

Ordin 6129/2016 privind
STANDARDELE MINIMALE NECESARE SI OBLIGATORII PENTRU CONFERIREA
TITLURILOR ACADEMICE DIN ÎNVĂȚĂMÎNTUL SUPERIOR SI A GRADELOR PROFESIONALE
DE CERCETARE

Domeniul Fundamental: STIINTE INGINERESTI

Domeniul de Studii Universitare: INGINERIE INDUSTRIALA

Comisia CNATDCU 16: INGINERIE INDUSTRIALA SI MANAGEMENT

CANDIDAT: VOICULESCU IONELIA

1. Condiții și criterii

Nr. crt.	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori unitari (Kpi)
0	1	2	3	4	5
	Activitatea didactică și profesională (A1)	1.1. Cărți/manuale/ monografii/ capitole de specialitate	1.1.1. Cărți/manuale/ monografii/ capitole de specialitate ca autor Profesor minim 2 de prim autor	1.1.1.1. Internaționale	nr. pag/(5*nr. Autori) Capitole în cărți 1. VOICULESCU, I. , Geanta, V., Stefanoiu, R., Binchiciu, H., Vida-Simiti, I., VasIU, R. Study on Hardfaced Wear Resistant Bronze Alloy. International Symposium on Friction, Wear and Wear Protection, Aachen, Germania, <i>Friction, Wear and Wear Protection</i> , Edited by Alfons Fisher and Kirsten Bobzin, WILEY-VCH, Verlag GmbH, Germany, 2009, ISBN 978-3-527-32366-1, p. 610-617. Recenzii/Indexări: SCOPUS. 8/30 = 0,266 2. VOICULESCU I. , Brazing Behaviour of Ag-Cu Filler Materials, <i>Recent Progress in Soldering Materials, InTech- open science</i> , Croatia, (2017), ISBN 978-953-51-3643-9, p. 39-61, Recenzii/Indexări: SCOPUS Website: http://www.intechopen.com 23/5 = 4,60 Total capitole cărți internaționale : 4,866p
				1.1.1.2. Naționale	nr. pag/(10*nr. Autori) Cărți de specialitate 1. I. VOICULESCU , <i>Sudarea aluminului și a aliajelor sale</i> , Editura PRINTECH, 2003, București, ISBN 973-652-933-9, 249 pag. Cod CNC SIS 54 249/10=24,9 2. I. VOICULESCU , <i>Hidrogenul în oțeluri pentru construcții sudate</i> , Editura PRINTECH, 2005, București, ISBN 973-718-181-6, 153 pagini. Cod CNC SIS 54 153/10 = 15,3. 3. V.Geanta, I. VOICULESCU , <i>Tratat de obținere a materialelor metalice biocompatibile</i> , Ed. PRINTECH, 2018, ISBN: 978-606-23-0845-2, 628 pag. Cod CNC SIS 54 628/20=31,40 4. Gh. Zgură, I.Severin I.Tonoiu , <i>Materiale compozite cu matrice metalică, tehnologii de prelucrare</i> , Editura Academiei Române, 2000, București, ISBN: 973-27-0729-1, 335 pag, cod CNC SIS 164 335/30=11,1666 Total cărți de specialitate: 82,7666 Total cărți +capitole în cărți de specialitate: 87,6326p

			1.1.2. Cărți ca editor	1.1.2.1. Internaționale	
				1.1.2.2. Naționale	
		1.2. Alte materiale didactice, inclusiv în format electronic	1.2.1. Suporturi de curs/îndrumare Profesor minim 4, din care 2 prim autor		Nr. pag/(20*nr.autori) Manuale didactice, îndrumare 1. Gh. Solomon, D.T.Cicic, C. Rontescu, A. Mihai, I.VOICULESCU, G. Iacobescu, <i>Ghid pentru elaborarea proiectului de licența pentru uzul absolvenților Specializarea Ingineria sudarii</i>, Ed. Politehnica Press, 2011, 128 pag. 128/120 = 1,0666 2. Iacobescu G., Rontescu C., Cicic D.T., Mihai A., Solomon Gh, I. VOICULESCU. <i>Îndrumar pentru elaborarea proiectului de diploma</i>, Editura Politehnica Press, ISBN 976-606-515-455-1, 2013, 134 pag. 134/120=1,1166 3. I. VOICULESCU, V. Geanta, I.M. Vasile, <i>Aliaje feroase pentru structuri sudate</i>, Ed. BREN, 2016, 433 pag. Cod CNC SIS 96 433/60=7,2166 4. I.VOICULESCU, I.M.Vasile, E.M.Stanciu, A.Pascu, <i>Știința și Ingineria Materialelor</i>, Îndrumar de laborator, Editura Lux Libris, Brasov, 2015, 210 pag. Cod CNC SIS 201 210/80=2,625 5. I.VOICULESCU, C. Rontescu, I. L. Dondea, <i>Metalografia imbinărilor sudate</i>, Editura SUDURA, Timisoara, 2010, ISBN 978-973-8359-58-1, Cotate Google Academic, Cited 10, 260 pag. 260/60 = 4,3333 6. Gabriel Iacobescu, Gheorghe Solomon, Ionelia Tonoiu, <i>Procedee și tehnologii speciale de sudare</i>, Ed. BREN, 1998, ISBN 973-9427-15-4, cod CNC SIS 96, 176 pag 176/60=2,9333 Total materiale didactice : 19,2914p
		1.3. Coordonare de programe de studii, organizare și coordonare programe de formare continuă	Director/Responsabil		15p Responsabil program de studiu (www.imst.pub.ro/licenta/responsabili_programe_de_studiu_licenta_site_2016): - INGINERIA SUDARII, UPB, Fac. IMST, Departamentul de Ingineria Calității și Tehnologii Industriale Total responsabil : 15p
		1.4. Dezvoltare de noi discipline	Titular		10p 1. Materiale si tratamente termice pentru sudare, curs din 2005, programul de studii de licență Ingineria sudării, an III Punctaj= 10 2. Asamblare si ambalare, curs din 2010, programul de studii de licență Ingineria și managementul calității, an III Punctaj = 10 3. Ingineria suprafețelor structurilor sudate, curs din 2014, programul de studii de licență Ingineria sudării, an III Punctaj = 10 4. Materiale si tratamente speciale pentru sudare, curs din 2015, programul de studii de Master IMPSC, an I, Punctaj = 10 Total noi discipline : 4*10=40p
		1.5. Proiecte educaționale (Erasmus,	Director/Responsabil		10x(ani desfășurare) 1. Training for Biomaterials Integration in Computer-aided paradigm (TICAMP). Contract Leonardo da Vinci,

		Leonardo			nr. RO/2004/93006/EX. 2006, cu partener Universidade NOVA de Lisboa, Portugal., Coordonator proiect UPB Director –10 2. Training and Certification of Assessors in Welding and Non-Destructive Testing Field. Contract Leonardo da Vinci nr. RO/2003/91111/EX - Porto Salvo, Portugalia 2004. Coordonator proiect UPB Director – 10 Total proiecte educaționale internaționale: 20p Total A1 = 87,6326 + 19,2914p +15p +40p +20p =181,924p
2	Activitatea de cercetare (A2)	2.1. Articole indexate în reviste ISI Thomson Reuters și în volumele unor manifestări științifice indexate ISI Thomson Reuters, vizibile în baza de date	De la ultima promovare (2005) Minim 8 articole, din care 3 în reviste, minimum 3 ca autor principal Minim 1 articol în reviste zona roșie sau galbenă	Factor impact în anul publicării Clasificare revistă în anul publicării	34 Articole publicate in Reviste ISI (30+10*factor impact)/nr. de autori 1. VOICULESCU, I., Geantă, V., Stern, A., Ashkenazi, D., Cohen, M., Cvikel, D. <i>Iron-Bound Deadeyes from Nineteenth-Century Akko Tower Wreck</i>, Israel: Metallurgical Investigation of the Manufacturing Technology. <i>Metallogr. Microstr. Anal.</i>, 2017, Volume 6, No. 1, doi 10.1007/s13632-017-0342-0, p. 106-125, Publisher Springer, USA,. ISI Thomson Reuters, ISSN 2192-9262, ISSN: 2192-9270 (electronic version). IDS Number: ET7EA, Total Times Cited: 1. WOS: 000400455500002 (30)/6 = 5 2. VOICULESCU, I., Geantă, V., Ștefănoiu, R., Patroi, D., Binchiciu, H., <i>Influence of the Chemical Composition on the Microstructure and Microhardness of AlCrFeCoNi High Entropy Alloy</i>. <i>Rev. Chim.</i>, Vol. 64, No. 12, 2013, p.1441-1444. ISI Thomson Reuters, IF = 1,122 (Q3). ISSN: 0034-7752. Document Type: Article, Language: English. Accession Number: WOS:000330914400016. Cited: 10 (30+10x1,122)/5 = 8,244 3. VOICULESCU, I., Geantă, V., Vasile, I.M., Ștefănoiu, R., 3. Tonoiu, M., <i>Characterisation of weld deposits using as filler metal a high entropy alloy</i>. <i>Journal of Optoelectronics and Advanced Materials</i>, Vol. 15, No. 7-8, 2013, p.650 – 654. ISI Thomson Reuters, IF = 0,44 (Q4). ISSN: 1454-4164. Document Type: Article, Language: English. Accession Number: WOS:000323397900009. Cited 7 (30+10x0,44)/5 = 6,88 4. VOICULESCU, I., Geantă, V., Vasile, I.M., Ștefănoiu, R., Iacob, M., <i>Researches regarding the obtaining of the electrode for spot welding</i>. <i>Metalurgia International</i>, Special Issue, no. 1, ISSN 1582-2214, 2013, p.52-55. ISI Thomson Reuters. Document Type: Article, Language: English. Accession Number: WOS:000315368200011, IF = 0,103 (Q4). (30+10x0,103)/5 = 6,2060 5. I.VOICULESCU, R.Iovanas, D.M.Iovanas, C.G.Ceorapin, I.C.Roata, H.Binchiciu, <i>Performance Testing of Joints Brazed With Amorphous Filler material Type CuSn</i>, <i>Metalurgia International</i>, Vol. 14 (2009) SPEC. ISS. No.2, ISSN: 1582-2214, IDS Number: 430PQ, p. 143-146., IF=0.103 (Q4), WOS:000265001400035 (30+10x0,103)/6 = 5,1716 6. VOICULESCU, I; Geanta, V; Stanciu, E.M; Jianu, D.A; Postolache, C; Fugaru, V, <i>Effect of Irradiation and Temperature on Microstructural Characteristic of FeCrAl Alloys</i>, <i>ACTA PHYSICA POLONICA A</i>, Vol.134, Issue: 1, p: 116-118, Special Issue: SI, Published: 2018, DOI: 10.12693/APhysPolA.134.116, WOS:00045128160

				0030, ISSN: 0587-4246, eISSN: 1898-794X, IDS Number: HB7SQ, IF = 0,857 (Q3). $(30+10 \times 0,857)/6 = 6,4283$ 7. Geantă, V., Ștefănoiu, R., VOICULESCU, I., <i>Experimental Researches on the Graphite Particles Dissolution during Injection Process in Ferrous Metallic Melts</i>. Rev.chim, Vol. 65, No. 1, p. 94-97, 2014. ISI Thomson Reuters, IF = 1,122 (Q3). ISSN: 0034-7752. Document Type: Article, Language: English. Accession Number: WOS:000334150300019. $(30+10 \times 1,122)/3 = 13,74$ 8. Geantă, V., VOICULESCU, I., Ștefănoiu, R., Savastru, D., Daisa, D.D., <i>Effect of thermal regime on the microstructure and microhardness of steels microalloyed with Nb and V</i>, Journal of optoelectronics and advanced materials, Vol. 15, No. 11-12, November – December 2013, p.1457 – 1462. ISI Thomson Reuters, FI = 0,38 (Q4). ISSN: 1454-4164. Document Type: Article, Language: English. Accession Number: WOS:000329482600049. Times Cited: 7. $(30+10 \times 0,38)/5 = 6,76$ 9. Geantă, V., Ștefănoiu, R., VOICULESCU, I., Daisa, D.D., <i>The influence of the technological parameters on the efficiency of the metal melts alloying process by pulverulent material injection</i>. Journal of Optoelectronics and Advanced Materials, vol. 13, No. 7-8, July 2011, p. 921 – 925. ISI Thomson Reuters, FI = 0,38 (Q4). ISSN: 1454-4164. Document Type: Article, Language: English. Accession Number: WOS: 000294887100036. Cited: 6. $(30+10 \times 0,38)/4 = 8,45$ 10. Geantă, V., VOICULESCU, I., Ștefănoiu, R., Savastru, D., Csaki, I., Patroi, D., Leonat, L., <i>Processing and characterization of advanced multi-element high entropy materials from AlCrFeCoNi system</i>. Optoelectronics and advanced materials – Rapid Communications, Vol. 7, 2013, p.874-880. ISI Thomson Reuters, IF=0,38 (Q4). ISSN: 1842-6573. Document Type: Article, Language: English. Accession Number: WOS:000328253100014. Cited: 11 $(30+10 \times 0,38)/7 = 4,8285$ 11. Geantă, V., VOICULESCU, I., Ștefănoiu, R., Binchiciu, H., Negriu, R.M. Tat, P.I., <i>Researches regarding the establishment of the optimal chemical composition of the centrifugal crushers retention sills</i>. Metalurgia International, Vol. 18, Special Issue, no. 1, ISSN 1582-2214, (2013), p.19-23. Document Type: Article, Language: English. ISI Thomson Reuters. Accession Number: WOS:000315368200004, IF=0,103 (Q4). $(30+10 \times 0,103)/6 = 5,1716$ 12. Geantă, V., VOICULESCU, I., Ștefănoiu, R., Jianu, A., <i>Influence of chemical composition of FeCrAl alloys on the microhardness</i>. Metalurgia International, vol. 16 (2011), no. 5, ISSN 1582-2214, p.153-156. Document Type: Article, Language: English. Accession Number: WOS:000289606200035. ISI Thomson Reuters. Recenzii/Indexări: SCOPUS., IF=0,103 (Q4) Cited: 3. $(30+10 \times 0,103)/4 = 7,7575$ 13. Ștefănoiu, R., Geantă, V., VOICULESCU, I., Csaki, I., Ghiban, N., <i>Researches regarding the influence of chemical composition on the properties of AlxCrFeCoNi alloys</i>. Rev. Chim, Vol. 65, No. 7, p. 819-821, (2014). ISI Thomson Reuters, FI=1,122. (Q3) ISSN: 0034-7752. Document Type: Article, Language: English. Accession Number: WOS:000345545600016. Cited: 8
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					$(30+10 \times 1,122)/5 = 8,2440$ 14. Ștefănoiu, R., Geantă, V., VOICULESCU, I., <i>Studies and researches on liquid steel temperature evolution at inert gas injection</i>. Metalurgia International, Vol. 18, Special Issue, no. 1, ISSN 1582-2214, (2013) p.48-51. ISI Thomson Reuters. Document Type: Article, Language: English. Accession Number: WOS:000315368200010, IF=0,103, (Q4). $(30+10 \times 0,103)/3 = 10,3433$ 15. Pencea, I., Sfăt, C., Geantă, V., Ștefănoiu, R., VOICULESCU, I. <i>New multiconvolutional approach for measurement uncertainty estimation. Case study for Vickers hardness test</i>. Metalurgia International, Vol. 18, Special Issue, no. 2, ISSN 1582-2214, 2013, p.57-62. Document Type: Article, Language: English. ISI Thomson Reuters. Accession Number: WOS:000315312100012, IF= 0.103, (Q4). $(30+10 \times 0,103)/5 = 6,2060$ 16. Dina, V., Geantă, V., Ștefănoiu, R., VOICULESCU, I., Cioacă, I., <i>Studies and researches regarding the Obtaining of Self-Carburizing Flames by Burning of Gas Fuels</i>. Metalurgia International, ISSN 1582-2214, vol. 13 (2008), nr. 1, p.5-10. Document Type: Article, Language: English. Accession Number: WOS:000256690700001. ISI Thomson Reuters. Recenzii/Indexări: SCOPUS, IF=0,103 (Q4). $(30+10 \times 0,103)/5 = 6,2060$ 17. Minciună, M.G., Vitureanu, P., Geantă, V., VOICULESCU, I., Sandu, A.V., Achiței, D.C., Vitalariu, A.M., <i>Effect of Si on the mechanical properties of biomedical CoCrMo alloy</i>. Rev.chim., Vol. 66, Issue 6, p.891-894, (2015). ISI Thomson Reuters, IF = 0,81 (Q3) ISSN: 0034-7752. Document Type: Article, Language: English. Accession Number: WOS:000357403600029, Cited: 3 $(30+10 \times 0,81)/6 = 6,35$ 18. A. Pascu, E. M. Stanciu, I. VOICULESCU, M. H. Țierean, I. C. Roată, J. L. Ocaña, <i>Chemical and Mechanical Characterisation of AISI 304 and AISI 1010 Laser Welding</i>, Materials and Manufacturing Processes, (2016) Vol. 31, issue 03, p. 311-318, DOI:10.1080/10426914.2015.1025970, WOS:000365670400008, (Q2) IF=2,274, Cited 4 $(30+10 \times 2,274)/6 = 8,79$ 19. Parfene, C. S., Solomon, G., Ionita, D, VOICULESCU, I., Babis, C., Vasile, I.M., <i>The Effect of Diffusible Hydrogen in Weld Seams on the Mechanical and Corrosion Behaviour of S235JR Steel Parts in 3.5% NaCl</i>, Rev.Chim., Volume: 65, Issue: 6, (2014) p: 710-714; IF=1,122,(Q3) WOS:000339140400017, Cited: 1 $(30+10 \times 1,122)/6 = 6,87$ 20. Ștefănoiu, R., Geantă, V., VOICULESCU, I., Suciu, M.V. <i>Experimental Researches Regarding the Stirring Energy and Mixing Time of the Metal Bath as Steel Refining with Inert Gas</i>. Metalurgia International, vol. 13 (2008), no. 3 Special Issue, ISSN 1582-2214, p. 53-56, ISSN: 1582-2214. Document Type: Article, Language: English. ISI Thomson Reuters Recenzii/Indexări: SCOPUS. Accession Number: WOS:000263117300009, IF= 0,103 (Q4). $(30+10 \times 0,103)/4 = 7,7575$ 21. O. Turcan, O. Dontu, J.L.Ocana Moreno, I.VOICULESCU, D.Savastru, I.M.Vasile, <i>Increasing of the superficial hardness of a coupling system realized</i>
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					from a low carbon steel ST 367-2 by surface treatment with Nd:YAG Laser, Journal of Optoelectronics and Advanced Materials, Vol. 16. No 1-2, (2014), p. 20-24, IF=0,38 (Q4); WOS:000332347500004, Cited 2 $(30+10 \times 0,38)/6 = 5,633$ 22. M. Nahmany, Z. Hooper, A. Stern, V. Geanta, I. VOICULESCU, <i>AlCrFeCoNi High-Entropy Alloys: Surface Modification by Electron Beam Bead-on-Plate Melting, Metallography Microstructure and Analysis</i>, (2016) Vol., 5, Issue 3, p. 229–240, DOI 10.1007/s13632-016-0276-y, WOS:000377604500006, IF , Cited 3 $30 / 5 = 6$ 23. Pavalache, A.C., VOICULESCU, I., Iordăchescu, D., Vasile, G., Stanciu, E.M., Apostol, G., <i>Obtaining Of Metal Matrix Composites Layers By Laser Cladding</i>, Metalurgia International, vol.16 (2011), Special Issue no. 5, ISSN 1582-2214, p. 121-124, IF=0,103, WOS:000289606200027, (Q4) $(30+10 \times 0,103)/6 = 5,1716$ 24. A. Banu, N. Spataru, V. S. Teodorescu, A. V. Maraloiu, I. VOICULESCU, A. M. Marcu, T. Spataru, <i>Structural and electrochemical characterization of TiO2/Pt hybrid catalyst system for direct bio-ethanol fuel cell</i>, Journal of Optoelectronics and Advanced Materials, Vol. 12, No. 5, May (2010), p. 1189 – 1193, ISSN 1454-4164, IF=0,38 (Q4), Cited: 4 WOS:000279165400036 $(30+10 \times 0,38)/7 = 4,8285$ 25. E. M. Stanciu, A. Pascu, M. H. Țierean, I. VOICULESCU, I. C. Roată, C. Croitoru & I. Hulka, <i>Dual Coating Laser Cladding of NiCrBSi and Inconel 718</i>, Materials and Manufacturing Processes, (2016) vol. 31, issue 12, p. 1556-1564, DOI:10.1080/10426914.2015.1103866, WOS:00038138 8400003SRI 0,74, IF=2,274 (Q2); Cited: 4 $(30+10 \times 2,274)/7 = 7,534$ 26. Geanta, V ; Taca, M ; Daisa, D ; VOICULESCU, I., Stefanoiu, R, Constantinescu, DM, Savastru, D, <i>Influence of the chemical composition on the mechanical properties of forged microalloyed steels</i>, Journal of Optoelectronics and Advanced Materials, Vol. 17, Iss7-8 (2015) p: 1004-1011, IF = 0,29 (Q4), WOS:000359967600016, Cited 2. $(30+10 \times 0,29)/7 = 4,7$ 27. Avarvarei I., Dontu O., Besnea D., VOICULESCU I., Ciobanu R., <i>Laser welding of stainless steel capsules</i>, Optoelectronics and Advanced Materials, Rapid Communications, Volume: 4, Issue: 11(2010) p. 1894-1897, WOS:000285399400066, IF=0,36 (Q4),Cited 5 $(30+10 \times 0,36)/5 = 6,72$ 28. I. Csaki, R. Stefanoiu, V. Geanta, I. VOICULESCU, M.G. Sohaciu, A. Soare, G. Popescu, S. Serghiuta, <i>Researches regarding the processing technique impact on the chemical composition, microstructure and hardness of AlCrFeNiCo high entropy alloy</i>, REV. CHIM, 67, No. 7 (2016), p. 1373-1377, WOS:000385513000029, Cited: 4, IF = 1,232 (Q3) $(30+10 \times 1,232)/8 = 5,29$ 29. V. Geanta, T. Chereches, P. Lixandru, I. VOICULESCU, R. Stefanoiu, D. Dragnea, T. Zecheru, L. Matache, <i>Virtual Testing of Composite Structures Made of High Entropy Alloys and Steel</i>, Metals 2017, Vol.7, Issue 11, art. Nr. 496 (2017); doi:10.3390/met7110496, p.1-14, ISSN: 2075-4701,
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					WOS:000416803200046 (Q1,Q2), IF=1,704, cited 2, DOI: 10.3390/met7110496 (30 + 10x1,704)/8=5,88 30. E.M. STANCIU, A. PASCU, M.H.TIEREAN, I.C.ROATA, <u>I. VOICULESCU</u>, I. HULKA, C. CROITORU, Dissimilar Laser Welding of AISI 321 and AISI 1010, Technical Gazette 25, Issue 2 (2018), p.344-349, ISSN 1330-3651 (Print), ISSN 1848-6339 (Online), IF=0,723, (Q4) WOS:000430936800006, DOI: 10.17559/TV-20160722151049 (30+10x0,686)/7 = 5,2657 31. Milosan, I; Flamant, G; <u>VOICULESCU, I</u>; Geanta, V. Munteanu, D.; Bedo, T.; Pop, M.A.; Semenescu, A.; Crisan, A.; Cristea, D.; Stoicanescu, M.; Gabor, C.; Sarbu, F.A.; Ghiuta, I., Comparative Study of Heat Treatment Effects Performed with Solar Energy and Electric Furnace on EN 1.4848 Stainless Steel Alloyed with Co, W, Cu and Mo, REV.CHIM. Vol. 69, Issue: 5 (2018) p: 1050-1054, IF=1,412 (Q3), WOS:000434954100004 (30+10x1,412)/15=2,9413 32. Spanu A.; Besnea D.; <u>VOICULESCU I.</u> Improvement of Polymer Surface Properties Using the Deposition with Thin Metal Alloy Layers, MATERIALE PLASTICE, Volume: 55, Issue: 2, p: 141-145, (2018) IF=1,248, WOS:000444147100002, ISSN: 0025-5289 (Q3) (30+10*1,248)/3=14,160 33. V. Geantă, <u>I. VOICULESCU</u>, I. Miloşan, B. Istrate, I. M. Mateş, Chemical Composition Influence on Microhardness, Microstructure and Phases Morphology of Al_xCrFeCoNi High Entropy Alloys, Rev.chim (Bucharest), 69, no. 4 (2018), p. 798-801, ISSN – 0034-7752, IF=1,412, (Q3) WOS:000433223000009 (30+10x1,412)/5=8,824 34. Besliu, M. M.; <u>VOICULESCU, I.</u>; Solomon Gh., Effects of Dilution on Weld Overlays Realized with Flux-Cored Arc Welding (FCAW) Process Using 309LV Filler Metal on the S235JR Steel, UPB, SCI. BULL.SERIES B-CHEMISTRY AND MATERIALS SCIENCE, Volume: 79, Issue: 1, p: 173-182, Accession Number: WOS:000405772200018, ISSN: 1454-2331, 2017, cited 1 30/3=10 35. Geanta V., <u>VOICULESCU I.</u>, Stefanoiu R., Jianu A., Milosan I., Stanciu E.M., Pascu A., Vasile I.M. REVISTA DE CHIMIE, Vol. 70, Issue: 2 (2019) p: 549-554, IF=1,412 (Q3), WOS:000461982200038, ISSN: 0034-7752, IDS Number: HP8ZV (30+10x1,412)/8=5,515 Total articole în reviste ISI = 243,5674p Articole in Volume ale unor conferințe ISI 25/(nr. de autori) 1. <u>VOICULESCU, I.</u>, Donțu, O., Geantă, V., Ganatsios, S., <i>Effect of the Laser Beam Superficial Heat Treatment on the Gas Tungsten Arc Ti-6Al-V Welded Metal Microstructure</i>, Conference on Industrial Laser Applications (INDLAS 2007) Bran, ROMANIA , MAY 23-25, 2007: INDUSTRIAL LASER APPLICATIONS Book Series: Proceedings of SPIE, Volume: 7007, p.703-706, Article no.: 70070M Published: 2008, ISI Thomson Reuters. Recenzii/Indexări: SCOPUS. WOS:000259260400021
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	2.3. Articole <i>in extenso</i> în reviste/ volumele unor manifestări științifice naționale/ internaționale neindexate	Max. 2 articole la aceeași ediție	SELECȚIE	Reviste (6/nr. de autori) I.VOICULESCU, V.Geanta, R. Stefanoiu, H.Binchiciu, Cercetari privind sudarea si incarcarea cu laser (Research regarding laser welding and hardfacing), Revista Sudura, XXI-4/2011, Timisoara, ISSN 1843-4738; p. 14-20. 6/4=1,5 - A.C.Pavalache, I.VOICULESCU, I.M.Vasile, R.Petcovici, Research regarding the characteristics of metal matrix composites layers obtained by laser cladding (Cercetari privind caracteristicile straturilor compozite cu matrice metalica obtinute prin depunere cu laser), Revista Sudura, XXIII – 2 2013, p. 8-12. 6/4=1,5 Volume conferințe (4/nr. de autori) – SELECȚIE VOICULESCU I., Geanta V., Binchiciu H., Braharu D., Catuneanu T., Researches regarding the behavior of bi-metal hardfaced agricultural tools, CEEEX Conference, 2008, p. 1-6, 4/5=0,8 VOICULESCU, I., Geanta, V., Stefanoiu, R., Binchiciu, H., Daisa, D.D., Alumina Ceramics Brazed Using Metallic Alloys. International Conference on Innovative Technologies, IN-TECH 2012, Rijeka, Croatia, 2012, p.523-527. ISBN 978-953-6326-77-8 4/5=0,8 I. VOICULESCU, V. Geanta, R. Stefanoiu, I.M. Vasile, H. Binchiciu, T. Catuneanu, The Surface Characteristics Changing Using Shot Peening Process, Proc. of 12th International Conference on Technology and Quality for Sustained Development-TQSD 12, Bucharest, Romania, Nov. 5-6, 2012, p. 106-111. 4/6=0,6666 I.VOICULESCU, V.Geanta, H.Binchiciu, Cercetări privind recondiționarea elementelor active ale componentelor utilajelor agricole (Research regarding the reconditioning of active components of agricultural equipment), Conferința Internațională ASR „TIMA 11”, „Tradiție si arta in construcția echipamentelor energetice”, Timisoara, 2011, p. 1-4. www.isim.ro/tima11, ISSN 1843-4738 4/3=1,3333 I.VOICULESCU, D.Iovanas, G.Stovpchenko, V.Geanta, H.Binchiciu, C.A.Pavalache, Study on Hard Deposition Obtained by GTAW Welding Process, Proc. of International Conference on Technology and Quality for Sustained Development – TQSD 08, Bucuresti, 2008, p. 371 – 376. Published by Academy of Technical Sciences of Romania Publishing House, ISSN 1844-9158 4/6=0,6666 I.VOICULESCU, O.Dontu, V.Geanta, D.Besnea, E.Stanciu, Effects of the laser welding parameters on the weld geometry and evaporation, Proc. Of International Conference on Technology and Quality for Sustained Development – TQSD 08, Bucuresti, 2008, p. 376 – 378. Published by Academy of Technical Sciences of Romania Publishing House, ISSN 1844-9158 4/5=0,8 VOICULESCU, I., Geanta, V., Dontu, O., Ganatsios, S., The Heat Treatment Influence on the Welded OT4 Titanium Alloy. 3-rd JOIN Conference „International Conference on Total Welding management in industrial application”, Lappeenranta University of Technology,
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			Lappeenranta, Finland, 2007, p. 303 – 309, ISBN 978-952-214-413-3. 4/4=1 8. VOICULESCU, I., Binchiciu, H., Geantă, V., Binchiciu, A., Research Concerning the New Ecological Brazing Filler Metal Performances for Clean Application, 7-th International Conference on Technology and quality for Sustained Development, TQSD 06, 2006, p. 331 – 335, AGIR Publishing House, ISBN 973-720-035-7. 4/4=1 9. VOICULESCU, I., Geanta, V., Ștefănoiu, R., Aspects Regarding the Embrittlement of Steels Using the Electro-Charging Method, 6-a CONFERENCIA EUROPEA SOBRE TECNOLOGIAS DE SOLDEO, UNION Y CORTE, 16-as Jornadas Técnicas de Soldadura, EUROJOIN 6, Santiago de Compostela, 2006, p. 651 – 656, Graficas Rogar, S.A., ISBN 84-934316-0-5. 4/3=1,3333 10. I. VOICULESCU, The behaviour of Aluminium matrix composites in welding processes, plenary presentation, 6th European Conference on Welding, Cutting and Joining Technologies, 16as Jornadas Tecnicas de Soldadura, EUROJOIN 6 – 16 JTS, 2006, p. 375-379, Spain, Ed. Graficas Rogar, S.A., ISBN 84-934316-0-5. 4/1=4 11. I. VOICULESCU, V. Geanta, R. Ștefănoiu, I.M. Vasile, M. Ionescu, D. Cărciumăreasa, Noi Materiale de Adaos pentru Încărcarea Dura (NEW FILLER MATERIALS FOR HARDFACING), <i>Conferința ASR "Sudura 2014"</i> - Sibiu, 9-11 aprilie 2014, p. 215-224; 4/6=0,6666 12. I. VOICULESCU, V. Geanta, R. Ștefănoiu, R. I. Petcovici, <i>Some Aspects Regarding The Surfaces Characteristics Obtained By Mechanical And Chemical Processing</i>, Aspecte Privind Caracteristicile Suprafetelor Obținute prin Procesare Mecanica si Chimica, Conferinta ASR "Sudura 2009", Dr.Turnu-Severin, 30 sept - 02oct. 2009, p. 103-113ISSN 1843-4738 4/4=1 TOTAL articole extenso =17,0664p
2.4. Proprietate intelectuală, brevete de invenție și inovație etc.		2.4.1. Internaționale	40/nr.de autori 1. Vamvakas S., Binchiciu E., Voiculescu I., Geanta V., Binchiciu A., Ștefănoiu R., Tihanov-Tanasache D., Binchiciu H., Dinking device for habitual crystal container to contain liquids e.g. soft drinks, has flange fixed with outer side of first body and inner side of clamping device of second body, and fastening device fixed to circumference of container, (Buletin official de la propiedad intelectual, 20 junio 2017), ES 1185609-U (Spania) Total brevete internaționale = 40/8=5p
		2.4.2. Naționale	20/număr de autori 1. VOICULESCU, I., Binchiciu, A., Geantă, V., Binchiciu, H., Ștefănoiu, R., Iovănaș, D., Negriu, R.M., Binchiciu, E. – Înveliș de electrozi pentru încărcarea prin sudare cu aliaje rezistente la uzare de abraziune – Patent Number: RO125761/30.12.2011. 20/8 = 2,5 2. VOICULESCU, I., Geantă, V., Ștefănoiu, R., Iacobescu, G., Grigoriu, C., Nicolae, I., Drăgulescu, D, Viespe Cr., Sima, C., Fugaru, V., Manea, S.E., Daisa, D.D. Metoda de sudare cu laser a unei capsule cu material radioactiv –

				Method for laser beam welding of one capsule with radioactive material. Patent Number: RO 128983/29.01.2016 20/12 = 1,6666 3. Binchiciu, H., Geantă, V., VOICULESCU, I., Binchiciu, A., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. Vida-Simiti, I.,. Electrode din bronz cu înveliș gros pentru încărcare prin sudare – Electrodes with composite bronze and tin coating, comprises alloy wire rods made of copper and tin. Patent Number: RO125855/30.07.2012. 20/8 = 2,5 4. Binchiciu, A., Geantă, V., VOICULESCU, I., Binchiciu, H., Ștefănoiu, R., Binchiciu, E., Negriu, R.M., Vergea pentru brazare din aliaj de argint cu înveliș dezoxidant – Ecological coated core wires of silver alloys for brazing, is made by extrusion coating with deoxidizing flux with metal powder addition. Patent Number: RO125835/30.07.2012. 20/7 = 2,8571 5. Binchiciu, A., VOICULESCU, I., Geantă, V., Ștefănoiu, R., Binchiciu, H., Constantin, E., Binchiciu, E., Negriu, R.M. – Electrode din bronz cu aluminiu cu înveliș compozit. Electrodes with composite coating of bronze alloy with aluminum. Patent Number: RO125856/30.08.2012. 20/8 = 2,5 6. Binchiciu, A., VOICULESCU, I., Geantă, V., Binchiciu, H., Ștefănoiu, R., Binchiciu, E. Vergea pentru brazare din aliaj de argint cu înveliș dezoxidant și cu higroscopicitate redusă – Coated rod for brazing from silver alloy with deoxidiser coating and reduced hygroscopicity, Patent Number: RO125836/18.03.2010. 20/6 = 3,3333 7. Binchiciu, H., Geantă, V., VOICULESCU, I., Ștefănoiu, R., Binchiciu, E., Negriu, R.M., Binchiciu, A. Electrode cu miez din aliaj tip 83%Fe – 17%Cr – Electrode with core from alloy type 83%Fe-17%Cr, Patent Number: RO125834/30.01.2013. 20/7 = 2,8571 8. Capornită, L., VOICULESCU, I., Geantă, V., Ștefănoiu, R., Binchiciu, A., Câmpurean, A.M., Iovănaș, D., Binchiciu, E., Negriu, R.M., Binchiciu, H. Electrode pentru sudarea îmbinărilor din oțel inoxidabil duplex cu oțel carbon – Electrode for welding heterogeneous duplex stainless steel-carbon steel joints. Patent Number: RO125859/30.08.2012. 20/10 = 2 9. Binchiciu, A., VOICULESCU, I., Geantă, V., Binchiciu, H., Ștefănoiu, R., Iovănaș, D., Binchiciu, E., Negriu, R.M. Blindaj antiuzură și procedeu de fabricație – Wear preventing shield with self-protection and process for making the same. Patent Number: RO125760/30.12.2011. 20/8 = 2,5 10. Binchiciu, H., Iovănaș, R., Geantă, V., VOICULESCU, I., Binchiciu, A., Iovănaș, D., Ștefănoiu, R., Binchiciu, E. Bară compozită pentru prelucrări prin presare la cald și procedeul sau de realizare – Irremovable modular composite element, comprises rectangular pipe made of carbon or slightly alloyed steel. Patent Number: RO125759/30.12.2011. 20/8 = 2,5 11. Binchiciu, H., Geantă, V., VOICULESCU, I., Binchiciu, A., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. Procedeu și instalație de obținere a unor pulberi din aliaje binare de aluminiu –magneziu destinate producerii unor piese metalice cu structură thixotropă – Process and installation
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			for producing powders of binary aluminium-magnesium alloys meant for making metal pieces of thixotropic structure. Patent Number: RO125770/30.12.2011. 20/7 = 2,8571 12. Geantă, V., VOICULESCU, I., Ștefănoiu, R., Binchiciu, H., Negriu, R.M. Prag de retenție pentru concasoarele centrifugale – Process and composite material for producing the retention aprons in centrifugal crushers. Patent Number: RO125587/30.01.2012. 20/5 =4 Total brevete naționale = 32,0712p
2.5. Granturi/proiecte câștigate prin competiție sau contracte cu mediul socio-economic (valoare minimum 25000lei)	2.5.1. Director/Responsabil – minimum 2D sau 4R pentru profesor	2.5.1.1. Internaționale	20*val/(10000Euro)
		2.5.1.2. Naționale	10*val/(10000Euro) 1. Tehnologie de sudare cu arc electric (SMAW și GMAW) a șinelor cap la cap (CF 49B – CF 49B, CF 49B – RI60, RI60-RI60), Director proiect, Programul RELANSIN, 2000, Contract Nr. 906/2000 – Valoare contract 800 mil.lei; cotație euro/ron =2,0202 in 19.09.2000 $10*(800.000.000/2,0202)/(10000)/10000=$39,60p 2. Tehnologie și dispozitiv pentru recondiționarea șinelor în curbă, Director proiect Programul Relansin, 2000, Contract Nr. 907/2000. – Valoare contract 980 mil. Lei, cotație euro/ron =2,0202 in 19.09.2000 $10*(980.000.000/2,0202)/(10000)/10000=$48,51p 3. Realizarea unei familii de vergele învelite, ecologice, pentru brazarea cu aliaje de argint – VERAG, Contract RELANSIN 2023/2004, www.amcsit.ro, Director proiect, valoare proiect 1.450.000 lei; cotație euro/ron=4,1192 in 15.09.2004 $10*(1.450.000/4,1192)/10000=$35,20p 4. Laborator pentru încercări construcții sudate - SUDOTEST, Contract RENAR nr. 238/12.10.2004, Responsabil UPB și Director laborator, valoare proiect 3.430.000.000 lei, cotație eur/ron 13.10.2004=3,9386 $10*(3.430.000.000/3,9386)/(10000)/10000=$87,086p 5. Laborator pentru încercări metalografice – LAMET – Contract RENAR nr. 122/10.08.2006, www.bizoo.ro/firma/lamet, Director proiect și Director laborator, valoare proiect 780000 ron, cotație eur/ron =3,5148, din 10.08.2006 $10*(780000/3,5148)/10000=$221,918p 6. Tehnologie de depunere prin sudare hibridă Laser-MIG cu pulberi – LASERDEP, Contract PNCD 2/PARTENERIATE, nr.72-216/01.10.2008, Director proiect; www.cnmp.ro:8083/pncdi2/program4/documente/2010/sedinta/, www.sudotim.ro/programe_parteneriat_sudotim.html, valoare UPB = 319482,22, cotație eur/ron =3,7348 $10*(319482,22/3,7348)/10000=$85,5419p 7. Materiale și tehnologii performante destinate realizării cutitelor de freza pentru asfalt – MATFREZ. Contract PARTENERIATE-PCCA, nr. 188/30.08.2012 www.sudotim.ro/pdf/WEB_raport_stiintific_RST.pdf, Responsabil UPB, valoare UPB = 350000 ron, cotație eur/ron =4,4617 $10*(350000/4,4617)/10000=$78,4454p 8. Nanomateriale de adaos microaliante pentru imbinarea materialelor ceramice – NANOCERAD, Contract PNCD 2 PARTENERIATE 71-118 /14.09. 2007, www.slideshare.net/parlitul/prezentare-71118, www.infim.ro/national-projects.htm, Responsabil UPB, valoare proiect UPB= 460000 ron, cotație eur/ron =3,3592 $10*(460000/3,3592)/10000=$136,9373p

				9.Cercetari inovative privind valorificarea complexa a materialelor si rezidurilor organice pentru obtinerea resurselor alternative regenerabile de energie in instalatii adaptate pentru mediul rural – RARENERG – Contract CEEEX nr. 114 / 2005, 25.10.2005, www.amcsit.ro – Responsabil UPB-CEMS, valoare proiect UPB= 225000 ron, cotație eur/ron = 3,6057 $10 \times (225000 / 3,6057) / 10000 = 62,4011p$ 10.Cercetări inovative privind realizarea unor noi materiale pentru sudare și procese de producție – MATAVSUD – Contract CEEEX nr. 99 / 2005 – 2007, www.amcsit.ro Responsabil UPB-CEMS, valoare proiect UPB= 180000 ron, cotație eur/ron = la 15.10.2005 $10 \times (180000 / 3,6127) / 10000 = 49,8242p$ 11.Cercetări fundamentale și aplicative privind realizarea bronzurilor cu 12-15 % staniu destinate obținerii unor straturi antifricțiune – BRONZINV – Contract CEEEX nr. 98 / 2005 – 2007, www.amcsit.ro, Responsabil UPB-CEMS, valoare proiect UPB= 180000 ron, la 15.10.2005, cotație eur/ron = 3,6127 $10 \times (180000 / 3,6127) / 10000 = 49,8242p$ 12.Cercetări fundamentale și aplicative privind realizarea bronzurilor CuNiAl destinate reconditionarii elicelor navale – ELNAV – Contract CEEEX nr. 322/2006, val. 280000 Ron, www.amcsit.ro – Responsabil UPB-CEMS, 06.10.2006, cotație eur/ron = 3,5212 $10 \times (280000 / 3,5212) / 10000 = 79,5183p$ 13.Materiale și tehnologii inovative pentru creșterea durabilității elementelor active din componența echipamentelor tehnice utilizate în agricultură – DURAG – Contract CEEEX nr. 298 /13.09.2006, Val. 420000 Ron, www.amcsit.ro, Director proiect., cotație eur/ron =3,5050 $10 \times (420000 / 3,505) / 10000 = 119,8288p$ 14.Tehnologii inovative de crestere a disponibilitatii utilajelor pentru reabilitarea drumurilor (terasiere) prin utilizarea elementelor modulate, incarcate cu straturi dure prin sudare – DURASTRADE – Contract CEEEX nr. 116 / 2005, 10.10.2005, www.amcsit.ro, Director proiect Sudotim, 120000 Ron, cotație eur/ron =3,5966 $10 \times (120000 / 3,5966) / 10000 = 33,3648p$ 15.Tehnologii inovative de obtinere din materiale compozite cu proprietati dirijate a lagarelor de alunecare pentru industria auto – TOMCD-Contract PNCD 2, PARTENERIATE, Nr. 71-048/2007, valoare UPB 300000Ron, 12.10.2007 www.cnmp.ro:8083/pncdi2/program4/competitie/main/index.., www.sudotim.ro/programe_parteneriat_sudotim.html, Responsabil UPB – CEMS. cotație eur/ron =3,3366 $10 \times (300000 / 3,3366) / 10000 = 89,9118p$ 16.Formarea prin pulverizare a electrozilor compoziti, utilizati pentru depuneri dure si sudare in puncte – PULVER – Contract PNCD 2 INOVARE 57/2007, 25.09.2007, Valoare proiect = 171500 Ron, www.sudotim.ro/programe_parteneriat_sudotim.html, www.upb-cems.ro/html/cercetare.html, Responsabil UPB, cotație eur/ron=3,3871 $10 \times (171500 / 3,3871) / 10000 = 50,6332p$ 17. Tehnologii inovative pentru realizarea de elemente modulate destinate fabricării sculelor pentru deformări plastice –ELMOD, Contract Parteneriate, nr. 71-039/25.09.2007, Valoare totală buget 1900000 Ron, valoare UPB 290000Ron.cotație eur/ron $10 \times (290000 / 3,3871) / 10000 = 85,6189p$ 18.TEHNologii MODERNE DE ASAMBLARE NEDEMONTABILA A COMPONENTELOR SISTEMELOR DE PROTECTIE INDIVIDUALA SAU
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				COLECTIVA, proiect complex nr. 20/PCCDI/2018, Responsabil proiect individual 3, UPB –Valoare proiect = 406351 Ron, cotație eur/ron = 4,6620 la 15.03.2018. $10 \times (406351 / 4,6620) / 10000 = 87,1623p$ Total proiecte nationale = 1441,3222p
	2.5.2. Membru în echipă	2.5.2.1. Internaționale		4*nr.ani de participare 1. ERBCIPACT 940192 - contract COPERNICUS-94, „Amelioration des techniques de fabrication et developpement des procedes de recyclage de materiaux metallique poliphase et composites pour applications dans les industries des transports” (cooperare România-Belgia-Franța-Slovacia), (1994), Coordonator: Prof.F.Delannay (Universite Catholique de Louvain, Belge), Coordonator UPB Prof. P. Moldovan 2. Metallurgie des materiaux nucleaire – proiect TEMPUS JEP 9863 – 1997, Partener CEA Saclay, Franta; 3. Quality Assurance in NDT (Non-Destructive Testing)–proiect TEMPUS S-JEP 11351-96, ITALIA (1998). 4. Training for Improving of Managerial Skills of University Teachers. Contract Leonardo da Vinci nr. RO/2001/PL87069/EX, Aveiro, Portugalia 2004. 5. SOCRATES RO BUCHAREST 11, 2004 – 2007, Universidade NOVA de Lisboa, Portugal, 28.04.2006 – 14.05. 2006. 6. Centre Professionnel pour Formation Continue en Productique Moderne. Contract Leonardo da Vinci nr. RO/2000/B/F/PP141037, București, 2001. 7. Certification des competences dans le management de l’environnement, Certificarea competențelor în domeniul managementului de mediu. Contract Leonardo da Vinci nr. RO / 2003 / PL91110/EX – Marche-en-Famenne, Belgia, 2004.
		2.5.2.2. Naționale		2*nr. ani de participare 1. Sistem expozițional pentru prezentarea realizărilor din cadrul programului Relansin, UPB – CEMS, București, 2003, Programul Relansin, Contract Nr. 1479/2001 (3 ani) $2 \times 3 = 6$ 2. Realizarea coliviilor de rulmenți din materiale compozite Al/Grafit, UPB – CEMS, București, 2002, Programul Relansin, Contract Nr. 857/2000 (3 ani) $2 \times 3 = 6$ 3. Studiu documentar privind locul de inițiere a impurificării oțelului pe fluxul de fabricație a bramelor turnate continuu, partener UZINSIDER Engineering S.A. Galați, Contract CEMS – 2001 (2 ani) $2 \times 1 = 2$ 4. Realizarea și implementarea lăncilor răcite cu apă în vederea modificării procesului tehnologic de obținere a cuprului și optimizării randamentelor metalurgice, UPB – CEMS, 2003, Programul Relansin, Contract Nr. 1700/2003, (3 ani) $2 \times 3 = 6$ 5. Cercetari privind obținerea prin turnare a aliajelor pe bază

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		2.6. Coordonare/ dezvoltare laborator, centru cercetare	Responsabil		40p Laborator pentru încercări metalografice - LAMET (acreditat RENAR 2009-2014) CK106 Punctaj = 40 Laborator pentru sudare CF007 – Sudare 2 (2004-2019) Punctaj = 40 Total coordonare laboratoare = 80p Total A2 = 318,641+104,5176+17,0664+37,0712+1441,3222 +188+80=2186,6184p
3		3.1. Vizibilitate în baze de date internaționale	Număr de citări în publicații (fără autocitări)	3.1.1. Citări în articole indexate ISI (Isi web of knowledge)	1.Geantă, V., VOICULESCU, I., Ștefănoiu, R., Savastru, D., Csaki, I., Patroi, D., Leonat, L. <i>Processing and characterization of advanced multi-element high entropy materials from AlCrFeCoNi system</i>. OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS, Vol. 7, No. 11-12, p. 874-880, 2013. Cotate ISI Thomson Reuters, FI = 0,402. ISSN: 1842-6573.

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			3.1.3. Citări în alte publicații (fără autocitări)	1. Researches regarding the influence of chemical composition on the properties of Al_xCrFeCoNi alloys, R Ștefănoiu, V Geanta, I Voiculescu, I Csaki, N Ghiban <i>Revista de chimie</i> 65 (7), 819-821, 14 citari 1a. Strengthening mechanisms in equiatomic ultrafine grained AlCoCrCuFeNi high-entropy alloy studied by micro-and nanoindentation methods, RS Ganji, PS Karthik, KBS Rao, <u>KV Rajulapati</u> - <i>Acta Materialia</i>, 2017 - Elsevier 1b. THERMODYNAMIC MEASURES CALCULATION FOR Pb–Sb BINARY ALLOY SYSTEM USING REDLICH–KISTER THEORETICAL MODEL, F Niculescu, DF Marcu, I. Constantin, <i>UPB Sci. Bull, Serie B</i>, 2016 - scientificbulletin.upb.ro; 1c. Study on Wear Resistance FeNiCrMnAl High Entropy Alloy-Mechanical Properties, G Buluc, R Chelariu, G Popescu, M Sârghi, - <i>Key Engineering</i>, 2017 - Trans Tech Publ 2. Influence of the chemical composition on the microstructure and microhardness of AlCrFeCoNi high entropy alloy, I Voiculescu, V Geanta, R Ștefănoiu, D Patrop, H Binchiciu, <i>Revista de Chimie</i> 64 (12), 1441-1444, citata 12

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	3.2. Prezentări efectuate ca invitat în plenul unor manifestări științifice naționale sau internaționale și profesor invitat (exclusiv Erasmus)		3.2.1. În străinătate	20p 1. VOICULESCU, I. Laser Welding of capsules for X-Ray control, Seminar științific la Universidad Politecnica de Madrid, Departamento de Fisica Aplicada ETS Ingenieros Industriales, 19. Oct. 2010, profesor invitat. K_{p1} = 20 2. VOICULESCU I., V. Geanta, E.M. Binchiciu, P. Vizureanu, H. Binchiciu, WELDING BEHAVIOUR OF NEW BIOCOMPATIBLE TITANIUM ALLOYS, VIII International Congress of Metallurgists of Macedonia, 30 May - 3 June 2018, Ohrid, Macedonia, invited lecture K_{p2} = 20 1. VOICULESCU, I., The behaviour of aluminium matrix

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				elements on the microstructure and microhardness of welded titanium alloys for medical application, The 4th South-East European Welding Congress, Belgrade, Serbia, 2018, prezentare în secțiuni 15. <u>I. VOICULESCU</u>, V. Geantă, R. Ștefănoiu, A. Rotariu, E. Scutelnicu, D. Mitrică, I. Miloșan, EFFECT OF HEAT TREATMENT ON THE MICROSTRUCTURE AND MICROHARDNESS OF NEW HIGH ENTROPY ALLOYS WITH HIGH DENSITY, Bramat 2019, Brașov, Romania (Keynote speaker) 16. <u>VOICULESCU I.</u>, Geanta V., Binchiciu A., Binchiciu H., Recent progress in soldering materials, The day of Macedonian Metallurgists, 6th of May 2017, prezentare in secțiuni Total prezentări manifestări internaționale : 40p
			3.2.2.În țară	10p 1. <u>VOICULESCU, I.</u>, <i>The influence of the electron - beam remelting process on the superficial properties of aluminum – graphite composites</i>, prezentare in secțiuni, Conferința Națională de Metalurgie și Știința Materialelor/National Conference of Metallurgy and Materials Science CNMSM 2001, București 20-21 Sept. 2001 prezentare in secțiuni, 2. <u>VOICULESCU, I.</u>, <i>Computational program for macrographic analyze of welds</i>, prezentare in secțiuni, Conferința ASR 28-30 Sept. 2005; 3. <u>VOICULESCU, I.</u>, <i>Aspecte privind durificarea secundară a depunerilor dure cu electrod învelit</i>, LI 31, prezentare in secțiuni, Conferinta CeEx 2006 – Brasov; 4. <u>VOICULESCU, I.</u>, Geantă, V., Binchiciu, H., Vida-Simiti, I., Jumate, N., Vasile, R., Lungu, D., <i>New Consumable for Tin Alloy Weld Deposit with 12 – 15 % Sn Content</i>. Conference EXCELLENCE RESEARCH – A Way to ERA, Brașov, Romania, 24 – 26 October, 2007; prezentare in secțiuni, 5. <u>VOICULESCU, I.</u>, Iovănaș, R., Geantă, V., Binchiciu, H., Ștefănoiu, R., Rontescu, C., <i>New Consumable for Hard Deposit with Carbides Content</i>, Conference EXCELLENCE RESEARCH– A Way to ERA, Brașov, Romania, 24 – 26 October, 2007; prezentare in secțiuni, 6. <u>VOICULESCU, I.</u>, V.Geanta, H.Binchiciu, D.Braharu, T.Catuneanu, <i>Researches regarding the behavior of bi-metal hardfaced agricultural tools</i>, Conference EXCELLENCE RESEARCH, A way of innovation, Brasov, 2008; prezentare in secțiuni, 7. <u>VOICULESCU, I.</u>, <i>Aspecte privind caracteristicile suprafețelor obținute prin procesare mecanică și chimică</i>, prezentare in secțiuni, Conferinta ASR, Drobeta Tr. Severin, 2009; 8. <u>VOICULESCU, I.</u>, Vasile, I.M., Geantă, V., Binchiciu, H., Trușcă, R. <i>Efectul temperaturii de funcționare asupra caracteristicilor depunerilor dure efectuate pe probe de oțel microaliat</i>. Conferința ASR "SUDURA 2013" 17 - 19 aprilie 2013, București, prezentare secțiuni 9. <u>VOICULESCU, I.</u>, V. Geanta*, R. Ștefănoiu*, I.M. Vasile*, M. Ionescu**, D. Cărciumăreasa, <i>Noi materiale de adaos pentru încărcarea dură (NEW FILLER MATERIALS FOR HARDFACING)</i>, Conferința ASR "Sudura 2014" - Sibiu, 9-11 aprilie 2014; prezentare secțiuni
	3.3. (a) Membru în colectivele de redacție sau comitete științifice ale	Se ia în considerare o singură dată pentru o revistă sau manifestare	3.3.1. Indexate ISI	10p <u>Recenzent internațional</u> 1. „DAAAM International”, Viena, Austria, 2009/2010 – International member of scientific committee and reviewer. K_{p1} = 10

	revistelor și manifestărilor științifice, organizator de manifestări științifice / (b) Recenzor pentru reviste și manifestări științifice naționale și internaționale indexate ISI	științifică		2. MATERIALSCHAR_2017, Materials Characterization, EviseSupport@elsevier.com, Rewiever K_{p2} = 10 3. JMAD (Journal of Materials and Design)-D-16-03284, 2016-2018 http://ees.elsevier.com/jmad/, Rewiever K_{p3} = 10 4. PROTEC-D-16-02950, 2016-2018, Journal of Materials Processing Technology, eesserver@eesmail.elsevier.com>, Rewiever K_{p4} = 10 5. MSE (Materials Science and Engineering A)-D-17, K_{p5} = 10 6. JAST (Journal of Adhesion Science and Technology)-2018-0001 K_{p6} = 10 7. Defense Technology – 2018 K_{p7} = 10 8. International Journal of Materials Science and Applications (IJMSA)-2018 K_{p8} = 10 <u>Membru comitet științific/editorial</u> 9. The 4th IIW South-East European Welding Congress, Belgrade, Serbia, 2018, Member Scientific Committee K_{p9} = 10 10. Conferința „BRAMAT” Brasov, Romania – Member of Scientific Committee K_{p10} = 10 11. Membru comitet editorial, Journal PROCEEDINGS IN MANUFACTURING SYSTEMS Total recenzer/membru comitet științific internațional = 100p
			3.3.2. Indexate BDI	8p 1. UPB SCIENTIFIC BULLETIN, SERIES D: MECHANICAL ENGINEERING- Recenzor K_{p1} = 8 2. THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE XII, WELDING EQUIPMENT AND TECHNOLOGY, ISSN 1221 – 4639 – Recenzor K_{p2} = 8 3. Conferința ACME 2016, Iasi - Recenzor K_{p3} = 8 4. Bulletin of the Transilvania University of Brasov, Serie 1, Recenzor, 2017 K_{p4} = 8 Total recenzor = 32p
			3.3.3. Naționale și internaționale neindexate	5p 1. Conferința „Sudura” 2013, București, Organizator ca președinte al Filialei ASR București K_{p1} = 5 Total organizator = 5p
	3.4. Experiență de management, analiză și evaluare în cercetare și/sau învățământ		3.4.1. Conducere	5*ani desfășurare 1. Expert european Leonardo da Vinci si responsabil proiecte pilot la Agentia Nationala LdV (1999-2001); 5x3=15 2. Secretar al Comisiei Naționale de Evaluare a Proiectelor LdV (2001-2002), numită prin ORD MEC Nr. 3022/2001. 5x2=10 3. Director laborator acreditat RENAR – Laborator pentru

				încercări metalografice – LAMET (2006 – 2019) 5x14=70 Total activitate management = 95p
		3.4.2. Membru		2*ani desfășurare 1. Membru in Senatul UPB (2014-2015) 2x2=4 2. Membru in Consiliul Facultatii IMST (2004-2008) 2x4=8 3. Membru in Consiliul de conducere al Dep. ICTI (2004-2008) si (2014-2019-prezent) 2x11=22 4. Membru in Comisia de Etica si Integritate a UPB (2015-2018) 2x4=8 5. Evaluator AMCSIT Politehnica K_{p2} = 2x4 = 8 6. Evaluator MATNANTECH K_{p5} = 2x2 = 4 7. Evaluator CNCISIS K_{p6} = 2x2 = 4 8. Evaluator WILEY-VCH, Verlag GmbH, Germany K_{p7} = 2x1 = 2 9. Evaluator PNCDI III K_{p8} = 2x1 = 2 Total membru comisii =62p
	3.5. Premii	3.5.1. Academia Română		30p
		3.5.2. ASAS, AOSR, academii de ramură		15p
		3.5.3. Premii internaționale		10p 1. I. VOICULESCU, Premiu special acordat de Korea INVENTION NEWS, Group of inventions, 4th Edition of European Exhibition of Creativity and Innovation, EUROINVENT 2012, Iasi, Romania. K_{p1}=10 2. I. Voiculescu, V. Geanta et all., Diploma and Gold Medal for invention - Laser Welding Method of the Capsules with Radioactive Material, International Exhibition of Economic and Scientific Innovations, Katowice, Poland, 2016. K_{p2} = 10 Total premii internaționale: 20p
		3.5.4. Premii naționale		5p 1. I. VOICULESCU, I.M. Vasile, E.M. Stanciu, A. Pascu, <i>Știința și ingineria materialelor</i>, Diploma si medalie de aur la Tehnical-Scientific, Artistic and Literary Book Salon, European Exhibition of Creativity and Innovation, EUROINVENT Iasi 2015 K_{p1}= 5 2. I. VOICULESCU, C.Rontescu, I.L.Dondea, <i>Metalografia Îmbinărilor Sudate</i>, Editura SUDURA, Timisoara, 2010, ISBN 978-973-8359-58-1, Diploma si medalie de aur, NATIONAL SALON of TECHNICAL and SCIENTIFIC BOOKS (Salonul National de Carte Tehnica si Stiintifica), Iasi, 2012. K_{p2}=5 3. Binchiciu, H., Geantă, V., VOICULESCU, I., Binchiciu, H., Vida-Simiti, I., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. Electrozi cu înveliș compozit din bronzuri cu staniu.

				Diploma de excelență și Medalia de aur, Salonul internațional de invenție PROINVENT, Ediția a IX-a, Cluj-Napoca, 22 – 25 martie 2011. K_{p3} = 5 4. Binchiciu, A., <u>VOICULESCU, I.</u>, Geantă, V., Binchiciu, A., Ștefănoiu, R., Iovănaș, D., Binchiciu, E., Negriu, R.M. Grup de invenții. Diploma de excelență și Medalia de aur, Salonul internațional de invenție PROINVENT, Ediția a IX-a, Cluj-Napoca, 22 – 25 martie 2011. K_{p4} = 5. 5. Geantă, V., <u>VOICULESCU, I.</u>, Ștefănoiu, R., Binchiciu, H., Negriu, R.M. Group of Inventions. Gold Medal. European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, may 12 – 14, 2011. K_{p5} = 5 6. Binchiciu, H., Geantă, V., <u>VOICULESCU, I.</u>, Binchiciu, A., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. Procedeu și instalație de obținere a unor pulberi din aliaje binare de aluminiu-magneziu destinate producerii unor piese metalice cu structură thixotropică. Diploma de excelență PRO INVENT, Salonul internațional de invenție PROINVENT, Ediția a X-a, Cluj-Napoca, 27 – 30 martie 2012. K_{p6} = 5 7. Geantă, V., <u>VOICULESCU, I.</u>, Ștefănoiu, R., Binchiciu, H., Negriu, R.M. Prag de retenție pentru concasoare centrifugale. Diploma de excelență PRO INVENT, Salonul internațional de invenție PROINVENT, Ediția aX-a, Cluj-Napoca, 27 – 30 martie 2012. K_{p7} = 5 8. <u>VOICULESCU, I.</u>, Binchiciu, A., Geantă, V., Binchiciu, H., Ștefănoiu, R., Iovănaș, D., Negriu, R.M., Binchiciu, E. Electrodes coating for welding deposition using hard resistant wear alloys. Bronze Medal. European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, may 10 – 12 2012. K_{p8} = 5 9. Binchiciu, A., <u>VOICULESCU, I.</u>, Geantă, V., Binchiciu, H., Ștefănoiu, R., Iovănaș, D., Binchiciu, E., Negriu, R.M. Wear preventing shield and manufacturing process. Gold Medal. European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, may 10 – 12, 2012. K_{p9} = 5 10. Geantă, v., <u>VOICULESCU, I.</u>, Ștefănoiu, R., Binchiciu, H., Negriu, R.M. Retention apron for centrifugal crushers. Gold Medal. European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, may 10 – 12, 2012. K_{p10} = 5 11. Geantă, V., <u>VOICULESCU, I.</u>, Binchiciu, H., Binchiciu, A., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. Installation and procedure for obtaining powders of binary aluminium-magnesium alloys used for making metal pieces with thixotropic structure. Diploma de excelență - ICECHIM. 5-th European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, May 9 – 11, 2013. K_{p11} = 5 12. Geantă, V., <u>VOICULESCU, I.</u>, Binchiciu, H., Binchiciu, A., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. Installation and procedure for obtaining powders of binary aluminium-magnesium alloys used for making metal pieces with thixotropic structure. Diploma de excelență - ICECHIM. 5-th European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, May 9 – 11, 2013. K_{p12} = 5
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				13. Ștefănoiu, R., Geantă, V., Binchiciu, H., VOICULESCU, I., Binchiciu, A., Binchiciu, E. Electrode with core from alloy 83%Fe-17% Cr. Silver Medal. 5-th European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, May 9 – 11, 2013. K_{p13} = 5 14. Geantă, V., VOICULESCU, I., Binchiciu, H., Binchiciu, A., Ștefănoiu, R., Binchiciu, E., Negriu, R.M. Installation and procedure for obtaining powders of binary aluminium-magnesium alloys used for making metal pieces with thixotropic structure. Gold Medal. 5-th European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, May 9 – 11, 2013. K_{p14} = 5 15. VOICULESCU, I., Geantă, V., Ștefănoiu, R., Iacobescu, G., Grigoriu C., Nicolae, I., Dragulinescu, D., Viespe, C., Sima, C., Fugaru, V., Manea S.E., Daisa D.D. Instalație automatizată de sudare cu fascicul de laser a capsulelor radioactive pentru medicină nucleară și procedeu de utilizare. Diplomă de Excelență și Medalia de Argint. Salonul Internațional de Inventică, Ediția a XII-a, 19-21 martie 2014, Cluj-Napoca, România. K_{p15} = 5 16. VOICULESCU, I., Geantă, V., Ștefănoiu, R., Iacobescu, G., Grigoriu C., Nicolae, I., Dragulinescu, D., Viespe, C., Sima, C., Fugaru, V., Manea S.E., Daisa D.D. Automated installation for laser beam welding of radioactive capsules for nuclear medicine and method of use”. Silver Medal. European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, May 24, 2014. K_{p16} = 5 17. Geantă, V., VOICULESCU, I., Ștefănoiu, R. Innovative Research in Elaboration of Metallic Materials. Special Prize. European Exhibition of Creativity and Innovation, EUROINVENT, Iași, România, May 24, 2014. K_{p17} = 5 18. Binchiciu, E., Binchiciu, A., Binchiciu, H., VOICULESCU, I., Geantă, V., Ștefănoiu, R. Bandă compozită cu proprietăți de autoasculire pentru ranforsarea suprafețelor active ale utilajelor de prelucrarea solului și proprietăți de obținere. Gold medal.Salonul Internațional de Inventică, Ediția a XIII-a, 25-27 martie 2015, Cluj-Napoca, România. K_{p18} = 5 19. Binchiciu, E., Geantă, V., VOICULESCU, I., Ștefănoiu, R., Iovăna, R.F., Binchiciu, A., Binchiciu, H. Cuțit de freză pentru asfalt cu sistem de autoprotecție la uzare și autoblocare la rotire și procedeu de fabricație. Salonul Internațional de Inventică, Ediția a XIII-a, 25-27 martie 2015, Cluj-Napoca, România. K_{p19} = 5. 20. I. VOICULESCU, Geanta V., Stefanoiu R., Iacobescu G., Grigoriu C, Nicolae I., Drăgulinescu D., Viespe C., Sima C., Fugaru V., Manea S., Daisa D, Diploma si medalie de aur la Tehnical-Scientifical, Artistic and Literary Book Salon, European Exhibition of Creativity and Innovation, EUROINVENT Iasi, 2016, pentru brevet „Metoda de sudare cu laser a unei capsule cu material radioactiv”, Patent Number: RO 201200305/03.05.2012 K_{p20} = 5 21. H. Binchiciu, D. Tihanov-Tanasache, V. Geanta, E. Binchiciu, I. VOICULESCU, A. Binchiciu, R. Ștefănoiu, Diploma de excelență și medalia de aur cu mențiune specială pentru inventia – Ciocane de mori pentru macinare prin
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				impact si procedeele lor de obtinere, Salonul International de Inventica PRO-INVENT, ed. XIV, 2016, Cluj-Napoca, Romania $K_{p21} = 5$ 22. E. Binchiciu, <u>I. VOICULESCU</u>, V. Geanta, A. Binchiciu, R. Stefanoiu, D. Tihanov-Tanasache, H. Binchiciu, Diploma si medalie de aur pentru inventia- Coated rods for brazing and obtaining process, Expozitia Europeana a Creativitatii si Inovarii, Iasi 2016 $K_{p22} = 5$ 23. H. Binchiciu, D. Tihanov-Tanasache, V. Geanta, E. Binchiciu, <u>I. VOICULESCU</u>, A. Binchiciu, R. Stefanoiu, Diploma si medalie de argint pentru inventia – Hammer for mills grinding through impact and its obtaining process, Expozitia Europeana a Creativitatii si Inovarii, Iasi 2016 $K_{p23} = 5$ 24. <u>I. VOICULESCU</u>, V. Geanta, R. Stefanoiu, G. Iacobescu, C. Grigoriu, I. Nicolae, D. Dragulinescu, C. Viespe, C. Sima, V. Fugaru, S.E. Manea, D.D. Daisa, Diploma si medalie de aur pentru inventia - <i>Laser Welding Method of the Capsules with Radioactive Material</i>, la European Exhibition of Creativity and Innovation, EUROINVENT Iasi 2016. $K_{p24} = 5$ 25. Diploma GOLD MEDAL, EUROINVENT, Iași, Romania, May 2017 - Filler material for cladding by arc-welding with high toughness and hardness and procedure for obtaining - Geantă, V., <u>VOICULESCU, I.</u>, Ștefănoiu, R., Binchiciu, H., Vasile, M.I., Bârlădeanu, M., Ionescu, M., Cărciumăreasa, D., Irimia, M. $K_{p25} = 5$ 26. Diploma și SILVER MEDAL EUROINVENT, Iași, Romania, May 2017 – Microalloyed steel with high toughness in normalized condition and procedure for obtaining - Tacă, M., Daisa, D.D., Geantă, V., <u>VOICULESCU, I.</u>, Ștefănoiu, R., Constantinescu, D.M., Vintilă, A., Vintilă, A. $K_{p26} = 5$ 27. Diploma de excelență a Universității din Craiova acordată în cadrul EUROINVENT 2017 - Filler material for cladding by arc-welding with high toughness and hardness and procedure for obtaining - Geantă, V., Voiculescu, I., Ștefănoiu, R., Binchiciu, H., Vasile, M.I., Bârlădeanu, M., Ionescu, M., Cărciumăreasa, D., Irimia, M. $K_{p27} = 5$ 28. Diploma și medalie de aur la Salonul Internațional de Invenții și Inovații Traian Vuia, Timișoara, 9 iunie 2017. Vergele învelite pentru brazare și procedeu de realizare. Binchiciu, E., <u>VOICULESCU I.</u>, Geantă V., Binchiciu A., Ștefănoiu R., Tihanov D., Binchiciu H. $K_{p28} = 5$ 29. Diploma și medalie de aur la Salonul Internațional de Invenții și Inovații Traian Vuia, Timișoara, 9 iunie 2017. Ciocane de mori pentru măcinare prin impact și procedeele lor de obținere. Binchiciu, H., Tihanov D., Geantă V., Binchiciu E., <u>VOICULESCU I.</u>, Binchiciu A., Ștefănoiu R. $K_{p29} = 5$ 30. Diploma și medalie de aur la Salonul Internațional de Invenții și Inovații Traian Vuia, Timișoara, 9 iunie 2017. Blindaj antiuzură și procedeu de fabricație. Binchiciu, A., <u>VOICULESCU I.</u>, Geantă V., Binchiciu H., Ștefănoiu R., Iovănaș D., Binchiciu E., Negriu M.R. $K_{p30} = 5$ 31. Diploma și medalie de aur la Salonul Internațional de Invenții și Inovații Traian Vuia, Timișoara, 9 iunie 2017. Armături amovibile de înaltă rezistență la uzare și procedeu de
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					obținere. Ștefănoiu R., Binchiciu E., VOICULESCU, I., Geantă, V., Binchiciu H. Kp₃₁=5 32. Diploma și medalia de aur la Salonul Internațional de Invenții și Inovații Traian Vuia, Timișoara, 9 iunie 2017. Electrode pentru crăițuire aer-arc și procedeu de obținere. VOICULESCU, I., Binchiciu, E., Geantă, V., Binchiciu, H., Ștefănoiu, R. Kp₃₂=5 33. Diploma și medalia de aur la Salonul Internațional de Invenții și Inovații Traian Vuia, Timișoara, 2017. Bandă compozită cu proprietăți de auto-ascuțire pentru ranforsarea suprafețelor active ale utilajelor de prelucrare a solului și procedeu de obținere. Binchiciu E., VOICULESCU I., Geantă V., Binchiciu H., Ștefănoiu R. Kp₃₃= 5 Total premii naționale = 165p
		3.6. Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării	3.6.1. Academia Română		100p
			3.6.2. ASAS, AOSR și academii de ramură		20p
			3.6.3. Conducere asociații profesionale	3.6.3.1. Internaționale	30p
				3.6.3.2. Naționale	10p Asociația de Sudură din România, din 1992. Presedinte Filiala ASR București (2013-2018) Total conducere asociație profesională = 10p
			3.6.4. Asociații profesionale	3.6.4.1. Internaționale	5p 1. AIM - Associazione Italiana di Metallurgia, Italia, 1995. Kp ₂ = 5 2. ASM International - The Materials Information Society European Office - Belgia, 1994. Kp ₃ = 5 Total membru asociații internaționale= 10p
				3.6.4.2. Naționale	3p 1. Asociația de Sudură din România (ASR), Membru din 1992 Kp ₁ = 3 2. Asociația Generală a Inginerilor din România – AGIR, din 1992. Kp ₂ = 3 3. ALUMNI – din 2014 Kp ₃ = 3 Total membru asociații naționale = 9p
			3.6.5. Organizații în domeniul educației și cercetării	3.6.5.1. Conducere	10p
				3.6.5.2. Membru	5p
Total A3 = 171,1016+54,9989+40+100+32+5+95+62+20+165+10+10+9=774,1005p					
TOTAL GENERAL = A1+A2+A3 =181,924 +2186,6184 +774,1005 = 3142, 6429p					