

BOGATU CRISTINA-AURICA

Fișă de îndeplinire a standardelor minime pentru ocuparea postului de conferențiar universitar aprobate prin
Anexa Ordin 6129/2016 – standarde valabile începând cu 1.10.2017
Comisia de Ingineria Materialelor

A1. Activitatea didactică și profesională (conferențiar - minim 30 puncte)

TOTAL PUNCTE ÎNDEPLINITE A1 = 107,93 PUNCTE

1.1 Carti si capitole in carti de specialitate in edituri recunoscute			Calcul	Punctaj indeplinit
1.1.1 Carti/ capitole ca autor	1.1.1.1. internationale Calcul: Nr. Pag./ (2xnr.autori)	Bogatu C. , Covei M., Tismanar I., Perniu D., Duta A., <i>Composite nanostructures as potential materials for water and air cleaning with enhanced efficiency</i> , in: <i>Advanced nanostructures for environmental health</i> , Editura Elsevier, 2020, 431-463 (33 pag) ISBN: 9780128158821 https://doi.org/10.1016/B978-0-12-815882-1.00010-0 https://www.sciencedirect.com/elsevier/information/ro/search?pub=Advanced%20nanostructures%20for%20environmental%20health	33/(2x5)	3,30
		Covei M., Perniu D., Bogatu C. , Duta A., <i>ZnO Thin Films with Controlled Properties Deposited by Spray Pyrolysis</i> , in <i>ZnO Thin Films: Properties, Performance and Applications</i> , Editura NOVA, series Materials Science and Technology, Editura Nova, series Materials Science and Technology, Editor Paolo Mele, ISBN: 978-1-53616-086-4 (21 pag) https://novapublishers.com/shop/zno-thin-films-properties-performance-and-applications/	21/(2x4)	2,63
		Bogatu C. , Perniu D., Isac L., Covei M., Duta A., <i>Design and Development of TiO₂ Based Dispersions for Photocatalytic Fabrics</i> , in: <i>Proceedings of the Conference on Sustainable Energy 2017 – Nearly Zero Energy Communities</i> (Editor I.Visa, A. Duta), Editura Springer 2017, 521-549, ISBN 978-3-319-63215-5, (29 pag) https://link.springer.com/chapter/10.1007/978-3-319-63215-5_38	29/(2x5)	2,90
		Isac L., Panait R., Enesca A., Bogatu C. , Perniu D., Duta A., <i>Development of Black and Red Absorber Coatings for Solar Thermal Collectors</i> , in: <i>Proceedings of the Conference on Sustainable Energy 2017 – Nearly Zero Energy Communities</i> (Editor I.Visa, A. Duta), Editura Springer 2017, 263-282 ISBN 978-3-319-63215-5 (20 pag) https://link.springer.com/chapter/10.1007/978-3-319-63215-5_20	20/(2x6)	1,66

1.1 Carti si capitole in carti de specialitate in edituri recunoscute			Calcul	Punctaj indeplinit
		I. Manciulea, L. Dumitrescu, C., Bogatu, C. Draghici, D. Lucaci, Compost Based on Biomass Wastes Used as Biofertilizers or as Sorbent, in: Proceedings of the Conference on Sustainable Energy 2017 – Nearly Zero Energy Communities (Editor I.Visa, A. Duta), Editura Springer 2017, 566-585, ISBN 978-3-319-63215-5 (20 pag). https://link.springer.com/chapter/10.1007/978-3-319-63215-5_40	20/(2x5)	2,00
		Duta A., Enesca A., Isac L., Perniu D., Andronic L., Bogatu C. , Thin Film Vis-Active Photocatalysts For Up-Scaled Wastewater Treatment in: Proceedings of the Conference on Sustainable Energy 2014 - Sustainable Energy in the Built Environment-Steps Towards nZEB (Editor I.Visa), Editura Springer 2014, 521-538, ISBN 978-3-319-09706-0 (18 pag), http://link.springer.com/chapter/10.1007/978-3-319-09707-7_39	18/(2x6)	1,50
	1.1.1.2. nationale (minim 1) Prim autor: 1 carte, 1 capitol Calcul: Nr.Pag/ (5xnr.autori)	Bogatu C. , Sisteme disperse. Rolul lor in poluarea si depoluarea mediului, Editura Universitatii Transilvania din Brasov, 2020, ISBN 978-606-19-1246-9 (197 pag)	197/(5x1)	39,4
		Bogatu C. , Voinea M., Ienei E., Duta A., Straturi subfiri depuse electrochimic pentru elementele active in conversia solar – termică, în Electrochimie si corozioane pentru doctoranzii ELCOR (Visan T. si colaboratorii) Vol.4, Editura Politehnica Press 2009, Bucuresti (30 pag)	30/(5x4)	1,50
1.1.2 Carti/ capitole ca editor	1.1.2.2. nationale Calcul: Nr.pag/ (7xnr.editor)	Volumul Conferintei Internationale de Stiinta si Ingineria Materialelor BRAMAT 2003, VoLIV, Editura Universitatii Transilvania din Brasov, ISBN 973-635-126-2, Editori: A. Duță A., Iosif C., Manciulea I., (514 pag).	514/(7x3)	24,47
		Volumul Conferintei Internationale de Stiinta si Ingineria Materialelor BRAMAT 2001,1-2 martie 2001, Editura Universitatii Transilvania din Brasov, ISBN 973-8124-15-8, Editori: Duță A., Iosif C., Manciulea I., (450 pag.)	450/(7x3)	21,42
1.2 Suport didactic				
1.2.1 Materiale didactice/monografii inclusiv electronice (minim.1) 1 material didactic Calcul: Nr. Pag/(10xnr. autori)	Țică R., Perniu D., Bogatu C., Manciulea I., Chimie, Reprografia Universitatii Transilvania, Brasov, 2012– Curs pentru ID - IEL, AR, IESC (148 pag)		148/(10x4)	3,70
1.2.2. Indrumatoare de laborator/ aplicatii Calcul: Nr. Pag/(20xnr. autori)	Țică R., Iosif C., Chimie anorganică - Nemetale, Îndrumar de laborator, Reprografia Universității “Transilvania” din Brașov, 2002 (99 pag.)		99/(20x2)	2,475
	Țică R., Iosif C., Chimie anorganică - Metale, Îndrumar de laborator, Reprografia Universității “Transilvania” din Brașov, 2003 (39 pag.)		39/(20x2)	0,975
			Total A1 = 107,93 puncte	

A2. Activitatea de cercetare (conferențiar-minim 160 puncte)**TOTAL PUNCTE INDEPLINITE A2 = 974,61 PUNCTE****A.2.1 Articole in reviste cotate ISI Thomson Reuters-Web of Science Core Collection si in volume indexate ISI proceedings Web of Science**

(Min. 10 articole pentru conferențiar din care min 5 in Reviste cotate ISI Th. R.(din care min 3 cu FI de min 1 - **21 articole cu FI** de min 1 și min 2 ca autor principal cu F.I. min 0,5 - **8 articole**); *punctajul s-a calculat cu FI din anul publicării articolului*

Nr. crt.	Articole in reviste ISI Thomson Reuters Calcul: $(50 \cdot X)/nr \text{ autori}$ pt. reviste: $X=FI$	Calcul	Număr de autori	Autor principal	Punctaj
1.	Covei M., Perniu D., Bogatu C. , Duta A., <i>CZTS-TiO₂ thin film heterostructures for advanced photocatalytic wastewater treatment</i> , Catalysis Today, 321–322 (2019) 172-177 ISSN: 09205861, FI=4,888, DOI: 10.1016/j.cattod.2017.12.003 https://www.scopus.com/am.e-nformation.ro/authid/detail.uri?authorId=22033552200 https://www.sciencedirect.com/science/article/abs/pii/S0920586117308222	$(50 \cdot 4,888)/4$	4	Nu	61,10
2.	Bogatu C. , Covei M., Tismanar I., Perniu D., Duta A., <i>Stability of the Cu₂ZnSnS₄/TiO₂ photocatalytic thin films active under visible light irradiation</i> , Catalysis Today, 328 (2019) 79-84, ISSN: 09205861, FI=4,888. https://doi.org/10.1016/j.cattod.2018.11.031 https://www.scopus.com/am.e-nformation.ro/authid/detail.uri?authorId=22033552200 https://www.sciencedirect.com/science/article/abs/pii/S0920586118310861	$(50 \cdot 4,888)/5$	5	Da	48,800
3.	Covei M., Bogatu C. , Perniu D., Duta A., Visa I., <i>Self-cleaning thin films with controlled optical properties based on WO₃-rGO</i> , Ceramics International 45 (2019) 9157–9163, ISSN: 02728842, FI=3,450 https://doi.org/10.1016/j.ceramint.2019.01.256 https://www.scopus.com/am.e-nformation.ro/authid/detail.uri?authorId=22033552200 https://www.sciencedirect.com/science/article/pii/S0272884219302755	$(50 \cdot 3,450)/5$	5	Nu	34,520
4.	Covei M., Bogatu C. , Tismanar I., Perniu D., Duta A., <i>Comparative study on the photodegradation efficiency of organic pollutants using n-p multi-junction thin films</i> , Catalysis Today, 321–322 (2019) 57-64, ISSN: 09205861, FI=4,888 https://doi.org/10.1016/j.cattod.2019.01.055 https://www.scopus.com/am.e-nformation.ro/authid/detail.uri?authorId=22033552200 https://www.sciencedirect.com/science/article/abs/pii/S0920586118311003	$(50 \cdot 4,888)/4$	4	Nu	61,100
5.	Pascu A., Stanciu E.M., Croitoru C., Roata I.C., Rosca J. M., Nicanor C., Tieren M., Bogatu C. , <i>Pulsed Laser Cladding of NiCrBSiFeC Hardcoatings Using Single-Walled Carbon Nanotube Additives</i> , Journal of Nanomaterials, (2019), Article Number: 2401295, ISSN: 16874110, FI = 1,980 DOI: 10.1007/s00170-018-3153-9 https://www.scopus.com/am.e-nformation.ro/authid/detail.uri?authorId=22033552200 https://www.hindawi.com/journals/jnm/2019/2401295/	$(50 \cdot 1,980)/8$	8	Nu	12,375

Nr. crt.	Articole in reviste ISI Thomson Reuters Calcul: $(50 \cdot X) / nr \text{ autori}$ pt. reviste: $X = FI$	Calcul	Număr de autori	Autor principal	Punctaj
6.	Milosan I., Cristea D., Voiculescu I., Pop M. A., Balat-Michelin M., Predescu A. M., Bogatu C., Bedo T., Berbecaru A. C., Geanta V., Gabor C., Isac L., Sarbu F.A., Oancea G., <i>Characterisation of EN 1.4136 stainless steel heat-treated in solar furnace</i> , International Journal of Advanced Manufacturing Technology, 101 (9-12) (2019) 2955-2964, ISSN: 02683768, FI=2,633 , https://doi.org/10.3390/ma13030581 https://www.scopus.com.am.e-nformation.ro/authorid/detail.uri?authorid=22033552200 https://link.springer.com.am.e-nformation.ro/article/10.1007/s00170-018-3153-9	$(50 \cdot 2,633) / 14$	14	Nu	9,400
7.	Bogatu C. , Perniu D., Sau C., Iorga C., Cosnita M., Duta A., <i>Ultrasound assisted sol-gel TiO₂ powders and thin films for photocatalytic removal of toxic pollutants</i> , Ceramics International, 43 (2017) 7963-7969, ISSN: 02728842, FI=3,057 , WOS:000401876000001, DOI: 10.1016/j.ceramint.2017.03.054, https://apps-wo.knowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=1 https://www.sciencedirect.com/science/article/pii/S0272884217304236	$(50 \cdot 3,057) / 6$	6	Da	25,475
8.	Manciulea I., Bogatu C. , Dumitrescu L., Draghici C., Cu ²⁺ removal from wastewaters by using compost as sorbent, Environmental Engineering and Management Journal 16 (4) (2017) 779-792, ISSN:15829596, FI=1,334 , WOS:000405831300003, DOI: 10.30638/eeemj.2017.079, http://www.eemj.icpm.taiasi.ro/pdfs/vol16/no4/2_655_Manciulea_16.pdf , https://www.scopus.com.am.e-nformation.ro/authorid/detail.uri?authorid=6504375074 https://apps-wo.knowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=2	$(50 \cdot 1,334) / 4$	4	Nu	16,675
9.	Bogatu C. , Duta A., de Loos T. W., Geana D., <i>Modelling fluid phase equilibria in the binary system trifluoromethane + 1-phenylpropane</i> , Fluid Phase Equilibria, 428 (2016) 190-202, ISSN: 03783812, FI=2,473 , WOS:000386643400019, DOI: 10.1016/j.fluid.2016.06.027 https://apps-wo.knowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=3 https://www.sciencedirect.com/science/article/abs/pii/S037838121630303X	$(50 \cdot 2,473) / 4$	4	Da	30,91
10.	Enesca A., Baneto M., Perniu D., Isac L., Bogatu C. , Duta A., <i>Solar-activated tandem thin films based on CuInS₂, TiO₂ and SnO₂ in optimized wastewater treatment processes</i> , Applied Catalysis B: Environmental 186 (2016) 69-76, ISSN: 09263373, FI=9,446 , WOS:000370305900008, DOI 10.1016/j.apcatb.2015.12.053 https://apps-wo.knowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=4 https://www.sciencedirect.com/science/article/abs/pii/S0926337315303349	$(50 \cdot 9,446) / 6$	6	Nu	78,716

Nr. crt.	Articole in reviste ISI Thomson Reuters Calcul: $(50 \cdot X) / \text{nr autori}$ pt. reviste: $X = FI$	Calcul	Număr de autori	Autor principal	Punctaj
11.	Duta A., Enesca A., Bogatu C. , Gyorgy E., <i>Solar-active photocatalytic tandems. A compromise in the Photocatalytic processes design</i> , Materials Science in Semiconductor Processing 42 (2016) 94–97, ISSN:13698001, FI=2,359 , WOS:000367638100019, DOI: 10.1016/j.mssp.2015.08.046 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=5 https://www.sciencedirect.com/science/article/abs/pii/S1369800115301761	$(50 \cdot 2,359) / 4$	4	Nu	29,487
12.	Bogatu C. , Perniu D., Duta A., <i>Challenges in developing photocatalytic inks</i> , Powder Technology 287 (2016) 82–95, ISSN: 00325910, FI=2,942 , WOS:000365363900010, DOI: 10.1016/j.powtec.2015.09.018, https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=6 https://www.sciencedirect.com/science/article/abs/pii/S0032591015300656	$(50 \cdot 2,942) / 3$	3	Da	49,033
13.	Visa M., Bogatu C. , Duta A., <i>Tungsten oxide – fly ash oxide composites in adsorption and photocatalysis</i> , Journal of Hazardous Materials, 289, (2015), 244–256, ISSN: 03043894, FI=4,496 , WOS:000353079300028, DOI: 10.1016/j.jhazmat.2015.01.053 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=7 https://www.sciencedirect.com/science/article/abs/pii/S0304389415000643	$(50 \cdot 4,496) / 3$	3	Da	74,930
14.	Milea C., Ienei E., Bogatu C. , Duță A., <i>Sol-gel Al₂O₃ powders-matrix in solar thermal absorbers</i> , Journal of Sol-Gel Science and Technology 67 (1) (2013) 112–120, ISSN: 09280707, FI=1,547 WOS:000322137600013 https://doi-org.am.e-nformation.ro/10.1007/s10971-013-3056-z https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=8 https://link.springer-com.am.e-nformation.ro/article/10.1007%2Fs10971-013-3056-z	$(50 \cdot 1,547) / 4$	4	Nu	19,33
15.	Bogatu C. , Geana D., Duță A., Poot W., de Loos T. W., <i>Fluid-Phase Equilibria in the Binary System Trifluoromethane + 1-Phenyltetradecane</i> , Industrial&Engineering Chemistry Research 50 (1) (2011) 213–220, ISSN: 0888-5885, FI=2,237 , WOS:000285570700025, https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=2&doc=12	$(50 \cdot 2,237) / 5$	5	Da	22,370
16.	Dudita M., Bogatu C. , Enesca A., Duta A., <i>The influence of the additives composition and concentration on the properties of SnO_x thin films used in photocatalysis</i> , Materials Letters 65 (14) (2011) 2185–2189, ISSN: 0167-577X, FI=2,307 , WOS:000292444200030, DOI:10.1016/j.matlet.2011.03.111 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=10 https://www.sciencedirect.com/science/article/abs/pii/S0167577X11003661	$(50 \cdot 2,307) / 4$	4	Nu	28,837

Nr. crt.	Articole in reviste ISI Thomson Reuters Calcul: (50*X)/nr autori pt. reviste: X=FI	Calcul	Număr de autori	Autor principal	Punctaj
17.	Dodita M., Bogatu C. , Enesca A., Duta A., <i>Thin films of SnO₂ obtained electrochemically from surfactants containing electrolytes</i> , Revue Roumaine de Chimie 56 (7) (2011) 717-723, ISSN: 0035-3930, FI =0,418, WOS:000298315200006 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=2&doc=11	(50*0,418)/4	4	Nu	5,225
18.	Manciulea I., Bogatu C. , Milea A., <i>Corrosion inhibition in saline environment using ketonic Mannich Base from Ortho-Hydroxyacetophenone</i> , Environmental Engineering and Management Journal 10 (9) (2011) 1269-1276, ISSN: 1582-9596, FI =1,004 WOS:000296758400008 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F6155d4GjO3uX2dQKvF&page=1&doc=9 https://www.scopus-com.am.e-nformation.ro/authid/detail.uri?authorId=6504375074	(50*1,004)/3	3	Nu	16,73
19.	Bogatu C. , Geană D., Vilcu R., Duță A., Poot W., de Loos T. W., <i>Fluid phase equilibria in the binary system trifluoromethane + 1-phenyloctane</i> , Fluid Phase Equilibria 295 (2010) 186-193, ISSN: 0378-3812, FI=2,253 WOS:000280390500005, DOI: 10.1016/j.fluid.2010.04.013 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=2&doc=14 https://www.sciencedirect.com/science/article/abs/pii/S0378381210002414	(50*2,253)/6	6	Da	18,775
20.	Visa M., Bogatu C. , Duță A., <i>Simultaneous Adsorption of Dyes and Heavy Metals From Multicomponents Solution using Fly Ash</i> , Applied Surface Science 256 (2010) 5486-5491, ISSN: 0169-4332, FI=1,795 WOS:000277731800064, DOI 10.1016/j.apsusc.2009.12.145 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=2&doc=16 https://www.sciencedirect.com/science/article/abs/pii/S0169433209018674	(50*1,795)/3	3	Nu	29,910
21.	Enesca A., Bogatu C. , Voinea M., Duta A., <i>Opto-electronic properties of SnO₂ layers obtained by SPD and ECD techniques</i> , Thin Solid Films 519 (2) (2010) 563-567, ISSN: 0169-4332, FI=1,935, WOS:000284499500002, DOI: 10.1016/j.tsf.2010.07.008 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=2&doc=13 https://www.sciencedirect.com/science/article/abs/pii/S0040609010009417	(50*1,935)/4	4	Nu	24,187
22.	Bogatu C. , Vilcu R., Duță A., Straver E., de Loos, <i>Vapour-liquid, Liquid-liquid and Vapour-liquid-liquid Equilibria in the System of Trifluoromethane+(2-methylpropyl)benzene</i> , Revista de Chimie, 61(8) (2010) 767-769, ISSN: 0034-7752, FI=0,693, WOS:000282497600013 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=2&doc=15	(50*0,693)/5	5	Da	6,930

Nr. crt.	Articole in reviste ISI Thomson Reuters Calcul: $(50 \cdot X) / nr \text{ autori}$ pt. reviste: $X = FI$	Calcul	Număr de autori	Autor principal	Punctaj
23.	Bogatu C. , Vilcu R., Geană D., Duță A., Poot W., de Loos T.W., <i>High Pressure Phase Behaviour of the System R23 + Phenylpropane. Experimental Results and Modelling Liquid-Vapour Equilibrium</i> , Revue Roumaine de Chimie, 54 (5) (2009), 343-349. ISSN: 1533-488, FI=0,263, WOS:000270468200003 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=2&doc=19	$(50 \cdot 0,263) / 6$	6	Da	2,19
24.	Manciulea, I., Bogatu, C. , Comanita, E., Duta A., Dumitrescu, L., <i>Mannich Basis-Corrosion Inhibitors in Saline Water</i> , Environmental Engineering and Management Journal, 8 (4), (2009) 877-882, ISSN: 1582-9596, FI=0,885. WOS:000269811500042, DOI: 10.30638/eemj.2009.125 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=2&doc=17	$(50 \cdot 0,885) / 5$	5	Nu	8,850
25.	Bogatu C. , Voinea M., Duță A., Pelin I. M., Chitanu G.C., <i>The Electrochemical Deposition of Cu/CuOx Solar Selective Coatings with Controlled Morphology</i> , Revue Roumaine de Chimie, 54 (3) (2009) 235-241, ISSN: 1533-4880 FI=0,263, WOS:000270468000007, DOI: 10.1166/jnn.2009.M46 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=2&doc=18	$(50 \cdot 0,263) / 5$	5	Da	2,630
26.	Voinea M., Ienei E., Bogatu C. , Duță A., <i>Solar Selective Coatings Based on Nickel Oxide obtained via spray pyrolysis deposition</i> , Journal of Nanoscience&Nanotechnology, 9 (2009) 4279-4284, ISSN: 1533-4880, FI=1,435 WOS:000267994000046, DOI: 10.1166/jnn.2009.M46 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=2&doc=18	$(50 \cdot 1,435) / 4$	4	Nu	17,937
27.	Voinea M., Bogatu C. , Chitanu G. C., Dută A., <i>Copper Cermets used as Selective Coatings for Flat Plate Collectors</i> , Revista de Chimie 59 (6) (2008) 659 – 663, ISSN: 1862-6351, FI=0,389, WOS:000257604600013, DOI: 10.1002/pssc.200779428 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=3&doc=23	$(50 \cdot 0,389) / 4$	4	Nu	4,860
TOTAL					741,28

Link-ul pentru articole ISI publicate pama în 2018 (dupa 2018 nu exista acces pe ISI web of knowlegde)

https://apps-webofknowledge-com.am.e-nformation.ro/summary.do?product=WOS&parentProduct=WOS&search_mode=GeneralSearch&qid=1&SID=F5USccFUcrYcxUthiWS&page=1&action=changePageSize&pageSize=50

Nr crt	Articole in volume indexate ISI proceedings Web of Science Calcul: $(50 \cdot X) / \text{nr autori}$ pt. volume – $X=0,1$	Calcul	Număr de autori	Autor principal	Punctaj
1.	Bogatu C. , Manciualea L., Duță A., <i>Mechanism of Steel Corrosion Inhibition using Mannich Bases</i> , Proceedings of 2nd International Conference on Multi-Functional Materials and Structures, Location: Qingdao, Peoples R China 2009) Multi-Functional Materials And Structures li, Pts 1 And 2 Book Series: Advanced Materials Research 79-82 (2009) 1963-1966, ISBN:978-0-87849-304-3, ISSN: 1022-6680, WOS:000280155900488, DOI: 10.4028/www.scientific.net/AMR.79-82.1963 https://apps-wofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=3&doc=21 https://www-scopus-com.am.e-nformation.ro/authid/detail.uri?authorid=6504375074	$(50 \cdot 0,1/3)$	3	Da	1,660
2.	Duță A., Bogatu C. , Chițanu G.C., Pelin L.M., <i>Electrochemical Deposition of Ni-Based Thin Film Cermets using Polymeric Additives</i> , (Proceedings of Conference: Symposium on Chemical and Electrochemical Synthesis of Advanced Materials and Nanostructures on Solid Surfaces held E-MRS Fall Meeting, Location: Warsaw, Poland 2007), Physica Status Solidi C, 5 (2008) 3530-3533, ISSN: 1862-6351, WOS:000263222300025, DOI: 10.1002/pssc.200779428 https://apps-wofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=49&SID=F6155d4GjO3uX2dQKvF&page=3&doc=23	$(50 \cdot 0,1/4)$	4	Nu	1,250
3.	Covei M., Bogatu C. , Perniu D., S. Cisse, Duta A., <i>Comparative Study of the Electrical Properties of CZTS-TiO₂ and CZTS-ZnO Heterojunctions for PV Applications</i> , Proceedings of the International Semiconductor Conference CAS 2018, Sinaia 2018, Article number 8539820, 311-314, ISBN: 978-153864482-9 DOI: 10.1109/SMICND.2018.8539820 https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85059645003&origin=resultslist&sort=plf-f&src=s&sid=d6c2e6ef00025731bdd286be85a18e05&sot=autdocs&sdt=autdocs&sl=1&s=AU-ID%2822033552200%29&relpos=7&citeCnt=1&searchTerm=	$(50 \cdot 0,1/5)$	5	Nu	1,000
TOTAL					3,91

TOTAL A.2.1 = 741,28 + 3,91 = 745,19 puncte

2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte Baze de Date Internationale (BDI)

NR. CRT.	Articole BDI Calcul: $(50 \cdot X) / \text{nr autori}$ $X=0,08$	Calcul	Numar de autori	Punctaj
1.	Tismanar I., Covei M., Bogatu C., Duta A., <i>The influence of the precursor type and of the substrate on the SPD deposited TiO₂ photocatalytic thin films</i> , Annals of West University of Timisoara Physics, Vol. LX (2018) 75-87, ISSN: 1224-9718 https://doi.org/10.2478/awutp-2018-0008 https://content.sciendo.com/view/journals/awutp/60/1/article-p75.xml	$(50 \cdot 0,08) / 4$	4	1
2.	Bogatu C., Cazan C., Manciu I., Duta A., <i>Corrosion resistance in saline environment of colored based alumina spectrally selective surfaces</i> , Solid State Phenomena, 227 (2015) 103 -106 (BDI: SCOPUS) https://doi.org/10.4028/www.scientific.net/SSP.227.103 https://www.scopus.com/am-e-information.ro/record/display.uri?eid=2-s2.0-84924598713&origin=resultslist&sort=plf-f&src=s&st1=manciu&st2=Transilvania&nlo=&nlt=&nls=&sid=2e954bab308e488f0e869d1b74132591&scot=b&sdt=b&sl=48&sr=%28AUTHOR-NAME%28manciu%29+AND+AFFIL%28Transilvania%29%29&relpos=4&citeCnt=0&searchTerm=	$(50 \cdot 0,08) / 4$	4	1
3.	Manciu I., Bogatu C., Cazan C., Dumitrescu L., Duta A., <i>Investigation of some Mannich Bases corrosion inhibitors for carbon steel</i> , Solid State Phenomena, 227 (2015) 63-66 (BDI: SCOPUS) https://doi.org/10.4028/www.scientific.net/SSP.227.63 https://www.scopus.com/am-e-information.ro/record/display.uri?eid=2-s2.0-84924565876&origin=resultslist&sort=plf-f&src=s&st1=manciu&st2=Transilvania&nlo=&nlt=&nls=&sid=2e954bab308e488f0e869d1b74132591&scot=b&sdt=b&sl=48&sr=%28AUTHOR-NAME%28manciu%29+AND+AFFIL%28Transilvania%29%29&relpos=5&citeCnt=1&searchTerm=	$(50 \cdot 0,08) / 5$	5	0,80
4.	Milea A., Bogatu C., Duță A., <i>The Influence of Parameters in Silica Sol-Gel Process</i> , Bulletin of the Transilvania University of Braşov, Series I: Engineering Sciences, 4 (53) (1) (2011) 59-66 http://webbut.unibv.ro/bulletin/Series%20I/Series%20I.html (BDI: EBSCO)	$(50 \cdot 0,08) / 3$	3	1,33
5.	Voinea M., Vlăduță C., Bogatu C., Duta A., <i>Surface Properties of Copper Cermet Based Materials</i> , Materials Science and Engineering B 152, (2008) 76-80, ISSN: 09215107 https://doi.org/10.1016/j.mseb.2008.06.020 https://www.scopus.com/am-e-information.ro/author/detail.uri?authorId=22033552200	$(50 \cdot 0,08) / 4$	4	1
6.	Voinea M., Bogatu C., Duta A., <i>Environmental Impact of Copper Cermets Used As Selective Coatings for Flat Plate Collectors</i> , Bulletin of the Transilvania University of Braşov, New Series, SeriesA1, 14 (49) (2007) 211-218 http://webbut.unibv.ro/bulletin/Series%20A1/Series%20A1.html (BDI:EBSCO)	$(50 \cdot 0,08) / 3$	3	1,33
7.	Bogatu C., Vilcu R., Duta A., Straver E., De Loos Th.W., <i>LLV Equilibria and Barotropic Inversion Phenomena in the Systems of CHF₃ + Phenylalkane</i> , Bulletin of the Transilvania University of Braşov, New Series, SeriesA1, 14 (47) (2005) 241-216 http://webbut.unibv.ro/bulletin/Series%20A1/Series%20A1.html (BDI:EBSCO)	$(50 \cdot 0,08) / 5$	5	0,80
TOTAL A. 2.2				7,26

TOTAL A. 2.2 = 7,26 puncte

2.3 Brevete de invenție acordate, neindexate/indexate ISI Thompson R-Web of Science –Dervent Innovation Index

2.3.2. Nationale (calcul: 15/25/nr autori)

Nr. Crt.	Titlul si autorii brevetului	Calcul	Punctaj
1.	Perniu D, Bogatu C, Duta A., Isac L., Covei M., Vișa I, Neagoe M., Photocatalytic dispersion active in the visible range of luminous radiation and method for preparing the same, RO132549 (A0), 2018 https://worldwide.espacenet.com/patent/search/family/062189463/publication/RO132549A0?q=bogatu	15/25/7	0,08
2.	Dută A., Moldovan M., Bogatu C., Covei M., Vișa I, Perniu D., Neagoe M., Thin-film photoreactor for advanced water purification by photocatalysis and adsorption, RO132804 (A0), 2018 https://worldwide.espacenet.com/patent/search/family/063667462/publication/RO132804A0?q=bogatu	15/25/7	0,08
TOTAL A.2.3			0,16

2.4 Granturi/proiecte de cercetare castigate prin competitie/ Contracte cu agenti economici (min. 10.000 echivalent euro incasati)

2.4.1 Director/Responsabil partener (minim 1)

2.4.1.1 Internationale (calcul: 20xani desfasurare)

Nr. crt	Poiect international	Poziție	Perioada	Nr. Ani	Punctaj
1.	SFERA-III EU project Solar Facilities for the European Research Area-Third Phase, H2020 GA. No 823802 between CIEMAT Plataforma Solar de Almeria (Spania) and European Union, <i>ZnO-GO composites for the photodegradation of low concentrated organic pollutants in real wastewaters</i> , ZnO-GO SOLCAT (valoare: 31045 euro) https://sfera3.sollab.eu/wp-content/uploads/2019/11/SFERA-III_List-of-SURP-Granted_190617-1-V2-1.pdf	director	2019	1	20
TOTAL 2.4.1.1.					20

2.4.1.2 Nationale (calcul: 5xani desfasurare)

Nr. Crt.	Poiecte naționale/cu agenti economici	Poziție	Perioada	Nr. Ani	Punctaj
1.	CB-PhotoDeg 282/2014, Sistem inovativ sustenabil pentru auto-decontaminarea fotocatalitică a echipamentelor de protecție CBRN (valoare totala Universitatea Transilvania: 326500 lei)	Responsabil UTBv	2016, 2017	2	10
2.	Proiect cu agenti economici nr. 1960/20.02.2018, <i>Examinarea fizico-chimică a sapte aşchii de lemn</i> , finanțator: Institutul Național de Expertize Criminalistice Bucuresti, Valoare grant: 3500 lei	director	2018	1	5
3.	Postdoctorat: <i>Sisteme fotocatalitice cu grad înalt de dispersie-cerneluri fotocatalitice</i> in cadrul Programului Operațional Sectorial Dezvoltarea Resurselor Umane 2014 – 2015, Burse doctorale si postdoctorale pentru cercetare de excelenta, POSDRU/159/1.5/S/134378 Valoare grant: 75400 finanțator: Fondul Social European, nr. POSDRU/159/1.5/S/134378 (beneficiar)	director	2014-2015	1	5
TOTAL 2.4.1.2.					20

2.4.2 Membru în echipa

2.4.2.1 Internaționale (calcul: 4 x nr. ani desfășurare).

Nr. Crt.	Titlul proiectului	Poziție	Perioada	Nr. Ani	Punctaj
1	Bioenergy Train, GA 656760 — BioEnergyTrain — H2020-LCE-2014-2015/H2020-LCE-2014-2	membru	2015 – 2018	4	16
2	PNII-PCCA M-ERANET, 39/2016 WaterSafe Sustainable autonomous system for nitrites/nitrates and heavy metals monitoring of natural water sources	membru	2016-2019	4	16
3	EU7 project-Magnetic sorting and ultrasound sensor technologies for production of high purity secondary polyolefins from waste (W2PLASTICS)	membru	2008-2009	1	4
4	Curricula Development proiect DISS, Management of the Chemical Investigations in Environmental Protection	membru	2003-2004	1	4
5	Curricula Development proiect CD-MOD, Management and Security Assessment for Sustainable Environment™ – MOD-MASS	membru	2005-2007	1	4
6	Proiect 2016-1-RO01 KA 103_023290 ERASMUS +	membru	2016-2020	5	20
7	Proiect Comenius SEE-EU-Tool, Sustainable Energy for High School Education-An European Training Tool, nr. 226362-CP-1-2005-1-RO-Comenius-C2	membru	2005-2008	3	12
TOTAL 2.4.2.1					76

2.4.2.2 Naționale (calcul: 2 x nr. ani desfășurare)

Nr. rt.	Titlul proiectului	Poziție	Perioada	Nr. Ani	Punctaj
1.	PN-III-P1-1.2-PCCDI-2017-0619, NANOCARBON+, Materiale carbonice nanostructurate pentru aplicații industriale avansate	membru	2017-2020.	3	6
2.	PED nr. 124 din 03/01/2017, PhotocatFlow, Demonstrator și tehnologie în flux continuu bazată pe reactor de fotocataliză și adsorbție în film subțire pentru epurarea avansată a apelor	membru	2017-2018	2	4
3.	CB-PhotoDeg 282/2014, Sistem inovativ sustenabil pentru auto-decontaminarea fotocatalitică a echipamentelor de protecție CBRN	membru	2014, 2015	2	4
4.	SimFotoAd 217/2014- Sistem inovativ integrat materiale-Tehnologie-Echipament pentru procese simultane de fotocataliză și adsorbție aplicate în epurarea sustenabilă a apelor uzate	membru	2014-2017	3	6
5.	TE-2012-3-0177, nr.2/22.04.2013, Noi adsorbanti de tip zeolitic obținuți din cenușa de termocentrală colectată de la electro-termocentrale din România	membru	2013 – 2016	4	8

Nr. rt.	Titlul proiectului	Poziție	Perioada	Nr. Ani	Punctaj
6.	PNII 28/2012, EST IN URBA, Sisteme solar termice eficiente cu acceptanță ridicată pentru implementare in mediul urban	membru	2012-2016	4	8
7.	PNII 162/2012, NANOVISMAT, Nano-materiale fotoactive cu suprafete complexe pentru aplicatii in producerea de energie si pentru degradarea poluantilor organici	membru	2012-2016	4	8
8.	Contract 160/06.01.2016, Imbunatatirea performantelor functionale ale dulapurilor Multiflex, Beneficiar: Societatea Comerciala ELDON SRL	membru	2016	1	4
9.	Contract 1830/16.02.2016, Caracterizare, analiza si modelare a raspunsului fotovoltaic in celule fotovoltaice ceramice perioada. Beneficiar: Institutul de Chimie Fizica al Academiei Romane, Ilie Murgulescu	membru	2016	1	4
10.	CNCSIS IDEI 704/2009 – Modelarea conductiei ionice in absorber si la interfata absorber/ strat tampon pentru cresterea eficientei celulelor fotovoltaice in stare solida	membru	2009-2011	3	6
11.	POSDRU/57/1.3/S/32629, Formarea Profesională a Cadrelor Didactice din Învățământul Preuniversitar pentru noi Oportunități de Dezvoltare în Carieră, finantator: Fondul Social european 2007-2013	membru	2010-2011	2	4
12.	PNII 71-047/2007, FOTOCOMPLEX – Sisteme fotocatalitice complexe pentru epurarea avansata a apelor rezultate din industria textila	membru	2007-2010	4	8
13.	CNCSIS IDEI, 633/2009 - Obținerea, caracterizarea, modelarea si optimizarea filmelor nano si mezo-structurate de fotocatalizatori pe baza de oxid de staniu (SnO ₂) cu morfologie controlata	membru	2009-2010	1	4
14.	CNCSIS A 418/2006 - Cercetari privind cresterea eficientei conversiei energiei solare in colectoarele solar-termice	membru	2006-2008	3	6
15.	CEEX 277/2006, MATSOL-T – Materiale multifunctionale pentru conversia eficienta a energiei solare in energie termica	membru	2006-2008	3	6
16.	CEEX 226/2006 , Sistem integrat de conversie a energiei din surse regenerabile	membru	2006-2008	3	6
17.	Parteneriate 72-184/2008, Noi concepte tehnologice privind dezvoltarea unor nanomateriale cu impact scazut asupra mediului	membru	2008-2011	3	6
18.	CEEX 65/0-3.10/2005– Sistem integrat de monitorizare și răspuns mediu- sănătate – E&H	membru	2005-2007	3	6
19.	CNCSIS 43/CC-C/2001, Procesarea și testarea materialelor cu proprietăți speciale CES Promat	membru	2001-2002	1	2
TOTAL 2.4.2.2					106

Total A. 2.4 = 222 puncte

Punctaj total criteriul A2 = A 2.1 + A.2.2 + A.2.3 +A.2.4 = 745,19 +7,26 +0,16+222 = 974,61 PUNCTE

A3. Recunoașterea și impactul activității (minim 60 puncte)**TOTAL PUNCTE INDEPLINITE = 816,95 PUNCTE**

3.1 Citări în reviste cotate ISI Thompson Reuters-Web of ScienceCore Collection si in alte BDI (min. 15 citari in ISI Thompson Reuters-Web of Science Core Collection si SCOPUS)

Calcul: 5/nr autori pentru $FI < 0,5$; 10/nr autori pentru $0,5 < FI < 1$; 15/nr. autori pentru $1 < FI < 2$; 20/nr. autori pentru $FI > 2$, 30/nr autori pentru $FI > 5$)

Numar total de citari ISI Thompson Reuters-Web of ScienceCore Collection (fara autocitari): 238, h-index: 7 (https://apps-wofknowledge-com.am.e-nformation.ro/summary.do?product=WOS&parentProduct=WOS&search_mode=CitationReport&parentQid=1&qid=3&SID=C1VH3tOyioqeJFVopSP&colName=WOS&page=2)

Bogatu C., Perniu D., Sau C., Iorga C., Cosnita M., Duta A., *Ultrasound assisted sol-gel TiO₂ powders and thin films for photocatalytic removal of toxic pollutants*, Ceramics International, 43 (2017) 7963-7969 - 11 citari ISI

Nr. crt	Articolul care citează	FI	Calcul	Punctaj
1.	G. Chehade, M.E. Demir, I. Dincer, B. Yuzer, H. Selcuk, Experimental investigation and analysis of a new photoelectrochemical reactor for hydrogen production, International Journal of Hydrogen Energy 43 (27) (2018) 12049-12058 https://apps-wofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=119&SID=F6155d4GjO3uX2dQKvF&page=1&doc=1&cacheurlFromRightClick=no https://www.sciencedirect.com/science/article/abs/pii/S0360319918312679	4,084	20/6	3,33
2.	Sophia Tsoumachidou, Athanasios Kouras, Ioannis Poulios, Heterogeneous and homogeneous photocatalytic degradation of psychoactive drug Fluvoxamine: kinetic study, inorganic ions and phytotoxicity evaluation, Journal of Chemical Technology And Biotechnology 93 (6) (2018) 1705-1713 https://apps-wofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=119&SID=F6155d4GjO3uX2dQKvF&page=1&doc=2 https://onlinelibrary.wiley.com/doi/abs/10.1002/jctb.5543	2,659	20/6	3,33
3.	M.A. Awad, M. Raaif, The disclosed transformation of pre-sputtered Ti films into nanoparticles via controlled thermal oxidation, Applied Physics A-Materials Science & Processing , CeramicInternational 124 (5) (2018) Article Number: 388, https://apps-wofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=119&SID=F6155d4GjO3uX2dQKvF&page=1&doc=3	1,784	15/6	2,5
4.	Sobczyk-Guzenda A., Owczarek S., Fijalkowski M., Batory D., Gazicki-Lipman M., Morphology, structure and photowettability of TiO ₂ coatings doped with copper and fluorine, F 44 (5) (2018) 5076-5085, https://apps-wofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=119&SID=F6155d4GjO3uX2dQKvF&page=1&doc=4 https://www.sciencedirect.com/science/article/pii/S0272884217328146	3,45	20/6	3,33
5.	Apostolopoulou A., Mahajan S., Sharma R., Stathatos E, Novel development of nanocrystalline kesterite Cu ₂ ZnSnS ₄ thin film with high photocatalytic activity under visible light illumination, Journal of Physics and Chemistry of Solids 112 (2018) 37-42, https://apps-wofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=119&SID=F6155d4GjO3uX2dQKvF&page=1&doc=5 https://www.sciencedirect.com/science/article/abs/pii/S0022369717313112	2,752	20/6	3,33

6.	Dagoberto dos Santos A., Verônica Cristina de Souza D., Ramon Alves T., Costa, A de Melo, Evaluation of the optical gap of TiO ₂ Obtained by Pechini method: influence of the variation of the anatase-rutile phases, <i>Materia-Rio De Janeiro</i> 23 (1) (2018) Article Number: e-11949, https://apps-webkitknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=119&SID=F6155d4GjO3uX2dQKvF&page=1&doc=6 https://www.scielo.br/scielo.php?pid=S1517-70762018000100404&script=sciabstract	0,283	5/6	0,83
7.	Mingwen Bai, R. Khammas, L. Guan, J.W. Murray, T. Hussain, Suspension high velocity oxy-fuel spraying of a rutile TiO ₂ feedstock: Microstructure, phase evolution and photocatalytic behaviour, <i>Ceramics International</i> 43 (17) (2017) 15288-15295 https://apps-webkitknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=119&SID=F6155d4GjO3uX2dQKvF&page=1&doc=7 https://pureportal.coventry.ac.uk/en/publications/suspension-high-velocity-oxy-fuel-spraying-of-a-rutile-tio2-feeds	3,45	20/6	3,33
8.	Ekaterina Kukleva, Petra Suchánková, Karel Štamberg, Martin Vlk, Miroslav Šlouf, Ján Kozempel, Surface protolytic property characterization of hydroxyapatite and titanium dioxide nanoparticles, <i>RSC ADVANCES</i> 9 (38) (2019) 21989-21995, https://www.scopus-com.am.e-nformation.ro/results/citedbyresults.uri?sort=plf-f&cite=2-s2.0-85015442953&src=s&imp=t&sid=6da553cf366ea44a446cf6ab8926cba5&sot=cite&sdt=a&sl=0&origin=resultslist&editSaveSearch=&txGid=4482a97ae2a4ef40582cfdd5e1325389 https://pubs.rsc.org/en/content/articlelanding/2019/ra/c9ra03698a#!divAbstract	3,094	20/6	3,33
9.	Lu Li, Liyan Jiang, Liu Yang, Ju Li, Nan Lu, Jiao Qu, Optimization of Degradation Kinetics towards O-CP in H ₂ PW ₁₂ O ₄₀ /TiO ₂ Photoelectrocatalytic System, <i>Sustainability</i> 11 (13) (2019) Article Number: 3551, https://www-scopus-com.am.e-nformation.ro/results/citedbyresults.uri?sort=plf-f&cite=2-s2.0-85015442953&src=s&imp=t&sid=6da553cf366ea44a446cf6ab8926cba5&sot=cite&sdt=a&sl=0&origin=resultslist&editSaveSearch=&txGid=4482a97ae2a4ef40582cfdd5e1325389 https://www.mdpi.com/2071-1050/11/13/3551	2,592	20/6	3,33
10.	Shimin Zhai, Min Li, Dong Wang, Liping Zhang, Yi Yang, Shaohai Fu, In situ loading metal oxide particles on bio-chars: Reusable materials for efficient removal of methylene blue from wastewater, <i>Journal of Cleaner Production</i> 220 (2019) 460-474, https://www-scopus-com.am.e-nformation.ro/results/citedbyresults.uri?sort=plf-f&cite=2-s2.0-85015442953&src=s&imp=t&sid=6da553cf366ea44a446cf6ab8926cba5&sot=cite&sdt=a&sl=0&origin=resultslist&editSaveSearch=&txGid=4482a97ae2a4ef40582cfdd5e1325389 https://www.sciencedirect.com/science/article/abs/pii/S0959652619305414	6,395	30/6	5
11.	Zhihao Zhang, Xuejiang Wang, Jianfu Zhao, Phosphate recovery from wastewater using calcium silicate hydrate (C-S-H): sonochemical synthesis and properties, <i>Environmental Science-Water Research & Technology</i> 5 (1) (2019) 131-139 https://www-scopus-com.am.e-nformation.ro/results/citedbyresults.uri?sort=plf-f&cite=2-s2.0-85015442953&src=s&imp=t&sid=6da553cf366ea44a446cf6ab8926cba5&sot=cite&sdt=a&sl=0&origin=resultslist&editSaveSearch=&txGid=4482a97ae2a4ef40582cfdd5e1325389 https://pubs.rsc.org/en/content/articlelanding/2019/ew/c8ew00643a#!divAbstract	4,195	20/6	3,33
TOTAL				34,97

Enesca A., Baneto M., Perniu D., Isac L., Bogatu C., Duta A, *Solar-activated tandem thin films based on CuInS₂, TiO₂ and SnO₂ in optimized wastewater treatment processes*, *Applied Catalysis B: Environmental* 186 (2016) 69–76 – [21 citari ISI](#)

1.	Teodosiu C, Gilca AF, Barjoveanu G, Fiore S, Emerging pollutants removal through advanced drinking water treatment: A review on processes and environmental performances assessment, <i>Journal of Cleaner Production</i> 197 (2018) 1210-1221, https://apps-webkitknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=35&SID=E6GbvKAcrtwJ6LA4RG4&page=1&doc=1&cacheurlFromRightClick=no	6,395	30/6	5
2.	Rimoldi L, Pargoletti E, Meroni D, Falletta E, Cerrato G, Turco F, Cappelletti G, Concurrent role of metal (Sn, Zn) and N species in enhancing the photocatalytic activity of TiO ₂ under solar light, <i>Catalysis Today</i> 451 (2018) 306-314, https://apps-webkitknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=35&SID=E6GbvKAcrtwJ6LA4RG4&page=1&doc=1&cacheurlFromRightClick=no	4,888	20/6	3,333
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TOTAL				70,826

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TOTAL				15
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TOTAL				67,5
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TOTAL				4
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TOTAL				4,75

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13	Li YP, Nie WY, Chen PP, Zhou, YF, Preparation and characterization of sulfonated poly(styrene-alt-maleic anhydride) and its selective removal of cationic dyes, Colloids and Surfaces A-Physicochemical and Engineering Aspects, 499 (2016) 46-53 https://apps-webkitknowledge-com.am.e-nformation.ro/CitingArticles.do?product=WOS&SID=C1VH3tOyioqeJFVopSP&search_mode=CitingArticles&parentProduct=WOS&parentQid=1&parentDoc=7&REFID=484575523&logEventUT=WOS:000353079300028&excludeEventConfig=ExcludeIfFromNonInterProduct&cacheurlFromRightClick=no	2,714	20/3	6,66
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3.	Feng ZZ., Yu JJ, Kong JM, Wang TH., A novel porous Al_2O_3 layer/AgNPs-Hemin composite for degradation of azo dyes under visible and UV irradiation, Chemical Engineering Journal 294 (2016) 236-245 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=81&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=4&cacheurlFromRightClick=no	6,126	30/4	7,5
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1	Kwon M. H., Jee W., Chu C.N, Fabrication of hydrophobic surfaces using copper electrodeposition and oxidation, International Journal of Precision Engineering and Manufacturing 16 (5) (2015) 877-882, https://apps-wo.knowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=153&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=8&cacheurlFromRightClick=no	1,5	15/4	3,75
2.	Amri A. Jiang ZT., Pryor T., Yin, CY., Djordjevic S., Developments in the synthesis of flat plate solar selective absorber materials via sol-gel methods: A review, Renewable & Sustainable Energy Reviews 36 (2014)316-328, https://apps-wo.knowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=153&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=8&cacheurlFromRightClick=no	6,798	30/4	7,5
3.	Park M., Baek S.; Kim S., Argon plasma treatment on Cu surface for Cu bonding in 3D integration and their characteristics, Applied Surface Science 324 (2015) 168-173 https://apps-wo.knowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=153&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=8&cacheurlFromRightClick=no	2,538	20/4	5
4.	Zgura I., Frunza S, Frunza L., Enculescu M., Florica C., Cotorobai VF., Ganea CP., Polyester Fabrics Covered With Amorphous Titanium Dioxide Layers: Combining Wettability Measurements And Photoinduced Hydrophilicity To Assess Their Surface Properties, Romanian Reports In Physics 68 (1) (2016) 259-269 https://apps-wo.knowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=153&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=8&cacheurlFromRightClick=no	1,367	15/4	3,75
5.	Al-Ghamdi AA, Khedr MH; Ansari MS., Hasan, PMZ, Abdel-wahab MS, Farghali AA, RF sputtered CuO thin films: Structural, optical and photo-catalytic behavior, Physica E-Low-Dimensional Systems & Nanostructures 81 (2016) 83-90 https://apps-wo.knowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=153&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=8&cacheurlFromRightClick=no	1,904	15/4	3,75
6.	Jayakrishnan R, Kurian AS, Nair VG., Joseph MR., Effect of vacuum annealing on the photoconductivity of CuO thin films grown using sequential ionic layer adsorption reaction, Materials Chemistry and Physics 180 (2016) 149-155 https://apps-wo.knowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=153&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=8&cacheurlFromRightClick=no	2,101	20/4	5
7	Wang XC, Cho HJ, Morphologies and electrical properties of multiple CuO nanowire-based device controlled by electroplating and thermal oxidation process, Microsystem Technologies-Micro-And Nanosystems-	1,513	15/4	3,75

	Information Storage And Processing Systems 24 (6) (2018) 2719-2726, DOI: 10.1007/s00542-017-3664-6 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=153&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=8&cacheurlFromRightClick=no			
TOTAL				32,5
Voinea M., Bogatu C., Chițanu G. C., Duță A., Copper Cermets used as Selective Coatings for Flat Plate Collectors, Revista de Chimie 59 (6) (2008) 659 – 663 - 3 citari ISI				
Nr. Crt.	Articolul care citeaza	FI	Calcul	Punctaj
1.	Prepelita P., Medianu R. Iacomi F. et al., Physico-chemical Properties of CuInGa-ZnS Heterostructure Deposited, Revista de Chimie 62 (9) (2011) 905-907, https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=188&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=4&cacheurlFromRightClick=no	0,538	10/4	2,5
2.	Amri A., Jiang ZT., Pryor T., Yin, CY., Djordjevic S., Developments in the synthesis of flat plate solar selective absorber materials via sol-gel methods: A review, Renewable & Sustainable Energy Reviews 36 (2014) 316-328 https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=188&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=3&cacheurlFromRightClick=no	5,901	30/4	7,5
3.	Amri A., Jiang ZT, Wyatt N Yin, CY., Mondinos N. Pryor T.Rahman, MM., Optical properties and thermal durability of copper cobalt oxide thin film coatings with integrated silica antireflection layer, Ceramics International 40 (10) (2014) 16569-16575 (part B) https://apps-webofknowledge-com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=188&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=2&cacheurlFromRightClick=no	2,605	20/4	5
TOTAL				15
Bogatu C., Manciușea L., Duță A., Mechanism of Steel Corrosion Inhibition using Mannich Bases, Advanced Materials Research, 79-82 (2009) 1963-1966. - 1 citare ISI				
Nr. Crt.	Articolul care citeaza	FI		Punctaj
1.	Costinescu L, Cojocariu C., Dudita M., Parv L., Velicu I. L., Munteanu, D., The effect of Si incorporation on the mechanical properties and corrosion behaviour of a-C:H and a-C:H:Si coatings, Journal of Optoelectronics and Advanced Materials 17 (1-2) (2015) 241-247, ISSN: 1454-4164 https://apps-webofknowledge-com.am.e-nformation.ro/CitingArticles.do?product=WOS&SID=C1VH3tOyioqeJFVopSP&search_mode=CitingArticles&parentProduct=WO S&parentQid=1&parentDoc=21&REFID=327445359&logEventUT=WOS:000280155900488&excludeEventConfig=ExcludeIfFromNonInterProduct&cacheurlFromRightClick=no	0,383	5/3	1,66
TOTAL				1,66

Duță A., Bogatu C., Chițanu G.C., Pelin I. M., Electrochemical Deposition of Ni-Based Thin Film Cermets using Polymeric Additives, Physica Status Solidi C 5 (2008) 3530-3533 - [1 citare ISI](#)

Nr. Crt.	Articolul care citeaza	FI		Punctaj
1.	Li JM., Cai C., Song LX, Li JF., Zhang, Z., Xue MZ., Liu, YG., Electrodeposition and characterization of nano-structured black nickel thin films, Transactions of Nonferrous Metals Society of China 23 (8) (2013) 2300-2306, https://apps-webkitknowledge-com.am.e-information.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=180&SID=C1VH3tOyioqeJFVopSP&page=1&doc=1&cacheurlFromRightClick=no	1,001	10/4	2,5
TOTAL				2,5
Bogatu C., Vilcu R., Geană D., Duță A., Poot W., de Loos T.W., High Pressure Phase Behaviour of the System R23 + Phenylpropane. Experimental Results and Modelling Liquid-Vapour Equilibrium, Revue Roumaine de Chimie, 54 (5) (2009), 343-349 - 1 citare ISI				
Nr. Crt.	Articolul care citeaza	FI	Calcul	Punctaj
1.	Williams-Wynn, Mark D., Paramesri N., Deresh R., Isothermal (vapour plus liquid) equilibrium data for binary systems of (n-hexane + CO ₂ or CHF ₃), Journal Of Chemical Thermodynamics 94 (2016) 31-42, https://apps-webkitknowledge-com.am.e-information.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=224&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=2&cacheurlFromRightClick=no	2,726	20/6	3,33
TOTAL				3,33
Bogatu C., Voinea M., Duta A., Pelin IM, Chitanu GC, The Electrochemimcal Deposition of Cu/CuOx Solar Selective Coatings with Controlled Morphology, Revue Roumaine de Chemie 54 (2009) 235-241 - 1 citare ISI				
Nr. Crt.	Articolul care citeaza	FI	Calcul	Punctaj
1.	Rahal H, Kihal R, Affoune AM, Rahal S, Electrodeposition and characterization of Cu ₂ O thin films using sodium thiosulfate as an additive for photovoltaic solar cells, CHINESE JOURNAL OF CHEMICAL ENGINEERING 26 (2)(2018) 421-427 https://apps-webkitknowledge-com.am.e-information.ro/full_record.do?product=WOS&search_mode=CitingArticles&qid=214&SID=C53JrMIVFkwXJoaP4z3&page=1&doc=1&cacheurlFromRightClick=no	1,911	15/3	3
TOTAL				3
TOTAL A. 3.1				775,95

A.3.3 Membru in colectivele de redacție sau comitete științifice al revistelor si manifestarilor științifice, organizator de manifestari științifice / Recenzor pentru reviste și manifestari științifice naționale si internationale

Calcul: recenzor pentru reviste ISI- 5, recenzor pentru reviste BDI – 3

Nr. Crt	Titlul jurnalului	Tip jurnal ISI/BDI	Punctaj
1.	Journal of Hazarduous Materials (perioada: 2018-2020)	ISI	5
2.	Industrial & Engineering Chemistry Research (perioada: 2016)	ISI	5
3.	Ceramics International (2016-2020)	ISI	5
4.	Powder Technology (perioada 2016-2017)	ISI	5
5.	Arabian Journal of Chemistry (2015-2016)	ISI	5
6.	Journal of Photoenergy (2019)	ISI	5
7.	IEE OPTIM 15 (2015)	BDI	3
TOTAL CRITERIUL 3.3			33

Criterii optionale

3.6 Membru în academii, organizatii, asociații profesionale de prestigiu naționale și internaționale, apartenență la organizații din domeniul educației si cercetării

3.6.4 Asociații profesionale

3.6.4.1 Internationale (5 puncte): Membra in esei- European Sustainable Energy Innovation Alliance Perioada:2015-2020 – 5 puncte

3.6.4.2 Nationale: Membra in Societatea Română de Chimie - 3 puncte

TOTAL A.3.6 = 8 puncte

TOTAL CRITERIUL A3 = A. 3.1+ A.3.2 + A.3.3 + A.3.6 = 775,95 + 33 + 8 = 816,95 PUNCTE

Punctaj TOTAL = A1 + A2 +A3 = 107,93 + 974,61 + 816,95 = 1899,49 PUNCTE

Enumerarea criteriilor și a modului de îndeplinire a acestora pentru CONFERENȚIAR, Comisia Ingineria materialelor

A1. Activitatea didactică și profesională (conferențiar-minim 30 puncte) **TOTAL PUNCTE ÎNDEPLINITE = 107,93 PUNCTE**

1.1 Carti si capitole in carti de specialitate	Punctaj indeplinit
1.1.1 Carti/capitole ca autor (minim 1) - 6 capitole in edituri internationale; 1 carte si 1 capitol in editura nationala	54,89
1.1.2.2 Carti/capitole ca editor - 2 volume	45,89
1.2 Suport didactic	
1.2.1 Materiale didactice/monografii (minim 1) - 1 manuale didactice	3,70
1.2.2 Indrumatoare de laborator/aplicatii - 2 indrumatoare	3,45
Total criteriul A1 = 107,93 puncte	

A2. Activitate de cercetare (conferențiar-minim 160 puncte) **TOTAL PUNCTE ÎNDEPLINITE = 974,61 PUNCTE**

ACTIVITATE DE CERCETARE	Punctaj indeplinit
Criteriul 2.1 Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings (Min. 10 articole pentru Conferențiar / CSII din care min. 5 in Reviste cotate ISI Th.R., din care min. 3 cu FI de min. 1 si min. 2 ca autor principal cu FI min 0,5) 30 articole, din care 27 in reviste ISI, 21 articole cu FI ≥ 1, 8 articole ca autor principal (cu FI ≥ 0,5)	745,19
2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale - 7 articole	7,26
2.3 Brevete de invenție - 2 brevete	0,16
2.4 Granturi/proiecte castigate prin competitie	
2.4.1 Director/responsabil (minim 1)	
2.4.1.1. Internaționale - 1 proiect SFERA-III EU project Solar Facilities for the European Research Area-Third Phase, H2020 GA. No 823802 between CIEMAT Plataforma Solar de Almeria (Spain) and European Union, <i>ZnO-GO composites for the photodegradation of low concentrated organic pollutants in real wastewaters</i> , ZnO-GO SOLCAT, perioada: 2019, (valoare: 31045 euro)	20
2.4.1.2 Naționale - 3 proiecte 1. Burse doctorale si postdoctorale pentru cercetare de excelenta - <i>Sisteme fotocatalitice cu grad înalt de dispersie-cerneluri fotocatalitice in cadrul Programului Operațional Sectorial Dezvoltarea Resurselor Umane 2014 – 2015, POSDRU/159/1.5/S/134378, perioada 2014-2015, (Valoare: 75400/ persoana), finantator: Fondul Social European, nr. POSDRU/159/1.5/S/134378</i> 2. CB-PhotoDeg 282/2014, <i>Sistem inovativ sustenabil pentru auto-decontaminarea fotocatalitică a echipamentelor de protecție CBRN</i> - responsabil Universitatea Transilvania (2 ani) (valoare totala Universitatea Transilvania: 326500 lei) 3. Proiect cu agenti economici nr. 1960/20.02.2018, <i>Examinarea fizico-chimică a sapte așchii de lemn</i> , finantator: Institutul National de Expertize Criminalistice Bucuresti, perioada: 2018, (valoare: 3500 lei)	20

2.4.2 Membru în echipă	
2.4.2.1. Internaționale – 7 proiecte	76
2.4.2.2 Naționale – 19 proiecte	106
Total criteriul 974,61 puncte	

A3 RECUNOAȘTEREA ȘI IMPACTUL ACTIVITĂȚII (minim 60 puncte)

TOTAL PUNCTE INDEPLINITE = 816,95 PUNCTE

RECUNOAȘTEREA ȘI IMPACTUL ACTIVITĂȚII	Punctaj indeplinit
3.1 Citări în reviste ISI și BDI (minim 15 citări) – 238 citări ISI Thomson, h=7	775,95
3.3 Membru în colectivele de redacție sau comitete științifice al revistelor și manifestarilor științifice, organizator de manifestări științifice / Recenzor pentru reviste și manifestări științifice naționale și internaționale - recenzor (7 jurnale)	33
3.6 Membru în academii, organizații, asociații profesionale de prestigiu naționale și internaționale, apartenență la organizații din domeniul educației și cercetării	8
Total criteriul 816,95 puncte	

Gradul de indeplinire a standardului

	Condiții conferențiar	Punctaje indeplinite
Activitate didactică/profesională (A1)	minim 30 puncte	107,93 puncte
Activitate de cercetare (A2)	minim 160 puncte	974,61 puncte
Recunoașterea impactului activității (A3)	minim 60 puncte	816,95 puncte
Total	250 puncte	1899,49 puncte

24 iulie 2020

VIZAT

Director Departament DMM

Prof. dr. ing. Luciana CRISTEA

Rezoluția comitetului științific:
Membrii comitetului:

1. Prof. dr. ing. Daniel MUNTEANU
2. Prof. dr. ing. Teodor MACHESAN-PIȘU
3. Prof. dr. ing. Mircea Horia TIEREAN

S. I. dr. Cristina Aurica BOGATU

Standardele ☒ DA ☐ NU ☐ NU indeplinite