

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
 FACULTATEA DE ȘTIINȚA ȘI INGINERIA MATERIALELOR
 DEPARTAMENTUL DE TEHNOLOGII ȘI ECHIPAMENTE PENTRU PROCESAREA MATERIALELOR
 Examen de promovare pentru ocuparea postului de CONFERENȚIAR, poz. 6
 Disciplinele postului: - Procesarea biomaterialelor metalice;
 - Utilaje și instalații termice (2);
 - Echipamente și instalații de încălzire (2).

FIȘA DE VERIFICARE
a îndeplinirii standardelor minimele naționale de prezentare la examenul de promovare pe postul de
coferențiar universitar

Candidat: Bălțatu Mădălina Simona, Data nașterii: 29 IULIE 1989
 Funcția actuală: Șef lucrări, Data numirii în funcția actuală: 17.02.2020 Instituția: UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI

Tabelul 1. Condiții minimele / punctaje obținute
 (conform Anexa nr. 7. Comisia INGINERIA ȘI ȘTIINȚA MATERIALELOR, MONITORUL OFICIAL AL ROMÂNIEI, PARTEA I, Nr. 121 bis/11.II.2025)

Condiții minimele (Ai)					
Nr. Crt.	Categorie				
	Domeniul de activitate	Condiții conferențiar	Punctaj obținut candidat	Criteriu de îndeplinire	
1.	Activitatea didactică /profesională (A1)	Minim 30 puncte	307,20	1024,00 %	Îndeplinit
2.	Activitatea de cercetare (A2)	Minim 160 puncte	1184,63	740,39 %	Îndeplinit
3.	Recunoașterea impactului activității (A3)	Minim 60 puncte	3641,72	6069,53 %	Îndeplinit
Total		250 puncte	5133,55	2053,42 %	Îndeplinit

Data: 02.06.2026
 Șef lucrări dr. Ing. BĂLȚATU Mădălina Simona

Condiții minime obligatorii pe subcategorii			Necesar	Realizat
A1	1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute			
	1.1.1. Cărți/ capitole ca autor 1.1.1.2. Naționale: pentru conferințiar minim 1		1	2
	1.2. Suport didactic			
	1.2.1. Manuale didactice, monografii, inclusiv electronice: pentru conferințiar minim 1		1	2
A2	2.1. Articole în reviste cotate ISI Thomson Reuters-Web of Science Core Collection [FI – Factor de impact] și în volume indexate în specificul postului scos la concurs [2]		10 articole 2 autor principal	41 articole cu factor 27 ca autor principal
	2.1.2. <i>Minim 10 articole pentru Conferințiar din care minim 5 în reviste cotate ISI Th.R. , din care minim 3 cu FI de min. 1 și min. 2 ca autor principal cu FI min. 0,5</i>			
A3	2.4. Granturi/proiecte de cercetare câștigate prin competiție/ Contracte cu agenți economici, min 10.000 echivalent Euro, încasați		1	2
	2.4.1. <i>Director/responsabil partener: minim 1 pentru conferințiar</i>			
A3	3.1. Citări în reviste cotate ISI Thomson Reuters-Web of Science Core Collection [FI – Factor de impact] și în alte BD			
	<i>Minim 15 citări pentru Conferințiar, în ISI Thomson Reuters-Web of Science Core Collection și SCOPUS</i>		15	Selecție de citări 606

Tabelul 2. Detalierea valorilor “Punctaj obținut” din Tabelul 1 (conform Anexa nr. 7. Comisia ÎNGINERIA ȘI ȘTIINȚA MATERIALELOR, MONITORUL OFICIAL AL ROMÂNIEI, PARTEA I, Nr. 121 bis/11.II.2025)

Structura activității		Restricții Conf.	Punctaj obținut
A1. Activitatea didactică și profesională			307,20
A1.1 Cărți / capitole în cărți de specialitate în edituri recunoscute			288,80
A1.1.1.1. Cărți/capitole ca autor			
A1-1.1.1.1. Internaționale			117,77
1. <u>BĂLTATU M.S., VIZUREANU P., SANDU A.V., NABIALEK M., Appraisal of Several Ti-Based Alloys Used for Medical Applications, CRC Press, Book: Functionalized Materials Applications in Biomedicine, 2026, pp. 1–19, ISBN: 978-1-032-8137-9 (DOI: 10.1201/9781003642855) – <i>Capitol de carte</i></u>			2,37
Punctaj: 19/(2x4)=2,37			
2. VIZUREANU P., PRUTEANU A., FIERASCU R.C., <u>BĂLTATU M.S., PIETRUSIEWICZ P., SANDU A.V., NABIALEK M., Evolution and Prospects of Epoxy Materials: From Traditional to Advanced, London, IntechOpen, 2025, 13 p. (DOI: 10.5772/intechopen.1012225) – <i>Capitol de carte</i></u>			0,92
Punctaj: 13/(2x7)=0,92			
3. <u>BĂLTATU M.S., VIZUREANU P., SANDU A.V., PRUTEANU A., CIOLACU F., FIERASCU R., SPATARU M.C., KRAWCZYK M.B., Methods and Processing Techniques of Titanium Alloys, London, IntechOpen, 2025, 17 p. (DOI: 10.5772/intechopen.1012294) – <i>Capitol de carte</i></u>			1,06
Punctaj: 17/(2x8)=1,06			
4. <u>BĂLTATU M.S., VIZUREANU P., SANDU A.V., ACHITEI D.C., BURDUHOS-NERGIS D.D., PERJU M.C., NABIALEK M., Biocomposites: Materials, Properties, and Applications, London, IntechOpen, 2025, 19 p. (DOI: 10.5772/intechopen.1010197) – <i>Capitol de carte</i></u>			1,35
Punctaj: 19/(2x7)=1,35			
5. <u>BĂLTATU M.S., VIZUREANU P., SANDU A.V., ACHITEI D.C., PERJU M.C., BURDUHOS-NERGIS D.D., BENCHEA M., Perspective Chapter: Titanium – A Versatile Metal in Modern Applications, London, IntechOpen, 2024, 21 p. (DOI: 10.5772/intechopen.1005742) – <i>Capitol de carte</i></u>			1,50
Punctaj: 21/(2x7)=1,50			
6. VIZUREANU P., <u>BALTATU M.S., SANDU A.V., Novel Biomaterials for Tissue Engineering, London, IntechOpen, 2024, 26 p. (DOI: 10.5772/intechopen.112763) – <i>Capitol de carte</i></u>			4,33
Punctaj: 26/(2x3)=4,33			
7. SPATARU M.C., <u>BALTATU M.S., SANDU A.V., VIZUREANU P., General Trends on Biomaterials Applications: Advantages and Limitations, in Book: Novel Biomaterials for Tissue Engineering, London, IntechOpen, 2024, 25 p. (DOI: 10.5772/intechopen.114838) – <i>Capitol de carte</i></u>			3,12
Punctaj: 25/(2x4)=3,12			
8. VIZUREANU P., <u>BĂLTATU M.S., SANDU A.V., ACHITEI D.C., BURDUHOS-NERGIS D.D., PERJU M.C., Assessment of Solar Energy Potential Limits within Solids on Heating-Melting Interval, IntechOpen, 2022, 25 p. (DOI: 10.5772/intechopen.104847) – <i>Capitol de carte</i></u>			2,08

Structura activității

Restricții Conf.		Punctaj obținut
9. BALTATU M.S., BURDUHOS-NERGIS D.D., BURDUHOS-NERGIS D.P., VIZUREANU P., <i>Advanced Metallic Biomaterials, Materials Research Foundations</i>, Vol. 118, 2022, 162 p. (Print ISBN: 978-1-64490-176-2, DOI: 10.21741/9781644901779)	Punctaj: 25/(2x6)=2,08	
	Punctaj: 162/(2x4)=20,25	20,25
10. BURDUHOS-NERGIS D.P., BURDUHOS-NERGIS D.D., BALTATU M.S., VIZUREANU P., <i>Advanced Coatings for the Corrosion Protection of Metals, Material Research Forum, USA, 2022, 152p. (ISBN: 978-1-64490-166-3, DOI: 10.21741/9781644901670)</i>	Punctaj: 152/(2x4)=19,00	19,00
11. BURDUHOS-NERGIS D.D., BURDUHOS-NERGIS D.P., BALTATU M.S., VIZUREANU P., <i>Ceramics and Composites, Preparation and Applications, Materials Research Foundations, Vol. 117, 2022, 117 p.. (ISBN: 978-1-64490-170-0, DOI: 10.21741/9781644901717)</i>	Punctaj: 117/(2x4)=14,62	14,62
12. VIZUREANU P., BALTATU M.S., SANDU A.V., ACHITEI D.C., BURDUHOS-NERGIS D.D., PERJU M.C., <i>New Trends in Bioactive Glasses for Bone Tissue: A Review, Current Concepts in Dental Implantology - From Science to Clinical Research, IntechOpen, 2021, 23 p. (DOI: http://dx.doi.org/10.5772/intechopen.100567)</i>	Punctaj: 23/(2x6)=1,91	1,91
13. VIZUREANU P., BURDUHOS-NERGIS D.D., SANDU A.V., BURDUHOS-NERGIS D.P., BALTATU M.S., <i>The Physical and Mechanical Characteristics of Geopolymers Using Mine Tailings as Precursors, IntechOpen, 2021, 21 p. (DOI: 10.5772/intechopen.97807) – Capitol de carte</i>	Punctaj: 21/(2x5)=2,10	2,10
14. VIZUREANU P., BALTATU M.S., <i>Titanium-Based Alloys for Biomedical Applications, Materials Research Forum LLC, Vol. 74, 2020, 160 p. (ISSN: 2471-8890)</i>	Punctaj: 160/(2x2)=40,00	40,00
15. VIZUREANU P., BALTATU M.S., SANDU A.V., <i>Development of New Advanced Ti-Mo Alloys for Medical Applications, IntechOpen Books, 2020, 19 p. (DOI: http://dx.doi.org/10.5772/intechopen.91906) – Capitol de carte</i>	Punctaj: 19/(2x3)=3,16	3,16
A1-1.1.2. Naționale		Minim 1
1. BALTATU M.S., VIZUREANU P., <i>Materiale Biocompatibile, Ed. PIM, 2019, 146 p. (ISBN: 978-606-13-5168-8)</i>	Punctaj: 146/(5x2)=14,60	14,60
2. BALTATU I., BALTATU M.S., VIZUREANU P., <i>Tendințe noi în dezvoltarea aliajelor biocompatibile pe bază de titan, Ed. PIM, 2024, 135 p. (ISBN 978-606-13-8844-8)</i>	Punctaj: 135/(5x3)=9,00	9,00
A1. 1.1.2. Cărți/capitole ca editor		147,43
A1-1.1.2.1. Internaționale		
1. BALTATU M.S., VIZUREANU P., <i>Titanium Alloys - Research and Future Trends, IntechOpen, 2026, 128 pages, ISBN: 978-1-83634-829-0, Print ISBN: 978-1-83634-830-6, eBook (PDF) ISBN: 978-1-83634-831-3, (DOI: 10.5772/intechopen.1005715)</i>	Punctaj: 128/(3x2)=21,33	21,33
2. VIZUREANU P., BALTATU M.S., <i>Epoxy - Materials, Applications and Advanced Technologies, IntechOpen, 2025, 140 pages, ISBN: 978-1-83634-316-5, Print ISBN: 978-1-83634-317-2, eBook (PDF) ISBN: 978-1-83634-318-9, (DOI: 10.5772/intechopen.1008044)</i>		23,33

Structura activității

	Restricții Conf.	Punctaj obținut
	Punctaj: $140/(3 \times 2) = 23,33$	
3. VIZUREANU P., YAMAGUCHI S., BALTATU M.S. , GÖLLER G., SANDU A.V., ZAMORA-LEDEZMA C., ANTONIAC I.V., Functionalized Materials Applications in Biomedicine, CRC Press, 5 aug. 2025 - 420 pag. ISBN: 978-1-032-8137-9, (DOI: 10.1201/9781003642855)		20,00
	Punctaj: $420/(3 \times 7) = 20,00$	
4. VIZUREANU P., BALTATU M.S. , Titanium-Based Alloys - Characteristics and Applications, Published 24 July 2024, 200 pagini. (DOI: 10.5772/intechopen.1001617, ISBN: 978-0-85466-820-5).		33,33
	Punctaj: $200/(3 \times 2) = 33,33$	
5. VIZUREANU P., BALTATU M.S. , Novel Biomaterials for Tissue Engineering, Published 05 June 2024, 186 pagini. (DOI: 10.5772/intechopen.110991, ISBN: 978-1-83769-229-3), Part of the book series Biomedical Engineering.		31,00
	Punctaj: $186/(3 \times 2) = 31,00$	
6. BALTATU M.S. , VIZUREANU P., SANDU A.V., Advances in New Functional Biomaterials for Medical Applications, Special Issue Advances in Crystals, 2024, 166 pagini. (DOI: https://doi.org/10.3390/books978-3-7258-0961-5).		18,44
	Punctaj: $166/(3 \times 3) = 18,44$	

A1.2 Suport didactic			18,40
A1.2.1 Manuale didactice/ Monografii		Minim 1	16,15
1. BALTATU M.S., Procesarea biomaterialelor metalice, 2026, Suport de studiu online, Note de curs, 80 slideuri, https://sim.tuiasi.ro/wp-content/uploads/2026/05/Procesarea-biomaterialelor-metalice-Note-de-curs-.pdf		Realizat	8,00
2. BALTATU M.S., VIZUREANU P., Biomateriale metalice, 2021, Suport de studiu online, Note de curs – publicat online pe platforma instituțională TUIASI, 163 pagini https://edu.tuiasi.ro/mod/resource/view.php?id=45792			8,15
A1.2.2 Îndrumătoare de laborator/aplicații			2,25
1. MINCIUNA M.G., VIZUREANU P., <u>BALTATU M.S.</u> , Sisteme Moderne Pentru Aplicații Medicale, Editura PIM, 2022, 135 pagini. Punctaj: 135/(20x3)=2,25			2,25
PUNCTAJ TOTAL Domeniu de activitate A1			307,20

A2. Activitatea de cercetare

A2.1 Articole în reviste cotate ISI Web of Science și în volume indexate ISI proceedings (Punctaj = 50*FI/nr. autori)

CONDITII: Min. 10 articole, din care min. 5 cotate WoS (din care min. 3 cu FI>1 și min. 2 ca autor principal cu FI>0,5)

46 articole indexate Web of Science (40 articole cu FI + 6 articole în Proceedings și Reviste fără FI)
27 de articole ca autor principal (11 prim-autor, 16 autor corespondent), din care 39 cu FI > 0,5
35 articole publicate în Jurnale cu FI > 1

A2. Activitatea de cercetare				Punctaj
A2.1 Articole în reviste cotate ISI Web of Science și în volume indexate ISI proceedings (Punctaj = 50*FI/nr. autori)				
CONDITII: Min. 10 articole, din care min. 5 cotate WoS (din care min. 3 cu FI>1 și min. 2 ca autor principal cu FI>0,5)				
46 articole indexate Web of Science (40 articole cu FI + 6 articole în Proceedings și Reviste fără FI) 27 de articole ca autor principal (11 prim-autor, 16 autor corespondent), din care 39 cu FI > 0,5 35 articole publicate în Jurnale cu FI > 1		FI	Nr. autori	1184,63
1.	SOLANO-ORRALA, D.; DIAZ-CRUCES, E.; TROCONIS, J.; ZAMORA-LEDEZMA, E.; RODRIGUEZ-DIAZ, J.M.; BALTATU, M.S.; SANDU, A.V.; HERMOSO-GIL, J.; ALEXIS, F.; VIZUREANU, P.; ZAMORA-LEDEZMA, C. <i>Advances in β-titanium alloys for safer and greener biomedical implants</i> . <i>Biomaterials Advances</i> 2026, 183, 214755. https://doi.org/10.1016/j.bioadv.2026.214755	6,0	11	27,27
2.	JIMENEZ-MARCOS C., MIRZA-ROSCA J.C., BALTATU M.S., VIZUREANU P., <i>Preliminary studies of new heat-treated titanium alloys for use in medical equipment</i> . <i>Results in Engineering</i> , 2025, 104477, https://doi.org/10.1016/j.rineng.2025.104477	7,9	4	98,75
3.	JIMENEZ-MARCOS C., MIRZA-ROSCA J.C., BALTATU M.S., VIZUREANU P., <i>Two novel Ti-Mo-Ta-Zr alloys for medical devices: Their microstructure, corrosion resistance and microhardness characteristics</i> . <i>Materials Chemistry and Physics Volume</i> 334, 1 April 2025, 130511, https://doi.org/10.1016/j.matchemphys.2025.130511	4,7	4	58,75
4.	SABERI A., BALTATU M.S., VIZUREANU P., <i>Recent Advances in Magnesium–Magnesium Oxide Nanoparticle Composites for Biomedical Applications</i> . <i>Bioengineering</i> , 2024, 11, 508. https://doi.org/10.3390/bioengineering11050508 (Autor corespondent)	3,7	3	61,66
5.	SABERI A., BALTATU M.S., VIZUREANU P., <i>The Effectiveness Mechanisms of Carbon Nanotubes (CNTs) as Reinforcements for Magnesium-Based Composites for Biomedical Applications: A Review</i> . <i>Nanomaterials</i> , 2024, 14, 756. https://doi.org/10.3390/nano14090756	4,3	3	71,66
6.	BALTATU M.S., VIZUREANU P., SANDU A.V., <i>Advances in New Functional Biomaterials for Medical Applications</i> . <i>Crystals</i> , 2024, 14, 334. https://doi.org/10.3390/cryst14040334 (Prim autor)	2,4	3	40,00
7.	PANAITE T., SAVIN C., OLTEANU N.D., KARVELAS N., ROMANEC C., VIERIU R.-M., BALCOS C., BALTATU M.S., BENCHEA M., ACHITEI D., et al., <i>Heat Treatment's Vital Role: Elevating Orthodontic Mini-Implants for Superior Performance and Longevity—Pilot Study</i> . <i>Dent. J.</i> , 2024, 12, 103. https://doi.org/10.3390/dj12040103	3,1	11	14,09
8.	BALTATU M.S., VIZUREANU P., SANDU A.V., SOLCAN C., HRITCU L.D., SPATARU M.C., <i>Research Progress of Titanium-Based Alloys for Medical Devices</i> . <i>Biomedicines</i> 2023, 11, 2997. https://doi.org/10.3390/biomedicines11112997 (Prim autor)	3,9	6	32,50
9.	BALTATU M.S., VIZUREANU P., SANDU A.V., <i>Special Issue on Modern Biomaterials: Latest Advances and Prospects</i> . <i>Appl. Sci.</i> , 2023, 13, 11450. https://doi.org/10.3390/app132011450 (Prim autor)	2,5	3	41,66
10.	JIMENEZ-MARCOS C., MIRZA-ROSCA J.C., BALTATU M.S., VIZUREANU P., <i>Effect of Si Contents on the Properties of Ti15Mo7Zrxi Alloys</i> . <i>Materials</i> 2023, 16, 4906. https://doi.org/10.3390/ma16144906 (Autor corespondent)	3,2	4	40,00
11.	KONG L., HEYDARI Z., LAMI G.H., SABERI A., BALTATU M.S., VIZUREANU P., <i>A Comprehensive Review of the Current Research Status of Biodegradable Zinc Alloys and Composites for Biomedical Applications</i> . <i>Materials</i> 2023, 16, 4797. https://doi.org/10.3390/ma16134797	3,2	6	26,66
12.	ISTRATE B., MUNTEANU C., BALTATU M.-S., CIMPOEȘU R., IOANID N., <i>Microstructural and Electrochemical Influence of Zn in MgCaZn Biodegradable Alloys</i> . <i>Materials</i> 2023, 16, 2487. https://doi.org/10.3390/ma16062487 (Autor corespondent)	3,2	5	32,00

13. ZHANG H., SABERI A., HEYDARI Z., BALTATU M.S. , <i>Bredigite-CNTs Reinforced Mg-Zn Bio-Composites to Enhance the Mechanical and Biological Properties for Biomedical Applications</i> , <i>Materials</i> 2023, 16, 1681. https://doi.org/10.3390/ma16041681 (Autor correspondent)	3,2	4	40,00
14. MYDIN M.A.O., ABDULLAH M.M.A.B., RAZAK R.A., NAWI M.N.M., RISDANARENI P., PUSPTASARI P., SANDU A.V., BALTATU M.S. , VIZUREANU P., <i>Study on Polypropylene Twisted Bundle Fiber Reinforced Lightweight Foamed Concrete</i> , <i>Buildings</i> 2023, 13, 541. https://doi.org/10.3390/buildings13020541 (Autor correspondent)	3,1	9	17,22
15. IBRAHIM W.M.A.W., ABDULLAH M.M.A.B., JAMIL N.H., MOHAMAD H., SALLEH M.A.A.M., SANDU A.V., VIZUREANU P., BALTATU M.S. , SUKMAK P., <i>Alkaline-Activation Technique to Produce Low-Temperature Sintering Activated-HAp Ceramic</i> , <i>Appl. Sci.</i> 2023, 13, 2643. https://doi.org/10.3390/app13042643	2,5	9	13,88
16. BURDUHOS-NERGIS D.D., VIZUREANU P., BALTATU M.S. , SANDU A.V., BURDUHOS-NERGIS D.P., <i>A Bibliometric Analysis of Research on Fiber Reinforced Geopolymer Composites</i> , <i>University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science</i> , 2023, Volume 85, Issue 1, Page 129-138.	0,3	5	3,00
17. MUBAROKAH Z.R., MAHMED N., NORIZAN M.N., MOHAMAD I.S., ABDULLAH M.M.A.B., BŁOCH K., NABIALEK M., BALTATU M.S. , SANDU A.V., VIZUREANU P., <i>Near-Infrared (NIR) Silver Sulfide (Ag₂S) Semiconductor Photocatalyst Film for Degradation of Methylene Blue Solution</i> , <i>Materials</i> 2023, 16, 437. https://doi.org/10.3390/ma16010437 (Autor correspondent)	3,2	10	16,00
18. RODUAN S.F., WAHAB J.A., SALLEH M.A.A.M., MAHAYUDDIN N.A.H.M., ABDULLAH M.M.A.B., HALIL A.B.M., ZAFUDDIN A.Q.S., MUHAMMAD M.I., SANDU A.V., BALTATU M.S. , VIZUREANU P., <i>Effectiveness of Dimple Microtextured Copper Substrate on Performance of Sn-0.7Cu Solder Alloy</i> , <i>Materials</i> 2023, 16, 96. https://doi.org/10.3390/ma16010096 (Autor correspondent)	3,2	11	14,54
19. MYDIN M.A.O., ABDULLAH M.M.A.B., MOHD NAWI M.N., YAHYA Z., SOFRIL A., BALTATU M.S. , SANDU A.V., VIZUREANU P., <i>Influence of Polyformaldehyde Monofilament Fiber on the Engineering Properties of Foamed Concrete</i> , <i>Materials</i> 2022, 15, 8984. https://doi.org/10.3390/ma15248984 (Autor correspondent)	3,2	8	20,00
20. ACHITEI D.C., BALTATU M.S. , VIZUREANU P., SANDU A.V., BENCHEA M., ISTRATE B., <i>Ni-Cr Alloys Assessment for Dental Implants Suitability</i> , <i>Appl. Sci.</i> 2022, 12, 12814. https://doi.org/10.3390/app122412814 (Autor correspondent)	2,5	6	20,83
21. MOHAMAD I.S., NORIZAN M.N., MAHMED N., JAMALULLAIL N., HALIN D.S.C., SALLEH M.A.A.M., SANDU A.V., BALTATU M.S. , VIZUREANU P., <i>Enhancement of Power Conversion Efficiency with Zinc Oxide as Photoanode and Cyanococcus, <i>Punica granatum</i> L., and <i>Vitis vinifera</i> as Natural Fruit Dyes for Dye-Sensitized Solar Cells</i> , <i>Coatings</i> 2022, 12, 1781. https://doi.org/10.3390/coatings12111781 (Autor correspondent)	2,8	9	15,55
22. JIMENEZ-MARCOS C., MIRZA-ROSCA J.C., BALTATU M.S. , VIZUREANU P., <i>Experimental Research on New Developed Titanium Alloys for Biomedical Applications</i> , <i>Bioengineering</i> 2022, 9, 686. (Autor correspondent) https://doi.org/10.3390/bioengineering9110686 (Autor correspondent)	3,7	4	46,25
23. BALTATU M.S. , CHIRIAC-MORUZZI C., VIZUREANU P., TÓTH L., NOVÁK J., <i>Effect of Heat Treatment on Some Titanium Alloys Used as Biomaterials</i> , <i>Appl. Sci.</i> 2022, 12, 11241. https://doi.org/10.3390/app122111241 (Prim autor)	2,5	5	25,00
24. ZHAO J., HAOWEI M., SABERI A., HEYDARI Z., BALTATU M.S. , <i>Carbon Nanotube (CNT) Encapsulated Magnesium-Based Nanocomposites to Improve Mechanical, Degradation and Antibacterial Performances for Biomedical Device Applications</i> , <i>Coatings</i> 2022, 12, 1589. https://doi.org/10.3390/coatings12101589 (Autor correspondent)	2,9	5	29,00
25. BALTATU I., SANDU A.V., VLAD M.D., SPATARU M.C., VIZUREANU P., BALTATU M.S. , <i>Mechanical Characterization and In Vitro Assay of Biocompatible Titanium Alloys</i> , <i>Micromachines</i> 2022, 13, 430. https://doi.org/10.3390/mi13030430 (Autor correspondent)	3,0	6	25,00
26. BALTATU I., SANDU A.V., BALTATU M.S. , BENCHEA M., ACHITEI D.C., CIOLACU F., PERJU M.C., VIZUREANU P., BENE A.L., <i>Structural and Physical Characterization of New Ti-Based Alloys</i> , <i>Archives of Metallurgy and Materials</i> 2022, 67(1), 255-259. https://doi.org/10.24425/amm.2022.137499 (Autor correspondent)	0,7	9	3,88

27. AZIZ I.H., ABDULLAH M.M.A.B., SALLEH M.A.A.M., YORIYA S., ABD RAZAK R., MOHAMED R., BALTATU M.S. , The Investigation of Ground Granulated Blast Furnace Slag Geopolymer at High Temperature by Using Electron Backscatter Diffraction Analysis, <i>Archives of Metallurgy and Materials</i> 2022, 67(1), 227-231.	0,7	7	5,00
28. SPATARU M.-C., COJOCARU F.D., SANDU A.V., SOLCAN C., DUCEAC I.A., BALTATU M.S. , VOICULESCU I., GEANTA V., VIZUREANU P., Assessment of the Effects of Si Addition to a New TiMoZrTa System, <i>Materials</i> 2021, 14, 7610, https://doi.org/10.3390/ma14247610 (Autor corespondent)	3,2	9	17,77
29. BALTATU M.S. , SANDU A.V., NABIALEK M., VIZUREANU P., CIOBANU G., Biomimetic Deposition of Hydroxypapatite Layer on Titanium Alloys, <i>Micromachines</i> 2021, 12, 1447, https://doi.org/10.3390/mi12121447 (Prim autor)	3,0	5	13,88
30. BALTATU M.S. , SPATARU M.C., VERESTIUC L., BALAN V., SOLCAN C., SANDU A.V., GEANTA V., VOICULESCU I., VIZUREANU P., Design, Synthesis, and Preliminary Evaluation for Ti-Mo-Zr-Ta-Si Alloys for Potential Implant Applications, <i>Materials</i> 2021, 14, 6806, https://doi.org/10.3390/ma14226806 (Prim autor)	3,2	9	3,00
31. BALTATU M.S. , VIZUREANU P., SANDU A.V., FLORIDO-SUAREZ N., SACELEANU M.V., MIRZA-ROSCA J.C., New Titanium Alloys, Promising Materials for Medical Devices, <i>Materials</i> 2021, 14, 5934, https://doi.org/10.3390/ma14205934 (Prim autor)	3,2	6	16,00
32. SPATARU M.C., BUTNARU M., SANDU A.V., VULPE V., VLAD M.D., BALTATU M.S. , GEANTA V., VOICULESCU I., VIZUREANU P., SOLCAN C., In-depth Assessment of New Ti-Based Biocompatible Materials, <i>Materials Chemistry and Physics</i> , Volume 258, Article Number: 123959, Published: 2021.	4,7	10	14,54
33. VERESTIUC L., SPATARU M.C., BALTATU M.S. , BUTNARU M., SOLCAN C., SANDU A.V., VOICULESCU I., GEANTA V., VIZUREANU P., New Ti-Mo-Si Materials for Bone Prosthesis Applications, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , Volume 113, Article Number: 104198, Published: 2021, https://doi.org/10.1016/j.jmbm.2020.104198	3,5	9	20,00
34. BALTATU M.S. , VIZUREANU P., SANDU A.V., MUNTEANU C., ISTRATE B., Microstructural Analysis and Tribological Behavior of Ti-Based Alloys with a Ceramic Layer Using the Thermal Spray Method, <i>Coatings</i> 2020, 10, 1216, https://doi.org/10.3390/coatings10121216 (Prim autor)	2,8	5	20,83
35. PALEU C.C., MUNTEANU C., ISTRATE B., BHAUMIK S., VIZUREANU P., BALTATU M.S. , PALEU V., Microstructural Analysis and Tribological Behavior of AMDRY 1371 (Mo-NiCrFeBSiC) Atmospheric Plasma Spray Deposited Thin Coatings, <i>Coatings</i> 2020, 10, 1186, https://doi.org/10.3390/coatings10121186	3,4	7	15,55
36. VIZUREANU P., YAMAGUCHI S., LE P.T.M., BALTATU M.S. , Biocompatibility Evaluation of New TiMoSi Alloys, <i>Acta Physica Polonica A</i> , Volume 138, Issue 2, Pages: 283-286, Published: 2020, http://przrytdwn.icm.edu.pl/AP/PDF/138/app13822p42.pdf	0,5	4	46,25
37. SANDU A.V., BALTATU M.S. , NABIALEK M., SAVIN A., VIZUREANU P., Characterization and Mechanical Properties of New TiMo Alloys Used for Medical Applications, <i>Materials</i> 2019, 12, 2973, https://doi.org/10.3390/ma12182973	3,2	5	25,00
38. FOCŞANEANU S.C., VIZUREANU P., SANDU A.V., CIOBANU G., BALTATU M.S. , VLAD D., Experimental Study on the Influence of Zirconia Surface Preparation on Deposition of Hydroxypapatite, <i>Revista de Chimie</i> , vol. 70, nr.6, Published: 2019, pp. 2273-2275, https://doi.org/10.37358/RC.19.6.7321	1,755	6	29,00
39. BALTATU M.S. , TUGUI C.A., PERJU M.C., BENCHEA M., SPATARU M.C., SANDU A.V., VIZUREANU P., Biocompatible Titanium Alloys Used in Medical Applications, <i>Revista de Chimie</i> 2019, 70, No. 4, Published: 2019, pp. 1302-1306, https://doi.org/10.37358/RC.19.4.7114 (Prim autor)	1,755	7	25,00
40. BALTATU M.S. , VIZUREANU P., MARECI D., BURTRAN L.C., CHIRUȚĂ C., TRINĂŢĂ L.C., Effect of Ta on the Electrochemical Behavior of New TiMoZrTa Alloys in Artificial Physiological Solution Simulating In Vitro Inflammatory Conditions, <i>Materials and Corrosion-Werkstoffe und Korrosion</i> , vol. 67, nr. 12, 2016, pp. 1314-1320, https://doi.org/10.1002/maco.201609041 (Prim autor)	2,00	6	3,88
41. BALTATU M.S. , VIZUREANU P., CIMPOEŞU R., ABDULLAH M.M.A.B., SANDU A.V., The Corrosion Behavior of TiMoZrTa Alloys Used for Medical Applications, <i>Revista de Chimie</i> , vol. 67, nr. 10, 2016, pp. 2100-2102.	1,755	5	5,00

SUBTOTAL articole in jurnale indexate Web of Science / ISI cu factor de impact

1095,85

Articol publicat în revistă cotată ISI – Web of Science, FĂRĂ FACTOR DE IMPACT SAU PROCEEDING		(50*0.1)/ Nautor
1. ARIFFIN N., ABDULLAH M.M.A., ZAINOL B., MOHD ARIF M.R.R., BALTATU M.S. , JAMALUDIN L., <i>Effect of Solid to Liquid Ratio on Heavy Metal Removal by Geopolymer-Based Adsorbent</i> , EUROINVENT ICIR 2018 , Book Series: IOP Conference Series-Materials Science and Engineering.	P: 5/6 =	0,83
2. BALTATU M.S. , VIZUREANU P., BALAN T., LOHAN M., TUGUI C.A., <i>Preliminary Tests for Ti-Mo-Zr-Ta Alloys as Potential Biomaterials</i> , Book Series: IOP Conference Series-Materials Science and Engineering , Volume: 374, Article Number: UNSP 012023, Published: 2018. DOI: 10.1088/1757-899X/374/1/012023	P: 5/5 =	1,00
3. SAVIN A., VIZUREANU P., PREVOROVSKY Z., CHLADA M., KROFTA J., BALTATU M.S. , ISTRATE B., STEIGMANN R., <i>Noninvasive Evaluation of Special Alloys for Prostheses Using Complementary Methods</i> , Book Series: IOP Conference Series-Materials Science and Engineering , Volume: 374, Article Number: UNSP 012030, 2018. DOI: 10.1088/1757-899X/374/1/012030	P: 5/8 =	0,62
4. TUGUI C.A., VIZUREANU P., PERJU M.C., SAVIN C., NEJNERU C., BALTATU M.S. , BEJINARIU C., BENCHEA M., <i>Assessment of Hard Thin Layers Deposited by Plasma Spray on Hydroabration</i> , Book Series: IOP Conference Series-Materials Science and Engineering , Volume: 374, Article Number: UNSP 012029, 2018. DOI: 10.1088/1757-899X/374/1/012029	P: 5/8 =	0,62
5. BALTATU M.S. , VIZUREANU P., GEANTA V., NEJNERU C., TUGUI C.A., FOCSANEANU S.C., <i>Obtaining and Mechanical Properties of Ti-Mo-Zr-Ta Alloys</i> , Book Series: IOP Conference Series-Materials Science and Engineering , Volume: 209, Article Number: 012019, 2017. DOI: 10.1088/1757-899X/209/1/012019	P: 5/6 =	0,83
6. ISTRATE B., MUNTEANU C., GEANTA V., BALTATU M.S. , FOCSANEANU S.C., EARAR K., <i>Microstructural Analysis of Biodegradable Mg-0.9Ca-1.2Zr Alloy</i> , 7th International Conference on Advanced Concepts in Mechanical Engineering , Book Series: IOP Conference Series-Materials Science and Engineering, 147, 012033.	P: 5/6 =	0,83
SUBTOTAL articole in jurnale indexate ISI fara factor sau PROCEEDING		4,73

A2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale

(50 x 0,08/nr. de autori)

14,55

1. SANDU, A.V.; BĂLTATU, M.S. ; PRUTEANU, A.; VIZUREANU, P. <i>Comparative study on commercially Ti-6Al-4V and Ti-Mo alloys for implants. Annals of the Academy of Romanian Scientists. Series on Physics and Chemistry</i> 2025, 10(2). ISSN 2559-1061.	P: 4/4 =	1,00
2. BĂLTATU, M.S. ; MOGA, C.I.; SANDU, A.V.; CIOLACU, F.; ZAMORA-LEDEZMA, C.; VIZUREANU, P. <i>Treatments and methods for improving biofunctional properties of titanium alloys. European Journal of Materials Science and Engineering</i> , 2025, 10(4), 273–290. https://doi.org/10.36868/ejmse.2025.10.04.273	P: 4/6 =	0,66
3. BĂLTATU, M.S. ; SANDU, A.V.; PRUTEANU, A.; ACHITEI, D.C.; PERJU, M.C.; BURDUHOS-NERGIS, D.D.; MINCIUNA, M.G.; VIZUREANU, P. <i>Electrochemical behavior of new biocompatible titanium alloys containing Mo, Zr, Ta, and Nb. European Journal of Materials Science and Engineering</i> 2025, 10(3), 225–234. https://doi.org/10.36868/ejmse.2025.10.03.225	P: 4/8 =	0,50
4. PRUTEANU, A.; BĂLTATU, M.S. ; SANDU, A.V.; VIZUREANU, P. <i>Advanced titanium alloys for medical and industrial use. Buletinul Institutului Politehnic din Iași</i> , 2025, 71(75), 2. Secția Știința și Ingineria Materialelor.	P: 4/4 =	1,00
5. JIMÉNEZ-MARCOS C., MIRZA-ROSCA J.C., BALTATU M.S. , VIZUREANU P., <i>Evaluation of the Mechanical and Corrosion Properties of New Ti Alloys for Orthopedic Devices, Microscopy and Microanalysis</i> , 2024, 30 (Suppl 1), 936–939. DOI: 10.1093/mam/zoae044.461	P: 4/4 =	1,00
6. JIMÉNEZ-MARCOS C., MIRZA-ROSCA J.C., BALTATU M.S. , VIZUREANU P., <i>Evaluation of New Titanium Alloys as Potential Materials for Medical Devices, Microscopy and Microanalysis</i> , 2023, Supplement_1, 29, 196-201. DOI: 10.1093/micmic/ozad067.088	P: 4/4 =	1,00
7. JIMÉNEZ-MARCOS C., BALTATU M.S. , FLORIDO-SUÁREZ N.R., SOCORRO-PERDOMO P.P., VIZUREANU P., MIRZA-ROSCA J.C., <i>Mechanical Properties and Corrosion Resistance of Two New Titanium Alloys for Orthopaedics Applications, Materials Today: Proceedings</i> , 2023. ISSN 2214-7853. DOI: 10.1016/j.matpr.2022.09.394	P: 4/6 =	0,66
8. BALATATU I., BENEĂ L., VIZUREANU P., BALTATU M.S. , NABIALEK M., <i>European Biofunctionalization of Titanium Alloys: Methods and Applications, Journal of Materials Science and Engineering</i> , 2023, Volume 8, Issue 4, 240-248. DOI: 10.36868/ejmse.2023.08.04.240	P: 4/5 =	0,80
9. BALTATU M.S. , VIZUREANU P., SANDU A.V., BALATATU I., BURDUHOS-NERGIS D.D., BENCHEA M., ACHITEI D.C., <i>Prospects on Titanium Biomaterials. European Journal of Materials Science and Engineering</i> , Volume 8, Issue 4, 201-212. DOI: 10.36868/ejmse.2023.08.04.201	P: 4/6 =	0,66
10. ISTRATE B., BENCHEA M., GOANȚĂ V., MUNTEANU C., BĂLTATU M.S. , <i>Study of the Tribological and Mechanical Properties of Some Biodegradable Mg-Ca-Zn Alloys, International Journal of Modern Manufacturing Technologies</i> , 2023, ISSN 2067–3604, Vol. XV, No. 2. DOI: 10.54684/ijmnt.2023.15.2.63	P: 4/5 =	0,80
11. VIZUREANU P., BURDUHOS-NERGIS D.D., SANDU A.V., ACHITEI D.C., BURDUHOS-NERGIS D.P., BALTATU M.S. , PERJU M.C., <i>Mechanical Performance of Coal Ash - Mine Tailings Blended Geopolymer Designed by Taguchi Method, Springer Proceedings in Materials</i> , 2023, vol.38. Springer, Cham. DOI: 10.1007/978-3-031-45964-1_15	P: 4/7 =	0,57
12. BĂLTATU M.S. , VIZUREANU P., BĂLTATU I., BURDUHOS-NERGIS D.D., ACHITEI D.C., PERJU M.C., <i>Electrochemical Behaviour of Ti-Mo Alloys for Medical Application in Biological Solution, EUROINVENT ICIR 2020</i> , Volume: 877, Article Number: 012031, Book Series: IOP Conference Series-Materials Science and Engineering. DOI: 10.1088/1757-899X/877/1/012031	P: 4/6 =	0,66
13. ZAIMI N.S.M., SALLEH M.A.A.M., ABDULLAH M.M.A.B., MOSTAPHA M., BALTATU M.S. , AHMAD R., <i>Void Distributions in Sn-3.0Ag-0.5Cu (SAC305) Composite Lead Free Solder Subjected to Thermal Ageing Using Acoustic Micro Imaging Technique, EUROINVENT ICIR 2020</i> , Volume: 877, Article Number: 012014, Book Series: IOP Conference Series-Materials Science and Engineering. DOI: 10.1088/1757-899X/877/1/012014	P: 4/6 =	0,66
14. BALTATU M.S. , VIZUREANU P., GOANȚĂ V., TUGUI C.A., VOICULESCU I., <i>Mechanical Tests for Ti-Based Alloys as New Medical Materials, EUROINVENT ICIR 2019</i> , Book Series: IOP Conference Series-Materials Science and Engineering, Vol. 572.	P: 4/5 =	0,80

012029. DOI: 10.1088/1757-899X/572/1/012029		
15. BĂLTĂTU I., VIZUREANU P., CIOACU F., ACHITEI D.C., BĂLTĂTU M.S. , VLAD D., <i>In Vitro Study for New Ti-Mo-Zr-Ta Alloys for Medical Use</i> , EUROINVENT ICIR 2019 , Book Series: IOP Conference Series-Materials Science and Engineering, Vol. 572, 012030. DOI: 10.1088/1757-899X/572/1/012030	P: 4/6 =	0,66
16. TUGUI C.A., VIZUREANU P., BĂLTĂTU M.S. , ACHITEI D.C., BURDUHOS-NERGIS D.P., PERJU M.C., <i>Ecological Process of Energy Growth of Hydraulic Turbines Used in Protected Areas in Romania</i> , EUROINVENT ICIR 2019 , Book Series: IOP Conference Series-Materials Science and Engineering, Vol. 572, 012082. DOI: 10.1088/1757-899X/572/1/012082	P: 4/6 =	0,66
17. BĂLTĂTU I., VIZUREANU P., BĂLTĂTU M.S. , ACHITEI D., NABIALEK M., <i>Structural Analysis of Ti-Mo Alloys</i> , European Journal of Materials Science and Engineering , 2019, 4(1), 44-50. DOI: 10.36868/ejms.2019.04.01.044	P: 4/5 =	0,80
18. FOCȘĂNEANU S.C., VIZUREANU P., SANDU A.V., BĂLTĂTU M.S. , <i>Zirconia Dental Implant Materials</i> , Materials Science Forum , 2017, Vol. 907, 99-103. DOI: 10.4028/www.scientific.net/MSF.907.99	P: 4/4 =	1,00
19. BĂLTĂTU M.S. , VIZUREANU P., BENCHEA M., MINCIUNĂ M.G., ACHITEI A.C., ISTRATE B., <i>Ti-Mo-Zr-Ta Alloy for Biomedical Applications: Microstructures and Mechanical Properties</i> , Key Engineering Materials , 2017, Vol. 750, 184-188. DOI: 10.4028/www.scientific.net/KEM.750.184	P: 4/6 =	0,66

A2.3 Brevete de invenție

A2.3.1 Internaționale

A2.3.2 Naționale

1. GEANTĂ V., VOICULESCU I., ȘTEFĂNOIU R., BINCHICIU H., VIZUREANU P., KELEMEN H., CODESCU M.M., SANDU A.V., BĂLTĂTU M.S. , MARINESCU V., Aliaj cu entropie ridicată pentru aplicații medicale chirurgicale din sistemul metalurgic FeMoTaTiZr și tehnologie de obținere, RO134978 A2, 29.11.2019, Romania	25/10	2,5
2. VOICULESCU I., GEANTĂ V., ȘTEFĂNOIU R., KELEMEN H., VIZUREANU P., CODESCU M.M., SANDU A.V., BINCHICIU EMILIA FLORINA, BĂLTĂTU M.S. , Pătroi D., Aliaj cu entropie ridicată din sistemul MoNbTaTiZr microaliat cu ytriu pentru aplicații medicale și procedeu de consolidare, RO134977 A2, 29.11.2019, Romania	25/10	2,5

A2.4 Granturi/proiecte câștigate prin competiție		64,50
A2.4.1 Director/responsabil		12,5
A2.4.1.1 Internaționale		
A2.4.1.2 Naționale	1	
1. Director de proiect Băltatu Mădălina Simona Contract de cercetare „Investigații de laborator pentru elemente metalice active ale instalațiilor de producere a materialelor nemetalice” Director de proiect: Băltatu Mădălina Simona Valoare proiect: 60095 RON inclusiv TVA	(5x0,5 ani=2,5)	2,5
2. Director de proiect: Băltatu Mădălina Simona Model demonstrativ de biofuncționalizare pentru aliaje de Ti-Mo-Zr-Ta cu utilizare în implantologie ortopedică BIO-SIMTTT, Contract nr 5PED/2025 , PN-IV-P7-7.1-PED2024-0080 Valoare proiect: 750000 RON	(5x2 ani=10)	10
A2.4.2 Membru in echipa		52,00
A2.4.2.1. Internaționale		32,00
Proiectul cu Ordinul IUCN nr. 397/27.05.2019, cu titlul: „Study of structure and properties of novel functional biomaterial by neutron scattering and complementary methods”, contract nr. 4860-4-19/20 cod temă 04-4-1121-2015/2020 Director proiect: Vizureanu Petrică Valoare proiect: 5400\$ Durata proiect: 2019 – 2020	(4x2 ani =8)	8
Proiectul cu Ordinul IUCN nr. 395/27.05.2019, cu titlul „Ti-based alloys as a new biomaterials used in medical applications”, cod tema 04-4-1121-2015/2020 Director proiect: Vizureanu Petrică Valoare proiect: 4000\$ Durata proiect: 2019 – 2020	(4x2 ani =8)	8
Proiectul „Environmental footprint reduction through eco-friendly technologies of mine tailings recycling”, COFUND-ERAMIN-3-RecMine Director proiect: Vizureanu Petrică Valoare proiect: 576675 RON Durata proiect: 2022 – 2024	(4x2 ani =8)	8
Proiectul „Harnessing complementary curricular preparedness via sustainable management in response to civil and military pollution on the coastline, tributaries and lagoons in Black Sea's North, West, South zone”, Call: EMFAF-2023-PIA-FLAGSHIP, Type of action: EMFAF-PJG, Proposal number: 101124670, Black Sea SIERRA Director proiect: Vizureanu Petrică Valoare proiect: 60 000 € Durata proiect: 2023 – 2026	(4x1 an =4)	4
Proiectul “A new generation of metallic biomaterials as health solution for a sustainable life”, Project ERA-MIN Joint Transnational Call 2023, Cool&SmartTi Project Director proiect: Vizureanu Petrică	(4x1 an =4)	4

Durata proiect: 2024 – 2027			
A2.4.2.2 Naționale			20,00
<p>Membru în proiectul "Proceduri ecologice de procesare a biomaterialelor metalice", TULIASI-COMPETE, finanțat de Ministerul Cercetării și Inovării în cadrul competiției PNCDI III, Programul 1 - Dezvoltarea sistemului național de cercetare-dezvoltare, Subprogramul 1.2 – Performanță instituțională – Proiecte de dezvoltare instituțională – Proiecte de finanțare a excelenței în CDI;</p> <p>Director proiect: Loghin Maria Carmen</p> <p>Responsabil de proiect: Băltău Mădălina Simona</p> <p>Valoare proiect: 134000 RON</p> <p>Durata proiect: 2018 – 2020</p>			(2x2 ani =4) 4,00
<p>Proiect Complex, PN-III-P1-1.2-PCCDI-2017-0239 / 60PCCDI 2018 ,</p> <p>Director de proiect: Munteanu Corneliu,</p> <p>P2, - "Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale "</p> <p>Suma partener/proiect: 350.000 RON (Total proiect: 5.273.400 RON)</p> <p>Durata proiect: 2018-2021</p>			(2x3 ani =6) 6,00
<p>Proiect Complex, PN-III-P1-1.2-PCCDI-2017-0239 / 60PCCDI 2018 ,</p> <p>Director de proiect: Munteanu Corneliu,</p> <p>P4, "Alianțe biocompatibile cu entropie ridicată cu aplicații medicale"</p> <p>Suma partener/proiect: 217.000 RON (Total proiect: 5.273.400 RON)</p> <p>Durata proiect: 2018-2021</p>			(2x3 ani =6) 6,00
<p>"Materiale metalice biodegradabile inovative din sistemul Mg-Ca-Zn utilizate în aplicații ortopedice", PN-III-P1-1.1-TE-2021-0702,</p> <p>Proiecte de cercetare pentru stimularea tinerelor echipe independente</p> <p>Director de proiect: Istrate Bogdan</p> <p>Valoare proiect: 450000 RON</p> <p>Durata proiect: 2022 – 2024</p>			(2x2 ani =4) 4,00
PUNCTAJ TOTAL Domeniu de activitate A2			1184,63

A3. Recunoașterea și impactul activității			3641,72
A3.1 Citări în reviste ISI și BDI			2312,72
A3.1.1 ISI - SELECȚIE DE CITĂRI 606 (exclus citările tuturor co-autorilor)		Minimum 15	
Citări lucrarea			
Istrate B., Munteanu C., Geanta V., Baltatu M.S., Focșaneanu S.C., Earar K., Microstructural Analysis of Biodegradable Mg-0.9Ca-1.2Zr Alloy, 7th International Conference on Advanced Concepts in Mechanical Engineering, Book Series: IOP Conference Series-Materials Science and Engineering, 147, 012033. (23,31)			
1. Rational Design of Flexible Mechanical Force Sensors for Healthcare and Diagnosis, Zhang, H and Zhang, YH, Jan 2024, MATERIALS, 17(1) 20/6=3,33			
2. Microstructure and Wear Resistance of Ti6Al4V Titanium Alloy Laser-Clad Ni60/WC Composite Coating, Feng, MJ; Ma, YH; (...); Cao, HT, Jan 2024, MATERIALS, 17(1), 20/6=3,33			
3. Evaluation of the biocompatibility and corrosion activity of resorbable CaMgZnYbBa alloys, Szyba, D, Kubina, R; (...); Babilas, R, Dec 5 2022, SCIENTIFIC REPORTS, 12(1), 20/6=3,33		7	23,31
4. The Role of Mg Content and Aging Treatment on the Tensile and Fatigue Properties of Die-Cast 380 Alloy, Samuel, AM; Zedan, Y; (...); Samuel, FH, Dec 2022, MATERIALS, 15(24), 20/6=3,33			
5. Effect of Ca and Zr Additions on Microstructure and Mechanical Properties of As-Extruded Mg-3Sn Alloy, Jia, Z, Yu, YZ; (...); Shao, YC, Sep 2022, MATERIALS, 15(18) 20/6=3,33			
6. Systems, Properties, Surface Modification and Applications of Biodegradable Magnesium-Based Alloys: A Review, Chen, JX; Xu, Y; (...); Yang, K, Jul 2022, MATERIALS, 15(14) 20/6=3,33			
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<p>Citări lucrarea:</p> <p>ZHANG H., SABERI A., HEYDARI Z., BAL TATU M.S., Bredigite-CNTs Reinforced Mg-Zn Bio-Composites to Enhance the Mechanical and Biological Properties for Biomedical Applications, Materials 2023, 16, 1681. https://doi.org/10.3390/ma16041681 (76,25)</p> <ol style="list-style-type: none"> 1. Effect of nano hydroxyapatite addition on microstructural, mechanical, in vitro corrosion and tribological properties of biodegradable Mg₂Zn1Mn/ HA composites, Zalaoglu, D; Ayvaz, M; (...); Dokak, Y, May 1 2026, MATERIALS CHEMISTRY AND PHYSICS, 355, 20/4=5,00 2. Development and characterization of hydroxyapatite and multiwall carbon nanotubes reinforced polypropylene biocomposites, Elmofy, AR; Aziz, MEA; (...); El-Hadad, S, May 28 2025, SCIENTIFIC REPORTS, 15(1), 20/4=5,00 3. Microstructural, mechanical, wear and corrosion properties of Mg₃Zn/ TiB₂-CNT nanocomposites, Özer, E; Ayvaz, M; (...); Özdogru, 	14	76,25

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<p>Citari lucratea:</p> <p>ISTRATE B., MUNTEANU C., BĂLȚATU M.-S., CIMPOEȘU R., IOANID N., Microstructural and Electrochemical Influence of Zn in MgCaZn Biodegradable Alloys, Materials 2023, 16, 2487. https://doi.org/10.3390/ma16062487 (69,00)</p> <ol style="list-style-type: none"> 1. ZnO Thin Films as Promising Corrosion Protection on Mg-Based Alloys, Kania, A; Szindler, MM; (...); Nuckowski, PM, Dec 11 2025, MATERIALS, 18(24), 20/5=4,00 2. Recent Developments in Layered Double Hydroxides as Anticorrosion Coatings, Varone, A; Narducci, R; (...); Richetta, M, Jul 25 2025, MATERIALS, 18(15), 20/5=4,00 3. Layered Double Hydroxide Growth on Equal Channel Angular Pressing-Processed AZ31 Alloy, Berto, F; Bonollo, F; (...); Varone, A, Jun 2025, ADVANCED ENGINEERING MATERIALS, 27(12), 20/5=4,00 4. A surface and corrosion characterisation of micro arc oxidation treated friction stir welded ZM21 and ZE41 magnesium alloy: a comparison study, Monish, P, Krishna, KLH and Rajkumar, K, Aug 1 2024, PHYSICA SCRIPTA, 99(8), 20/5=4,00 5. Structural and temporal dynamics analysis of zinc-based biomaterials: History, research hotspots and emerging trends, Yuan, KS; Deng, CC; (...); Wang, GX, May 2024, BIOACTIVE MATERIALS, 35, pp.306-329, 30/5=6,00 6. Biocompatibility and osteogenic potential of choline phosphate chitosan-coated biodegradable Zn1Mg, Zhong, C; Zhu, HR; (...); Wang, XJ, Feb 2024, ACTA BIOMATERIALIA, 175, pp.395-410, 30/5=6,00 	<p>15</p> <p>69,00</p>

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14. Evaluation of Physicochemical and Biological Properties of Biofunctionalized Mg-Based Implants Obtained via Large-Scale PEO Process for Dentistry Applications, Radwan-Pragłowska, J; Janus, L; (...); Bogdal, D, Jul 2023, JOURNAL OF FUNCTIONAL BIOMATERIALS, 14(7), 30/5=6,00
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PANAITE T., SAVIN C., OLTEANU N.D., KARVELAS N., ROMANEC C., VIERIU R.-M., BALCOS C., BALTATU M.S., BENCHEA M., ACHITEI D., et al., Heat Treatment's Vital Role: Elevating Orthodontic Mini-Implants for Superior Performance and Longevity—Pilot Study, Dent. J., 2024, 12, 103, <https://doi.org/10.3390/d12040103> (8,15)

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6. Improved Strength and Corrosion Resistance of Ti-50Zr Alloy Through Heat Treatment, Li, YH; Zhan ⁵ , Q; (...) Zhang, LC, Nov 2025, ADVANCED ENGINEERING MATERIALS, 27(21), 20/11=1,81		
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2. Deformation Study of Heat-Treated Ti6Al4V Alloy Produced by Selective Laser Melting Method, Abbas, M; Yifan, Z; (...) Zaman, A, Jan 2026 (Early Access), JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, 20/4=5,00
3. A comprehensive review on solid-state recycling of titanium for sustainable engineering applications, Rahimi, H; Sabour, MR; (...) Faraji, G, Sep 2025, RESULTS IN ENGINEERING, 27, 30/4=7,50
4. Industrial-scale trials for the production of oxidized Panzhihua ilmenite concentrate pellets followed by smelting in an EAF for titania slag production, Song, B; Lv, W; (...) Lv, XM, Jun 2025, RESULTS IN ENGINEERING, 26 30/4=7,50
5. Neperthes inspired superhydrophobic surfaces with multiple functions via femtosecond laser and chemical fluorination, Wang, LX,, Zheng, Z; (...) Dong, SY, Jun 2025, RESULTS IN ENGINEERING, 26 30/4=7,50

A3.1.2 BDI

A3.2 Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și Profesor invitat (exclusiv ERASMUS)

A3.2.1 Internaționale

1. Baltatu M.S. , Biomedical Titanium Alloys: From Traditional Processing to Additive Manufacturing, International Conference on Biomaterials & Regenerative Medicine BIOMEDD'2025, October 16-18, 2025, Oradea, România, (Keynote Speaker presentation)		8
2. Baltatu M.S. , "Advanced titanium alloys for orthopedic implants", 4th International Biennial Conference BioMatH "Biomaterials and Novel Technologies for Healthcare", 15-18 Octombrie 2024, Roma, Italia.		8
3. Baltatu M.S. , The latest research on titanium alloys suitable for medical applications, 10th International Conference "Biomaterials, Tissue Engineering & Medical Devices" BIOMMEDD'2024, 10-12 Octombrie 2024, Bucuresti, Romania;		8
4. Baltatu M.S. , Evolution of titanium alloys suitable for medical applications, International Conference on Medical Materials Science & Engineering – 3Edition BIOMAT, 29 Noiembrie 2023, Romania, (Keynote Speaker presentation).		8
5. Băltatu M.S. - Innovative titanium alloys suitable for medical applications, International Conference on Biomaterials and		8

Regenerative Medicine BioReMed 2023, July 15-21, 2023, Sibiu, Romania (Keynote Speaker presentation).		
A3.2.2 Naționale		
A3.2.3 Profesor invitat		
A3.3 Membru în colectivele de redacție sau comitete științifice al revistelor și manifestărilor științifice, organizator de manifestări științifice/ Recenzor pentru reviste și manifestări științifice naționale și internaționale indexate ISI		174,00
A3.3.1 ISI		169,00
1. Reviewer: Advanced Engineering Materials – 5p 2. Reviewer: Alloys 3p 3. Reviewer: Applied Sciences 4. Reviewer: Archives of Civil Engineering 5. Reviewer: Archives of Metallurgy and Materials 6. Reviewer: Bioengineering 7. Reviewer: Biomedical Materials & Devices 3p 8. Reviewer: Biomedicines 9. Reviewer: Biomimetics 10. Reviewer: Biomolecules 11. Reviewer: BioTech - 3p 12. Reviewer: Buildings 13. Reviewer: Coatings 14. Reviewer: Critical Reviews in Biomedical Engineering - 3p 15. Reviewer: Crystals 16. Reviewer: Dentistry Journal 17. Reviewer: International Journal of Agricultural Science and Food Technology - 3p 18. Reviewer: International Journal of Environmental Research and Public Health 19. Reviewer: International Journal of Molecular Sciences 20. Reviewer: Journal of Alloys and Compounds Communications - 3p 21. Reviewer: Journal of Composites Science 22. Reviewer: Journal of Functional Biomaterials 23. Reviewer: Journal of Nanotheranostics - 3p 24. Reviewer: Materials 25. Reviewer: Medicina 26. Reviewer: Metals 27. Reviewer: Micromachines 28. Reviewer: Molecules 29. Reviewer: Physics Open 30. Reviewer: Polymers 31. Reviewer: Processes 32. Reviewer: Science and Technology of Welding and Joining 33. Reviewer: Scientific Reports 34. Reviewer: Sensors 35. Reviewer: Silicon		8x3=24 29x5=145

A3.3.2 BDI			5,00
Membru în colectivul de redacție : European Journal of Materials Science and Engineering (indexat DOAJ, Chemical Abstract)			
A3.3.3 Naționale și internaționale neindexate			5,00
A3.4 Expert evaluare proiecte de cercetare			35,00
A3.4.1 Internaționale			
Polonia 2023 - 3			30,00
A3.4.2 Naționale			
Proiect ARUT 2024			5,00
A3.5 Premii			1070,00
A3.5.1 Academia Romana			
A3.5.2 ASAS, AOSR, academii de ramura și CNC SIS			
A3.5.3 Premii Internaționale Premii, Medalii de aur, argint și bronz la Saloanele Internaționale de Inventii			1060,00
2016	Premiul "Best Poster Presentation"	International Conference on Materials Science and Technologies-ROMAT 2016, 9-12 Noiembrie 2016, București, România	Baltatu M.S.
2019	Medalia de argint	ICE-USV 2019, International Fair of Innovation and Creative Education, 18-20 Iunie 2019 Suceava	Baltatu M.S. , Vizureanu P., Sandu A. V.
2020	Diploma de onoare	INVENTICA 2020, 29-31 iulie 2020	Baltatu M.S. , Vizureanu P., Sandu A. V., Abdullah M.M.A.B., Salleh M.A.A.M.
2020	Medalia de aur	Online Edition of the Innovation Week IWA 2020/01.12.2020,	Sandu A. V., Baltatu M.S. , Balan M., Bernic M., Vizureanu P.
2020	Medalia de aur	Cadet INOVA 2020/26-28.03.2020	Baltatu M.S. , Vizureanu P., Sandu A. V., Abdullah M.M.A.B., Salleh M.A.A.M.
2020	Medalia de argint	Cadet INOVA 2020/26-28.03.2020	Baltatu M.S. , Vizureanu P., Sandu A. V., Abdullah M.M.A.B., Salleh M.A.A.M.
2020	Medalia de aur	Euroinvent 2020/21-23.05.2020	Baltatu M.S. , Vizureanu P., Sandu A. V., Abdullah M.M.A.B., Salleh M.A.A.M.

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2020	Medalia de aur	Euroinvent 2020/21-23.05.2020	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A. V., Bernic M., Balan M.
2020	Medalia de argint	Euroinvent Book Salon 2020/21-23.05.2020	<u>Baltatu M.S.</u> , Vizureanu P.
2020	Medalia de argint	Pi-Envex 2020/18-21.05.2020	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A. V., Bernic M., Balan M.
2020	Medalia de aur	iCAN2020/29.08.2020	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A. V., Bernic M., Balan M.
2020	Medalia de aur	ICE-USV 2020/03-05.08.2020	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A. V., Bernic M., Balan M.
2020	Medalia de aur	INVENTCOR DEVA 2020	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A. V., Bernic M., Balan M.
2020	Medalia de aur	INOVA CROATIA	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A. V., Bernic M., Balan M.
2020	Medalia de bronz	ISIF 2020/05.08-27.09.2020	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A. V., Bernic M., Balan M.
2020	Premiu special	Euroinvent 2020/21-23.05.2020	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A. V., Abdullah M.M.A.B., Salleh M.A.A.M.
2020	Medalia de bronz	Thailand Inventors Day 2020/2-6.08.2020	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A. V., Bernic M., Balan M.
2020	Medalia de aur	WICO 2020/20-22.08.2020	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A. V., Bernic M., Balan M.
2021	Medalia de aur	1 IDEA 1 WORLD (I11W) International Innovation, Design and Startup Competition 23-28.02.2021, Istanbul, Turkey	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A. V., Abdullah M.M.A.B., Salleh M.A.A.M.
2021	Premiu special	1 IDEA 1 WORLD (I11W), International Innovation, Design and Startup Competition 23-28.02.2021, Istanbul, Turkey	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A. V., Abdullah M.M.A.B., Salleh M.A.A.M.
2021	Medalia de aur	2nd Beirut International Innovation Show – BIIS 2021, 10 Aprilie 2021	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A. V., Bernic M., Balan M.
2021	Medalia de aur	EUROINVENT BOOK SALON 2021	Vizureanu P., <u>Baltatu M.S.</u>
2021	EUROINVENT SCIENTIFIC	EUROINVENT 2021, European Exhibition of Creativity and	<u>Baltatu M.S.</u>

	„GRAND PRIZE” 2021	Innovation, Iași, Romania		
2021	Premiu Special EUROINVENT 2021 în Excelență Științifică*	EUROINVENT 2021, European Exhibition of Creativity and Innovation, Iași, Romania * oferit de Senatul Științific al Fundației Dan Voiculescu pentru Dezvoltarea României, cu ocazia celei de-a 13 a ediții a EUROINVENT	<u>Baltatu M.S</u>	
2021	Medalia de aur	EUROINVENT 2021	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A.V., Loghin C.M., Burduhos-Nergis Dumitru Doru, Bernic M., Balan M.	
2021	Medalia de aur	WICO World Invention Creativity Olympic / 08 - 10 Iulie 2021	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A.V., Loghin C.M., Burduhos-Nergis Dumitru Doru, Bernic M., Balan M.	
2021	Premiu Special	WICO World Invention Creativity Olympic / 08 - 10 Iulie 2021	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A.V., Loghin C.M., Burduhos-Nergis Dumitru Doru, Bernic M., Balan M.	
2021	Medalia de aur	INOVA ZAGREB 2021 / Octombrie 2021	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E.	
2021	Medalia de aur	Intarg Poland / 2021	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A.V., Bernic M., Balan M.	
2021	Premiu Special	Intarg Poland / 2021	Vizureanu P., <u>Baltatu M.S.</u> , Sandu A.V., Bernic M., Balan M.	
2021	Medalia de aur	INOINVENT/17-20 Noiembrie 2021	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E., Binchiciu E.F., Patroi D.	
2021	Medalia de argint	Thailand Inventors Day 2021	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A.V., Abdullah M.M.A.B., Salleh M.A.A.M.	
2021	Medalia de	INOVA ZAGREB 2021 / Octombrie	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu	

	argint	2021	
2021	Medalia de aur	Innovation and Creative Education Fair for Youth ICE-USV	H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E., Binchiciu E.F., Patroi D.
2021	Medalia de aur	PROINVENT/ 20-22 Octombrie 2021	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E., Binchiciu E.F., Patroi D.
2021	Medalia de aur	PROINVENT/ 20-22 Octombrie 2021	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E.
2021	Medalia de aur	2021 Kaohsiung International Invention & Design EXPO 2-4 Decembrie 2021	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E.
2021	Medalia de aur	INVENTCOR 16-18.12.2021 Deva, Romania,	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E.
2021	Medalia de aur	INVENTCOR 16-18.12.2021 Deva, Romania	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E., Binchiciu E.F., Patroi D.
2022	Medalia de aur	3rd Beirut International Innovation Show – BIIS 2022, 31 May 2022	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E.
2022	Medalia de aur	5 th China (Shanghai) International Exhibition of Inventions	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E.
2022	Medalia de argint	ICE-USV 2022/iulie 2022	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M.,

2022	Medalia de aur	EUROINVENT BOOK SALON 2022	Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E., Burduhos-Nergis D.D., Burduhos-Nergis D.P., <u>Baltatu M.S.</u> , Vizureanu P.
2022	Medalia de aur	EUROINVENT BOOK SALON 2022	Burduhos-Nergis D.P., Burduhos-Nergis D.D., <u>Baltatu M.S.</u> , Vizureanu P.
2022	Medalia de aur	EUROINVENT BOOK SALON 2022	<u>Baltatu M.S.</u> , Burduhos-Nergis D.D., Burduhos-Nergis D.P., Vizureanu P.
2022	Medalia de argint	EUROINVENT BOOK SALON 2022	Minciuna M.G., Vizureanu P., <u>Baltatu M.S.</u>
2022	Premiu de Excelenta	Innovation Week IWA 2022	Geanta V., Voiculescu I., Stefanioiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E.
2022	Medalia de aur	Innovation Week IWA 2022	Geanta V., Voiculescu I., Stefanioiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E.
2022	Medalia de aur	INTARG 2022	<u>Baltatu M.S.</u>
2022	Best Oral Presentation	9 th International Conference on Materials Science and Technologies, 24-25 Noiembrie 2022, București, România	<u>Baltatu M.S.</u>
2023	Medalia de aur	Euroinvent 2023	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A.V.
2023	Premiu Special	Euroinvent 2023	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A.V.
2023	Premiu Special	Euroinvent 2023	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A.V.
2023	Premiu Special	Euroinvent 2023	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A.V.
2023	Premiu Special	Euroinvent 2023	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A.V.
2023	Premiu Special	PRO INVENT 2023, Cluj Napoca 2023	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A.V., Abdullah M.M.A.B., Salleh M.A.A.M.
2023	Diploma de Excelenta	PRO INVENT 2023, Cluj Napoca 2023	<u>Baltatu M.S.</u> , Vizureanu P., Sandu A.V., Abdullah M.M.A.B., Salleh M.A.A.M.
2023	Premiu Special	PRO INVENT 2023, Cluj Napoca 2023	<u>Baltatu M.S.</u>
2023	Medalia de aur	UGAL INVENT, 9-12 Noiembrie 2023, Galati	Geanta V., Voiculescu I., Stefanioiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., <u>Baltatu M.S.</u> , Marinescu V.E., Binchiciu E.F., Patroi D.

2023	Medalia de aur	UGAL INVENT, 9-12 Noiembrie 2023, Galati	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., Baltatu M.S. , Marinescu V.E.
2023	Medalia de aur	Saudi Global Inventions and Innovation Expo (SGiE, 2023), Jeddah, Saudi Arabia	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., Baltatu M.S. , Marinescu V.E.
2024	Medalia de aur	Euroinvent 2024	Burdunos-Nergis D.D., Sandu A.V., Baltatu M.S. , Achitei D.C., Perju M.C., Brduhos-Nergis D.P., Surleva Andriana, Vizureanu P.
2024	Medalia de aur	„Traian Vuia” International Exhibition of Inventions and Innovations, 13-15 Iunie 2024	Geanta V., Voiculescu I., Stefanoiu R., Binchiciu H., Vizureanu P., Kelemen H., Codescu M.M., Sandu A.V., Baltatu M.S. , Marinescu V.E.
2024	Medalia de aur	Japan Design, Idea & Invetion Expo , 5-7 Iulie 2024	Burdunos-Nergis D.D., Sandu A.V., Baltatu M.S. , Achitei D.C., Perju M.C., Brduhos-Nergis D.P., Surleva Andriana, Vizureanu P.
2024	First Prize	First prize of the Scientific Challenge 2024 Retsch GmbH	Vizureanu P., Baltatu M.S. , Sandu A.V.
2024	Medalia de aur	America Invention Innovation Expo 26-28 August 2024	Burdunos-Nergis D.D., Sandu A.V., Baltatu M.S. , Achitei D.C., Perju M.C., Brduhos-Nergis D.P., Surleva Andriana, Vizureanu P.
2024	Medalia de aur	2024 International Invention Innovation Competition in Canada, ICAN , 24 august 2024	Burdunos-Nergis D.D., Sandu A.V., Baltatu M.S. , Achitei D.C., Perju M.C., Brduhos-Nergis D.P., Surleva Andriana, Vizureanu P.
2024	Medalia de aur	THE 1st INTERNATIONAL INNOVATION AND INVENTION SHOW EURO POLITEHNICUS 2024, Bucuresti, Romania, 22-24 November 2024	Vizureanu P., Baltatu M.S. , Sandu A.V.
2025	Gold medal	23 International Exhibition of Innovation, ARCA 2025, Zagreb Croatia	Madalina Simona BALTATU, Petrica VIZUREANU, Victoras GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU
2025	Silver medal	23 International Exhibition of Innovation, ARCA 2025, Zagreb Croatia	Dumitru Doru BURDUHOS NERGIȘ, Andrei Victor SANDU, Madalina-Simona BALTATU, Dragos-Cristian ACHITEI, Manuela-Cristina

2025	Gold medal	8th China (Shanghai) International Exhibition of Inventions	PERJU, Diana-Petronela BURDUHOS-NERGIŞ, Andriana SURLEVA, Petrica VIZUREANU
2025	Gold medal	Week IWA 2025, 8-12 September 2025	Madalina Simona BALTATU, Petrica VIZUREANU, Victor S ANDU
2025	Gold medal	ICAN Toronto	Madalina Simona BALTATU, Petrica VIZUREANU, Victor S ANDU
2025	Gold medal	49 International Invention Show INOVA Croatia	Dumitru Doru BURDUHOS NERGIŞ, Andrei Victor SANDU, Madalina-Simona BALTATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIŞ, Andriana SURLEVA, Petrica VIZUREANU
2025	Gold medal	18th INTARG® 2025 International Invention and Innovation Contest	Dumitru Doru BURDUHOS NERGIŞ, Andrei Victor SANDU, Madalina-Simona BALTATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIŞ, Andriana SURLEVA, Petrica VIZUREANU
2025	Gold medal	International Invention Fair ISIF Istanbul	Dumitru Doru BURDUHOS NERGIŞ, Andrei Victor SANDU, Madalina-Simona BALTATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIŞ, Andriana SURLEVA, Petrica VIZUREANU
2025	Silver medal	International Invention and Trade Fair London 2025	Dumitru Doru BURDUHOS NERGIŞ, Andrei Victor SANDU, Madalina-Simona BALTATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIŞ, Andriana SURLEVA, Petrica VIZUREANU
2025	Gold medal	International Invention and Trade Fair London 2025	Madalina Simona BALTATU, Petrica VIZUREANU, Victor S ANDU, GEANTĂ, Radu

2025	Gold medal	Kaohsiung International Invention Show KIDE 2025	ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU
2025	Gold medal	Kaohsiung International Invention Show KIDE 2025	Dumitru Doru BURDUHOS NERGIȘ, Andrei Victor SANDU, Madalina-Simona BALTATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLÉVA, Petrica VIZUREANU
2025	Gold medal	Saudi Global Invention and innovation Show, SGIE 2025	Madalina Simona BALTATU, Petrica VIZUREANU, Victorăș GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU
2025	Gold medal	World Invention Creative Olympics, Korea, 17-19, 2025	Dumitru Doru BURDUHOS NERGIȘ, Andrei Victor SANDU, Madalina-Simona BALTATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLÉVA, Petrica VIZUREANU
2025	Gold medal	Development Invention Show, Dubai, DIS EXPO	Dumitru Doru BURDUHOS NERGIȘ, Andrei Victor SANDU, Madalina-Simona BALTATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLÉVA, Petrica VIZUREANU
2025	Gold medal	INTERNATIONAL COMPETITION ON SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (ICSTEM) 2025	Madalina Simona BALTATU, Petrica VIZUREANU, Victorăș GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU
2025	Gold medal	SILKA MAYTOWER HOTEL, KUALA LUMPUR, MALAYSIA, 9-11 OCTOBER 2025 International Exhibition INVENTCOR 6 TH edition, 3-5 April 2025, Deva,	Dumitru Doru BURDUHOS NERGIȘ, Andrei Victor SANDU, Madalina-Simona BALTATU,

		Romania	Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLLEVA, Petrica VIZUREANU		
2025	Gold medal	„Traian Vuia” International Exhibition of Inventions and Innovations, 3-4 October 2025	Madalina Simona BAL TATU, Petrica VIZUREANU, Victoras GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU		
2025	Gold medal	„Traian Vuia” International Exhibition of Inventions and Innovations, 3-4 October 2025	Petrica VIZUREANU, Ioana Corina MOGA, Madalina Simona BAL TATU, Nicoleta Raluca IANU, Andrei Victor SANDU		
2025	Gold medal	“CONSTANTIN BRANCUSI” UNIVERSITY OF TARGU JIU TECHNOLOGICAL FORUM OL TENIA TECHFEST	Madalina Simona BAL TATU, Petrica VIZUREANU, Victoras GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU		
2025	Medalia de aur	UMF CLUJ TECHNOLOGY TRANSFER DAYS	Madalina Simona BAL TATU, Petrica VIZUREANU, Victoras GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU		
2025	Medalia de aur	UGAL INVENT, Salonul Inovari si Cercetari, 23-24 Octombrie 2025, Galati, Romania	Petrica VIZUREANU, Ioana Corina MOGA, Madalina Simona BAL TATU, Nicoleta Raluca IANU, Andrei Victor SANDU		
2025	Medalia de aur	UGAL INVENT, Salonul Inovari si Cercetari, 23-24 Octombrie 2025, Galati, Romania	Madalina Simona BAL TATU, Petrica VIZUREANU, Victoras GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU		
2025	Medalia de aur	UGAL INVENT, Salonul Inovari si Cercetari, 23-24 Octombrie 2025, Galati, Romania	Dumitru Doru BURDUHOS NERGIS, Andrei Victor SANDU, Madalina-Simona BAL TATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLLEVA, Petrica VIZUREANU		
2025	Gold medal	IPITEX - Thailand Inventors Day, 2-6 February 2025	Dumitru Doru BURDUHOS NERGIS, Andrei Victor SANDU, Madalina-Simona BAL TATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLLEVA, Petrica VIZUREANU		
2025	Medalia de aur	PROINVENT, EDITIA XXII 15-17	Dumitru Doru BURDUHOS NERGIS, Andrei		

		Octombrie Cluj-Napoca	Victor SANDU, Madalina-Simona BAL TATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLIVA, Petrica VIZUREANU
2025	Medalia de aur	PROINVENT, EDITIA XXII 15-17 Octombrie Cluj-Napoca	Petrica VIZUREANU, Ioana Corina MOGA, Madalina Simona BAL TATU, Nicoleta Raluca IIANU, Andrei Victor SANDU
2025	Medalia de bronz	INFOINVENT/ 3-5 Decembrie 2025, Chisinau	Madalina Simona BAL TATU, Petrica VIZUREANU, Victoras GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU
2025	Gold medal	CADET INOVA'25 – The Nicolae Balcescu Land Forces Academy of Sibiu, Romania, 10-12 Aprilie 2025	Dumitru Doru BURDUHOS NERGIȘ, Andrei Victor SANDU, Madalina-Simona BAL TATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLIVA, Petrica VIZUREANU
2025	Gold medal	ICE – USV, 9 th edition, 23-25 Mai 2025	Dumitru Doru BURDUHOS NERGIȘ, Andrei Victor SANDU, Madalina-Simona BAL TATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLIVA, Petrica VIZUREANU
2025	Diploma de excelenta	Book salon 2025, Euroinvent 2025, 9 Mai 2025	Petrica VIZUREANU, Madalina Simona BAL TATU
2025	Gold medal	Book salon 2025, Euroinvent 2025, 9 Mai 2025	Iustinian Baltatu, Madalina Simona Baltatu, Petrica Vizureanu
2025	Gold medal	Book salon 2025, Euroinvent 2025, 9 Mai 2025	Petrica VIZUREANU, Madalina Simona BAL TATU
2025	Gold medal	INVENTICA 2025, Iasi	Madalina Simona BAL TATU, Petrica VIZUREANU, Victoras GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU
2025	Gold medal	Euroinvent 2025, 9 Mai 2025	Madalina Simona BAL TATU, Petrica VIZUREANU, Victoras GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU
2026	Gold medal	Bangkok International Intellectual	Madalina Simona BAL TATU, Petrica

		Property, Invention, Innovation and Techlogy Exposition (IPITex) , 5-9 January 2026	VIZUREANU, Victoraș GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU	
2026	Gold medal	International Exhibition INVENTCOR 7 TH edition, 2-4 April 2026, Deva, Romania	Petrica VIZUREANU, Madalina Simona BAL TATU, Andrei Victor SANDU, Dragos- Cristian ACHITEI, Manuela Cristina PERJU, Corina Ioana MOGA, Dumitru Doru BURDUHOS-NERGIS	
2026	Gold medal	INNOBAVARIA, 27-28 March 2026 Munich, Bavaria, Germania	Madalina Simona BAL TATU, Petrica VIZUREANU, Victoraș GEANTĂ, Radu ȘTEFĂNOIU, Ionelia VOICULESCU, Andrei Victor SANDU	
2026	Gold medal	INNOBAVARIA, 27-28 March 2026 Munich, Bavaria, Germania	Dumitru Doru BURDUHOS NERGIȘ, Andrei Victor SANDU, Madalina-Simona BAL TATU, Dragos-Cristian ACHITEI, Manuela-Cristina PERJU, Diana-Petronela BURDUHOS-NERGIS, Andriana SURLIVA, Petrica VIZUREANU	
A3.5.4 Premii naționale în domeniu				10,00
1. Premiul de Excelență 2022, oferit de Universitatea Tehnică "Gheorghe Asachi" din Iași, noiembrie 2022, pentru categoria "Tânărul cercetător cu cele mai bune performanțe în cercetarea științifică" din perioada 2019-2021				5,00
2. Mențiune specială la Premiile "Rada Mihalcea pentru Tineri Cercetători în Știință și Inginerie", Cluj Napoca, 31.07.2023				5,00
A3.6 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării				10,00
A3.6.1 Academia Romana				
A3.6.2 ASAS, AOSR și academii de ramură				
A3.6.3 Conducere asociații profesionale				
A3.6.3.1 Internaționale				
A3.6.3.2 Naționale				
A3.6.4 Asociații profesionale				
A3.6.4.1 Internaționale				
A3.6.4.2 Naționale				
Forumul Inventatorilor Români				10,00

Asociația Profesională ModTech Iasi Societatea Română de Biomateriale Asociația Turnătorilor din România Asociația Generală a inginerilor din Romania		
A3.6.5 Organizații în domeniul educației și cercetării		
A3.6.5.1 Conducere		
A3.6.5.2 Membru		
PUNCTAJ TOTAL Domeniu de activitate A3		3641,72

Data: 02.06.2026

Semnătura: BĂLȚĂȚU MĂDĂLINA SIMONA