FIŞĂ DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE PENTRU ABILITARE

Funcție, Nume, Prenume: Conferențiar BATALU Nicolae Dan
Instituția, Facultatea, Departamentul: Universitatea *Politehnica* din București, Facultatea *Știința și Ingineria Materialelor*, Departamentul *Știința Materialelor Metalice, Metalurgie Fizică*

<table>
<tr><th>Condiții</th><th colspan="4">Îndeplinire condiții</th></tr>
<tr><td>A. Doctor</td><td colspan="4">Diploma de Doctor în domeniul Știința și Ingineria Materialelor, Seria D, Nr. 0002622, din 06.05.2005, emisă de Universitatea POLITEHNICA din București, în baza OMEC nr. 3956, din 25.04.2005.</td></tr>
<tr><td colspan="3">B. Îndeplinirea standardelor minime naționale conform OMECTS nr. 6129 / 20.12.2016</td><td colspan="2">Standarde îndeplinite, conform Comisiei CNATDCU Nr.7, Ingineria Materialelor; Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului</td></tr>
<tr><th colspan="3">Condiții minimale [Punctaj]</th><th>Minim prevăzut</th><th>Realizat</th></tr>
<tr><td colspan="3">A1. Activitatea didactică și profesională</td><td>60</td><td>132</td></tr>
<tr><td colspan="3">A2. Activitatea de cercetare</td><td>320</td><td>1514</td></tr>
<tr><td colspan="3">A3. Recunoașterea și impactul activității</td><td>120</td><td>1152</td></tr>
<tr><td colspan="3">TOTAL (A)</td><td>500</td><td>2798</td></tr>
<tr><th colspan="3">Condiții minimale obligatorii pe subcategorii</th><th>Minim prevăzut</th><th>Realizat</th></tr>
<tr><td colspan="3">A.1.1.1. Cărți și capitole în cărți de specialitate ca autor (minim 2 din care 1 ca prim autor)</td><td>2 (1)</td><td>2 (2)</td></tr>
<tr><td colspan="3">A.1.2.1. Manuale didactice (minim 2 din care 1 ca prim autor)</td><td>2 (1)</td><td>3 (1)</td></tr>
<tr><td colspan="3">A.1.2.2. Îndrumare de laborator / aplicații</td><td>-</td><td>1</td></tr>
<tr><td colspan="3">A. 2.1. Articole în reviste cotate și în proceedings indexate WoS Clarivate Analytics</td><td>15</td><td>43</td></tr>
<tr><td rowspan="3">Din care</td><td colspan="2">A. 2.1.2. Articole în reviste cotate WoS Clarivate Analytics</td><td>10</td><td>40</td></tr>
<tr><td colspan="2">A. 2.1.2. Articole în reviste cotate WoS Clarivate Analytics factor de impact FI de minim 1</td><td>5</td><td>34</td></tr>
<tr><td colspan="2">A. 2.1.2. Articole în reviste cotate WoS Clarivate Analytics ca autor principal de minim 0,5</td><td>5</td><td>10</td></tr>
<tr><td colspan="3">A. 2.2. Articole în reviste și în volume ale unor manifestări științifice indexate în alte baze de date internaționale</td><td>-</td><td>13</td></tr>
<tr><td colspan="3">A. 2.4. Granturi câștigate prin competiție</td><td>-</td><td>18</td></tr>
<tr><td colspan="3" rowspan="2">A. 2.4.1 Granturi câștigate prin competiție ca director sau responsabil (minim 2 din care minim 1 ca director)</td><td>Director</td><td>2</td></tr>
<tr><td>Responsabil</td><td>4</td></tr>
<tr><td colspan="3">A. 3.1. Citări în reviste cotate WoS Clarivate Analytics (fără autocitările tuturor coautorilor)</td><td>Minim 30</td><td>300</td></tr>
<tr><td rowspan="2">C. Atestarea studiilor și a altor realizări profesionale</td><td colspan="4">Diploma de Licență, în domeniul Metalurgie, Seria M, Nr. 047088, din 28.08.1995, emisă de Universitatea POLITEHNICA din București.
Foaia matricolă Seria N, Nr. 265, din 21.02.1996, eliberată de Universitatea POLITEHNICA din București.</td></tr>
<tr><td colspan="4">Alte diplome:
Diplomă de Studii Aprofundate, în profilul Metalurgie, Specializarea Modelarea și procesarea prelucrărilor termomecanice, Seria B, Nr. 0002251, din 18.10.1996, emisă de Universitatea POLITEHNICA din București.
Diplomă de Doctor în domeniul Știința și Ingineria Materialelor, Seria D, Nr. 0002622, emisă în 06. 05.2005, cu Nr. 122, de către Universitatea POLITEHNICA din București, în baza Ordinului Ministrului Educației și Cercetării nr. 3956 din 25.04.2005.
Diploma de studii post-doctorale în domeniul Știința și Ingineria Materialelor, emisă de Universitatea POLITEHNICA din București.
Alte certificate:
Certificat de absolvire a cursului de pedagogie, Seria B, Nr. 004253, din 6.12.1995, emis de Universitatea Politehnica din București.
Certificat de cercetător senior cu bursă bilaterală România-China (20022004), Seria GJ, Nr. 2004002, din 6.07.2004, emis de Universitatea Tongji din Shanghai.
Certificat de atestare a competențelor profesionale, în domeniul Științe ale educației, Seria B, Nr. 0005664, din 22.11.2013, emis de Universitatea POLITEHNICA din București.
Certificate de participare la cursul de inițiere în Inventor, emis de Universitatea POLITEHNICA din București (2011, 2013, 2014).
Certificat de recunoaștere a excelenței profesionale ”Inventor 2011 Certified Associate”, Nr. 00195215, din 14.12.2011, emis de Autodesk Inc.
Certificat de recunoaștere a excelenței profesionale ”Inventor 2011 Certified Professional”, Nr. 00192940, din 14.12.2011, emis de Autodesk Inc.
Alte acte de atestare a studiilor/realizărilor profesionale:
Atestate de absolvire a cursurilor de specializare și perfecționare
Premii naționale și internaționale</td></tr>
</table>

Subsemnatul, Batalu Nicolae Dan, conferențiar la Universitatea Politehnica din București, activând în Domeniul de Studii Universitare Ingineria Materialelor, arondat Comisiei de Specialitate CNATDCU [OMECTS 6573/2012] Nr.7, Ingineria Materialelor, declar pe propria răspundere, cunoscând prevederile art. 292 privind falsul în declaraţii, din Legea 286/2009 - Codul Penal, că sunt îndeplinite toate Standardele minimale pentru abilitare, și susțin veridicitatea informațiilor prezentate în dosarul de concurs și în materialul de mai sus. Lucrările considerate a fi incluse in Baza WoS Clarivate Analytics sau în alte Baze de Date Internaționale [BDI] sunt vizibile în aceste baze, în dreptul numelui meu, la această dată.

Data: 30.09.2022

Numele: Batalu Nicolae Dan
Semnătura:

Domeniul Fundamental: **ȘTIINȚE INGINEREȘTI**
Domeniul de Studii Universitare: **INGINERIA MATERIALELOR**
Comisia CNATDCU: **7. INGINERIA MATERIALELOR**

Fișa de calcul și de susținere a îndeplinirii standardelor minimale specifice domeniului, în acord cu realizările menționate

(OMECTS nr. 6129/20.12.2016)

1. Activitatea didactică și profesională (A1)

Tipul activităților	Categorii și restricții	Subcategorii	Publicații	Indicatori	Punctaj
1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute **Cerința minimală:** **2** cărți/capitole naționale, **1** ca prim autor **Realizat: 2 (2)**	1.1.1. Cărți/capitole ca autor	1.1.1.1. Internaționale	1. **Capitol de carte:** F. Miculescu, A. Maidaniuc, G.E. Stan, M. Miculescu, S.I. Voicu, A. Cîmpean, V. Mitran, **Dan Batalu (8)**, **Cap. 7.** *Tuning hydroxyapatite particles' characteristics for solid freeform fabrication of bone scaffolds*, publicat în A. Tiwari, M.R. Alenezi, S.C. Jun (Eds.), Advanced composite materials, Scrivener Publishing & Wiley, New Jersey, 2016, p. 321-397 (77 p.), ISBN 978-1-119-24253-6.	nr. pagini/ (2·nr. autori)	4.8
			2. **Capitol de carte:** P. Badica, G. Aldica, A.M. Ionescu, M. Burdusel, **D. Batalu (5)**, **Cap. 4.** *The influence of different additives on MgB_2 superconductor obtained by ex-situ Spark Plasma Sintering: pinning force aspects, 75-116 (42 p)*, publicat în: Nishikawa H, Iwata N, Endo T, Takamura Y, Lee G-H, Mele P (Eds.). Correlated Functional Oxides. Nanocomposites and Heterostructures, Springer, 2016, 232 p.		4.2
			3. **Capitol de carte:** Amélie Tribot, **Dan Batalu**, Clément Brasselet, Cédric Delattre, Lu Wei, Jonathan Lao, Petre Badica, Philippe Michaud, Hélène de Baynast **(9)**. **Cap. 20.** *Green polymer filaments for 3D printing, 463-516 (54 p)*, publicat în Tariq Altalhi, Inamuddin (Ed.). Green sustainable process for chemical and environmental engineering and science, Elsevier, 2022, 570 p, ISBN: 978-0-323-99643-3.		3
		1.1.1.2. Naționale **(minim 2, 1 prim autor)**	1. **Dan Batalu**. *Proiectare avansată 3D cu Inventor Professional*. Politehnica Press, 2021, 195 p, ISBN: 978-606-515-985-3.	nr. pagini/ (5·nr. autori)	39
			2. **Dan Batalu**. *Analiza cu element finit în Inventor Nastran*. Politehnica Press, 2022, 177 p, ISBN: 978-606-515-996-9.		35.4
1.2. Suport didactic **Cerința minimală: 2** manuale didactice/monografii (inclusiv electronic), **1** ca prim autor **Realizat: 3** manuale didactice, din care **1** ca prim autor	1.2.1. Manuale didactice, monografii, inclusiv electronice **(minim 2, 1 ca prim autor)**		1. N. Popescu, **Dan Batalu**. *Introducere în știința materialelor. Elemente de teoria științei materialelor (I)*, Politehnica Press, 2009, 127 p, ISBN: 978-606-515-066-9.	nr. pagini/ (10·nr autori)	6.35
			2. N. Popescu, **Dan Batalu**. *Introducere în știința materialelor. Materiale ceramice, carbonice, polimerice și compozite (II)*, Politehnica Press, 2011, 149 p, ISBN: 978-606-515-271-7.		7.45
			3. **Dan Batalu**. *Proiectare asistată de calculator cu AutoCAD. Aplicații în proiectarea implanturilor medicale*, Politehnica Press, 2014, 259 p, ISBN: 978-606-515-561-9.		25.9
	1.2.2. Îndrumătoare de laborator/ aplicații		1. **Dan Batalu**. *Ghid de proiectare a implanturilor medicale*, Politehnica Press, 2015, 119 p, ISBN: 978-606515-601-2.	nr. pagini/ (20·nr autori)	5.95
				Total A1	**132.05**

2. Activitatea de cercetare (A2)

Tipul activităţilor	Categorii şi restricţii	Subcategorii	Publicaţii	Indicatori	Punctaj
2.1. Articole în reviste cotate ISI Thomson Reuters - Web of Science Core Collection și în volume indexate ISI proceedings - Web of Science, în specificul postului scos la concurs **Cerinţe minimale:** **1.** Minim 10 articole **2.** Din care minim 5 în reviste cotate ISI Th.R. **3.** Din care min. 3 cu FI>1 **4.** Minim 2 ca autor principal cu FI>0,5 . **Realizat:** **1. 44** articole indexate ISI-WOS Core Collection **2. 35** în reviste cotate ISI Th.R. **3. 28** cu FI>1 la acest moment sau la data publicării **4.** Din care **10** ca autor principal, cu FI>0,5.	**Pentru conferenţiar:** **1. Minim 10** articole ✔ **2. Minim 5** în Reviste cotate ISI Th.R. ✔ **3. Minim 3 cu FI>1** ✔ **4. Minim 2** ca autor principal, cu FI>0,5 ✔		**1. D. Batalu**, H. Guoqiu, A. Aloman, L. Xioashan, Z. Zhihua **(5)**. *Determination of some mechanical properties of TiNi (50.6 at. % Ni) shape memory alloy using dynamic mechanical analysis and tensile tests.* Journal of Optoelectronics and Advanced Materials. Vol. 8, nr. 2, 2006, p. 694 – 698: WOS:000237001000062 (FI 2021 = 0.5, Q4).	(50·FI) / nr. autori pentru articole în volume FI=0,1	5
			2. C. NASTASE, A. DUMITRU, F. NASTASE, A. MOROZAN, S. VULPE, **D. Batalu** **(6)**. *Comparative study of deep-coating and plasma processing PMMA thin films.* Journal of Optoelectronics and Advanced Materials. Vol. 12, nr. 4, 2010, p. 944 – 947: WOS:000278330500032 (FI 2021 = 0.5, Q4).		4.16
			3. D. Batalu, D. Bojin, B. Ghiban, G. Aldica, P. Badica **(5)**. *Corrosion behavior of pristine and added MgB_2 in Phosphate Buffered Saline Solution*. 2012, IOP Conf. Ser.: Mater. Sci. Eng., vol. 40, #012032: p. 1-6, ISSN 1757-899X: WOS:000312413700032 (FI=0).		1
			4. G. Aldica, **D. Batalu**, S. Popa, I. Ivan, P. Nita, Y. Sakka, O. Vasylkiv, L. Miu, I. Pasuk, P. Badica **(10)**. *Spark plasma sintering of MgB_2 in the two-temperature route.* Physica C, vol. 477, 2012, p. 43-50: WOS:000303113200008 (FI 2021 = 1.534, Q4).		7.67
			5. A.C. Nechifor, V. Panait, L. Naftanaila, **D. Batalu**, S.I. Voicu **(5)**. *Symmetrically polysulfone membranes obtained by solvent evaporation using carbon nanotubes as additives. Synthesis, characterization and applications.* Digest journal of nanomaterials and biostructures, vol. 8, no. 2, 2013, p. 875-884: WOS:000322737500042 (FI 2021 = 0.899, Q4).		8.99
			6. D. Batalu, G. Aldica, S. Popa, L. Miu, M. Enculescu, R.F. Negrea, I. Pasuk, P. Badica **(8)**. *High magnetic field enhancement of the critical current density by Ge, GeO_2 and $Ge_2C_6H_{10}O_7$ additions to MgB_2.* Scripta Materialia, vol. 82, 2014, p. 61-64: WOS:000336702500016 (FI 2021 = 6.291, Q1).		39.31
			7. G. Aldica, S. Popa, M. Enculescu, **D. Batalu**, L. Miu, M. Ferbinteanu, P. Badica **(7)**. *Addition of Ho_2O_3 of different types to MgB_2 in the ex-situ Spark Plasma Sintering: Simultaneous control of the critical current density at low and high magnetic fields*. Materials Chemistry and Physics, vol. 146, no. 3, 2014, p. 313-323: WOS:000336694300017 (FI 2021 = 4.778, Q2).		34.12
			8. D. Batalu, A.M. Stanciuc, L. Moldovan, G. Aldica, P. Badica **(5)**. *Evaluation of pristine and Eu_2O_3-added MgB_2 ceramics for medical applications: hardness, corrosion resistance, cytotoxicity and antibacterial activity*. Materials Science and Engineering: C, vol. 42, 2014, p. 350-361: WOS:000340687400045 (FI 2021 = 8.457, Q1).		84.57
			9. Batalu D., Aldica G., Badica P. (**3**) *Composites of MgB_2 - rare-earth-oxides: fabrication by spark plasma sintering and functional properties*. 20th INTERNATIONAL CONFERENCE ON COMPOSITE MATERIALS, 2015, WOS:000614628003094 (FI=0).		1.66
			10. D. Batalu, G. Aldica, M. Burdusel, S. Popa, M. Enculescu, I. Pasuk, D. Miu, P. Badica **(8)**. *Ge-Added MgB_2 Superconductor Obtained by Ex Situ Spark Plasma Sintering.* Journal of Superconductivity and Novel Magnetism, vol. 28, nr. 2, 2015, p. 531-534: WOS:000349350100048 (FI 2021 = 1.675, Q4).		10.46
			11. D. Batalu, G. Aldica, S. Popa, A. Kuncser, V. Mihalache, P. Badica **(6)**. *GeO_2-added MgB_2 superconductor obtained by Spark Plasma Sintering.* Solid State Sciences, vol. 48, 2015, p. 23–30: WOS:000363347800006 (FI 2021 = 3.752, Q2).		31.26

			12. **D. Batalu**, G. Aldica, P. Badica **(3)**. $Ge_2C_6H_{10}O_7$-added MgB_2 *Superconductor Obtained by Ex-Situ Spark Plasma Sintering*. IEEE Transactions on Applied Superconductivity, vol. 26, no. 3, 2016, #7100104: p. 1-4: WOS:000372783600001 (FI 2021 = 1.949, Q3).		32.48
			13. **D. Batalu**, A. Paun, M. Ferbinteanu, G. Aldica, A.M. Vlaicu, V.S. Teodorescu, P. Badica (**7**). *Thermal analysis of repa-germanium (Ge-132)*. Thermochimica Acta, vol. 644, 2016, p. 20-27: WOS:000389116100004 (FI 2021 = 3.378, Q2).		24.12
			14. Burdușel M, Ionescu AM, Grigoroșcuță M, **Batalu D**, Enculescu M, Popa S, Mihalache V, Aldica G, Badica P **(9)**. Powder-in-tube tapes of MgB_2 in Fe-sheath processed by ex-situ spark plasma sintering. UPB Scientific Bulletin Series BChemistry and Materials Science, vol. 79, nr. 2, p. 155-172, 2017: WOS:000405523600015 (FI=0).		0.55
			15. G. Aldica, C. Matei, A. Paun, **D. Batalu**, M. Ferbinteanu, P. Badica **(6)**. *Thermal analysis on $Ge_2C_6H_{10}O_7$-doped MgB_2*. Journal of Thermal Analysis and Calorimetry, vol. 127, issue 1, 2017, pp. 173-179: WOS:000392337000019 (FI 2021 = 4.755, Q1).		39.62
			16. Monica Ilis, **Dan Batalu**, Iuliana Pasuk, Viorel Circu **(4)**. *Cyclometalated Palladium (II) metallomesogens with Schiff bases and N-benzoyl thiourea derivatives as co-ligands*. Journal of Molecular Liquids, vol. 233, issue 1, 2017, pp. 45-51: WOS:000401202500007 (FI 2021 = 6.633, Q1).		82.91
			17. Miculescu F., Mocanu A.C., Dascalu C.A., Maidaniuc A., **Batalu D.**, Berbecaru A., Voicu S.J., Miculescu M., Thakur V.K., Ciocan L.T. **(10)**. *Facile synthesis and characterization of hydroxyapatite particles for high value nanocomposites and biomaterials*. VACUUM, vol. 146, 2017, pp. 614-622: WOS:000416184600080 (FI 2021 = 4.11, Q2).		20.55
			18. Solodky I, Bogomol I, Loboda P, **Batalu D**, Vlaicu AM, Badica P **(6)**. *Floating zone partial re-melting of B_4C infiltrated with molten Si*. Ceramics International, vol. 43, nr. 17, 2017, p. 14718-14725: WOS:000413175300022 (FI 2021 = 5.532, Q1).		46.1
			19. Miculescu F, Maidaniuc A, Miculescu M, **Batalu ND**, Ciocoiu RC, Voicu SI, Stan GE, Thakur VK (**8**). *Synthesis and Characterization of Jellified Composites from Bovine Bone-Derived Hydroxyapatite and Starch as Precursors for Robocasting*. ACS OMEGA, 2018, vol. 3, nr. 1, p. 1338-1349: WOS:000427933200143 (FI 2021 = 4.132, Q2).		25.82
			20. **Dan Batalu**, T. Nakamura, M. Enculescu, S. Popa, I. Pasuk, G. Aldica, Alina M. Ionescu, P. Badica (**8**). *A Comparative Study of Ge-Based Organometallic Additions to MgB_2*. IEEE Transactions on Applied Superconductivity, vol. 28, nr. 4, 2018, #7100104, p. 1-4 (FI 2021 = 1.949, Q3).		12.18
			21. P. Badica, **D. Batalu**, M. Burdusel, M.A. Grigoroscuta, G.V. Aldica, M. Enculescu, R.A. Gabor, Z.Y. Wang, R.X. Huang, P.F. Li (**10**). *Compressive properties of pristine and SiC-Te-added MgB_2 powders, green compacts and spark-plasma-sintered bulks*, CERAMICS INTERNATIONAL, 2018, vol. 44, nr. 9, p. 10181-10191: WOS:000431470200021 (FI 2021 =5.532, Q1).		27.66
			22. **BATALU D**. et al (**5**). *NiTi coated with oxide and polymer films in the in vivo healing processes*, JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol. 8, nr. 1, p. 914-922, 2019: WOS: 000467081300099 (FI 2021 = 6.267, Q1).		62.67

			23. Gozzelino L, Gerbaldo R, Ghigo G, Laviano F, Torsello D, Bonino V, Trucatto M, **Batalu D**, Grigoroscuta MA, Burdusel M, Aldica GV, Badica P (**12**). *Passive magnetic shielding by machinable MgB2 bulks: measurements and numerical simulations.* SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol. 32, nr. 3, #034004, 2019: WOS: 000458129500002 (FI 2021 = 3.482, Q2).		14.5
			24. LI X., […], **BATALU D.** (**5**) *Microstructure and Magnetic Properties of Mn55Bi45 Powders Obtained by Different Ball Milling Processes*, METALS, vol. 9, nr. 4, #441, 2019: WOS: 000467637000058 (FI 2021 = 2.695, Q2).		26.95
			25. Xiang Z, Wang X, Song YM, Yu LZ, Cui EB, Den BW, Batalu D, Lu W (**8**). *Effect of cooling rates on the microstructure and magnetic properties of MnAl permanent magnetic alloys.* JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol. 475, p. 479-483, 2019: WOS: 000458152000069 (FI 2021 = 3.097, Q2).		19.35
			26. YOKOYAMA K, OKA T, BERGER K, DORGET R, KOBLISCHKA M, GRIGOROSCUTA MA, BURDUSEL M, **BATALU ND**, ALDICA GV, BADICA P, SAKAI N, MURALIDHAR M, MURAKAMI M (**13**). *Investigation of flux jumps during pulsed field magnetization in graphene-added MgB_2 bulks*, JOURNAL OF PHYSICS CONFERENCE SERIES, vol. 1559, #012080, 2020: WOS: 000558737600080 (FI = 0)		0.38
			27. FRONE Adriana Nicoleta, **BATALU DAN**, CHIULAN IOANA, OPREA Madalina, GABOR Raluca Augusta, NICOLAE Cristian Andi, RADITOIU Valentin, TRUSCA Roxana-Doina, PANAITESCU Denis Mihaela (**9**). *Morpho-Structural, Thermal and Mechanical Properties of PLA/PHB/Cellulose Biodegradable Nanocomposites Obtained by Compression Molding, Extrusion, and 3D Printing*, NANOMATERIALS, vol. 10, nr. 1, #51, 2020: WOS: 000516825600051 (FI 2021: 5.719, Q1).		31.77
			28. **BATALU ND**, ALDICA GV, BURDUSEL M, GRIGOROSCUTA MA, PASUK I, KUNCSER A, IONESCU AM, P. BADICA (**8**). *Enhanced critical current density at high magnetic fields in MgB_2 with Ga/In acetylacetonate processed by spark plasma sintering*, JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY – JMR&T, vol. 9, nr. 3, p. 3724-3733, WOS: 000557894400004 (FI 2021: 6.267, Q1)		39.16
			29. BADICA P, ALDICA GV, GRIGOROSCUTA MA, BURDUSEL M, PASUK I, **BATALU ND**, BERGER K, KOBLISCHKA VA, KOBLISCHKA MR (**9**). *Reproducibility of small $Ge_2C_6H_{10}O_7$-added MgB_2 bulks fabricated by ex situ Spark Plasma Sintering used in compound bulk magnets with a trapped magnetic field above 5 T*, SCIENTIFIC REPORTS, vol. 10, nr. 1, #10538, 2020: WOS: 000548359400011 (FI 2021: 4.996, Q2).		27.75
			30. MIU L, IONESCU AM, MIU D, BURDUȘEL M, BADICA Petre, **BATALU ND**, CRIȘAN A. (**7**) *Second magnetization peak, rhombic-to-square Bragg vortex glass transition, and intersecting magnetic hysteresis curves in overdoped BaFe2(As1-xPx)(2) single crystals*, SCIENTIFIC REPORTS, vol. 10, nr. 1, #17274, 2020: WOS: 000582679600008 (FI 2021: 4.996, Q2).		35.68
			31. XIANG Zhen, HUANG C, SONG YM, DENG BW, ZHANG X, ZHU XJ, BATALU DAN, TUTUNARU O, LU Wei (**9**). *Rational construction of hierarchical accordion-like Ni@porous carbon nanocomposites derived from metal-organic frameworks with enhanced microwave absorption*, CARBON, vol. 167, pp. 364-377, 2020: WOS: 000565276400002 (FI 2021: 11.307, Q1).		62.81

			32. Wang TL, Lin C, **Batalu D**, Hu JZ, Lu W (5). *Tunable Microstructure and Morphology of the Self-Assembly Hydroxyapatite Coatings on ZK60 Magnesium Alloy Substrates Using Hydrothermal Methods*, Coatings, vol. 11, nr. 1, #8, 2021: WOS:000610006100001 (FI 2021: 3.236, Q2).		32.36
			33. I. Gheorghe, I. Avram, **D. Batalu** et al. (**24**). *In vitro evaluation of MgB_2 powders as novel tools to fight fungal biodeterioration of heritage buildings and objects*. Frontiers in Materials, vol. 7, 2021, #601059: WOS:000615911800001 (FI 2021: 3.985, Q2).		8.3
			34. P. Badica, A. Alexandru-Dinu, M. Grigoroscuta, C. Locovei, A. Kuncser, C. Bartha, G. Aldica, M. Negru, **D. Batalu**, N. Cruceru, I. Savulescu (**11**). *Kaolin clay pottery discovered in the Roman city of Romula (Olt County, Romania)*. Journal of Archaeological Science – Reports, vol. 36, 2021, #102899: WOS:000639285000005 (FI = 0).		0.45
			35. P. Badica, N.D. Batalu, M.C Chifiriuc et al. (**19**). *MgB_2 powders and bioevaluation of their interaction with planktonic microbes, biofilms, and tumor cells*. JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY – JMR&T, vol. 12, p. 2168-2184, 2021: WOS: 000557894400004 (FI 2021: 6.267, Q1).		16.49
			36. P. Badica, **N.D. Batalu**, M. Burdusel et al. (**18**). *Antibacterial composite coatings of MgB2 powders embedded in PVP matrix*. SCIENTIFIC REPORTS, vol. 10, nr. 1, #17274, 2020: WOS:000656453000036 (FI 2021: 4.996, Q2).		13.87
			37. S.K. Padhi, N. Baglieri, **N.D. Batalu** et al. (**14**). *Antimicrobial Activity of MgB_2 Powders Produced via Reactive Liquid Infiltration Method*. Molecules, vol. 26, nr. 16, #4966, 2021: WOS:000689976100001 (FI 2021 = 4.927, Q2).		17.59
			38. P. Badica, **N.D. Batalu**, M.C. Chifiriuc et al. (**14**). *Sintered and 3D-Printed Bulks of MgB_2-Based Materials with Antimicrobial Properties*. Molecules, vol. 26, nr. 19, #6045, 2021: WOS:000709840900001 (FI 2021 = 4.927, Q2).		17.59
			39. T. Wang, C. Lin, **D. Batalu**, L. Zhang, J. Hu, W. Lu (**6**). *In vitro study of the PLLA-$Mg_{65}Zn_{30}Ca_5$ composites as potential biodegradable materials for bone implants*. Journal of Magnesium and Alloys, vol. 9, nr. 6, 2021, p. 2009-2018: WOS:000753691400002 (FI 2021 = 11.813, Q1).		98.44
			40. A. Melinescu, E. Volceanov, M. Eftimei, **D. Batalu**, A. Volceanov, L.G. Popescu (**6**). *Hardenability of Electroless Chemical Ni-P-Tio2 Nanocomposite Coatings on Low Carbon Steel Substrates*. Revista Romana de Materiale – Romanian Journal of Materials, vol. 52, nr. 2, p. 99-107, 2022: WOS:000829023400001 (FI 2021 = 0.628, Q4).		5.23
			41. I. Chiulan, S.I. Voicu, **D. Batalu** (**3**). *The Use of Graphene and Its Derivatives for the Development of Polymer Matrix Composites by Stereolithographic 3D Printing*. Applied Science – Basel, vol. 12, nr. 7, #3521, 2022: WOS:000781250100001 (FI 2021 = 2.838, Q2).		47.3
			42. T.A. Badea, **D. Batalu***, N. Constantin, A. Paraschiv, D. Patroi, L.C. Ceatra (**6**). *Assessment of Hot Corrosion in Molten Na2SO4 and V2O5 of Inconel 625 Fabricated by Selective Laser Melting versus Conventional Technology*. Materials, vol. 15, nr. 12, #4082, 2022: WOS:000816400800001 (FI 2021 = 3.748, Q1).		31.23
			43. F. Pan, Y. Rao, **D. Batalu**, L. Cai, Y. Dong, X. Zhu, Y. Shi, Z. Shi, Y. Liu, W. Lu (**10**). *Macroscopic Electromagnetic Cooperative Network-Enhanced MXene/Ni Chains Aerogel-Based Microwave Absorber with Ultra-Low Matching Thickness*. Nano-Micro Letters, vol. 14, nr. 1, 2022, #140: WOS:000821031400002 (FI 2021 = 23.655, Q1).		118.27
				Total 1	**1268.33**

2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale		Reviste sau volume indexate SCOPUS	**1. D. Batalu**, G.Q. He, C.S. Chen, X.S. Liu **(4)**. *Influence of heat treatment on properties of TiNi (atomic percent Ni = 50.6%) alloy*. Tongji Daxue Xuebao/Journal of Tongji University, 33 (3), 2005, p. 350-354.	4 / nr. autori	1
			2. X.S. Liu, G.Q. He, **D. Batalu**, Z.X. Chen **(4)**. *Study of SME by using factorial design analysis in TiNi alloy*. Jianzhu Cailiao Xuebao/Journal of Building Materials, 8 (6), 2005, p. 714-717.		1
			3. D. Batalu, H. Guoqiu, A. Aloman, L. Xiaoshan, Z. Zhihua **(5)**. *A factorial design study of ageing heat treatment influence on phase transformation of Ti50.6 at. % Ni alloy*. UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 67 (1), 2005, p. 65-76.		0.8
			4. D. Batalu, G. Cosmeleata, A. Aloman **(3)**. *Critical analysis of the Ti-Al phase diagrams*. UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 68 (4), 2006, p. 77-90.		1.33
			5. D. Batalu, H. Guoqiu **(2)**. *Improvement of the corrosion resistance of equiatomic NiTi shape memory alloy for medical implants by the electropolishing method*. UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 71 (1), 2009, p. 91-100 (ISSN 1454-2331).		2
			6. G. Jicmon, G. Cosmeleata, **D. Batalu (3)**. *Investigation of some electrical properties of NiTi wires presenting the shape memory effect*. UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 71 (4), 2009, p. 131-138 (ISSN 1454-2331).		1.33
			7. F. Miculescu, I. Antoniac, L.T. Ciocan, M. Miculescu, M. Branzei, A. Ernuteanu, **D. Batalu**, A. Berbecaru **(8)**. *Complex analysis on heat treated human compact bones*, UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 73 (4), 2011, p. 203-212 (ISSN 1454-2331).		0.5
			8. Dan Batalu, D. Bojin, G. Aldica, S. Popa, P. Badica **(5)**. *Influence of La_2O_3 addition powders with different morphology on MgB_2 superconducting ceramic*. Proceeding of the 15th European Conference on Composite Materials (ECCM 2012), ISBN 978-88-88785-33-2, 2012, conference paper, p. 1-4.		0.8
			9. R. Bololoi, M. Burdusel, P. Badica, **Dan Batalu (4)**. *Total Elbow Implant. Computer Assisted Design And Simulation.* Key Engineering Materials, vol. 638, 2015, p. 161-164.		1
			10. Dan Batalu, G. Aldica, M. Burdusel, P. Badica **(4)**. *Short review on rare earth and metalloid oxide additions to MgB_2 as a candidate superconducting material for medical applications*. Key Engineering Materials, vol. 638, 2015, p. 357-362.		1
			11. Miculescu F, Maidaniuc A, Voicu SI, Miculescu M, **Batalu D (5)**. *Strategies for production of naturally-derived calcium phosphates particles*. Advanced Materials-TechConnect Briefs, 2016, p. 31-34.		0.8
			12. Semenescu A., Radu-Ioniță F., Mateș I.M., Bădică P., **Batalu N.D.**, Negoita O.D., Purcarea V.L. (**7**) *Finite element analysis on a medical implant*, Romanian journal of ophthalmology, vol. 60, nr. 2, 2016, p. 116-119.		0.57
			13. Semenescu A., Radu F.I., Mates I., Badica P., **Batalu N.D.** (**5**). Finite element analysis of a modified short hip endoprosthesis, Romanian Journal of Military Medicine, vol. 119, nr. 2, p. 27-31, 2016.		0.8

			14. Batalu N.D., Semenescu A., Mates I.M., Negoita O.D., Purcarea V.L., Badica P. (**6**) *Computer assisted design and finite element analysis of contact lenses*, Romanian journal of ophthalmology, vol. 60, nr. 3, 2016, p. 132-137.		0.67
				Total 2	**13.6**
2.3. Brevete de invenție acordate, neindexate/**indexate** ISI Thomson ReutersWeb of Science-Derwent Innovations Index		2.3.2. Naționale	**1. Batalu N.D.** et al (**12**). *Semiconstrained total elbow prosthesis made of shape memory-alloys, with coupling system based on shape-memory effect*, Patent number: RO131379A0 (B1), Derwent Primary Accession Number: 2016-61849C.	15/**25**/nr. autori	2.08
			2. Batalu N.D. et al (**11**). *Total constricted elebow prosthesis made of shape memory alloys with hinge-like fixation and coupling system based on shape memory effect*, Patent number: RO131261A0 (B1), Derwent Primary Accession Number: 2016-52537M.		2.27
				Total 3	**4.35**

2.4. Granturi/proiecte de cercetare câștigate prin competiție/ Contracte cu agenți economici, min. 10.000 Euro, încasați **Cerința minimală:** minim 2 ca responsabil/director, minim 1 ca director **Realizat:** 2 director, 4 responsabil	2.4.1. Director/Responsabil partener: minim 2, din care 1 ca director	**Director proiect internațional**	**I.** Contract PN-III-P3-3.1-PM-RO-CN-2018-0113, Nr. 17/02.07.2018, Mecanisme de control al proprietăților magneților permanenți nanocristalini pe baza de MnBi fără adaosuri de pământuri rare - *Magnet* (1,5 ani: 02.07.2018-31.12.2019) Finanțat de UEFISCDI, **Parteneriat** format din: **1. UPB** (CO: **director Dan BATALU**) **2. Tongji University, China** (P1, **responsabil Lu WEI**) Valoare contract 45.000 lei (echivalent **9.654** Euro la cursul BNR de 4.6610 lei/euro, la data contractării).	20·ani desfășurare (internaționale)	30
		Director proiect național (partener furnizor servicii)	**II.** Contract PN-III-P2-2.1-CI-2017-0652, 78CI/25.07.2017, Valorificarea avansată a rocii calcaroase de Buciumi - *Novumcalc* (1/2 ani: 25.07.2017-31.12.2017), Finanțat de UEFISCDI, **Parteneriat** format din: 1. S.C. Proconic S.R.L (director: Vasile COPOS) 2. UPB (director: Dan Batalu) Valoare contract 50.000 lei (echivalent **10.960** Euro la cursul BNR de 4.5617 lei/euro, la data contractării).	5·ani desfășurare (naționale)	2.5
		Responsabil proiect internațional	**III.** Contract PN-II-CT-RO-UA-2013 – 1, 3BM/2016, *Noi materiale compozite ceramice dure pentru scule așchietoare* (Newcomposite; 30.06.2016-30.11.2017: 1,5 ani), Programul 3: Cooperare europeană și internațională, Subprogramul 3.1 Bilateral/multilateral Finanțat de UEFISCDI, **Parteneriat** format din: **1. INCDFM** (CO: director Petre BĂDICĂ) **2. UPB** (P1, responsabil Dan BATALU, buget 22.830 lei/ 5049 EUR) **3. National Technical University of Ukraine "Kyiv Polytechnic Institute"** (Responsabil Petro LOBODA)	20·ani desfășurare (internaționale)	30
		Responsabil proiect național	**IV.** Contract PN II 214/2014, Benzi supraconductoare pe baza de MgB_2 (**BENZISUPRA**), (3 ani, 2014-2017). Finanțat de UEFISCDI, **Parteneriat** format din: **1. INCDFM** (CO: director Petre BĂDICĂ) **2. UPB** (P1, **responsabil Dan BATALU**, buget 215.000 RON/ 50.000 EUR) **3. R&D Special Alloys SRL (P2, responsabil Ioan Nedelcu).**	5·ani desfășurare (naționale)	15
		Responsabil proiect internațional	**V.** Contract COFUND-M-ERA.NET II-BIOMB, 74/2017 (4 ani: 14.06.2017-31.07.2021). **Parteneriat** format din: **1. INCDFM** (CO: director Petre BĂDICĂ) **2. UPB** (P1, **responsabil Dan BATALU**, buget 270.000 RON/60.000 Euro) **3. UB** (P2, responsabil CHIFIRIUC Mariana Carmen). **4. Universitatea din Torino** (P3, responsabil Marco Truccato) Finanțat de UEFISCDI și Comisia Europeană	20·ani desfășurare (internaționale)	80

<table>
<tr><td rowspan="13"></td><td></td><td>Responsabil proiect național</td><td>VI. Contract PN-III-P2-2.1-PTE-2019-0655, 5PTE Algoritm de valorificare a reziduurilor entomologice si de pielarie in sisteme multivalente pentru regenerare de tesut cutanat (BIOTEHKER) (2 ani: 01.06.2020-01.06.2022)
Finanțat de UEFISCDI, Parteneriat format din:
1. BIOTEHNOS (Director Laura Olariu).
2. INCDTP (Responsabil Carmen Gaidau).
3. INCDFM (Responsabil Petre BĂDICĂ)
4. UPB (Responsabil Dan BATALU, buget 142.000 RON/ 30.000 EUR)</td><td>5·ani desfășurare (naționale)</td><td>10</td></tr>
<tr><td rowspan="12">2.4.2. Membru în echipă</td><td rowspan="2">2.4.2.1. Internaționale</td><td>1. Research Grant of the National Foundation of Science and Nature (China, G. 50371063), TiNi Shape memory alloys used in biomedical engineering, Director He GUOQIU (2 ani, 2002 - 2004).</td><td rowspan="2">4·ani desfășurare (internaționale)</td><td>8</td></tr>
<tr><td>2. Contract MANUNET-ERANET 7-060/2012, Development of a new Cobalt based alloys modified with Titanium for dental applications (DENTICO), Director Brândușa GHIBAN (1 an, 2012-2013).</td><td>4</td></tr>
<tr><td rowspan="10">2.4.2.2. Naționale</td><td>1. Contract PN-III-P2-2.1-PED-2016-1741, 163PED din 03/01/2017, De la cărămizile romane de la Romula la materiale moderne pentru restaurare (ROMBRICKS), Director Mircea NEGRU (1,5 ani, 2017-2018).</td><td rowspan="10">2·ani desfășurare (naționale)</td><td>3</td></tr>
<tr><td>2. Contract PN II 305/2014, Sisteme complexe cu structura deformabila destinate protecției balistice a vehiculelor blindate implicate în conflicte asimetrice (ARMPROT), Director Nicolae CONSTANTIN (3 ani, 2014-2017).</td><td>6</td></tr>
<tr><td>3. Contract CNMP 71-080/2007, Materiale multifuncționale cu efect bioactiv destinate implantologiei (MULTIBIOMAT), Responsabil Georgeta COȘMELEAȚĂ (3 ani, 2007-2010).</td><td>6</td></tr>
<tr><td>4. Contract CNMP 71-059/2007, Tehnologii inovative de realizare a unor produse din aliaje tip Permalloy, competitive la export (PERMATECH), Responsabil Rami ȘABAN (3 ani, 2007-2010).</td><td>6</td></tr>
<tr><td>5. Contract Inovare 115/2007, Tehnologii integrate pentru realizarea unor materiale biocompatibile complexe (BIOCOMPLEXMAT), Responsabil Georgeta COȘMELEAȚĂ (2 ani, 2007-2009).</td><td>4</td></tr>
<tr><td>6. Contract CEEX 4395/ 2006, Tehnologii integrate in vederea obținerii structurilor multistrat, pe suport de cupru, rezistente la temperaturi înalte, eroziune si contact cu metal lichid, cu destinație specială (STECUSID), Director Georgeta COȘMELEAȚĂ (2 ani, 2006 - 2008).</td><td>4</td></tr>
<tr><td>7. Contract CEEX 143/2006, Materiale complexe multifuncționale cu structura nanometrică și caracteristici controlate cu destinație specială (NANOSTRUCT), Director Georgeta COȘMELEAȚĂ (2 ani, 2006-2008).</td><td>4</td></tr>
<tr><td>8. Contract CEEX 194/2006, Cercetări fundamentale și experimentale privind biomaterialele cu memoria formei cu aplicabilitate în realizarea stenturilor vasculare (ANGIOMAT), Director Ion CIUCĂ (2 ani, 2006-2008).</td><td>4</td></tr>
<tr><td>9. Contrat CEEX 55/2005, Corelația dintre disfuncția endotelială și afectarea miocardică la pacienții cu diabet zaharat (CARDIAB), Responsabil Georgeta COȘMELEAȚĂ (3 ani, 2005-2008).</td><td>6</td></tr>
<tr><td>10. Contract CEEX 46/2005, Rețea tehnologică integrată de cercetare a structurilor avansate biocompatibile pentru implanturi dentare (Rete-β-dent), Responsabil Mihai TÂRCOLEA (3 ani, 2005-2008, BIOMAT).</td><td>6</td></tr>
<tr><td colspan="4"></td><td>Total 4</td><td>228.5</td></tr>
<tr><td colspan="4"></td><td>Total A2</td><td>1514.7</td></tr>
</table>

Tipul activităților	Categorii și restricții	Subcategorii	Publicații	Indicatori	Punctaj
3.1. Citări în reviste cotate în ISI Thomson Reuters-Web of Science Core Collection și în alte BDI	Se exclud autocitările tuturor co-autorilor; Lucrări citate: articol de revistă, conferință, carte, teză, brevet invenție. Minimum 30 citări Au fost identificate **169** de citări pentru **33** de articole	**FI < 0,5:** 5/nr. autori **0,5 ≤ FI ≤ 1:** 10/nr. autori **1< FI < 2:** 15/nr. autori **FI > 2:** 20/nr. autori **FI > 5:** 30/nr. autori **BDI:** 3/nr. autori	**1. D. Batalu**, G. Aldica, S. Popa, L. Miu, M. Enculescu, R.F. Negrea, I. Pasuk, P. Badica **(8)**. *High magnetic field enhancement of the critical current density by Ge, GeO_2 and $Ge_2C_6H_{10}O_7$ additions to MgB_2*. Scripta Materialia, vol. 82, 2014, p. 61-64. **CITAT DE:**		**10**
			1.1. Berger K, Koblischka MR, Douine B, Bernstein P, Hauet T, Leveque J. *High magnetic field generated by bulk MgB_2 prepared by spark plasma sintering*, IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol. 26, no. 3, 2016, #7423676 (WOS:000376184800001, FI 2020 = 1.949).	15/8=1,875	
			1.2. Grivel J.C. *Influence of iridium doping in MgB_2 superconducting wires*, Physica C: Superconductivity and its Applications, vol. 547, 2018, p. 7-15 (WOS:000427566300002, FI 2021 = 1.534).	15/8=1,875	
			1.3. Grivel J.C. *Critical current density improvements in MgB_2 superconducting bulk samples by K_2CO_3 additions*, Physica C: Superconductivity and its Applications, vol. 550, 2018, p. 16 (WOS: 000433593300001, FI 2021 = 1.534).	15/8=1,875	
			1.4. Li WX, Kang JX, Fu SW, Hu YM, Hu PF, Zhu MY, Li Y. *Rare earth doping effects on superconducting properties of MgB_2: A review*. Journal of Rare Earths, 2019, vol. 37, issue 2, p. 124-133 (WOS:000458135100002, FI 2021 = 4.632).	20/8=2,5	
			1.5. Grivel J.C., Rubesova K. *Increase of the critical current density of MgB_2 superconducting bulk samples by means of methylene blue dye additions*, Physica C: Superconductivity and its Applications, vol. 565, 2019, # 1353506 (WOS: 000489690700003, FI 2021 = 1.534).	15/8=1,875	
			2. D. Batalu, A.M. Stanciuc, L. Moldovan, G. Aldica, P. Badica **(5)**. *Evaluation of pristine and Eu_2O_3-added MgB_2 ceramics for medical applications: hardness, corrosion resistance, cytotoxicity andg antibacterial activity*. Materials Science and Engineering: C, Volume 42, 1 September 2014, Pages 350-361. **CITAT DE:**		**26.6**
			2.1. Guzman R, Fernandez-Garcia E, Gutierrez-Gonzalez CF, Fernandez A, Luis LopezLacomba J, Lopez-Esteban S. *Biocompatibility assessment of spark plasma-sintered alumina-titanium cermets*, JOURNAL OF BIOMATERIALS APPLICATIONS, Vol. 30, Issue 6, 2016, p. 759-769 (WOS:000367743400011, FI 2021 = 2.712).	20/5=4	
			2.2. Fernandes JS, Gentile P, Pires RA, Reis RL, Halton PV. *Multifunctional bioactive glass and glass-ceramic biomaterials with antibacterial properties for repair and regeneration of bone tissue*. Acta Biomaterialia, vol. 59, 2017, p. 2-11 (WOS:000408179300001, FI 2021 = 10,633).	30/5=6	
			2.3. Fink R. Hygienically relevant biofilms (book), 2-15, p. 1-224 (SCOPUS).	3/5=0,6	
			2.4. Nguyen ST, Nakyama T et al. *Self-healing behavior and strength recovery of ytterbium disilicate ceramic reinforced with silicon carbide nanofillers*, Journal of the European Ceramic Society, vol. 39, Issue 10, 2019, pp. 3139-3152 (WOS: 000468715700022, FI 2021 = 6,364).	30/5=6	
			2.5. Abhinandan R., Pranav Adithya S., Saleth Sidharthan D., Balagangadharan K., Selvamurugan N. *Synthesis and characterization of magnesium diboride nanosheets in alginate/polyvinyl alcohol scaffolds for bone tissue engineering*. Colloids and Surfaces B: Biointerfaces, vol. 203, 2021, # 111771 (WOS:000663411700004, FI 2021 = 5,999).	30/5=6	
			2.6. Kandavalli, SR, Kandavalli, SR, Ruban, RS, Lo, CH, Kumar, R, Elshalakany, A, Pruncu, CI. *Review-A Conceptual Analysis on Ceramic Materials Used for Dental Practices:*	20/5=4	

			Manufacturing Techniques and Microstructure. ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol. 11, nr. 5, #053005 (WOS:000792466200001, FI 2021 = 2,483).		
			3. G. Aldica, S. Popa, M. Enculescu, **D. Batalu**, L. Miu, M. Ferbinteanu, P. Badica **(7)**. *Addition of Ho_2O_3 of different types to MgB_2 in the ex-situ Spark Plasma Sintering: Simultaneous control of the critical current density at low and high magnetic fields*. Materials Chemistry and Physics, Volume 146, Issue 3, 14 August 2014, Pages 313-323. **CITAT DE:**		**6.41**
			3.1. Chen SK, Maeda M, Yamamoto A, Dou SX. *Chemically and mechanically engineered flux pinning for enhanced electromagnetic properties of MgB_2* (book chapter), Springer Series in Materials Science, vol. 261, 2017, p. 65-108 (WOS:000429445900004).	5/7=0,71	
			3.2. Li WX, Kang JX, Fu SW, Hu YM, Hu PF, Zhu MY, Li Y. *Rare earth doping effects on superconducting properties of MgB_2: A review*, Journal of Rare Earths, 2019, vol. 37, issue 2, pp. 124-133 (WOS:000458135100002, FI 2021=4,632).	20/7=2,85	
			3.3. Yang Y, Sumption MD, Rindfleisch M, Tomsic M, Collings EW. *Enhanced higher temperature irreversibility field and critical current density in MgB_2 wires with Dy_2O_3 additions*. Superconductor Science and Technology, vol. 34, nr. 2, 2021, #025010 (WOS: 000607316700001, FI 2021=3,482).	20/7=2,85	
			4. Batalu D, Aldica G, Popa S, Kuncser A, Mihalache V, Badica P **(6)**. *GeO_2-added MgB_2 superconductor obtained by Spark Plasma Sintering*, Solid State Sciences, vol. 48, 2015, p. 2330. **CITAT DE:**		**10.49**
			4.1. Chen SK, Maeda M, Yamamoto A, Dou SX. *Chemically and mechanically engineered flux pinning for enhanced electromagnetic properties of MgB_2*, Springer Series in Materials Science, vol. 261, 2017, p. 65-108 (WOS:000429445900004).	5/6=0,5	
			4.2. Matthews GAB, Liu J, Grovenor CRM, Grant PS, Speller S. *Design and characterisation of ex situ bulk MgB_2 superconductors containing a nanoscale dispersion of artificial pinning centres*, Superconductor Science and technology, vol. 33, nr. 3, 2020, #034006 (WOS: 000520418600001, FI 2021 = 3,482).	20/6=3,33	
			4.3. Zhang JY, Zhang YF, Lou ZW, Zhang PH, Li CY, Yuan JW, Peng L, Ma YX, Noudem JG, Izumi M. *The discrepancies in different facets of MgB_2 bulk superconductors prepared under various sintering durations by spark plasma sintering*. Superconductor Science and Technology, vol. 34, nr. 4, 2021, #045011 (WOS: 000625417000001, FI 2021 = 3,482).	20/6=3,33	
			4.4. G.A.B. Matthews, T. Mousavi, S. Santra, C.R.M. Grovenor, P.S. Grant, S. Speller. *Improving the connectivity of MgB2 bulk superconductors by a novel liquid phase sintering process*, Superconductor Science and Technology, vol. 35, nr. 6, 2022, #065005 (WOS:000787021300001, FI 2021 = 3,482).	20/6=3,33	
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			42.1. D. Boniek, C.S. de Abreu, A.N.F.B. dos Santos, M.A.D. Stoianoff. Filamentous fungi in Brazilian indoor cultural heritage as potential risk to human health and biodeterioration of artworks. Air Quality Atmosphere and Health, vol. 15, nr. 2, p. 339-346, 2022 (WOS: 000713067600001, FI 2021 = 5,804).	30/24=1,25	
			42.2. N.C. Silva, M. Pintado, P.R. Moreira. Sampling methods for outdoor sculptures: Comparison of swabs and cryogels by flow cytometry as novel alternatives for assessment and quantification of microbial contamination. Journal of Cultural Heritage, vol. 54, p. 94-102, 2022 (WOS: 000819944500010, FI 2021 = 3,279).	20/24=0,83	
				Total 1	**928**

3.2. Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și Profesor invitat			**3.2.1. Internaționale**		**24**
			3.2.1.1. P. Badica, G. Aldica, V. Sandu, L. Miu, M. Burdusel, **Dan Batalu** (6). *MgB_2-Based Composites*. 22nd Annual International Conference on Composites/Nano Engineering, July 1319, 2014, Saint Julian's, Malta.	8	
			3.2.1.2. D. Batalu, D. Bojin, C. Nastase, F. Nastase, T. Soare, M. Militaru, M. Gherghiceanu, P. Badica (8). *Biocompatible Oxide-Based Composite Protective Coatings for TiNi Stents*. 20th MRS-J Academic Symposium, December 20-22, 2010, Yokohama, Japan.	8	
			3.2.1.3. D. Batalu, F. Nastase, M. Militaru, M. Gherghiceanu, L. Moldovan, M. Bucur, G. Aldica, P. Badica (8). *New materials and devices for biomedical applications*. International Union of Materials Research Societies - The 15th International Conference on Advanced Materials, August 27-September 1, 2017, Kyoto, Japan.	8	
			3.2.2. Naționale		**4**
			3.2.2.1. Dan Batalu, P. Badica, G. Aldica, C. Nastase, F. Nastase, T. Soare, E. Ciobotaru, M. Militaru, M. Gherghiceanu, A. Stanciuc, L. Moldovan, M. Bucur (12). *Different Approaches of Materials for Medical Applications.* Advanced Workshop in Nanophysics and Solar Energy Conversion, September 1-3, 2014, Magurele – Bucharest, Romania.	4	
3.3. Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice/ Recenzor pentru reviste și manifestări naționale și internaționale indexate ISI			**3.3.1. Recenzor ISI**		**20**
			3.3.1.1. Journal of Alloys and Compounds	5	
			3.3.1.2. Materials Science and Engineering – C	5	
			3.3.1.3. Journal of Biomaterials Applications	5	
			3.3.1.4. Journal of Biomedical Materials Research	5	
			3.3.2. Recenzor BDI		**6**
			3.3.2.1. Scientific Bulletin, Series B: Chemistry and Material Science	3	
			3.3.2.2. Key Engineering Materials	3	
				Total 2	**54**
				TOTAL	**982**

Criterii opționale

3.5. Premii (nu se consideră premierea articolelor de către UEFISCDI)			**3.5.2. Premiere brevete de invenție**		**150**
			30 de premii naționale si internaționale pentru brevete de invenție	30x5=150	
3.6. Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării	3.6.4. Asociații profesionale	3.6.4.1. Internaționale	**Membru al Societății Europene de Supraconductivitate Aplicată**	15	**15**
		3.6.4.2. Naționale	**Membru al Societății Române de Biomateriale**	5	**5**
				Total	**170**

Data:

30.09.2022

Conf. dr. ing. Batalu Nicolae-Dan