fundamentale privind integrarea osoasa si epitelio-conjunctiva a implantului dentar in scopul cresterii performantelor pe termen lung, DIOBONE, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (3 ani) - Punctaj =6
- Pn.24 Contract CEEX RELANSIN Nr. 142/2006, Cercetari privind eco-ingineria produselor de protectie anticorosiva peliculogene, ECOINGPRO, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (2 ani) - Punctaj =4
- Pn.25 Contract CEEX-VIASAN Nr. 150/2006, Dezvoltarea de noi tehnici Laser pentru proiectarea si fabricarea de biosenzori, BIOSENSOR, Responsabil contract Conf.dr.ing. Ciucă Sorin. (3 ani) - Punctaj =6
- Pn.26 Contract CEEX-VIASAN Nr. 165/2006, Dezvoltarea de tehnici inovative in chirurgia abdominala bazate pe utilizarea unor structuri biointegrabile si dezvoltarea de noi metode de evaluare a biodegradabilitatii acestora, MEBIOS, Responsabil S.I.dr.ing. Antoniac Iulian. (2 ani) - Punctaj =4
- Pn.27 Contract CEEX Nr.166/P1/2006, Cercetari privind preprocesarea materialelor compozite avansate cu matrice metalica MMCs si ceramica CMCs, MAT-COM, Responsabil contract Prof.dr.fiz. Bojin Dionezie. (2 ani) - Punctaj =4
- Pn.28 Contract CEEX RELANSIN Nr.235/2006, Biofunctionalizarea suprafetei implanturilor pentru osteosinteza, OSTEOSURF, Responsabil de contract S.I.dr.ing. Antoniac Iulian. (2 ani) - Punctaj =4
- Pn.29 Contract CNMP Nr. 71-032/2007, Valve de Spin: De la metode combinatoriale de procesare la proprietăți performante, VALS, Responsabil de contract: Miculescu Florin (3 ani) - Punctaj =6
- Pn.30 Contract CEEX RELANSIN Nr. 297/2006, Cercetari privind mecanismul durificarii si stabilitatea la cald a otelurilor de tip maraging, MEDUR, responsabil Conf.dr.ing. Brânzei Mihai. (2 ani) - Punctaj =4
- Pn.31 Contract CNMP Nr. 31-001/2007, Sistem mobil de monitorizare rapidă a agenților biologici și chimici pentru obiective de importanță strategică, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (3 ani) - Punctaj =6
- Pn.32 Contract CNMP Nr. 81-002/2007, Sistem mobil de detecție, identificare și monitorizare biologică și chimică, LITECAT, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (3 ani) 6
- Pn.33 Contract CNMP Nr. 32-165/2008, Medii de epurare controlată a apelor contaminate chimic și biologic, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (3 ani) 6
- Pn.34 Contract CNMP Nr. 72-223/2008, Cercetări avansate pentru producerea acoperirilor combinatoriale de interes pentru fuziune, CAPACIF, Responsabil de contract: Miculescu Florin (3 ani) - Punctaj =6
- Pn.35 Contract TE Nr.144/2010. “Metode combinate de evaluare a trasabilității contaminării persoanelor cu metale grele în corelație cu metabolismul țesuturilor dure umane”, Director de contract: Miculescu Florin (3 ani) - Punctaj =6
- Pn.36 Contract TE Nr. 297/2015. “Integrated technology for custom-made biomimetic implants development used for major bone defects reconstruction“ (2 ani) - Punctaj =6
- Pn.37 Contract TE Nr. /2015 Director Conf.dr.ing. Stefan Ioan Voicu (2 ani) - Punctaj =4
- Pn.38 Contract PN-III-P2-2.1-PED-2016-0892, PED-2016-1657, “O noua tehnologie pentru sinteza și fabricarea implanturilor biomimetice derivate din surse biogene utilizate pentru chirurgia reconstructivă osoasă”, BioImMS. (2 ani)

Data,
18.05.2020

Semnatura,
Conf.Dr.Ing. Marian Miculescu