

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI  
FACULTATEA DE ȘTIINȚA ȘI INGINERIA MATERIALELOR  
DEPARTAMENTUL DE INGINERIA MATERIALELOR ȘI SECURITATE INDUSTRIALĂ

Examen de promovare pentru ocuparea postului de **CONFERENȚIAR**, poz. 8

Disciplinele postului: 1. Tehnologia informației și sisteme interactive  
2. Noțiuni generale de evaluare a securității în industrie  
3. Simulare și experiment în analiza tensiunilor și deformațiilor (2)

**FIȘA DE VERIFICARE**  
**a îndeplinirii standardelor minime naționale de prezentare la examenul de promovare pe postul de conferențiar universitar**

Candidat: **CAZAC ALIN - MARIAN** Data nașterii: **07.02.1986**

Funcția actuală: **șef de lucrări**, Data numirii în funcția actuală: **22.02.2021** Instituția: **Universitatea Tehnică „Gheorghe Asachi” din Iași.**

**Tabelul 1.** Condiții minime / punctaje obținute  
(conform Anexa nr. 7. Comisia Ingineria Materialelor, OM 3019/2025 Standarde minime)

Condiții minime (Ai)					
Nr. Crt.	Categorie				
	Domeniul de activitate	Condiții conferențiar	Punctaj obținut candidat	Criteriu de îndeplinire	
1.	Activitatea didactică /profesională (A1)	Minim 30 puncte	42,43	141,43 %	Îndeplinit
2.	Activitatea de cercetare (A2)	Minim 160 puncte	309,58	193,49 %	Îndeplinit
3.	Recunoașterea impactului activității (A3)	Minim 60 puncte	167,16	278,60 %	Îndeplinit
Total		250 puncte	519,17	207,67 %	Îndeplinit

Data: 12.01.2026  
Șef lucrări dr. ing. CAZAC ALIN MARIAN



Condiții minime obligatorii pe subcategorii pentru conferențiar		Necesar	Realizat
A1	1.1. Cărți și capitole în cărți de specialitate în edituri recunoscute		
	1.1.1. Cărți / capitole ca autor pentru conferențiar	1	1
	1.1.1.2. Naționale: <i>pentru Conferențiar minim 1</i>		
	1.2. Suport didactic	1	1
	1.2.1. Manuale didactice, monografii, inclusiv electronice: <i>pentru Conferențiar minim 1</i>		
A2	2.1. Articole în reviste cotate ISI Thomson Reuters-Web of Science Core Collection [FI – Factor de impact] și în volume indexate ISI proceedings Web of Science în specificul postului scos la concurs	10 articole min. 3 cu FI>1 min. 2 autor principal FI > 0,5	24 articole cu FI din care 6 ca autor principal cu FI > 1
	2.1.2. <i>Minim 10 articole pentru Conferențiar / CSII din care min. 5 în Reviste cotate ISI Thomson Reuters [din care min. 3 cu FI&gt;1, min. 2 ca autor principal cu FI&gt;0,5]</i>		
	2.4. Granturi/proiecte de cercetare câștigate prin competiție/ Contracte cu agenți economi, min 10.000 echivalent Euro, încasați	1	1
	2.4.1. <i>Director/responsabil partener: minim 1 pentru Conferențiar/CS II</i>		
A3	3.1. Citări în reviste cotate ISI Thomson Reuters-Web of Science Core Collection [FI – Factor de impact] și în alte BDI (FI se referă la revista în care a fost publicat articolul care citează) Se exclud autocitățile tuturor co-autorilor. Lucrările citate: articol de revistă, conferință, carte, teză, brevet de invenție; <i>Minim 15 citări pentru Conferențiar, în ISI Thomson Reuters-Web of Science Core Collection și SCOPUS</i>	15	29

Data: 12.01.2026  
Șef lucrări dr. ing. CAZAC ALIN MARIAN





**Tabelul 2.** Detalierea valorilor “***Punctaj obținut***” din Tabelul 1  
(conform Anexa nr. 7. Comisia Ingineria Materialelor, conform OM 6129-2016)

Structura activității	Restricții Conf.	Punctaj obținut
<b>A1. Activitatea didactică și profesională</b>		
<b>A1.1 Cărți / capitole în cărți de specialitate în edituri recunoscute</b>		<b>25,35</b>
<b>A1. 1.1.1.Cărți/capitole ca autor</b>		
<b>A1-1.1.1.1. Internaționale</b>		
1. Lazăr Petru, <b>Cazac Alin-Marian</b> , Bejinariu Costică, Obtaining and Characterization of Phosphate Layers on the Surface of Steels for Reinforced Concrete, 2025, <i>Materials Research Foundations</i> . <span style="float: right;">Punctaj: <math>120/(2 \times 3) = 20,00</math></span>	<b>1</b>	<b>20,00</b>
<b>A1-1.1.1.2. Naționale</b>	Minim 1	
1. Maricel Agop, Mihaela Luminița Bărhălescu, Răzvan Buga, Călin Gheorghe Buzea, <b>Alin Marian Cazac</b> , Lucian Dobreci, Bogdan Doroftei, Lucian Eva, Dragos Teodor Iancu, Lăcrămloara Ochiuz, Ovidiu Popa, Dragos Rusu, Ioana Stirban, Creierul si rețelele adversare generative: tipologii si implementari in creatia digitala, 2024, Editura Ars Longa, ISBN 978-973-148-462-4. <span style="float: right;">Punctaj: <math>348/(5 \times 13) = 5,35</math></span>	<b>1</b>	<b>5,35</b>
<b>A1.2. Suport didactic</b>		<b>17,08</b>
<b>A1. 1.2.1.Manuale didactice, inclusiv în format electronic</b>	Minim 1	
1. <b>Cazac Alin Marian</b> , <i>Tehnologia informatiei si sisteme interactive</i> , 2025, Editura Tehnopress, ISBN 978-606-687-537-0. <span style="float: right;">Punctaj: <math>135/(10 \times 1) = 13,50</math></span>	<b>1</b>	<b>13,50</b>
<b>A1. 1.2.2.Îndrumare de laborator/ aplicații/ culegeri de probleme</b>		
1. Bejinariu C., Mălureanu I., Moldoveanu V.V., Toma Ș.L., Gheorghiu D.A., Lohan N.M., Corăbieru A., <b>Cazac A.M.</b> , Burduhos-Nergiş D.P., <i>Tehnologia Materialelor * Știința și Ingineria Materialelor, Lucrări practice</i> , Ed. Tehnopress, 2022, ISBN 978-606-687-500-4 <span style="float: right;">Punctaj: <math>344/(20 \times 9) = 1,91</math></span>	<b>2</b>	<b>1,91</b>
2. Gheorghiu D.A., Bernevig M. A., Matcovschi E., Lohan N.M., <b>Cazac A.M.</b> , Popa M., <i>Lucrări practice de sudură</i> , Ed. PIM, 2021, ISBN 978-606-13-6103-8 <span style="float: right;">Punctaj: <math>200/(20 \times 6) = 1,67</math></span>		<b>1,67</b>
<b>PUNCTAJ TOTAL Domeniu de activitate A1</b>	<b>Minim 30</b>	<b>42,43</b>



A2. Activitatea de cercetare	FI	Nr. autori	Punctaj
<p>A2.1 Articole în reviste cotate ISI Web of Science și în volume indexate ISI proceedings (<b>Punctaj = 50*FI/nr. autori</b>)</p> <p>Minim 10 articole pentru Conferențiar / CSII din care min. 5 în Reviste cotate ISI Thomson Reuters [din care min. 3 cu FI&gt;1, min. 2 ca autor principal cu FI&gt;0,5]</p> <p><b>Îndeplinit:</b></p> <p><b>24 articole indexate Web of Science (16 articole cu FI + 8 articole în Proceedinguri și Reviste fără FI),</b>  <b>6 de articole ca autor principal (2 prim-autor, 4 autor corespondent), din care 6 cu FI &gt; 1</b>  <b>11 articole publicate în Jurnale cu FI &gt; 1</b></p>			
<p>1. <b>Cazac A.M.</b>, Cioca L.I., Lazar P., Badarau G., Cimpoesu N., Burduhos-Nergis D.P., Iagaru P., Cimpoesu R., Cazac A., Bejinariu C., Milea A., <i>Effect of Zinc, Magnesium, and Manganese Phosphate Coatings on the Corrosion Behaviour of Steel</i>, <b>Materials</b>, 2025, 18(11), 3126. <a href="https://doi.org/10.3390/ma18133126">https://doi.org/10.3390/ma18133126</a>, WOS:001527264500001.</p> <p>Punctaj: (50x3,2)/11=14,55</p>	3,2	11	14,55
<p>2. Ion Dosa, Dan Codrut Petrilean, Andreea Cristina Tataru, Gabriel Dragos Vasilescu, Nelu Mija, <b>Alin Marian Cazac</b>*, Oana Rusu, Anca-Cristina Tatarcan, Costica Bejinariu, <i>Assessment of steam turbine performance degradation in long-term operation</i>, <b>Energy</b>, 2025, 327, 136491. <a href="https://doi.org/10.1016/j.energy.2025.136491">https://doi.org/10.1016/j.energy.2025.136491</a>, WOS:001491390700004.</p> <p>Punctaj: (50x9,4)/9=52,22</p>	9,4	9	52,22
<p>3. Petrilean DC, Fiță ND, Vasilescu GD, Ilieva-Obretenova M, Tataru D, Cruceru EA, Mateiu CI, Nicola A, Darabont D-C, <b>Cazac A-M</b>*, et al. <i>Sustainability Management Through the Assessment of Instability and Insecurity Risk Scenarios in Romania's Energy Critical Infrastructures</i>, <b>Sustainability</b>; 2025; 17(7):2932. <a href="https://doi.org/10.3390/su17072932">https://doi.org/10.3390/su17072932</a>, WOS:001465626500001.</p> <p>Punctaj: (50x3,3)/11=15,00</p>	3,3	11	15,00
<p>4. Lazar Petru, Cimpoesu Nicanor, Istrate Bogdan, <b>Cazac Alin-Marian</b>*, Burduhos-Nergis Diana-Petronela, Benchea Marcelin, Berbecaru Andrei-Constantin, Badarau Gheorghe, Vasilescu Gabriel, Popa Mihai, Bejinariu Costica, <i>Microstructural and Mechanical Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions</i>, <b>Coatings</b>, 2024, 14(2), 182, <a href="https://doi.org/10.3390/coatings14020182">https://doi.org/10.3390/coatings14020182</a>, WOS:001172369600001.</p> <p>Punctaj: (50x2,8)/11=12,73</p>	2,8	11	12,73
<p>5. Dmour A, Toma Ș-L, <b>Cazac A-M</b>, Tirnovanu SD, Dima N, Dmour B-A, Popescu DC, Alexa O. <i>Comparative Biomechanical Analysis of Kirschner Wire Fixation in Dorsally Displaced Distal Radius Fractures</i>. <b>Life</b>. 2024; 14(12):1684. <a href="https://doi.org/10.3390/life14121684">https://doi.org/10.3390/life14121684</a>, WOS:001387769800001.</p> <p>Punctaj: (50x3,4)/8=21,25</p>	3,4	8	21,25
<p>6. <b>Cazac A-M</b>, Chelariu RG, Cimpoesu R, Bernevig MA, Benchea M, Jurca AM, Radu AM, Vasilescu GD, Garaliu-Busoi B, Lupu FC, Badarau G., Bejinariu C., <i>Investigation of CuTi Alloy for Applications as Non-Sparking Material</i>. <b>Applied Sciences</b>. 2024; 14(24):11574. <a href="https://doi.org/10.3390/app142411574">https://doi.org/10.3390/app142411574</a>, WOS:001385553300001.</p> <p>Punctaj: (50x2,5)/12=10,42</p>	2,5	12	10,42
<p>7. Cimpoesu R, Luțcanu M, <b>Cazac AM</b>, Adomniței I, Bejinariu C, Andrușcă L, Prelipceanu M, Cioca L-I, Chicet DL, Radu AM, Cimpoesu N., <i>Electrochemical Corrosion Resistance of Al2O3–YSZ Coatings on Steel Substrates</i>: <b>Applied Sciences</b>, 2024; 14(23):10877. <a href="https://doi.org/10.3390/app142310877">https://doi.org/10.3390/app142310877</a>, WOS:001376235400001.</p> <p>Punctaj: (50x2,5)/11=11,34</p>	2,5	11	11,34
<p>8. Cimpoesu N, Paleu V, Panaghie C, Roman A-M, <b>Cazac AM</b>, Cioca L-I, Bejinariu C, Lupescu SC, Axinte M, Popa M, Zegan G., <i>Mechanical Properties and Wear Resistance of Biodegradable ZnMgY Alloy</i>. <b>Metals</b>. 2024; 14(7):836. <a href="https://doi.org/10.3390/met14070836">https://doi.org/10.3390/met14070836</a>, WOS:001277266300001.</p>	2,5	11	11,34



A2. Activitatea de cercetare	FI	Nr. autori	Punctaj
Punctaj: (50x2,5)/11=11,34			
9. Chelariu RG, Cimpoesu R, Jurca AM, Popa CM, Benchea M, Badarau G, Istrate B, <b>Cazac AM</b> , Cimpoesu N, Pintilie D-D, Vasilescu G.D., Bejinariu C., <i>Analysis of Chemical, Microstructural and Mechanical Properties of a CuAlBe Material Regarding Its Role as a Non-Sparking Material</i> . <b>Materials</b> . 2024; 17(10):2220. <a href="https://doi.org/10.3390/ma17102220">https://doi.org/10.3390/ma17102220</a> , WOS:001231779300001.	3,2	12	13,33
Punctaj: (50x3,2)/12=13,33			
10. Stefana AGOP, Maria-Alexandra PAUN, Costica BEJINARIU, Tudor-Cristian PETRESCU, Cristina Marcela RUSU, <b>Alin Marian CAZAC</b> , Catalin-Gabriel DUMITRAS, Adrian-Constantin HANGANU, Vladimir-Alexandru PAUN, Maricel AGOP4, Viorel-Puiu PAUN; <i>Constitutive material laws in the multifractal theory of motion (part II)</i> , Univ. Politeh. Buchar. Sci. Bull. <b>Ser. A-Appl. Math. Phys</b> , 2024, 86 (1), 137-150, WOS:001310032700001.	0,28	11	1,27
Punctaj: (50x0,28)/11=1,27			
11. Bejinariu Costica, Darabont Doru-Costin, Burduhos-Nergis Diana-Petronela, <b>Cazac Alin-Marian</b> , Chiriac-Moruzzi Cristiana, <i>Considerations Regarding the Application of the Occupational Injury and Illness Risk Assessment Method at Workplaces/Workstations, in Relation to the ISO 45001 Standard</i> , <b>Sustainability</b> , 2023, 15(3), 2121 <a href="https://doi.org/10.3390/su15032121">https://doi.org/10.3390/su15032121</a> , WOS:000930875800001.	3,3	6	32,50
Punctaj: (50x3,3)/6=32,50			
12. Rotundu Ana, Agop Stefana, Maria-Alexandra Paun, Costica Bejinariu, Tudor-Cristian Petrescu, Cristina Marcela Rusu, <b>Alin Marian Cazac</b> , Vladimir-Alexandru Paun, Maricel Agop, Viorel-Puiu Paun, <i>Constitutive material laws in the multifractal theory of motion (part I)</i> , Univ. Politeh. Buchar. Sci. Bull. <b>Ser. A-Appl. Math. Phys</b> , 2023, 85, 213-224, WOS:001133100100001.	0,34	10	1,70
Punctaj: (50x0,34)/10=1,70			
13. Burduhos-Nergis Diana-Petronela, Bejinariu Costica, <b>Cazac Alin-Marian</b> , Sandu Andrei-Victor, Vizureanu Petrica, <i>XRD and STA Characterization of Phosphate Layers Deposited on the Carbon Steel Surface</i> , <b>Archives of Metallurgy and Materials</b> , 2023, 68(3), 955-960. <a href="https://doi.org/10.24425/amm.2023.145459">https://doi.org/10.24425/amm.2023.145459</a> , WOS:001106664500006.	0,7	5	7,00
Punctaj: (50x0,7)/5=7,00			
14. Toma .L., Chicet DL, <b>Cazac AM</b> * <i>Numerical Calculation of the Arc-Sprayed Particles' Temperature in Transient Thermal Field</i> , <b>Coatings</b> , 2022, 12(7), 877; <a href="https://doi.org/10.3390/coatings12070877">https://doi.org/10.3390/coatings12070877</a> , WOS:000833785700001.	2,8	3	46,67
Punctaj: (50x2,8)/13=46,67			
15. Burduhos Nergis Diana-Petronela, Nejneru Carmen, Cimpoesu Ramona, <b>Cazac Alin Marian</b> , Baci Constantin, Darabont Doru-Costin, Bejinariu Costica, <i>Analysis of Chemically Deposited Phosphate Layer on the Carabiners Steel Surface Used at Personal Protective Equipments</i> , <b>Quality Access to Success</b> , 2019, 20(1), 77-82, WOS:000459686300013.	0,58	7	4,14
Punctaj: (50x0,58)/7=4,14			
16. Mihai-Adrian Bernevig-Sava; Iulian Ionita; Constantin Baci; Costin Doru Darabont; Alexandru Laluci; <b>Alin Marian Cazac</b> ; Costica Bejinariu, <i>Improving safety in the workplace using checklists legal requirements</i> , <b>Quality Access to Success</b> , 2017, 18 (1), 31-34, WOS:000417405000005.	0,22	7	1,57
Punctaj: (50x0,22)/7=1,57			
SUBTOTAL articole in jurnale indexate Web of Science / ISI cu factor de impact			257,03



<b>A2. Activitate de cercetare</b>		
<b>Articol publicat în revistă cotate ISI – Web of Science, FĂRĂ FACTOR DE IMPACT SAU PROCEEDING</b>	<b>(50*0.1)/ N<sub>autori</sub></b>	
17. <b>A M Cazac</b> , A Alexandru, M-A Bernevig-Sava, S L Toma, V Goanta and C Bejinariu, <i>Influence of nanostructuration on the sound velocity in copper Cu_99.75</i> , 2018 <b>IOP Conf. Ser.: Mater. Sci. Eng.</b> 400 072002, DOI 10.1088/1757-899X/400/7/072002, WOS:000461147400176	Punctaj: (50x0,1)/6=0,83	<b>0,83</b>
18. Albulescu, AG; Popescu, I; Corabieru, A; <b>Cazac, AM</b> ; Bernevig-Sava, MA, <i>You have many accidents, you pay little, you have no accidents, you pay the same</i> , <b>MSE 2019</b> , 290, DOI10.1051/mateconf/201929012005, WOS:000569367700134	Punctaj: (50x0,1)/5=1,00	<b>1,00</b>
19. <b>Cazac, AM</b> , Alexandru, A, Baci, C, Sandu, AV, Bejinariu, C, <i>Influence of Nanostructuration on the Sound Velocity in Aluminum Al_99.50</i> , <b>2018 IOP Conf. Ser.: Mater. Sci. Eng.</b> 374 012038, DOI 10.1088/1757-899X/374/1/012038, WOS:000446775900038	Punctaj: (50x0,1)/5=1,00	<b>1,00</b>
20. P Lazar, C Bejinariu, A V Sandu, <b>A M Cazac</b> , O Corbu, I G Sandu and M C Perju, <i>Corrosion Evaluation of Some Phosphated Thin Layers on Reinforcing Steel</i> , 2017 <b>IOP Conf. Ser.: Mater. Sci. Eng.</b> 209 012025, DOI 10.1088/1757-899X/209/1/012025, WOS:000423732100025	Punctaj: (50x0,1)/4=1,25	<b>1,25</b>
21. <b>Alin Marian Cazac</b> , Constantin Baci, Mihai Adrian Bernevig-Sava, Raluca Elena Baci, Margareta Lupu-Polici, Costică Bejinariu, <i>Determination of friction coefficient between copper semi-finished and plastic deformation tools</i> , <b>AIP Conference Proceedings</b> , 2017, 1835 (1), 020052, <a href="https://doi.org/10.1063/1.4983792">https://doi.org/10.1063/1.4983792</a> , WOS:000405780000052	Punctaj: (50x0,1)/5=1,00	<b>1,00</b>
22. <b>Cazac, AM</b> ; Bejinariu, C; Baci, C; Toma, SL; Florea, CD; <i>Experimental Determination of Force and Deformation Stress in Nanostructuring Aluminum by Multiaxial Forging Method</i> , <i>Applied Mechanics and Materials</i> , 2014, 657, 137-141, <a href="https://doi.org/10.4028/www.scientific.net/AMM.657.137">https://doi.org/10.4028/www.scientific.net/AMM.657.137</a> , WOS:000348898000027.	Punctaj: (50x0,1)/5=1,00	<b>1,00</b>
23. <b>Alin Cazac</b> , Costică Bejinariu, Iulian Ionita, Stefan Lucian Toma, Cosmin Rodu, <i>Design and Implementation of a Device for Nanostructuring of Metallic Materials by Multiaxial Forging Method</i> , <i>Applied Mechanics and Materials</i> , 2014, 657, 193-197, <a href="https://doi.org/10.4028/www.scientific.net/AMM.657.193">https://doi.org/10.4028/www.scientific.net/AMM.657.193</a> , WOS:000348898000038.	Punctaj: (50x0,1)/5=1,00	<b>1,00</b>
24. Iuliana Silvia Georgescu, <b>Alin Cazac</b> , Elena Raluca Baci, Costică Bejinariu, Constantin Baci, Stefan Lucian Toma, <i>Experimental Studies on Adherence Resistance of Thermally Sprayed Metallic Coatings</i> , <i>Applied Mechanics and Materials</i> , 2014, 657, 271-275, <a href="https://doi.org/10.4028/www.scientific.net/AMM.657.271">https://doi.org/10.4028/www.scientific.net/AMM.657.271</a> , WOS:000348898000053.	Punctaj: (50x0,1)/6=0,83	<b>0,83</b>
<b>SUBTOTAL articole in jurnale indexate ISI fara factor sau PROCEEDING</b>		<b>7,91</b>
<b>A2.2. Articole publicate în reviste și volume ale unor manifestări științifice indexate în alte BDI</b>	<b>(50*0.08)/ N<sub>autori</sub></b>	
25. Romeo Gabriel Chelariu, Nicanor Cimpoeșu, <b>Alin Marian Cazac</b> , Mihai Adrian Bernevig, Costică Bejinariu, <i>Optical evaluation of the surfaces of the CuAlBe samples after the test of resistance to harsh wear stresses in an explosive atmosphere</i> , <b>MATEC Web of Conf.</b> , 2024, 389, 00067, <a href="https://doi.org/10.1051/mateconf/202438900067">https://doi.org/10.1051/mateconf/202438900067</a> .	Punctaj: (50x0.08)/5=0,80	<b>0,80</b>



<b>A2. Activitate de cercetare</b>		
26. Lazar Petru, Bejinariu Costica, <b>Cazac Alin Marian</b> , Sandu Andrei Victor, Bernevig Mihai Adrian, Burduhos-Nergis Diana-Petronela, <i>Phosphate coatings for the protection of steels reinforcement for concrete</i> , <b>Euroinvent ICIR IOP Conference Series: Journal of Physics</b> 2021 1960 012013, 2021 doi:10.1088/1742-6596/1960/1/012013.	Punctaj: (50x0.08)/6=0,67	<b>0,67</b>
27. Armand-Radu Haraga, <b>Alin-Marian Cazac</b> , Nicoleta-Monica Lohan, Anișoara Corăbieru, Stefan-Lucian Toma, <i>Selection of Personal Protective Equipment – a complex issue of multi-criteria analysis</i> <b>MATEC Web of Conf.</b> , 2021, 343, 10012, <a href="https://doi.org/10.1051/mateconf/202134310012">https://doi.org/10.1051/mateconf/202134310012</a> .	Punctaj: (50x0.08)/5=0,80	<b>0,80</b>
28. Romeo Gabriel Chelariu, Costica Bejinariu, Mihai Adrian Bernevig, Stefan Lucian Toma, <b>Alin Marian Cazac</b> , Nicanor Cimpoesu, <i>Analysis of non-sparking metallic materials for potentially explosive atmospheres</i> , <b>MATEC Web of Conf.</b> , 2021, 343, 10014, <a href="https://doi.org/10.1051/mateconf/202134310014">https://doi.org/10.1051/mateconf/202134310014</a> .	Punctaj: (50x0.08)/6=0,67	<b>0,67</b>
29. Nicoleta-Monica Lohan, Stefan-Lucian Toma, Mihai Popa, <b>Alin Marian Cazac</b> , Bogdan Pricop, <i>Influence of alloying elements on the thermal behavior of NiTi shape memory alloys</i> , <b>MATEC Web of Conf.</b> , 2021, 342, 06007, <a href="https://doi.org/10.1051/mateconf/202134206007">https://doi.org/10.1051/mateconf/202134206007</a> .	Punctaj: (50x0.08)/5=0,80	<b>0,80</b>
30. Burduhos-Nergis Diana-Petronela, <b>Cazac Alin-Marian</b> , Corabieru Anisoara, Matcovschi Elena, Bejinariu Costica, <i>Characterization of Zinc and Manganese Phosphate Layers Deposited on the Carbon Steel Surface</i> , <b>Euroinvent ICIR IOP Conference Series: Materials Science and Engineering</b> 2020, 877 012012, , <a href="http://dx.doi.org/10.1088/1757-899X/877/1/012012">http://dx.doi.org/10.1088/1757-899X/877/1/012012</a> .	Punctaj: (50x0.08)/5=0,80	<b>0,80</b>
31. Radu Armand Haraga, Costica Bejinariu, <b>Alin Marian Cazac</b> , Bogdan Florin Toma, Constantin Baciuc, Stefan Lucian Toma, <i>Influence of surface roughness and current intensity on the adhesion of high alloyed steel deposits - obtained by thermal spraying in electric arc</i> , <b>2019 IOP Conf. Ser.: Mater. Sci. Eng.</b> , 572, 012056, DOI 10.1088/1757-899X/572/1/012056.	Punctaj: (50x0.08)/6=0,67	<b>0,67</b>
32. Cazac, A.M., Darabont, D.C., Baciuc, C., Bernevig-Sava, M.A., Bejinariu, C., <i>Determination of Friction Coefficient Between Aluminum Semi-Finished and Plastic Deformation Tools</i> , <b>The 7th International Multidisciplinary Symposium „UNIVERSITARIA SIMPRO 2016”</b> , Proceedings SIMPRO 2016, 403-406, ISSN-L 1842 – 4449, ISSN 2344 – 4754, <a href="http://www.upet.ro/annals/mechanical/2016.php">http://www.upet.ro/annals/mechanical/2016.php</a> .	Punctaj: (50x0.08)/5=0,80	<b>0,80</b>
33. Bejinariu C, <b>Cazac AM</b> , Lazăr P, Gheorghiu DA, <i>Aluminum Flow Simulation to Severe Plastic Deformation by Multiaxial Forging</i> . <b>Conference: Innovative Manufacturing Engineering Conference (IManE)</b> , 2015, Iasi. Published in Applied Mechanics and Materials, 2015, 809-810, 271-276, <a href="https://doi.org/10.4028/www.scientific.net/AMM.809-810.271">https://doi.org/10.4028/www.scientific.net/AMM.809-810.271</a> , ISBN 978-3-03835-663-9.	Punctaj: (50x0.08)/4=1,00	<b>1,00</b>
34. Bejinariu C, Lazar P, Sandu AV, <b>Cazac AM</b> , Sandu IG, Corbu O, <i>Enhancing Properties of Reinforcing Steel by Chemical Phosphatation</i> . The ICAMET 2014, 3th <b>International Conference Proceedings – Advanced Materials Engineering &amp; Technology</b> , Applied Mechanics and Materials, 2015, 754-755 pp 310-314, <a href="https://doi.org/10.4028/www.scientific.net/AMM.754-755.310">https://doi.org/10.4028/www.scientific.net/AMM.754-755.310</a> , ISBN: 978-3-03835-434-5.	Punctaj: (50x0.08)/6=0,67	<b>0,67</b>
35. Bejinariu C, <b>Cazac AM</b> , Abdullah MMA, Sandu AV, Lazar P, <i>Experimental Determination of Stress and Deformation Pressure in Nanostructuring Copper by Multiaxial Forging Method</i> . The ICAMET 2014, 3th <b>International Conference Proceedings – Advanced</b>	Punctaj: (50x0.08)/5=0,80	<b>0,80</b>



<b>A2. Activitate de cercetare</b>		
<b>Materials Engineering &amp; Technology</b> , Applied Mechanics and Materials, 2015, 754-755, 784-788, <a href="https://doi.org/10.4028/www.scientific.net/AMM.754-755.784">https://doi.org/10.4028/www.scientific.net/AMM.754-755.784</a> , ISBN: 978-3-03835-434-5.		
36. Lazar Petru, Bejinariu Costica, Sandu Andrei Victor, <b>Cazac Alin Marian</b> , Sandu Ioan Gabriel, <i>Chemical deposition of thin layers on reinforcing steel</i> , 2015, <b>Key Engineering Materials</b> , 660, 213–218, DOI: <a href="https://doi.org/10.4028/www.scientific.net/KEM.660.213">https://doi.org/10.4028/www.scientific.net/KEM.660.213</a> .	Punctaj: (50x0.08)/5=0,80	<b>0,80</b>
37. Costică Bejinariu, <b>Alin Cazac</b> , Adrian Alexandru, Stefan Lucian Toma. <i>Copper flow simulation to severe plastic deformation by multiaxial forging</i> , <b>Key Engineering Materials</b> , 2015, 660, 62-67, <a href="https://doi.org/10.4028/www.scientific.net/KEM.660.62">https://doi.org/10.4028/www.scientific.net/KEM.660.62</a> .	Punctaj: (50x0.08)/4=1,00	<b>1,00</b>
38. <b>Cazac, A. M.</b> , Abdullah, M. M. A. B., Predescu, C., Sandu, A. V., & Bejinariu, C. <i>The Experimental Determination of the Friction Stress between the Semi-Product and the Active Plate at the Multiaxial Forging of Copper</i> . <b>Materials Science Forum</b> , 2014, 803, 216–221. <a href="https://doi.org/10.4028/www.scientific.net/MSF.803.216">https://doi.org/10.4028/www.scientific.net/MSF.803.216</a> .	Punctaj: (50x0.08)/5=0,80	<b>0,80</b>
<b>SUBTOTAL articole publicate în reviste și volume ale unor manifestări științifice indexate în alte BDI</b>		<b>11,08</b>
<b>A2.3. Brevete de invenție acordate, neindexate/indexate ISI Thomson Reuters – Web of Science – Derwent Innovations Index</b>		<b>0,06</b>
<b>A2.3.2. Naționale</b> Brevet de invenție Nr. A 01133/ 21.12.2018 - Toma, S.L., Savin, G.A., Toma, B.F., Bejinariu, C., Ionita, I., Vitureanu, P., Badarau, G., Sandu, A.V., <b>Cazac, A.M.</b> , Burduhos Nergis D.P. <i>Sistem de duze utilizat la metalizarea prin pulverizare termica in arc electric</i> .  Punctaj: 15/25/10=0,06	1	<b>0,06</b>
<b>A2.4 Granturi/proiecte câștigate prin competiție</b>		<b>35,50</b>
<b>A2.4.1 Director/responsabil</b>	Minim 1	
<b>A2.4.1.1 Internaționale</b>		
<b>A2.4.1.2 Naționale (Minim 1)</b>	1	<b>2,50</b>
<b>1. Director de contract</b> <b>Tip / numar contract:</b> Agent economic / 30675/2024 <b>Director contract:</b> Cazac Alin Marian <b>Titlul contractului:</b> STUDII ȘI CERCETĂRI PRIVIND PREGĂTIREA SUPRAFEȚEI PIESELOR DIN OȚEL CARBON PRIN FOSFATARE CRISTALINĂ ÎN VEDEREA PROTECȚIEI ANTICOROZIVE <b>Valoare contract:</b> 51.000 RON, exclusiv TVA	Punctaj: 5x0,5 ani=2,50	<b>2,50</b>



<b>A2. Activitate de cercetare</b>		
<b>A2.4.2 Membru in echipa</b>		
A2.4.2.1. Internationale		
A2.4.2.2 Naționale		<b>33,00</b>
<b>1. Membru</b> <b>Tip / numar contract:</b> Agent economic / 49104/2022 <b>Director contract:</b> Lohan Monica Nicoleta <b>Titlul contractului:</b> CERCETARI PRIVIND INFLUENT A CONDITIILOR DE TURNARE ASUPRA PROPRIETATILOR PIESELOR TURNATE DIN ALIAJE SAE 430 B <b>Valoare contract:</b> 50.715 RON	Punctaj: 2x0,5 ani =1,00	<b>1,00</b>
<b>2. Membru</b> <b>Tip / numar contract:</b> POCU/379/6/21 / 123975/2019 <b>Director contract:</b> Seghedin E. Neculai <b>Titlul contractului:</b> DEZVOLTAREA CULTURII ANTREPRENORIALE A STUDENTILOR DE LA INGINERIE SI ARHITECTURA PAIN CREAREA UNEI RETELE DE CENTRE DE PREGATIRE IN ANTREPRENORIAT- ANTREPRENORING <b>Valoare contract:</b> 4.460.082 RON	Punctaj: 2x3 ani =6,00	<b>6,00</b>
<b>3. Membru</b> <b>Tip / numar contract:</b> ROSE / AG196/SGU/NC/II/2019 <b>Director contract:</b> Bejinariu Costica <b>Titlul contractului:</b> INTEGRARE CU SUCCES LA STUDII UNIVERSITARE LA FACULTATEA DE STIINTA SI INGINERIA MATERIALELOR DIN UNIVERSITATEA TEHNICA GHEORGHE ASACHI DIN IASI <b>Valoare contract:</b> 671.332 RON	Punctaj: 2x5 ani =10,00	<b>10,00</b>
<b>4. Membru</b> <b>Tip / numar contract:</b> PN III CEC INOVARE / 185CI / 2018 <b>Director contract:</b> Toma Stefan Lucian <b>Titlul contractului:</b> TRANSFERUL TEHNOLOGIEI DE OBTINERE A DEPUNERILOR DE NI-CR REZISTENTE LA COROZIUNE - LA S.C. REZISTORERM SRL <b>Valoare contract:</b> 50.000 RON	Punctaj: 2x1 ani =2,00	<b>2,00</b>
<b>5. Membru</b> <b>Tip / numar contract:</b> PN III CEC INOVARE / 26CI/2017 <b>Director contract:</b> Toma Stefan Lucian <b>Titlul contractului:</b> TRANSFERUL TEHNOLOGIEI DE PULVERIZARE TERMICA IN ARC ELECTRIC ACTIVAT PENTRU REALIZAREA STRATURILOR FEROMAGNETICE DEPUSE PE SU PORT DIN MATERIAL PLASTIC <b>Valoare contract:</b> 50.000 RON	Punctaj: 2x2 ani =4,00	<b>4,00</b>
<b>6. Membru</b> <b>Tip / numar contract:</b> Colaborare PN II Parteneriat / 185/2012 <b>Director contract:</b> Baci Constantin <b>Titlul contractului:</b> TEHNOLOGIE DE OBTINERE A STRATURILOR SUPERFICIALE MODIFICATE ALE PIESELOR SI COMPONENTELOR AUTO PAIN PRELUCRARI COMBinate IN FAZA UCHIDA SI SOLIDA <b>Valoare contract:</b> 500.000 RON	Punctaj: 2x5 ani =10,00	<b>10,00</b>



<b>A2. Activitate de cercetare</b>		
<b>PUNCTAJ TOTAL Domeniu de activitate A2</b>		<b>Minim 160      309,58</b>

<b>A3. Recunoașterea și impactul activității</b>		<b>Punctaj obținut</b>
<b>A3.1 Citări în reviste ISI și BDI</b>	<b>Minim 15</b>	<b>133,16</b>
<b>A3.1.1 ISI - (exclus citările tuturor co-autorilor)</b>	<b>29</b>	
<b>Citări lucrarea</b> Ion Dosa, Dan Codrut Petrilean, Andreea Cristina Tataru, Gabriel Dragos Vasilescu, Nelu Mija, <b>Alin Marian Cazac</b> , Oana Rusu, Anca-Cristina Tatarcan, Costica Bejinariu, Assessment of steam turbine performance degradation in long-term operation, 2025, <b>Energy</b> , 327, 136491. <a href="https://doi.org/10.1016/j.energy.2025.136491">https://doi.org/10.1016/j.energy.2025.136491</a> . 1. Bosnjakovic, Mladen; Analysis of Concentrated Solar Power Potential in the Photovoltaic Competitive Landscape, TECHNOLOGIES, 13 (12), 2025, DOI10.3390/technologies13120554. Punctaj: 20/1 = 20,00	<b>1</b>	<b>20,00</b>
<b>Citări lucrarea</b> Petrilean, D.C.; Fiță, N.D.; Vasilescu, G.D.; Ilieva-Obretenova, M.; Tataru, D.; Cruceru, E.A.; Mateiu, C.I.; Nicola, A.; Darabont, D.-C.; <b>Cazac, A.-M.</b> ; et al. Sustainability Management Through the Assessment of Instability and Insecurity Risk Scenarios in Romania's Energy Critical Infrastructures. <b>Sustainability</b> 2025, 17, 2932. <a href="https://doi.org/10.3390/su17072932">https://doi.org/10.3390/su17072932</a> . 1. Iliana Papamichael, Irene Voukkali, Kyriakos Vrionides, Pantelitsa Loizia, Marinos Stylianou, Paolo Sospiro, Marco Ciro Liscio, Vincenzo Naddeo, Antonis A. Zorpas, An overview of critical energy infrastructure of the European Defence sector, Energy Nexus, Volume 19, 2025, 100483, ISSN 2772-4271, <a href="https://doi.org/10.1016/j.nexus.2025.100483">https://doi.org/10.1016/j.nexus.2025.100483</a> . Punctaj: 30/9 = 3,33	<b>1</b>	<b>3,33</b>
<b>Citări lucrarea</b> Cimpoeșu R, Luțcanu M, Cazac AM, Adomniței I, Bejinariu C, Andrușcă L, Prelipceanu M, Cioca L-I, Chicet DL, Radu AM, Cimpoesu N., Electrochemical Corrosion Resistance of Al2O3–YSZ Coatings on Steel Substrates. Applied Sciences. 2024; 14(23):10877. <a href="https://doi.org/10.3390/app142310877">https://doi.org/10.3390/app142310877</a> . 1. Jayasree, R., Sahoo, S.N., Roy, M., Chakravarty, D., Spark plasma sintered Ti6Al4V-YSZ functionally graded Composites: In vitro cytocompatibility, corrosion and tribo-mechanical properties, Ceramics International, 2025, 51(27A), 52267-52281, <a href="https://doi.org/10.1016/j.ceramint.2025.08.434">https://doi.org/10.1016/j.ceramint.2025.08.434</a> . Punctaj: 30/4 = 7,50	<b>1</b>	<b>7,50</b>
<b>Citări lucrarea</b> <b>Cazac, A.-M.</b> ; Chelariu, R.G.; Cimpoesu, R.; Bernevig, M.A.; Benchea, M.; Jurca, A.M.; Radu, A.M.; Vasilescu, G.D.; Garaliu-Busoi, B.; Lupu, F.C.; et al. Investigation of CuTi Alloy for Applications as Non-Sparking Material. Appl. Sci. 2024, 14, 11574. <a href="https://doi.org/10.3390/app142411574">https://doi.org/10.3390/app142411574</a> . 1. Konieczny, J.; Labisz, K.; Ürgün, S.; Yiğit, H.; Fidan, S.; Bora, M.Ö.; Atapek, Ş.H.; Ćwiek, J. Modelling of Hardness and Electrical Conductivity of Cu-4Ti (wt.%) Alloy and Estimation of Aging Parameters Using Metaheuristic Algorithms, Materials 2025, 18, 2366. <a href="https://doi.org/10.3390/ma18102366">https://doi.org/10.3390/ma18102366</a> . Punctaj: 20/8 = 2,50 2. Lin, J.; Shi, G.; Fu, X.; Tang, T.; Wang, Q.; Wang, P. The Effect of Mo on the Microstructure and Mechanical Properties of High-Manganese Railway Frog Steel Produced with the Thermal Mechanical Control Process. Metals 2025, 15, 1025. <a href="https://doi.org/10.3390/met15091025">https://doi.org/10.3390/met15091025</a> . Punctaj: 20/6 = 3,33	<b>2</b>	<b>5,83</b>



<b>A3. Recunoașterea și impactul activității</b>			<b>Punctaj obținut</b>
<b>Citiri lucrarea</b> Cimpoesu, N.; Paleu, V.; Panaghie, C.; Roman, <b>A.-M.</b> ; <b>Cazac</b> , A.M.; Cioca, L.-I.; Bejinariu, C.; Lupescu, S.C.; Axinte, M.; Popa, M.; et al. Mechanical Properties and Wear Resistance of Biodegradable ZnMgY Alloy. <i>Metals</i> 2024, 14, 836. <a href="https://doi.org/10.3390/met14070836">https://doi.org/10.3390/met14070836</a> . 1. Li, C.; Ni, H.; Ukida, H.; Zhang, J.; Wang, B.; Lv, S. Surface Defect Detection of Steel Balls Based on Surface Full Expansion and Image Difference, <i>Electronics</i> 2024, 13, 4484. <a href="https://doi.org/10.3390/electronics13224484">https://doi.org/10.3390/electronics13224484</a> . 2. Dag, I.E.; Erdal, E.; Mhadhbi, M.; Avar, B. Effect of Iron on the Microstructure, Mechanical Properties, Corrosion Behavior, and Biocompatibility of Mechanically Alloyed Zn-3Ag Biodegradable Alloys. <i>J. Funct. Biomater.</i> 2025, 16, 435. <a href="https://doi.org/10.3390/jfb16120435">https://doi.org/10.3390/jfb16120435</a> .		2 Punctaj: 20/6 = 3,33 Punctaj: 30/4 = 15,00	18,33
<b>Citiri lucrarea</b> Lazar Petru, Cimpoesu Nicanor, Istrate Bogdan, <b>Cazac Alin-Marian</b> , Burduhos-Nergis Diana-Petronela, Benchea Marcelin, Berbecaru Andrei-Constantin, Badarau Gheorghe, Vasilescu Gabriel, Popa Mihai, Bejinariu Costica, <i>Microstructural and Mechanical Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions</i> , <b>Coatings</b> , 2024, 14(2), 182, <a href="https://doi.org/10.3390/coatings14020182">https://doi.org/10.3390/coatings14020182</a> . 1. Heydarian A., Najafi A., Khalaj G., Enhancement of low-zinc phosphate coatings with addition Ni 2+and Mn 2+cations: Structure, corrosion resistance and paint adhesion, Enhancement of low-zinc phosphate coatings with addition Ni 2+and Mn 2+cations: Structure, corrosion resistance and paint adhesion, <i>Journal of Materials Research and Technology</i> , 30, 2024, 7308-7327, ISSN 2238-7854, <a href="https://doi.org/10.1016/j.jmrt.2024.05.103">https://doi.org/10.1016/j.jmrt.2024.05.103</a> .		1 Punctaj: 30/3 = 10,00	10,00
<b>Citiri lucrarea:</b> Chelariu, R.G.; Cimpoesu, R.; Jurca, A.M.; Popa, C.M.; Benchea, M.; Badarau, G.; Istrate, B.; <b>Cazac, A.M.</b> ; Cimpoesu, N.; Pintilie, D.-D.; et al. Analysis of Chemical, Microstructural and Mechanical Properties of a CuAlBe Material Regarding Its Role as a Non-Sparking Material. <i>Materials</i> 2024, 17, 2220. <a href="https://doi.org/10.3390/ma17102220">https://doi.org/10.3390/ma17102220</a> . 1. Musella, G; Ballini, A; DI Cosola, M; Motta, A; Prà, TD; Esperou, F; Dioguardi, M; LO Muzio, L; Illuzzi, G; Bizzoca, ME, (2024). Biomechanical considerations of chemical structure and biosafety of current ceramic biomaterials for dentistry: review and outlook of the current state of the art. <i>Minerva dental and oral science</i> , 73(6), 352–358. <a href="https://doi.org/10.23736/S2724-6329.24.05093-9">https://doi.org/10.23736/S2724-6329.24.05093-9</a> .		1 Punctaj: 15/9 = 1,66	1,66
<b>Citiri lucrarea:</b> Bejinariu, C.; Darabont, D.-C.; Burduhos-Nergis, D.-P.; <b>Cazac, A.-M.</b> ; Chiriac-Moruzzi, C. Considerations Regarding the Application of the Occupational Injury and Illness Risk Assessment Method at Workplaces/Workstations, in Relation to the ISO 45001 Standard. <i>Sustainability</i> 2023, 15, 2121. <a href="https://doi.org/10.3390/su15032121">https://doi.org/10.3390/su15032121</a> . 1. Milea, A.; Cioca, L.-I. An Occupational Risk Analysis in the Bituminous Emulsion Transport and Spreading Process: A Case Study Applied in a Company in Romania. <i>Safety</i> 2025, 11, 46. <a href="https://doi.org/10.3390/safety11020046">https://doi.org/10.3390/safety11020046</a> . 2. Figueroa-Maldonado, J., Herrera-Franco, G., Moreno-Alcivar, L., Bravo-Montero, L. (2024). Comparative analysis of methodologies for occupational safety risk assessment in an artisanal woodworking industry. <i>International Journal of Safety and Security Engineering</i> , 14(6), 1825-1835. <a href="https://doi.org/10.18280/ijss.140617">https://doi.org/10.18280/ijss.140617</a> .		4 Punctaj: 15/2 = 7,50 Punctaj: 15/4 = 3,50	19,00



<b>A3. Recunoașterea și impactul activității</b>			<b>Punctaj obținut</b>
<p>3. Kurmanov, A., Bekmagambetov, A., Daumova, G., Issamadiyeva, G., Kulmagambetova, E. (2024). Event tree analysis as a method of assessing occupational risks in the production of titanium ingots. International Journal of Safety and Security Engineering, 2024, 14(5), 1371-1376. <a href="https://doi.org/10.18280/ijse.140503">https://doi.org/10.18280/ijse.140503</a>.</p> <p style="text-align: right;">Punctaj: 15/5 = 3,00</p> <p>4. Grafkina, M.V., Sviridova, E.Y., Goryacheva, E.V. Reducing occupational risks in industrial processes: Analysis and recommendations for improving safety in production equipment and facilities. International Journal of Safety and Security Engineering, 2023, 13(5), 781-788. <a href="https://doi.org/10.18280/ijse.130502">https://doi.org/10.18280/ijse.130502</a>.</p> <p style="text-align: right;">Punctaj: 15/3 = 5,00</p>			
<p><b>Citiri lucrarea:</b> Burduhos-Nergis Diana-Petronela, Bejinariu Costica, <b>Cazac Alin-Marian</b>, Sandu Andrei-Victor, Vizureanu Petrica, XRD and STA Characterization of Phosphate Layers Deposited on the Carbon Steel Surface, Archives of Metallurgy and Materials, 2023, 68(3), 955-960. <a href="https://doi.org/10.24425/amm.2023.145459">https://doi.org/10.24425/amm.2023.145459</a>.</p> <p>1. Heydarian, A; Najafi, A; Khalaj, G, Enhancement of low-zinc phosphate coatings with addition Ni 2+and Mn 2+cations: Structure, corrosion resistance and paint adhesion, JMR&amp;T, 2024, 30, 7308-7327, <a href="https://doi.org/10.1016/j.jmrt.2024.05.103">https://doi.org/10.1016/j.jmrt.2024.05.103</a>.</p> <p style="text-align: right;">Punctaj: 30/3 = 10,00</p>		<b>1</b>	<b>10,00</b>
<p><b>Citiri lucrarea:</b> Burduhos-Nergis D P, <b>Cazac A M</b>, Corabieru A, Matcovschi E and Bejinariu C, Characterization of Zinc and Manganese Phosphate Layers Deposited on the Carbon Steel Surface, IOP Conf. Ser.: Mater. Sci. Eng. 877 012012.</p> <p>1. Barbara Sawicka, Piotr Pszczółkowski, Mohammed Messaoudi, Dominika Skiba, Piotr Barbaś, Barbara Krochmal-Marczak, Ali Hulail Noaema, Genotype, Environment, and Heavy Metals: Variability of the Content of Elements in 40 Potato Varieties From Central-Eastern Poland, Chemistry and Biodiversity, 2025, DOI: 10.1002/cbdv.202403337.</p> <p style="text-align: right;">Punctaj: 20/7 = 2,86</p>		<b>1</b>	<b>2,86</b>
<p><b>Citiri lucrarea:</b> Haraga R A, Bejinariu C, <b>Cazac A-M</b>, Toma B F, Baci C and Toma S L, Influence of surface roughness and current intensity on the adhesion of high alloyed steel deposits - obtained by thermal spraying in electric arc, 2019 IOP Conf. Ser.: Mater. Sci. Eng. 572 012056, DOI 10.1088/1757-899X/572/1/012056.</p> <p>1. Cristisor, D. and Chicet, D.-L. and Istrate, B. and Stescu, C. and Munteanu, C., Influence of TiO2 Alloying Percentage on the Morphology of APS-deposited Coatings from Cr2O3 Powders, Archives of Metallurgy and Materials, 2024, 69 (3), 1231 – 1239, <a href="https://doi.org/10.24425/amm.2024.150946">https://doi.org/10.24425/amm.2024.150946</a>.</p> <p style="text-align: right;">Punctaj: 10/7 = 1,43</p> <p>2. Cristisor, D.; Chicet, D. L.; Cirlan Paleu, C.; Stescu, C.; Munteanu, C., Substrate Texture Influence on the Dry Sliding Wear Behaviour of Co-Based Plasma Spray Coating, Archives of Metallurgy and Materials, 2023, 68 (3), 1061-1067, DOI: 10.24425/amm.2023.145476.</p> <p style="text-align: right;">Punctaj: 10/5 = 2,00</p> <p>3. Nurisna, Z., Anggoro, S., Nur Mujtahid, H., Physical and Mechanical Properties of Twin-Wire Arc Spray and Wire Flame Spray Coating on Carbon Steel Surface. MSF, 2022, 1057, 235-239, <a href="https://doi.org/10.4028/p-z698i0">https://doi.org/10.4028/p-z698i0</a>.</p> <p style="text-align: right;">Punctaj: 10/3 = 3,33</p> <p>4. Grund, T., Paczkowski, G., Lampke, T. et al. Finish Turning of FeCr17Ni2C0.2 Iron-based Sprayed Coatings: Influences of Substrate Preparation, Cutting Speed and Feed on the Coating and Surface Properties. J Therm Spray Tech, 2020, 29, 308–318. <a href="https://doi.org/10.1007/s11666-019-00930-9">https://doi.org/10.1007/s11666-019-00930-9</a>.</p> <p style="text-align: right;">Punctaj: 20/6 = 3,33</p>		<b>4</b>	<b>10,09</b>



<b>A3. Recunoașterea și impactul activității</b>		<b>Punctaj obținut</b>
<p><b>Citiri lucrarea:</b> Diana-Petronela Burduhos-Nergiș, Carmen Nejneru, Ramona Cimpoeșu, <b>Alin-Marian Cazac</b>, Constantin Baciuc, Doru-Costin Darabont, Costică Bejinariu., Analysis of chemically deposited phosphate layer on the carabiners steel surface used at personal protective equipments, Quality Access to Success, 2019, 20, 77–82, ISSN 15822559.</p> <ol style="list-style-type: none"> <li>1. Băltatu, M.S., Vizureanu, P., Goanta, V., Țugui, C.A., Voiculescu, I., Mechanical tests for Ti-based alloys as new medical materials, Iop Conference Series Materials Science and Engineering, 2019, 572(1), 012029, DOI 10.1088/1757-899X/572/1/012029. Punctaj: 3/5 = 0,60</li> <li>2. Azani A., Che Halin D.S., Razak K.A., Abdullah M.M.A.B., Salleh M.A.A.M., Mahmed N., Ramli M.M., Azhari A.W., Chobpattana V., Recent graphene oxide/TiO2 thin film based on self-cleaning application, 2019, IOP Conference Series: Materials Science and Engineering, 572 (1), 012079, DOI: 10.1088/1757-899X/572/1/012079. Punctaj: 3/9 = 0,33</li> </ol>	<b>2</b>	<b>0,93</b>
<p><b>Citiri lucrarea:</b> Mihai-Adrian Bernevig-Sava; Iulian Ionita; Constantin Baciuc; Costin Doru Darabont; Alexandru Laluci; <b>Alin Marian Cazac</b>; Costica Bejinariu, Improving safety in the workplace using checklists legal requirements, Quality Access to Success, 2017, 18 (1), 31-34, WOS:000417405000005.</p> <ol style="list-style-type: none"> <li>1. Górny, A; Work Environment as a Factor in the Conduct of Manufacturing Processes, 2022, Innovations In Industrial Engineering, 432-440, DOI10.1007/978-3-030-78170-5_37 Punctaj: 3/1 = 3,00</li> </ol>	<b>1</b>	<b>3,00</b>
<p><b>Citiri lucrarea:</b> Bejinariu, Costica; <b>Cazac, Alin Marian</b>; Darabont, Doru Costin; Birlescu, Vlad; Craus, Mitica; Girtu, Manuela; Ghizdovat, Vlad; Predescu, Cristian; Agop, Maricel; Constantinescu, Simona, Experimental and Theoretical Aspects of Nanostructuring by Multiaxial Forging, Journal of Computational and Theoretical Nanoscience, 14(4), 2017, 1744-1750(7), DOI: <a href="https://doi.org/10.1166/jctn.2017.6498">https://doi.org/10.1166/jctn.2017.6498</a>.</p> <ol style="list-style-type: none"> <li>1. Prabhat Chand Yadav, Nitin Kumar Sharma, Sandeep Sahu, Shashank Shekhar, Influence of short heat-treatment on microstructural and mechanical inhomogeneity of constrained groove pressed Cu-Zn alloy, Materials Chemistry and Physics, 238, 2019, 121912, ISSN 0254-0584, <a href="https://doi.org/10.1016/j.matchemphys.2019.121912">https://doi.org/10.1016/j.matchemphys.2019.121912</a>. Punctaj: 30/4 = 7,50</li> <li>2. S Ramesh, H Shivananda Nayaka, K R Gopi and Sandeep Sahu, Effect of multiaxial cryoforging on microstructure and mechanical properties of a Cu-Ti Alloy, 2019, Mater. Res. Express, 6(2) 026556, DOI 10.1088/2053-1591/aaf085. Punctaj: 5/4 = 1,24</li> <li>3. Ramesh, S., Anne, G., Nayaka, H.S., Sahu, S., Arya, S.; Effects of combined multiaxial forging and rolling process on microstructure, mechanical properties and corrosion behavior of a Cu-Ti alloys, 2019, Materials Research Express, 6(5), 056559, DOI 10.1088/2053-1591/ab0764. Punctaj: 5/5 = 1,00</li> </ol>	<b>3</b>	<b>9,74</b>
<p><b>Citiri lucrarea:</b> Lazar, P., Bejinariu, C., Sandu, A.V., <b>Cazac, A.M.</b>, Sandu, I.G., Chemical deposition of thin layers on reinforcing steel, 2015, Key Engineering Materials, 660, 213–218, DOI:<a href="https://doi.org/10.4028/www.scientific.net/KEM.660.213">https://doi.org/10.4028/www.scientific.net/KEM.660.213</a>.</p> <ol style="list-style-type: none"> <li>1. Lute, M., Classic and New Materials Used for Structural Rehabilitation. Case Study, 2016 IOP Conf. Ser.: Mater. Sci. Eng. 133 012033, DOI 10.1088/1757-899X/133/1/012033. Punctaj: 5/1 = 5,00</li> </ol>	<b>1</b>	<b>5,00</b>



<b>A3. Recunoașterea și impactul activității</b>		<b>Punctaj obținut</b>
<b>Citări lucrarea: Cazac, Alin,</b> Bejinariu, Costică, Ionita, Iulian, Toma, Stefan Lucian, Rodu, Cosmin, Design and Implementation of a Device for Nanostructuring of Metallic Materials by Multiaxial Forging Method, Applied Mechanics and Materials, 657, 193 – 197, Trans Tech Publications Ltd., DO - 10.4028/www.scientific.net/AMM.657.193. 1. Jung, TK; Hong, JP; Jeon, CH; Park, YC; Kim, JS; Kim, MS; Kim, HJ; Jeong, BH; Shin, YC; Shin, B; Hyun, SK; Park, YO; Son, K; Cho, CH; Effect of Multi-Axial Compression and Annealing on Texture Evolution and Plastic Anisotropy in Cu-Zn Alloys, Metals And Materials International, 2025, 31(10), 3045-3061, DOI 10.1007/s12540-025-01928-5. <span style="color: green;">Punctaj: 20/14 = 2,14</span> 2. Jiang, X.-P., Pan, Q., Li, Y.-B., Zhu, X.-N., Deformation force prediction method of tee valve in multi- directional die forging process, Suxing Gongcheng Xuebao Journal of Plasticity Engineering, 2021, 28(5), 113–125. <span style="color: green;">Punctaj: 5/4 = 1,25</span> 3. Pop, A.B., Tițu, M.A., The Relationship between the Cutting Process Parameters and the Surface Roughness during the Aluminum Machining, 2020, Iop Conference Series Materials Science and Engineering, 877(1), 012001, DOI 10.1088/1757-899X/877/1/012001. <span style="color: green;">Punctaj: 5/2 = 2,50</span>		<b>3</b>  <b>5,89</b>
<b>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</b>		<b>29,00</b>
A3.3.1 WOS. Editor număr special, Recent Developments in the Microstructure and Properties of Coatings, Coatings. <a href="https://www.mdpi.com/journal/coatings/special_issues/YO02FFNHPU">https://www.mdpi.com/journal/coatings/special_issues/YO02FFNHPU</a> .	<span style="color: green;">Punctaj: 1 x 12 = 12,00</span>	<b>12,00</b>
A3.3.1 ISI Reviewer 1. Reviewer: Coatings 2. Reviewer: Applied Sciences 3. Reviewer: Processes	<span style="color: green;">Punctaj: 3 x 5 = 15,00</span>	<b>15,00</b>
A3.3.3 BDI Reviewer 1. Reviewer: Bulletin of the Polytechnic Institute of Iași, Materials Science and Engineering Section	<span style="color: green;">Punctaj: 2 x 1 = 2,00</span>	<b>2,00</b>
<b>A3.4. Expert evaluare proiecte de cercetare</b>		<b>5,00</b>
A3.4.2 Evaluator proiecte in cadrul competiția GNaC ARUT 2023	<span style="color: green;">Punctaj: 1 x 5 = 5,00</span>	<b>5,00</b>
<b>PUNCTAJ TOTAL Domeniu de activitate A3</b>		<b>Minim 60</b> <b>167,16</b>

Data: 12.01.2026  
Șef lucrări dr. ing. CAZAC ALIN MARIAN

