

## FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PREZENTARE LA CONCURS [PROFESOR]

**Conf.dr.ing. Marian Miculescu**

**Departamentul de Știința Materialelor Metalice, Metalurgie Fizică, Facultatea de Știința și Ingineria Materialelor**

Condiții	Îndeplinire condiții	
<b>A. Doctor</b>	Diploma de Doctor în domeniul Știința și Ingineria Materialelor, Seria E, Nr.0001298, din 10.05.2006 emisă de Universitatea POLITEHNICA din București	
<b>B. Îndeplinirea standardelor minime naționale conform OM nr. 6129/2016;</b>	Standarde îndeplinite, conform Comisiei CNATDCU Nr. 7, INGINERIA MATERIALELOR Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate:	
<b>Condiții minime [Punctaj]</b>	<b>Minim prevăzut</b>	<b>Realizat</b>
A1. Activitatea didactică / profesională	60	71
A2. Activitatea de cercetare	320	579
A3. Recunoașterea impactului activității	120	998
<b>TOTAL (A)</b>	<b>500</b>	<b>1648</b>
<b>Condiții minime obligatorii pe subcategorii</b>	<b>Minim prevăzut</b>	<b>Realizat</b>
A.1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute <i>A.1.1.1. Carti/capitole ca autor</i>	<i>2, d.c. 1 ca prim autor</i>	<i>8, d.c. 1 ca prim autor</i>
A.1.2. Suport didactic <i>A.1.2.1. Manuale didactice, monografii, inclusiv electronice</i>	<i>2, d.c. 1 ca prim autor</i>	<i>3, d.c. 1 ca prim autor</i>
A.2.1. Articole în reviste cotate ISI Thomson Reuters – Web of Science Core Collection [FI – Factor de Impact] și în volume indexate ISI proceeding, în specificul postului scos la concurs	<b>15</b>	<b>38</b>
<i>Articole în reviste cotate ISI Th.R.</i>	<i>10</i>	<i>29</i>
<i>Articole în reviste cotate ISI Th.R.cu FI de min.1</i>	<i>5</i>	<i>17</i>
<i>Articole în reviste cotate ISI Th.R.ca autor principal cu FI de min. 0.5</i>	<i>5</i>	<i>5</i>
A.2.4. Granturi/proiecte de cercetare câștigate prin competiție / Contracte cu agenți economici, min 10.000 echivalent Euro, incasati <i>A.2.4.1. Director / responsabil partener</i>	<i>2, din care cel puțin 1 ca director</i>	<i>2, din care 1 ca director si 1 responsabil partener</i>
3.1. Citari in reviste cotate in ISI Thomson Reuters – Web of Science Core Collection [FI – Factor de Impact] si in alte BDI (FI se refera la revista in care a fost publicat articolul care citeaza)	<i>30</i> <i>in ISI Thomson Reuters – Web of Science Core Collection si Scopus [se exclud autocitarile tuturor coautorilor]</i>	<i>172</i> <i>in ISI Thomson Reuters – Web of Science Core Collection si Scopus [sunt excluse autocitarile tuturor coautorilor]</i>
<b>C. Atestarea studiilor (diplomă + Foi Matricole) și a altor realizări profesionale</b>	<b>Diploma de inginer:</b> în domeniul Știința Materialelor Seria C, Nr. 0031692, din 18.12.2003 emisă de Universitatea POLITEHNICA din București <b>Foia Matricolă anexă la Diploma de Inginer</b> <b>Alte Diplome:</b> Diploma de Șef de Promoție <b>Alte Certificate:</b> Certificat de Absolvire a studiilor emis de Departamentul pentru pregătirea personalului didactic din Universitatea POLITEHNICA din București, Seria D Nr. 0004141, din 18.12.2003 <b>Alte acte de atestare a studiilor/realizarilor profesionale:</b> Atestate de absolvire a cursurilor de specializare și perfecționare, Premii	

**Subsemnatul Miculescu Marian, încadrat în Domeniul de Studii Universitare Ingineria Materialelor, arondat Comisiei de Specialitate CNATDCU [OM nr. 6129/2016] Nr.7, Ingineria Materialelor, declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declarații, din Legea 286/2009 - Codul Penal, ca sunt îndeplinite toate Standardele minime prevazute si sustin veridicitatea informatiilor prezentate in dosar si in materialul de mai sus**

**Autor:**

**Conf.dr.ing. Marian MICULESCU**

**Data:**

**15.04.2019**

# ANEXA FIȘĂ VERIFICARE STANDARDE MINIMALE

## Conf.Dr.Ing. Marian Miculescu

### A.1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute

#### A.1.1.1. Carti/capitole ca autor

Minim	Realizat
2 d.c. 1 ca prim autor	8 d.c 1 ca prim autor

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, DOI: 10.5772/17925, ISBN 978-953-307-658-4, 2011, WOS:000372912800023, Book DOI: 10.5772/706
2. D. Bojin, D. Bunea, F. Miculescu, M. Miculescu, „*Microscopie Electronică de Baleiaj și Aplicații*”, Ed. **AGIR**, 2005, ISBN 973-720-019-5 (217 pagini). **Editură recunoscută cod CNCISIS: 140**
3. 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, DOI: 10.1002/9781119117711.ch16, ISBN: 978-1-119-11757-5, 2015. (Autor Principal) – 126 Libraries
4. 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. 457 Libraries
5. 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**, pag. 321-397, DOI: 10.1002/9781119242666, 2016. (Autor Principal) – 136 Libraries, WOS:000458720600008, ISBN:978-1-119-24266-6; 978-1-119-24253-6
6. 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**, DOI: 10.5772/intechopen.71489, ISBN 978-953-51-5731-1, 2018. (Autor Principal)
7. 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**, pag. 87-122, DOI: 10.1002/9781119372097.ch5, ISBN: 978-1-119-37214-1, 2019. (Autor Principal)
8. M. Miculescu, Proprietățile termofizice ale sistemelor metalo-ceramice, Ed. Politehnica Press, 2019, ISBN 978-606-515-863-4 (163 pagini), **Editură recunoscută cod CNCISIS: 19**  
Punctaj  $163 / 5 * 1 = 32,60$  (Prim Autor)

### A.1.2. Suport didactic

#### A.1.2.1. Manuale didactice, monografiile, inclusiv electronice

Minim	Realizat
2 d.c. 1 ca prim autor	3 d.c 1 ca prim autor

1. M.Bane, M. Miculescu, “*Teoria Structurală a Proprietăților Biomaterialelor - I*”, Ed. Politehnica Press, 2014, ISBN 978-606-515-592-0 (217 pagini) **Editură recunoscută cod CNCISIS: 19**.
2. M. Branzei, D. Gheorghe, M. Miculescu, Proprietatile termofizice ale materialelor si metode de investigare în Tratat de stiinta si ingineria materialelor metalice. Vol.5. Tehnologii de procesare finala a materialelor metalice, Ed. AGIR, 978-973-720-391-5. **Editură recunoscută cod CNCISIS: 140**.
3. M. Miculescu, M.Bane, „*Teoria Structurală a Proprietăților Biomaterialelor - II*”, Ed. Politehnica Press, 2019, ISBN 978-606-515-864-1 (190 pagini) (Prim Autor) **Editură recunoscută cod CNCISIS: 19**.

### ALTE MATERIALE PUBLICATE

#### Culegeri și Îndrumare publicate.

1. Antoniac, F. Miculescu, M. Miculescu, D. Lăptoiu, “*Biomateriale - Culegere de probleme*”, Ed. Printech, 2007, ISBN 978-973-718-880-9 (112 pagini).

**A.2.1. Articole în reviste cotate ISI Thomson Reuters – Web of Science Core Collection [FI – Factor de Impact] și în volume indexate ISI proceeding, în specificul postului scos la concurs**

Articole ISI cotate		Factor minim 1		Autor principal factor minim 0.5	
Minim	Realizat	Minim	Realizat	Minim	Realizat
10	<b>29</b>	5	17	5	5

Nr. crt	Articole	Cotat	FI > 1	Aurot principal FI > 0,5
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, <b>Factor de impact aprilie 2019 IF 2,467</b>	DA	DA	
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 <b>Factor de impact aprilie 2019 I.F. 4.439</b>	DA	DA	DA
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 <b>I.F. 4.439</b>	DA	DA	
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 <b>Factor de impact aprilie 2019 IF=2.067</b>	DA	DA	DA
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 <b>Factor de impact aprilie 2019 I.F. 2.137</b>	DA	DA	DA
6.	Manolea, H., Antoniac, I., Miculescu, M., Rîcă, 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 <b>Factor de impact aprilie 2019 I.F. 1,039</b>	DA		
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/acsschemeng.5b01756, WOS:000371755400134 <b>Factor de impact aprilie 2019 I.F. 6,14</b>	DA	DA	
8.	Miculescu, F; Jepu, I; Stan, GE; Miculescu, M; Voicu, SI ; Cotrut, C; Pisu, TM;	DA	DA	

	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 <b>Factor de impact aprilie 2019</b> <b>I.F. 4.439</b>			
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 <b>Factor de impact aprilie 2019</b> <b>I.F. 0,429</b>	DA		
10.	A Maidaniuc, M. Miculescu, S.I. Voicu, L.T. Ciocan, M. Niculescu, M.C. Corobea, M.E. Rada, <b>F. Miculescu</b> , 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. <b>Factor de impact aprilie 2019</b> <b>IF=1.073</b>	DA	DA	
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 . <b>Factor de impact aprilie 2019</b> <b>I.F. 0,449</b>	DA		
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 <b>Factor de impact aprilie 2019</b> <b>I.F. 0,470</b>	DA		
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 <b>Factor de impact la data publicării</b> <b>I.F. 1,141</b>	DA	DA	
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 <b>Factor de impact la data publicării</b> <b>IF: 0,563 / 2014</b>	DA		
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, Key Engineering Materials, Volume: 583, Pages: 129-133, 2014, WOS:000336552600022, ISSN: 1013-9826 <b>Factor de impact aprilie 2019</b> <b>IF: 0,244</b>	DA		
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 <b>Factor de impact aprilie 2019</b> <b>IF: 0,563</b>	DA		
17.	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, WOS:000315368200018, ISSN: 1582-2214	DA		

	<b>Factor de impact aprilie 2019</b> <b>IF: 0,134 ;</b>			
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 <b>Factor de impact aprilie 2019</b> <b>IF: 0.461;</b>	DA		
19.	Miculescu, F.; Stan, G. E.; Ciocan, L. T.; <b>Miculescu, M.</b> ; 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 <b>Factor de impact la data publicării</b> <b>IF: 1.092 / 2012;</b>	DA	DA	
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 <b>Factor de impact la data publicării</b> <b>IF: 1.2 / 2011</b>	DA	DA	DA
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 <b>Factor de impact la data publicării</b> <b>IF: 1.2 / 2011;</b>	DA	DA	
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 <b>Factor de impact la data publicării</b> <b>IF: 1.2 / 2011;</b>	DA	DA	
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 <b>Factor de impact la data publicării</b> <b>IF: 1.2/ 2011;</b>	DA	DA	
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 <b>Factor de impact aprilie 2019</b> <b>IF: 0.461;</b>	DA		
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 <b>IF: 0.67;</b>	DA		
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 <b>Factor de impact aprilie 2019</b> <b>IF: 0.390;</b>	DA		
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:	DA	DA	

	1454-4164 <b>Factor de impact la data publicării</b> <b>IF: 1.106 / 2007</b>			
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 <b>Factor de impact la data publicării</b> <b>IF: 1.106 / 2007</b>	DA	DA	DA
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 <b>Factor de impact la data publicării</b> <b>IF: 1.106 / 2007</b>	DA	DA	
TOTAL		Cotat	FI>1	Aurot principal FI >0,5
		<b>29</b>	<b>17</b>	<b>5</b>

<b>Articole ISI Indexate</b>	
Minim	Realizat
0	9

- 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.
- 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
- 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, ISBN
- 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,
- 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
- 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
- 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
- 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
- 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

## 2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte Baze de Date Internationale [BDI], in specificul postului scos la concurs [4]

Articole Indexate BDI	
Minim	Realizat
0	11

1. 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  $(50 \cdot 0.08) / 5 = 0.8$
2. 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  $(50 \cdot 0.08) / 4 = 1$
3. 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  $(50 \cdot 0.08) / 5 = 0.8$
4. 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  $(50 \cdot 0.08) / 8 = 0.5$
5. 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  $(50 \cdot 0.08) / 4 = 1$
6. 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  $(50 \cdot 0.08) / 7 = 0.571$
7. 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  $(50 \cdot 0.08) / 7 = 0.571$
8. 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  $(50 \cdot 0.08) / 5 = 0.8$
9. 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.  
Punctaj  $(50 \cdot 0.08) / 6 = 0.66$
10. 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

11. F. Miculescu, A. Maidaniuc, S.I. Voicu, M. Miculescu, D. Batalu, Strategies for production of naturally-derived calcium phosphates particles, Advanced Materials - TechConnect Briefs 2016, Volume 3, 2016, Pages 31-34, 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: 978-099751172-7, Document Type: Conference Paper, Indexat **SCOPUS**, 2016.

Punctaj (50\*0.08) / 5 =0.8

## 2.3 Brevete de inventie acordate, neindexate/indexate ISI Thomson Reuters-Web of Science-Derwent Innovations Index

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

Punctaj 1,66

## 2.4. Granturi / proiecte de cercetare castigate prin competitie

### 2.4.1. Granturi ca Director sau Responsabil

Minim	Realizat
2, din care cel putin 1 ca director	2, din care 1 ca director si 1 responsabil partener

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)**
2. Contract nr. 130/2004-PNCIDI I - 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)**.

### 2.4.2 Membru în echipă

#### a) Internaționale

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
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
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
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

#### b) Naționale

1. 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

2. 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 ani) 4
3. 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
4. Contract INFOSOC Nr. 18/2001, Centru virtual de selecție a biomaterialelor, Director de contract Prof.Dr.Ing. Târcolea Mihail. (3 ani) 6
5. Contract BIOTECH Nr.82/2001, Modelarea și cuantificarea interacțiilor biomaterialelor și implantelor cu mediul gazda și/sau tesut implantat prin metode avansate, Director de contract Caloianu Maria. (3 ani) 6
6. Contract RELANSIN S9 Nr. 1473/2001, Centru de biomateriale, Responsabil de contract Prof.Dr.Ing Zamfir Simona. (3 ani) 6
7. Contract RELANSIN S13 Nr. 1474/2001, Realizarea protezelor articulare de șold, Director de contract Brânzei Mihai. (3 ani) 6
8. Contract RELANSIN / Nr. 1740/2003, Tehnologii noi pentru fabricarea de etaloane spectrale din oțeluri și aliaje complexe, Responsabil contract Pencea Ion. (2 ani) 4
9. Contract RELANSIN S8 Nr. 1771/2003, Laborator mobil pentru determinarea de la distanță a amprentei termice a tehnicii militare în gama spectrală  $2 \times 5 \mu\text{m}$  și  $8 \times 12 \mu\text{m}$ , Responsabil de contract Conf.Dr.Ing. Pencea Ion. (2 ani) 4
10. 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) 4
11. 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) 4
12. 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
13. Contract RELANSIN Nr. 2146/2004, Gamă de depărtătoare autostatice cu multiple aplicații chirurgicale, Responsabil de contract Antoniac Iulian. (18 luni) 4
14. Contract AGRAL S5, Nr. 267/2004, Realizarea și dezvoltarea unui echipament modern, destinat ambalării produselor alimentare portionate, prin metoda top sealing, Responsabil de contract Antoniac Iulian. (2 ani) 4
15. 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) 6
16. 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) 6
17. 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
18. Contract CEEX Nr. 21/2006, Dinamica și structura fluxului în supraconductori nanostructurați sau cvasi-bidimensionali, FLUXDIN, Responsabil de contract Prf.Dr.Fiz. Bojin Dionezie. (2 ani) 4
19. Contract CEEX Nr. 06-10-82/2006 Cercetari avansate privind dezvoltarea unei structuri de moderare, focalizare și accelerare fascicule de pozitroni monoenergetici în domeniul 0,8- 50 keV, utilizata la determinarile de defecte de tip vacanta sau aglomerari de goluri în materia condensata, TUN POZITRONIC, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (2 ani) 4
20. Contract CEEX Nr. 116/2006, Studii fundamentale privind integrarea osoasa și epitelio-conjunctiva a implantului dentar în scopul creșterii performanțelor pe termen lung, DIOBONE, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (3 ani) 6
21. Contract CEEX RELANSIN Nr. 142/2006, Cercetari privind eco-ingineria produselor de protecție anticorosivă peliculogene, ECOINGPRO, Responsabil de contract Prof.Dr.Fiz. Bojin Dionezie. (2 ani) 4
22. Contract CEEX-VIASAN Nr. 150/2006, Dezvoltarea de noi tehnici Laser pentru proiectarea și fabricarea de biosenzori, BIOSENSOR, Responsabil contract Conf.dr.ing. Ciucă Sorin. (3 ani) 6
23. Contract CEEX-VIASAN Nr. 165/2006, Dezvoltarea de tehnici inovative în chirurgia abdominală bazate pe utilizarea unor structuri biointegrabile și dezvoltarea de noi metode de evaluare a biodegradabilității acestora, MEBIOS, Responsabil S.I.dr.ing. Antoniac Iulian. (2 ani) 4
24. Contract CEEX Nr.166/P1/2006, Cercetari privind preprocesarea materialelor compozite avansate cu matrice metalica MMCs și ceramica CMCs, MAT-COM, Responsabil contract Prof.dr.fiz. Bojin Dionezie. (2 ani) 4
25. Contract CEEX RELANSIN Nr.235/2006, Biofuncționalizarea suprafeței implanturilor pentru osteosinteza, OSTEOSURF, Responsabil de contract S.I.dr.ing. Antoniac Iulian. (2 ani) 4
26. 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) 6
27. Contract CEEX RELANSIN Nr. 297/2006, Cercetari privind mecanismul durificării și stabilitatea la cald a oțelurilor de tip maraging, MEDUR, responsabil Conf.dr.ing. Brânzei Mihai. (2 ani) 4

28. 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) 6
29. 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
30. 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
31. Contract CNMP Nr. 72-223/2008, Cercetări avansate pentru producerea acoperirilor combinatoriale de interes pentru fuziune, CAPACIF, Responsabil de contract: Miculescu Florin (3 ani) 6
32. 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) 6
33. Contract TE Nr. 297/2015. “Integrated technology for custom-made biomimetic implants development used for major bone defects reconstruction“ (2 ani) 6
34. Contract TE Nr. /2015 Director Conf.dr.ing. Stefan Ioan Voicu (2 ani) 4
35. 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) 4

### 3.1.1 Citări in reviste cotate in ISI Thomson Reuters – Web of Science Core Collection [FI – Factor de Impact]

Minim	Realizat
<b>30</b>	<b>172</b>
<i>in ISI Thomson Reuters – Web of Science Core Collection si Scopus [se exclud autocitarile tuturor coautorilor]</i>	<i>in ISI Thomson Reuters – Web of Science Core Collection si Scopus [sunt exclud autocitarile tuturor coautorilor]</i>

#### Lista completa de citari ISI (*sunt exclud autocitarile tuturor coautorilor*)

- I. Miculescu, M., Thakur, V.K., Miculescu, F., Voicu, S.I., Graphene-based polymer nanocomposite membranes: a review, *Polymers for Advanced Technologies*, 27(7), 844-859, DOI:10.1002/pat.3751, 2016, WOS:000378733400001, ISSN: 1042-7147, 2016.**
- Sedki, M., Hefnawy, A., Hassan, R.Y.A., El-Sherbiny, I.M., Core-shell hyperbranched chitosan nanostructure as a novel electrode modifier, *International Journal of Biological Macromolecules*, 93, 543-546, 2016, DOI: 10.1016/j.ijbiomac.2016.09.016, WOS: 000389090900063, ISSN: 0141-8130. 2016, IF = 3,909, Punctaj 20/4 = 5
  - Das, R., Dhar, N., Bandyopadhyay, A., Jana, D., Size dependent magnetic and optical properties in diamond shaped graphene quantum dots: A DFT study, *Journal of Physics and Chemistry of Solids*, 99, 34-42, DOI: 10.1016/j.jpics.2016.08.004, WOS:000385601100005, ISSN: 0022-3697. 2016. IF = 2,207, Punctaj 20/4 = 5
  - Ding, Z., Liu, X., Liu, Y., Zhang, L., Enhancing the compatibility, hydrophilicity and mechanical properties of polysulfone ultrafiltration membranes with lignocellulose nanofibrils, *Polymers*, 8(10), 349, DOI: 10.3390/polym8100349, WOS:000387989400005, ISSN: 2073-4360. 2016. IF = 2.935, Punctaj 20/4 = 5
  - Rahman, M.S., Hamed, W.A., Yahya, R.B., Mahmud, H.N.M.E., Prospects of conducting polymer and graphene as counter electrodes in dye-sensitized solar cells, *Journal of Polymer Research*, 23(9), 192, DOI: 10.1007/s10965-016-1090-6, WOS:000382139000002, ISSN: 1022-9760. 2016. IF = 1,434, Punctaj 15/4 = 3.75
  - Finniss, A; Agarwal, S; Gupta, R, Retarding hydrolytic degradation of polylactic acid: Effect of induced crystallinity and graphene addition, *JOURNAL OF APPLIED POLYMER SCIENCE*, Volume: 133, Issue: 43, DOI: 10.1002/app.44166, WOS: 000382835300027, ISSN: 0021-8995. 2016. IF = 1,901, Punctaj 15/4 = 3.75
  - Liu, D., Wang, T., He, C., Antifouling polyethersulfone membrane blended with a dual-mode amphiphilic copolymer, *Journal of Materials Science*, 51(16), 7383-7394, DOI: 10.1007/s10853-016-9904-9, WOS:000378542300001, ISSN: 0022-2461. 2016. IF = 2,993, Punctaj 20/4 = 5
  - El-Sherbiny, I.M., Salih, E., Yassin, A.M., Hafez, E.E., Newly developed chitosan-silver hybrid nanoparticles: biosafety and apoptosis induction in HepG2 cells, *Journal of Nanoparticle Research*, 18(7), 172, DOI: 10.1007/s11051-016-3477-z, WOS:000379188500001, ISSN: 1388-0764. 2016. IF = 2,127, Punctaj 20/4 = 5
  - Wang, YS; Wang, Y; Xia, H; Wang, G; Zhang, ZY; Han, DD; Lv, C; Feng, J; Sun, HB, Preparation of a Fe<sub>3</sub>O<sub>4</sub>-Au-GO nanocomposite for simultaneous treatment of oil/water separation and dye decomposition, *NANOSCALE*, Volume: 8, Issue: 40, Pages: 17451-17457, DOI: 10.1039/c6nr05633d, WOS: 000386244400009, ISSN: 2040-3364, 2016. IF = 7,233, Punctaj 30/4 = 7.5

9. Dutta, D; Bontempi, E; You, Y; Sinha, S; Das, J; Hazra, SK; Sarkar, CK; Basu, S; Surface topography and hydrogen sensor response of APCVD grown multilayer graphene thin films, *JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS*, Volume: 28, Issue: 1, Pages: 157-166, DOI: 10.1007/s10854-016-5506-1, WOS:000392308700020, ISSN: 0957-4522. 2017. IF = 2,324, Punctaj 20/4 = 5
10. Mosafar, AA; Toosi, MR; Asghari, M; Effect study of hexagonal mesoporous silica/polyaniline nanocomposite on the structural properties of polysulfone membranes and its heavy metal removal efficiency, *SEPARATION SCIENCE AND TECHNOLOGY*, Volume: 52, Issue: 10, Pages: 1775-1786, DOI: 10.1080/01496395.2017.1297455, WOS: 000403942000014, ISSN: 0149-6395. 2017. IF = 1,2, Punctaj 15/4 = 3.75
11. Venditti, I; Fontana, L; Scaramuzza, FA; Russo, MV; Battocchio, C; Carlini, L; Gonon, L; Mareau, VH; Fratoddi, I; Nanocomposite Based on Functionalized Gold Nanoparticles and Sulfonated Poly(ether ether ketone) Membranes: Synthesis and Characterization, *MATERIALS*, Volume: 10, Issue: 3, DOI: 10.3390/ma10030258, WOS:000400863500041, ISSN: 1996-1944. 2017. IF = 2,467, Punctaj 20/4 = 5
12. Krasnova, AO; Glebova, NV; Zhilina, DV; Nechitailov, AA, Structuring in the formation technology of electrode material based on nafion proton-conducting polymer and thermally expanded graphite containing platinum nanoparticles on carbon black, *RUSSIAN JOURNAL OF APPLIED CHEMISTRY*, Volume: 90, Issue: 3, Pages: 361-368, DOI: 10.1134/S1070427217030065, WOS: 000404711000006, ISSN: 1070-4272. 2017. IF = 0,494, Punctaj 5/4 = 1.25
13. Nia, AS; Binder, WH, Graphene as initiator/catalyst in polymerization chemistry, *PROGRESS IN POLYMER SCIENCE*, Volume: 67, Pages: 48-76, DOI: 10.1016/j.progpolymsci.2016.12.005, WOS: 000398221500002, ISSN: 0079-6700. 2017. IF = 24.558, Punctaj 30/4 = 7.5
14. Nayak, V; Jyothi, MS; Balakrishna, RG; Padaki, M; Deon, S, Novel modified poly vinyl chloride blend membranes for removal of heavy metals from mixed ion feed sample, *JOURNAL OF HAZARDOUS MATERIALS*, Volume: 331, Pages: 289-299, DOI: 10.1016/j.jhazmat.2017.02.046, WOS: 000398879800033, ISSN: 0304-3894. 2017. IF = 6,434, Punctaj 30/4 = 7.5
15. Alian, AR; Dewapriya, MAN; Meguid, SA, Molecular dynamics study of the reinforcement effect of graphene in multilayered polymer nanocomposites, *MATERIALS & DESIGN*, Volume: 124, Pages: 47-57, DOI: 10.1016/j.matdes.2017.03.052, WOS:000402343800005, ISSN: 0264-1275. 2017. IF = 4,525, Punctaj 20/4 = 5
16. Ying, YL; Ying, W; Li, QC; Meng, DH; Ren, GH; Yan, RX; Peng, XS, Recent advances of nanomaterial-based membrane for water purification, *APPLIED MATERIALS TODAY*, Volume: 7, Pages: 144-158, DOI: 10.1016/j.apmt.2017.02.010, WOS: 000405594100015, ISSN: 2352-9407. 2017. IF = x, Punctaj 20/4 = 5
17. Otero, TF; Beaumont, S; The cooperative actuation of multistep electrochemical molecular machines in polypyrrole films senses the imposed energetic conditions: Influence of the potential scan rate, *ELECTROCHIMICA ACTA*, Volume: 258, Pages: 1293-1303, DOI: 10.1016/j.electacta.2017.11.186, 2017, WOS:000418324800142, ISSN: 0013-4686, eISSN: 1873-3859. IF = 5.112, Punctaj 30/4 = 7.5
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1. S.I. Voicu, A.C. Nechifor, O. Gales, G. Nechifor, Covalent Enzyme Immobilization onto Carbon Nanotubes Using a Membrane Reactor, Bioelectronics, Biomedical, and Bioinspired Systems V and Nanotechnology V, Book Series: Proceeding of SPIE, Art.No. 80680y, Doi: 10.1117/12.888780, WOS:000292762700033, IDS Number: BVU26, ISSN: 0277-786X, ISBN: 978-0-81948-657-8 2011. Punctaj 3/6=0,5
- XII. F. Miculescu, A. Maidaniuc, M. Miculescu, N.D. Batalu, R.C. Ciocoiu, S.I. Voicu, G.E. Stan, V.K. Thakur, Synthesis and Characterization of Jellified Composites from Bovine Bone-Derived Hydroxyapatite and Starch as Precursors for Robocasting, ACS Omega, Volume: 3, Pages: 1338–1349, 2018, DOI: 10.1021/acsomega.7b01855, WOS:000427933200143, ISSN: 2470-1343**
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Total punctaj = 23

### **3.3 Membru in colectivele de redactie sau comitete stiintifice ale revistelor si manifestarilor stiintifice, organizator de manifestari stiintifice / Recenzor pentru reviste si manifestari stiintifice nationale si internationale**

#### **3.3.1 ISI**

Editor – Materials, Special Issue Advanced Composite Biomaterials 12

Recenzor:

1. Journal of Nanomaterials 5
2. Coatings (cotat ISI) 5
3. Materials (cotat ISI) 5
4. Vacuum (cotat ISI) 5
5. Materialia (cotat ISI) 5
6. Buletinul UPB seria B 5

Punctaj – 42p

#### **3.3.1 BDI**

Recenzor reviste:

1. Key Engineering Materials 3
2. Advanced Materials Research (cotat ISI) 3

Recenzor conferinte:

1. BiomMedD2014 -3
2. RoMat2014 - 3
3. BioRemed2015 - 3
4. BiomMedD2016 - 3
5. RoMat2016 - 3

6. BiomMedD2018 - 3  
Punctaj – 24p

### 3.4 Expert evaluare proiecte de cercetare

#### 3.4.1 Nationale

62 de proiecte

### 3.5. Premii (nu se considera premiarea articolelor de catre UEFISCDI )

#### 3.5.3. Premii internaționale

1. Locul II la Conferința Internațională Journées Scientifiques du CFBD, 2003, Neuchâtel, l’Espace Perrier de Marin-Epanier, Suisse, D.Bunea, D.Bojin, S.Zamfir, F.Miculescu, M.Miculescu, Experimental research concerning the Co-Cr-Mo alloys used in implantology. Puncte = 10
2. Grand Prize and Cup in recognition of high scientific contribution and loyalty to the XXI<sup>th</sup> International Salon of Research, Innovation and Technological Transfer “INVENTICA 2017”, 28-30 Iunie, Iași, Romania. Puncte = 10
3. Gold Medal “INVENTICA 2017” for the invention “Mechano – electrical drier” at the XXI th International Salon of Research, Innovation and Technological Transfer “INVENTICA 2017”, 28-30 Iunie, Iași, Romania. Puncte = 10
4. Gold Medal “INVENTICA 2017” for the invention “Method for obtaining hydroxyapatite scaffolds with predetermined physico-chemical characteristics for major bone reconstruction” at the XXI th International Salon of Research, Innovation and Technological Transfer “Inventica 2017”, 28-30 Iunie, Iași, Romania. Puncte = 10
5. Medalia de aur și Diploma de Excelență pentru invenția “Mechano – electrical drier” la Salonul Internațional al Cercetării, Inovării și Inventicii “Pro Invent” ediția a XV-a, 2017, Cluj-Napoca, Romania. Puncte = 10
6. Medalia de aur pentru invenția “Procedeu de obținere a unui produs tip scaffold pe bază de hidroxiapatită, pentru reconstrucția defectelor osoase majore, cu proprietăți fizico-chimice predeterminate” la Salonul Internațional de Invenții și Inovații “Traian Vuia” Ediția a III-a, 7-9 Iunie 2017, Timișoara, Romania. Puncte = 10
7. Medalia de aur pentru invenția “Uscător de rufe mecano - electric” la Salonul Internațional de Invenții și Inovații “Traian Vuia”, Ediția a III-a, 7-9 Iunie 2017, Timișoara, Romania. Puncte = 10
8. Excellence Diploma and Special Prize (Trophy) pentru invenții valoroase (RO001/2017) la Salonul Internațional de Invenții și Inovații “Traian Vuia”, Ediția a III-a, 7-9 Iunie 2017, Timișoara, Romania. Puncte = 10
9. Prize of Romanian Inventors Forum at European Exhibition of Creativity and Innovation “EUROINVENT 2017”, 25-27 May 2017, Iași, Romania. Puncte = 10
10. Gold Medal for the invention “Method for obtaining hydroxyapatite scaffolds with predetermined physico-chemical characteristics for major bone reconstruction” at European Exhibition of Creativity and Innovation “EUROINVENT 2017”, 25-27 May 2017, Iași, Romania. Puncte = 10
11. Gold Medal for the invention “Mechano – electrical drier” at European Exhibition of Creativity and Innovation “EUROINVENT 2017”, 25-27 May 2017, Iași, Romania. Puncte = 10
12. Diploma de Excelență a Universității Tehnice a Moldovei pentru invenția “Mechano – electrical drier” Puncte = 10
13. Diploma de excelență și medalia de aur la International Fair of Inventions and Practical Ideas Invent – Invest 2017, Ungheni, Republica Moldova, 12-15 November 2017 pentru cererea de brevet “Method for Obtaining Hydroxyapatite Scaffolds with Predetermined Physico - Chemical Characteristics for Major Bone Reconstruction”. Puncte = 10
14. Medalia de aur și Mențiune pentru cererea de brevet “Method for Obtaining Hydroxyapatite Scaffolds with Predetermined Physico-Chemical Characteristics for Major Bone Reconstruction”, prezentată la International Warsaw Invention Show IWIS 2017, Polonia. Puncte = 10

Punctaj = 140p

#### 3.5.4. Premii naționale

1. Premiul SRB 2005 - secțiunea Postere - F. Miculescu, I. Antoniac, M. Miculescu, L.T. Ciocan, Influence of the implant surface preparation on the bone ingrowth, Al V-lea Simpozion Național de Biomateriale, Iași, România. Puncte = 5, Punctaj = 5p

#### Rezumat

3. Condiții minimale			
Nr.crt.	Categoria		
	Domeniul de activitate	Condiții profesor	
		Minim	Realizat
1	Activitatea didactică / profesională (A1)	60	71
2	Activitatea de cercetare (A2)	320	579
3	Recunoașterea impactului activității (A3)	120	998
TOTAL		500 puncte	1648 puncte

Autor:

Conf.dr.ing. Marian MICULESCU

Data:

15.04.2019