Fișa de îndeplinire a standardelor minimale pentru domeniul

INGINERIA MATERIALELOR

- conform cu Ordinul 6.129 din 2016 emis de MENCS -

Candidat: Conf. dr. Cristina CAZAN

Criterii minimale	Condiții professor [puncte]	Punctaje indeplinite
Activitate didactică/profesională A1	60	288.52
Activitate de cercetare A2	320	2109.56
Recunoașterea impactului activității A3	120	1759.54
Total	**500**	**4157.62**

A1. Activitatea didactică și profesională (profesor - minim 60 puncte)

1.1 Cărți si capitole in cărți de specialitate			Punctaj indeplinit
1.1.1 Cărți/capitole ca autor	Cosnita, M., Balas, M., **Cazan, C.**, 2021, The Influence of Fly Ash on the Mechanical Properties of Water Immersed All Waste Composites, 283-289, capitol in	Nr.pag. /	**2.66**

1.1.1.1. Internaționale	"Advances in Sustainable Polymeric Materials" Editor Cazan Cristina, Editura MDPI, ISBN 978-3-0365-7370-0 (16 pag)	2 x nr.autori	
	Cazan, C., Enesca, A., Andronic, L., 2021, Synergic Effect of TiO2 Filler on the Mechanical Properties of Polymer Nanocomposites, 329-353, capitol in "Advances in Sustainable Polymeric Materials" Editor Cazan Cristina, Editura MDPI, ISBN 978-3-0365-7370-0 (24 pag)		**4.00**
	Enesca, A., **Cazan, C.,** 2021, Polymer Composite-Based Materials with Photocatalytic Applications in Wastewater Organic Pollutant Removal: A Mini Review, 353- 373, capitol in "Advances in Sustainable Polymeric Materials" Editor Cazan Cristina, Editura MDPI, ISBN 978-3-0365-7370-0 (20 pag)		**5.00**
	Cosnita, M., **Cazan, C**., Duta, A., Visa, I., 2018, Recycling Silicon-PV Modules in Composites with PVC, HDPE and Rubber Wastes, In: Visa I., Duta A. (Eds) Nearly Zero Energy Communities. Book Series: Springer Proceedings in Energy, Editura Springer International Publishing, 550-565, ISBN: 978-3-319-63214-8. (21 pag)	Nr.pag. / 2 x nr.autori	**2.63**
	Cazan, C., Cosnita, M., Visa, M., Duta, A., 2014, co-author chapter 38: Novel Rubber - Plastics Composites Fully Based on Recycled Materials, in Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer, ISBN 978-3-319-09706-0 (16 pag)		**2.00**
	Visa, M., **Cazan, C.,** Andronic, L., 2014, co-author chapter 41: Fly Ash Based Substrates for Advanced Wastewater Treatment, in Sustainable Energy in the Built Environment - Steps Towards nZEB, Springer International Publishing Switzerland, ISBN: 978-3-319-09706-0. (28 pag)		**4.66**

	Cazan, C., Duta, A., 2013, author chapter Advances in Elastomers: Rubber - thermoplastic blends, Editura Springer, ISBN:978-3-642-20924-6. (48 pag)		**12.00**
	Cazan, C., Duta, A., 2010, author chapter "8. Recycled Rubber – Composite Matrix", in book "Types, Properties and Uses", Nova Science Publishers, Inc., ISBN: 978-1-61761-464-4a. (22 pag)		**5.50**
1.1.1.2. Naționale; din care: [1]: Profesor minim 2, d.c. 1 prim autor;	**Vladuta, C.,** autor cap. 4.3 *Recycling in book Sustainable Energy*, Ed. Universitatii Transilvania, 2008, Editori: Ion Visa, Anca Duta, ISBN 978-973-598-454-0, pp 300-324. (24 pag)	Nr.pag. / 5 x nr.autori	**4.80**
1.1.2 Cărți / capitole ca editor 1.1.2.1. Internaționale	**Cazan, C.,** Advances in Sustainable Polymeric Materials, Editura MDPI, 2023, 540 pag, ISBN 978-3-0365-7371-7 (Hbk) ISBN 978-3-0365-7370-0 (PDF). doi:10.3390/polym14224972	Nr.pag. / 3 x nr.autori	**180.00**
	Cazan, C., Pop, A., Advances in Sustainable Polymeric Materials II, Editura MDPI, 2024, 304 pag, ISBN 978-3-7258-1326-1 (Hbk) ISBN 978-3-7258-1325-4 (PDF). doi.org/10.3390/books978-3-7258-1325-4		**50.66**
1.2 Material didactic/lucrări didactice			
1.2.1. Manuale didactice, monografii, inclusiv electronice: pentru Profesor min. 2, din care 1 ca prim autor;	Isac, L., **Cazan, C.,** 2015, Engineering Materials for Industrial Products Design. Metallic and Polymeric Materials, Editura Universității Transilvania din Brașov (259 pag)	Nr. Pag / 10 x nr. autori	**12.95**
1.2.2. Îndrumătoare de laborator/aplicații	Isac, L., Tica, R., Andronic, L**.,Vladuta, C.,** Chimie- Activități experimentale, Editura Universitatii Brașov, 2004 (133 pagini)	Nr. Pag / 20 x nr. autori	**1.66**

Total puncte criteriul A1	**288.52**

A2. Activitate de cercetare (profesor-minim 320 puncte)

2.1 Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings

(Minim 15 articole pentru profesor, din care min. 10 în Reviste cotate ISI Th.R. [din care min. 5 cu FI de min. 1, și min. 5 ca autor principal cu FI min 0,5]

Nr. ctr.	Articole in reviste ISI Thomson Reuters	Calcul punctaj	FI 2024	Număr de autori	Puntaj
1	**Cazan, C.,** Cosnita, M., Sustainable composites with synergistic combinations of construction and demolition waste: Behavior of rubber, HDPE, PS, and brick after short-term water immersion, Journal of Cleaner Production, 471 (2024) 143342. doi: 10.1016/j.jclepro.2024.143342 https://www.webofscience.com/wos/woscc/full-record/WOS:001301201200001	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	9.7	2	242.50
2	Ionescu, A.M., Cazan, C., Pharmaceutical Waste Management: A Comprehensive Analysis of Romanian Practices and Perspectives, Sustainability, 16(15) 2024, 6571.doi:10.3390/su16156571 https://www.webofscience.com/wos/woscc/full-record/WOS:001287090300001		3.3	2	82.50
3	Matei, S., Pop, MA., Zaharia, SM., Cosnita, M., Croitoru, C., Spirchez, C., **Cazan, C.,** Investigation into the Acoustic Properties of Polylactic Acid Sound-Absorbing Panels Manufactured by 3D Printing Technology: The Influence of Nozzle Diameters and Internal Configurations, Materials, 17(3), 2024, 580. DOI:10.3390/ma17030580 https://www.webofscience.com/wos/woscc/full-record/WOS:001160043000001 link citari:		3.1	7	22.14

	https://www-webofscience-com.z.e-nformation.ro/wos/woscc/summary/7c0738b9-c554-473d-8a73-941508794cbc-0112f15a6c/date-descending/1				
4	Cosnita, M., Pop, MA., **Cazan, C.,** Cristea, D., Aging resistance under short time ultraviolet (UV) radiations of polymer wood composites entirely based on wastes, Environmental Technology & Innovation, 31, 2023, DOI: 10.1016/j.eti.2023.103208 https://www.webofscience.com/wos/woscc/full-record/WOS:001015181400001 link citari: https://www.webofscience.com/wos/woscc/summary/9f1cf243-491b-4111-8316-1adb1116aff4-e940c423/date-descending/1	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	6.7	4	83.75
5	**Cazan, C.,** Enesca, A., Isac, L., Andronic, L., Cosnita, M., Accelerated Aging of Polymeric Composites Based on Waste with TiO_2 Fillers, ACS Applied Polymer Materials, 5(6), 2023, 3958-397. doi:10.1021/acsapm.3c00129 https://www.webofscience.com/wos/woscc/full-record/WOS:000985553600001 link citari: https://www.webofscience.com/wos/woscc/summary/32d58773-5687-4614-8738-4f50176e6d65-e9403d05/date-descending/1		4.4	5	44.00
6	Andronic, L., Mamedov, D., **Cazan, C.,** Popa, M., Chifiriuc, MC., Allaniyazov, A., Palencsar, S., Karazhanov, SZ., Cerium oxide thin films: synthesis, characterization, photocatalytic activity and influence on microbial growth, Biofouling, 38(9), 2022, 865-875, doi:10.1080/08927014.2022.2144264 https://www.webofscience.com/wos/woscc/full-record/WOS:000879983000001 link citari: https://www.webofscience.com/wos/woscc/summary/49028b05-f2eb-40ec-9ec2-e90fc41c66d7-e9404340/date-descending/1		2.6	8	16.25

7	Isac, L., **Cazan, C.,** Andronic, L., Enesca, A., CuS-Based Nanostructures as Catalysts for Organic Pollutants Photodegradation, Catalysts 11(10), 2022, 1135, doi:10.3390/catal12101135 https://www.webofscience.com/wos/woscc/full-record/WOS:000872703300001 link citari: https://www.webofscience.com/wos/woscc/summary/1fd6a8e0-906f-4f91-86c1-7bcb49a242a5-e940473b/date-descending/1	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	3.8	4	47.50
8	Enesca, A., **Cazan, C.,** Polymer Composite-Based Materials with Photocatalytic Applications in Wastewater Organic Pollutant Removal: A Mini Review, Polymers, 14(16), 2022, 3291. Doi:10.3390/polym14163291 https://www.webofscience.com/wos/woscc/full-record/WOS:000845603900001 link citari: https://www.webofscience.com/wos/woscc/summary/3064c051-4eaf-4a58-9efc-99332a1c7b16-e9404c50/date-descending/1		4.7	2	117.50
9	Cosnita, M., Balas, M., **Cazan, C.,** The Influence of Fly Ash on the Mechanical Properties of Water Immersed All Waste Composites, Polymers, 14(10), 2022, 1957. Doi:10.3390/polym14101957 https://www.webofscience.com/wos/woscc/full-record/WOS:000803684200001 link citari: https://www.webofscience.com/wos/woscc/summary/225e7e4d-a93c-4f00-bfda-6f9a450b47a9-e9405a3d/date-descending/1	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	4.7	3	78.33
10	**Cazan, C.,** Enesca, A., Andronic, L., Synergic Effect of TiO_2 Filler on the Mechanical Properties of Polymer Nanocomposites, Polymers, 13(12), 2021, 2017. doi:10.3390/polym13122017 https://www.webofscience.com/wos/woscc/full-record/WOS:000666562300001 link citari:		4.7	3	78.33

	https://www.webofscience.com/wos/woscc/summary/6390a2a9-58e3-448e-b109-ff1ad75ac090-e9405d70/date-descending/1				
11	Andronic, L., Isac, L., **Cazan, C.,** Enesca, A., Simultaneous Adsorption and Photocatalysis Processes Based on Ternary TiO_2-CuxS-Fly Ash Hetero-Structures. Applied Sciences, 10(22), 2020, 8070. doi:10.3390/app10228070 https://www.webofscience.com/wos/woscc/full-record/WOS:000594212100001 link citari: https://www.webofscience.com/wos/woscc/summary/78f1162e-311e-46e7-b3fa-d8a7d6c74ba1-e94061f3/date-descending/1		2.5	4	31.25
12	Enesca, A., **Cazan, C.,** Volatile Organic Compounds (VOCs) Removal from Indoor Air by Heterostructures/Composites/Doped Photocatalysts: A Mini-Review. Nanomaterials, 10(10), 2020, 1965. doi:10.3390/nano10101965 https://www.webofscience.com/wos/woscc/full-record/WOS:000585318900001 link citari: https://www.webofscience.com/wos/woscc/summary/dc51a2c8-8f9b-4b43-9d13-4fd542b543f2-e94067f3/date-descending/1	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	4.4	2	110.00
13	Cosnita, M., Manciulea, I., **Cazan, C**., All-Waste Hybrid Composites with Waste Silicon Photovoltaic Module. Polymers, 12(1), 2020, 53. doi:10.3390/polym12010053 https://www.webofscience.com/wos/woscc/full-record/WOS:000519848300053 link citari:		4.7	3	78.33
14	Isac, L., **Cazan, C.,** Enesca, A., Andronic, L. Copper Sulfide Based Heterojunctions as Photocatalysts for Dyes Photodegradation. Frontiers in Chemistry, 7, 2019, 694. doi:10.3389/fchem.2019.00694 https://www.webofscience.com/wos/woscc/full-record/WOS:000494674900001 link citari:		3.8	4	47.50

	https://www.webofscience.com/wos/woscc/summary/8ef8918c-be4e-439e-b06f-2eb6009897bc-e9406ba9/date-descending/1				
15	**Cazan, C.,** Cosnita, M., Isac, L., The influence of temperature on the performance of rubber - PET-HDPE waste -based composites with different inorganic fillers. Journal of Cleaner Production 208 (2019) 1030-1040. Doi:10.1016/j.jclepro.2018.10.045 https://www.webofscience.com/wos/woscc/full-record/WOS:000451362200094 link citari: https://www.webofscience.com/wos/woscc/summary/ccd97911-f768-4c41-bf6b-c4440c7350d3-e940707e/date-descending/1	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	9.7	3	161.67
16	Cosnita, M., **Cazan, C.,** Duta, A.,The influence of inorganic additive on the water stability and mechanical properties of recycled rubber, polyethylene terephthalate, high density polyethylene and wood composites. Journal of Cleaner Production, 165, 2017, 630-636. doi:10.1016/j.jclepro.2017.07.103 https://www.webofscience.com/wos/woscc/full-record/WOS:000411544400057 link citari: https://www.webofscience.com/wos/woscc/summary/2429ed08-06d6-4be0-a9bd-d37aba463037-e9407448/date-descending/1		9.7	3	161.67
17	**Cazan, C.,** Cosnita, M., Duta, A., Effect of PET functionalization in composites of rubber–PET–HDPE type. Arabian Journal of Chemistry, 10(3), 2017, 300-312.doi:10.1016/j.arabjc.2015.10.005 https://www.webofscience.com/wos/woscc/full-record/WOS:000396405000002 link citari: https://www.webofscience.com/wos/woscc/summary/10621146-04b6-423a-8e35-b8fd0ff60865-e9407783/date-descending/1		5.3	3	88.33

18	Cosnita, M., **Cazan, C.,** Duta, A., Effect of waste polyethylene terephthalate content on the durability and mechanical properties of composites with tire rubber matrix. Journal of Composite Materials, 51(3), 2017, 357-372. Doi:10.1177/0021998316645850 https://www.webofscience.com/wos/woscc/full-record/WOS:000394801300006 link citari: https://www.webofscience.com/wos/woscc/summary/98f9bfb5-1e45-425e-9fcf-395046dc71fd-e9407ad3/date-descending/1	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	2.3	3	38.33
19	György, E., Pérez del Pino, A., Logofatu, C., **Cazan, C.,** Duta, A., Mullins, W. Simultaneous Laser-Induced Reduction and Nitrogen Doping of Graphene Oxide in Titanium Oxide/Graphene Oxide Composites. Journal of the American Ceramic Society, 97(9), 2014, 2718–2724. doi:10.1111/jace.13013 https://www.webofscience.com/wos/woscc/full-record/WOS:000341826500007 link citari: https://www.webofscience.com/wos/woscc/summary/3a4cf4b2-6cac-45ae-9537-02305fef8f47-e9407ea1/date-descending/1		3.5	6	29.17
20	Andronic, L., Enesca, A., **Cazan, C.,** Visa, M., TiO_2–active carbon composites for wastewater photocatalysis. Journal of Sol-Gel Science and Technology, 71(3), 2014, 396–405. doi:10.1007/s10971-014-3393-6 https://www.webofscience.com/wos/woscc/full-record/WOS:000340499500003 link citari: https://www.webofscience.com/wos/woscc/summary/f1fe037c-8a7e-447c-b5b5-e94e3283795e-e9408580/date-descending/1	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	2.3	4	28.75
21	Cosnita, M., **Cazan, C.,** Duta, A., Interfaces and mechanical properties of recycled rubber-polyethylene terephthalate-wood composites. Journal of Composite Materials, 48(6),2014, 683–694. doi:10.1177/0021998313476561 https://www.webofscience.com/wos/woscc/full-record/WOS:000332196000005		2.3	3	38.33

	link citari: https://www.webofscience.com/wos/woscc/summary/81f3597c-3cfa-4ef7-ad3a-a1c70fa0eee7-e9408949/date-descending/1				
22	**Cazan, C.,** Perniu, D., Cosnita, M., Duta, A., Polymeric Wastes From Automotives As Second Raw Materials For Large Scale Products, Environmental Engineering And Management Journal, 12(8), 2013, 1649-1655. https://www.webofscience.com/wos/woscc/full-record/WOS:000330190300014 link citari: https://www.webofscience.com/wos/woscc/summary/b492612f-018c-404b-b100-dc01a96212c4-e9408eb9/date-descending/1		0.9	4	11.25
23	Ienei, E., Isac, L., **Cazan, C.,** Duta, A., Characterization of Al/Al2O3/NiOx solar absorber obtained by spray pyrolysis, Solid State Science, 12(11), 2010, 1894–1897. doi:10.1016/j.solidstatesciences.2010.05.028 https://www.webofscience.com/wos/woscc/full-record/WOS:000284521900013 link citari: https://www.webofscience.com/wos/woscc/summary/f5332a5f-75bb-4f46-99ec-bf4a95ec5a66-e94093f5/date-descending/1	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	3.4	4	42.50
24	**Vladuta, C.,** Andronic, L., Duta, A., Effect of TiO_2 Nanoparticles on the Interface in the PET-Rubber Composites. Journal of Nanoscience and Nanotechnology, 10(4), 2010, 2518–2526. doi:10.1166/jnn.2010.1440 https://www.webofscience.com/wos/woscc/full-record/WOS:000273984900035 link citari: https://www.webofscience.com/wos/woscc/summary/b5b2f7cb-6e85-4901-ab55-32d775262151-e9409926/date-descending/1		1.134	3	18.90
25	**Vladuta, C.,** Voinea. M., Purghel, E., Duta, A., Correlations between the structure and the morphology of PET–rubber nanocomposites with different additives, Materials		3.9	4	48.75

	Science And Engineering B-Advanced Functional Solid-State Materials, 165(3), 2009, 221–226. doi:10.1016/j.mseb.2009.07.004 https://www.webofscience.com/wos/woscc/full-record/WOS:000273157800020 link citari: https://www.webofscience.com/wos/woscc/summary/4bf2a1e7-8ce6-44fd-a0b2-d1494619ee92-e9409d2a/date-descending/1				
26	Andronic, L., Enesca, A., **Vladuta, C.,** Duta, A., Photocatalytic activity of cadmium doped TiO_2 films for photocatalytic degradation of dyes, Chemical Engineering Journal, 152(1), 2009, 64–71. doi:10.1016/j.cej.2009.03.031 https://www.webofscience.com/wos/woscc/full-record/WOS:000274348400009 link citari: https://www.webofscience.com/wos/woscc/summary/75430b30-17d3-4cce-bf0c-f256d0a28830-e940a12a/date-descending/1	50 * X / nr.autori; pentru reviste X= factorul de impact al revistei; pentru articole în volume X=0,1	13.2	4	165.00
27	Voinea, M., **Vladuta, C.,** Bogatu, C., Duta, A., Surface properties of copper based cermet materials. Materials Science and Engineering B, 152(1-3), 2008, 76–80. doi:10.1016/j.mseb.2008.06.020 https://www.webofscience.com/wos/woscc/full-record/WOS:000261480600016 link citari: https://www.webofscience.com/wos/woscc/summary/b77cfb1d-7f87-448e-aeba-d1fa24f20f00-e940a4dd/date-descending/1		3.9	4	48.75
28	**Vladuta, C**., Andronic, L., Visa, M., Duta, A., Ceramic interface properties evaluation based on contact angle measurement, Surface & Coatings Technology, 202(11), 2008, 2448–2452; doi:10.1016/j.surfcoat.2007.08.033 https://www.webofscience.com/wos/woscc/full-record/WOS:000253930900045 link citari:		5.3	4	66.25

	https://www.webofscience.com/wos/woscc/summary/e45752aa-fc8d-435f-acee-233e3346b5d5-e940a859/date-descending/1				
TOTAL PUNCTE CRITERIUL 2.1					2027.53

2.2. Articole in reviste si volumele unor manifestări științifice indexate în alte Baze de Date Internaționale [BDI], în specificul postului scos la concurs			Nr.autori	PUNCTAJ
1	Bogatu, C., **Cazan, C.,** Manciulea, I., Duta, A., Corrosion resistance in saline environment of colored based alumina spectrally selective surfaces, JurnalBDI: Solid State Phenomena https://doi.org/10.4028/www.scientific.net/SSP.227.103	**50 * X / nr.autori; X= 0.08**	4	1
2	Manciulea, I., Bogatu, C., **Cazan, C.,** Dumitrescu, A., Duta, A., Investigation of Some Mannich Bases Corrosion Inhibitors for Carbon Steel, JurnalBDI: Solid State Phenomena 227 (2015) 63-66. https://doi.org/10.4028/www.scientific.net/SSP.227.63		5	0.80
3	**Vladuta, C.,** Duta, A., Influence of environmental open-air conditions on the mechanical properties of PET – rubber composites, Gala i, Romania, UgalMat **2005** The annals of "Dunarea de Jos" University of galati fascicle IX Metallurgy and materials science, ISSN 1453 – 083X. NR 2 – **2005.** http://scholar.google.ro/scholar?start=10&q=vladuta&hl=en&as_sdt=0,5		2	2.00
4	Duta, A., **Cazan, C.,** Cosnita, M., Fly ash in optimized composites based on rubber, recycled plastics, World of coal ash(WOCA) Conferences 9-10 may, 2011, Denver, CO USA, http://scholar.google.ro/scholar?start=0&q=cazan+c.&hl=en&as_sdt=0,5		3	1.33
5	Duta, A., **Cazan, C.,** Accelerated aging test of composites based on rubber, recycled plastics and fly ash, World of coal ash(WOCA) Conferences 9-10 may, 2011, Denver, CO USA, http://scholar.google.ro/scholar?start=70&q=cazan+c.&hl=en&as_sdt=0,5		2	2.00

6	Cerbu, C., Ciofoaia, V., Curtu, I., **Vladuta, C.,** Impact behaviour of the composite materials randomly reinforced with e-glass fibres, 13th International Research/Expert Conference "Trends in the Development of Machinery and Associated Technology" TMT 2009, Hammamet, Tunisia, 16-21 October 2009, http://scholar.google.ro/scholar?start=20&q=vladuta&hl=en&as_sdt=0,5		4	1
TOTAL PUNCTE CRITERIUL 2.2				**25.83**

2.3. Brevete de invenție acordate, neindexate/indexate ISI Thomson Reuters-Web of Science-Derwent Innovations Index				
2.3.2. Brevet național	**Denumire brevet**	**Nr. Autori**	**Calcul punctaj**	**Punctaj**
	Coșniță, M., Visa, M., **Cazan, C.,** „Materiale compozite hibride din deșeuri de module fotovoltaice cu siliciu, cauciuc si polietilena" OSIM 2020	**3**	15/25 / nr. autori	**0.2**
TOTAL PUNCTE CRITERIUL 2.3				**0.2**
2.4 Granturi/proiecte de cercetare câștigate prin competiție/ Contracte cu agenți economici, min 10.000 echivalent Euro, încasați				
2.4.1. Director/Responsabil Partener - Minim 2 pentru Profesor **2.4.1.2.** Naționale	PN-III-P2-2.1-PED-2021-2071, MATHYB WASTE - director Noi materiale compozite hibride multifuncționale pe baza de deșeuri destinate creșterii eficientei termice și sustenabilității clădirilor, 2022-2024		5 x ani desfășurare	10
2.4.2. Membru în echipa **2.4.2.1** Internaționale	Sisteme fotocatalitice 3d multifuncționale pentru tehnologii durabile prietenoase cu mediul, Grant al Autorității Naționale pentru Cercetare Științifică si Inovare Romana,		4 x ani desfășurare	12

	CCCDI - UEFISCDI, Număr Proiect 169/2020 ERANET-M.-3D-PHOTOCAT, in cadrul PNCDI III (2020-2022)		
	Studiu teoretic și experimental al nanomaterialelor de oxihidrură de metal tranzițional pentru supraconductivitate și fotocataliză, Grant al Autorității Naționale pentru Cercetare Științifică și Inovare Română, CCCDI - UEFISCDI, Proiect numărul 114/2019 ERANET-M.-TESTIMONIES, în cadrul PNCDI (2019-2021)		12
2.4.2.2. Naționale	Microreactoare hibride pentru îndepărtarea compușilor activi farmaceutic din apele uzate, UEFISCDI, PN-III-P4-PCE-2021-1020, 2022-2024.	2 x ani desfășurare	6
	Materiale multifunctionale pentru conversia eficienta a energiei solare in energie termica perioada:2006-2008 finantator: UEFISCDI nr. ctr: CEEX 277/2006		6
	Sisteme solar termice eficiente cu acceptanta ridicata pentru implementare in mediul urban (EST IN URBA) perioada: 2012-2016 finantator: parteneriate nr ctr: 28/2012		8
	Îmbunătătirea performantelor functionale ale dulapurilor Multiflex perioada: 2016-2016 finantator: SC ELDON SRL nr ctr: 160/06.01.2016		2
TOTAL PUNCTE CRITERIUL 2.3			**56**
TOTAL CRITERIUL A2			**2109.56**

A3 RECUNOAȘTEREA ȘI IMPACTUL ACTIVITĂȚII (minim 30 puncte)

3.1 Citări în reviste cotate în ISI Thomson Reuters-Web of Science Core Collection [FI - Factor de Impact] și în alte BDI (FI se referă la jurnalul în care a fost publicat articolul care citează)

Matei, S., Pop, MA., Zaharia, SM., Cosnita, M., Croitoru, C., Spirchez, C., **Cazan, C.,** Investigation into the Acoustic Properties of Polylactic Acid Sound-Absorbing Panels Manufactured by 3D Printing Technology: The Influence of Nozzle Diameters and Internal Configurations, Materials, 17(3), 2024, 580. DOI:10.3390/ma17030580

Revista	Nr. Crt.	Articolul care citează	FI	Punctaj
ISI	1	Raja, S., Simon Yishak, and Gyorgy Szekely. "Analysis and Optimization of Thermoplastic Polyurethane Infill Patterns for Additive Manufacturing in Pipeline Applications." Advances in Polymer Technology 2024 (2024).	2	2.85
	2	Burgos-Pintos, Álvaro, et al. "An Analysis of the Displacements in 3D-Printed PLA Acoustic Guitars." Polymers 16.15 (2024): 2108.	4.7	2.85
			TOTAL	5.7

Cosnita, M., Pop, MA., **Cazan, C.,** Cristea, D., Aging resistance under short time ultraviolet (UV) radiations of polymer wood composites entirely based on wastes, Environmental Technology & Innovation, 31, 2023, DOI: 10.1016/j.eti.2023.103208

Revista	**Nr. Crt.**	**Articolul care citează**	**FI**	**Punctaj**
ISI	1	Dębska, Bernardeta, Marina Altoé Caetano, and Guilherme Jorge Brigolini Silva. "Study of the influence of accelerated aging on the physical and mechanical properties of polymer composites containing rubber, polyethylene and poly (ethylene terephthalate) waste." Journal of Cleaner Production 444 (2024): 141273.	9.7	7.50
	2	Maraveas, Chrysanthos, et al. "The Aging of Polymers under Electromagnetic Radiation." Polymers 16.5 (2024): 689.	4.7	5.00
			TOTAL	12.50

Cazan, C., Enesca, A., Isac, L., Andronic, L., Cosnita, M., Accelerated Aging of Polymeric Composites Based on Waste with TiO2 Fillers, ACS Applied Polymer Materials, 5(6), 2023, 3958-397. doi:10.1021/acsapm.3c00129

REVISTA	NR. CRT.	ARTICOLUL CARE CITEAZA	FI	punctaj
ISI	1	Ahmed, Doaa A., Morsy A. El-Apasery, and Shereen M. Ragai. "Development of an antimicrobial inorganic polymer based on fly ash and metakaolin incorporated by nano-TiO2 for reactive dye removal." *Scientific Reports* 13.1 (2023): 19889.	3.8	4.00
			TOTAL	4.00

Andronic, L., Mamedov, D., Cazan, C., Popa, M., Chifiriuc, MC., Allaniyazov, A., Palencsar, S., Karazhanov, SZ., Cerium oxide thin films: synthesis, characterization, photocatalytic activity and influence on microbial growth, Biofouling, 38(9), 2022, 865-875, doi:10.1080/08927014.2022.2144264

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	punctaj
ISI	1	Redfern, J., et al. "Critical analysis of methods to determine growth, control and analysis of biofilms for potential non-submerged antibiofilm surfaces and coatings." *Biofilm* (2024): 100187.	5.9	2.5
	2	Liao, Yichen, Pedram Fatehi, and Baoqiang Liao. "Surface properties of membrane materials and their role in cell adhesion and biofilm formation of microalgae." *Biofouling* 39.8 (2023): 879-895.	2.6	2.5
			TOTAL	5.00

Isac, L., Cazan, C., Andronic, L., Enesca, A., CuS-Based Nanostructures as Catalysts for Organic Pollutants Photodegradation, Catalysts 11(10), 2022, 1135, doi:10.3390/catal12101135

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	Punctaj
ISI	1	Du, Ying, et al. "Design, Synthesis, and Diverse Applications of Cu-Based Photocatalysts: A Review." *Crystal Growth & Design* 24.6 (2024): 2592-2618.	3.2	5.00
	2	Deng, Yinyou, et al. "A Prototype Reactor Promoting the Hg (0) Capture in the Simulated Flue Gas from Small-Scale Boilers by Using Copper Oxide-and Copper Sulfide-Coated Teflon Pipes." *Energies* 17.5 (2024): 1236.	3.0	5.00
	3	Yakich, T. Yu, et al. "The first identification of cronstedtite in Cu–Ni–PGE ores of the Talnakh intrusion." *Scientific Reports* 13.1 (2023): 22437.	3.8	5.00

	4	Sharma, Himanshu, et al. "Structural, Optical, and Electrical Properties of Tin-Doped CuS Nanoparticles for Photocatalytic Enhancement and Heterojunction Diode." *Journal of Electronic Materials* 53.1 (2024): 41-52.	1.9	2.5
ISI	5	Mariappan, Athibala, et al. "Interfacial oxygen vacancy modulated ZIF-8-derived ZnO/CuS for the photocatalytic degradation of antibiotic and organic pollutants: DFT calculation and degradation pathways." *Chemical Engineering Journal* 476 (2023): 146720.	13.3	7.5
	6	Oppong-Antwi, Louis, Bosi Huang, and Judy N. Hart. "Electronic Properties of Transition and Alkaline Earth Metal Doped CuS: A DFT Study." *ChemPhysChem* 24.23 (2023): e202300417.	3.0	5.00
	7	Grzegórska, Anna, Jakub Karczewski, and Anna Zielińska-Jurek. "Modelling and optimisation of MXene-derived TiO2/Ti3C2 synthesis parameters using Response Surface Methodology based on the Box–Behnken factorial design. Enhanced carbamazepine degradation by the Cu-modified TiO2/Ti3C2 photocatalyst." *Process Safety and Environmental Protection* 179 (2023): 449-461.	6.9	7.5
	8	Sandhu, Zeshan Ali, et al. "Response surface methodology: a powerful tool for optimizing the synthesis of metal sulfide nanoparticles for dye degradation." *Materials Advances* 4.21 (2023): 5094-5125.	5.2	7.5
	9	Mahalingam, Shanmugam, et al. "Effective visible-light-driven photocatalytic degradation of harmful antibiotics using reduced graphene oxide-zinc sulfide-copper sulfide nanocomposites as a catalyst." *ACS omega* 8.36 (2023): 32817-32827.	3.7	5.00
	10	Ech-Chergui, A. Nebatti, et al. "Spray coated of newly La-doped SnS2 thin films for photocatalytic degradation application." *Physica B: Condensed Matter* 667 (2023): 415206.	2.8	5.00
	11	Onwudiwe, Damian C., et al. "Dual S-scheme heterojunction g-C3N4/Bi2S3/CuS composite with enhanced photocatalytic activity for methyl orange degradation." *Inorganic Chemistry Communications* 155 (2023): 111075.	4.4	5.00
	12	Teixeira, Roberta A., et al. "Adsorption of omeprazole on biobased adsorbents doped with Si/Mg: kinetic, equilibrium, and thermodynamic studies." *Molecules* 28.12 (2023): 4591.	4.2	5.00
	13	Alharbi, F. F., et al. "Facile fabrication of CoAl2O4 based rGO nanohybrid as an environmental purifier for photodegradation of methylene blue." *Journal of Materials Science: Materials in Electronics* 34.16 (2023): 1323.	2.47	5.00
	14	Vakros, John. "Catalytic Processes for Water and Wastewater Treatment." *Catalysts* 13.4 (2023): 677.	3.8	5.00

	15	Afaq, Muhammad, et al. "Fabrication of ZnO-CuFe2O4-CNTs ternary nanocomposite for harmful organic effluents degradation by sunlight irradiation." *Materials Science and Engineering: B* 292 (2023): 116444.	3.4	5.00
	16	Ren, Xuehua, et al. "Emerging 2D copper-based materials for energy storage and conversion: a review and perspective." *Small* 19.8 (2023): 2204121.	13.0	7.5
	17	Isac, Luminita, and Alexandru Enesca. "Recent developments in ZnS-based nanostructures photocatalysts for wastewater treatment." *International Journal of Molecular Sciences* 23.24 (2022): 15668.	5.6	7.5
TOTAL				90.00

Enesca, A., Cazan, C., Polymer Composite-Based Materials with Photocatalytic Applications in Wastewater Organic Pollutant Removal: A Mini Review, Polymers, 14(16), 2022, 3291. Doi:10.3390/polym14163291

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	Punctaj
ISI	1	Sharma, Pankaj, et al. "Recent progress in photocatalytic applications of metal tungstates based Z-scheme and S-scheme heterojunctions." Journal of Industrial and Engineering Chemistry (2023).	5.9	15
	2	Tripathy, Divya B., and Anjali Gupta. "Nanocomposites as sustainable smart materials: A review." Journal of Reinforced Plastics and Composites (2024): 07316844241233162.	2.3	10
	3	Lianmawii, L., Singh, K. B., Singh, N. R., & Singh, N. M. (2024). A review: photocatalytic degradation of dyes by metal sulfide nanoparticles. Brazilian Journal of Chemical Engineering, 1-30.	1.5	5
	4	Lin, X., Fang, H., Wang, L., Sun, D., Zhao, G., & Xu, J. (2024). Photocatalytic Degradation of Sulfamethoxazole and Enrofloxacin in Water Using Electrospun Composite Photocatalytic Membrane. Water, 16(2), 218.	3.0	10
	5	Venditto, V., Vaiano, V., & Sacco, O. (2024). Monolithic Porous Organic Polymer-Photocatalyst Composites for Applications in Catalysis. ChemCatChem, 16(2), e202301118.	3.8	10
	6	Jain, S., Mittal, A., Kumari, V., Sharma, A., Jindal, J., Makgwane, P. R., ... & Kumari, K. (2023). A facile synthesized Z-scheme Bi2O3/SnS/Ag ternary nanocomposite: An expedited visible photocatalysis by plasmonic silver for efficient organic decontamination. Optical Materials, 145, 114434.	3.9	10

ISI	7	Turkten, N., Karatas, Y., Uyguner-Demirel, C. S., & Bekbolet, M. (2023). Preparation of PANI modified TiO2 and characterization under pre-and post-photocatalytic conditions. Environmental Science and Pollution Research, 30(51), 111182-111207.	5.8	15
	8	Thi, T. M., Anh, N. T. N., Ky, V. H., Nghia, N. M., & Thanh, T. D. (2023). Facile Fabrication of PANI/Fe [sub. 2.85] Ni [sub. 0.15] O [sub. 4] Nanocomposites and Their Application for the Effective Degradation of Rhodamine B Dye. Magnetochemistry, 9(8), NA-NA.	2.7	10
	9	Emmanuel, S. S., Olawoyin, C. O., Adesibikan, A. A., & Opatola, E. A. (2024). A pragmatic review on bio-polymerized metallic nano-architecture for photocatalytic degradation of recalcitrant dye pollutants. Journal of Polymers and the Environment, 32(1), 1-30.	4.7	10
	10	Singh, A., & Thakur, S. (2023). Recent advancements in the fabrication of transition metal dichalcogenides-polymer nanocomposites: focused on molybdenum diselenide for various applications. Materials Today Chemistry, 30, 101562.	6.7	15
	11	Khan, S. A., Jain, M., Pant, K. K., Ziora, Z. M., & Blaskovich, M. A. (2023). Photocatalytic degradation of methylparaben using green nanosilver supported on reduced graphene oxide. Industrial & Engineering Chemistry Research, 62(17), 6646-6659.	3.8	10
	12	Zavahir, S., Elmakki, T., Ismail, N., Gulied, M., Park, H., & Han, D. S. (2023). Degradation of organic methyl orange (MO) dye using a photocatalyzed non-ferrous Fenton reaction. Nanomaterials, 13(4), 639.	4.4	10
	13	Kruszelnicka, I., Michałkiewicz, M., Ginter-Kramarczyk, D., Muszyński, P., Materna, K., Wojcieszak, M., ... & Ryszkowska, J. (2023). Spent Coffee as a Composite Filler for Wastewater Treatment. Materials, 16(3), 1181.	3.1	10
	14	Rivera, E., Muñoz-Meneses, R. A., Marín, L., Mora, M., Tabares, J. A., Manotas-Albor, M., ... & Mosquera-Vargas, E. (2023). Structural, optical, and magnetic properties of submicron hematite (α-Fe2O3) particles synthesized from industrial steel waste. Materials Science and Engineering: B, 288, 116170.	3.9	10
	15	Arshad, M., Yasin, T., Ibrahim, T. K., Al-Zaqri, N., Warad, I., Rahim, E., & Rehman, Z. (2024). Photocatalytic reduction of aqueous carcinogenic pollutants on CdS-polymer nanocomposites. Materials Chemistry and Physics, 318, 129261.	4.3	10

ISI	16	Lopez-Maldonado, E. A., Abdellaoui, Y., Elella, M. H. A., Abdallah, H. M., Pandey, M., Anthony, E. T., ... & Oladoja, N. A. (2024). Innovative biopolyelectrolytes-based technologies for wastewater treatment. International Journal of Biological Macromolecules, 132895.	7.7	15
	17	Armaković, S. J., Armaković, S., & Savanović, M. M. (2024). Photocatalytic Application of Polymers in Removing Pharmaceuticals from Water: A Comprehensive Review. Catalysts, 14(7), 447.	3.8	10
	18	Rodriguez-Pacheco, L. C., Lardizabal-Gutierrez, D., Pantoja-Espinoza, J. C., de la Torre-Saenz, L., Estrada-Moreno, I. A., & Paraguay-Delgado, F. (2024). Novel 3D printing filaments: PLA and zinc carbonate basic composites for laser-assisted thermal decomposition. Journal of Materials Research and Technology, 31, 2266-2278.	6.2	15
	19	Kapase, S. A., Patil, P. H., Rajamani, S., & Jadhav, S. A. (2024). Polyaniline and Graphene Oxide or Reduced Graphene Oxide-Based Composites for Environmental Remediation Application. Water Conservation Science and Engineering, 9(2), 50.	1.3	5
		TOTAL		**205.00**

Cosnita, M., Balas, M., Cazan, C., The Influence of Fly Ash on the Mechanical Properties of Water Immersed All Waste Composites, Polymers, 14(10), 2021, 1957. Doi:10.3390/polym14101957

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	Punctaj
ISI	1	Zhao, L., Ma, W., Zhang, H., & Long, H. (2024). Use of melt blending to synthesize wood plastic composites containing modified steel slag: a study. Materials and Manufacturing Processes, 39(8), 1052-1060.	4.1	6.66
		Zaind, N., Mazlan, S. A., Aziz, S. A. A., Johari, M. A. F., Ubaidillah, U., Nordin, N. A., ... & Hanafiah, M. A. K. M. (2024). Deterioration behavior of aged magnetorheological elastomer under harsh marine environment. Express Polymer Letters, 18(7), 728-741.	2.7	6.66
		Caban, R., & Gnatowski, A. (2024). Analysis of the Impact of Waste Fly Ash on Changes in the Structure and Thermal Properties of the Produced Recycled Materials Based on Polyethylene. Materials, 17(14), 3453.	3.1	6.66
		Mohan, S., Thilagavathi, G., & Rajkhowa, R. (2024). Development of micro dust reinforced composite for building applications. Journal of Cleaner Production, 470, 143244.	9.7	10

		Zhao, L., Zhao, K., Shen, Z., Wang, Y., Xia, X., Zhang, H., & Long, H. (2024). Novel wood-plastic composite fabricated via modified steel slag: Preparation, mechanical and flammability properties. International Journal of Minerals, Metallurgy and Materials, 31(9), 2110-2120.	5.6	10
		TOTAL		39.98

Cazan, C., Enesca, A., Andronic, L., Synergic Effect of TiO2 Filler on the Mechanical Properties of Polymer Nanocomposites, Polymers, 13(12), 2021, 2017. doi:10.3390/polym13122017

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	Punctaj
ISI	1	Vishwakarma, J., Jaiswal, S., Gupta, S. K., Gorhe, N., Rajak, D. K., N, P., ... & Dwivedi, N. (2024). Synergies of Nanocopper and Graphene as Cofillers in a Shape-Memory Polyurethane. *ACS Applied Polymer Materials*.	4.4	6.66
	2	Moharana, A. P., Singh, S. S., & Dixit, A. R. (2024). Dynamic mechanical and viscoelastic properties of glass fiber reinforced photopolymer composite fabricated using vat-photopolymerization additive technique: Influence of filler volume fraction. *Journal of Manufacturing Processes*, *130*, 72-86.	6.1	10
	3	Gavande, V., Mahalingam, S., Kim, J., & Lee, W. K. (2024). Optimization of UV-Curable Polyurethane Acrylate Coatings with Hexagonal Boron Nitride (hBN) for Improved Mechanical and Adhesive Properties. *Polymers*, *16*(17), 2544.	4.7	6.66
	4	Zajac, K., Macyk, J., Szajna, K., Krok, F., Macyk, W., & Kotarba, A. (2024). Functionalization of Polypropylene by TiO2 Photocatalytic Nanoparticles: On the Importance of the Surface Oxygen Plasma Treatment. *Nanomaterials*, *14*(16), 1372.	4.4	6.66
	5	Arora, N., Dua, S., Singh, V. K., Singh, S. K., & Senthilkumar, T. (2024). A Comprehensive Review on Fillers and Mechanical Properties of 3D Printed Polymer Composites. *Materials Today Communications*, 109617.	3.3	6.66
	6	Gavilanes, D., Cataño, F. A., Quiles-Carrillo, L., Balart, R., Saavedra, M., Carbonnel, A., ... & Zapata, P. A. (2024). Incorporation of TiO2 and TiO2-Ag Nanoparticles in Recycled High-Density Polyethylene: Effect of the Type of Photocatalyst and Incorporation Method on Photocatalytic Activity for the Decomposition of NO. *Journal of Polymers and the Environment*, 1-21.	4.7	6.66

ISI	7	Trembecka-Wójciga, K., & Ortyl, J. (2024). Enhancing 3D printed ceramic components: The function of dispersants, adhesion promoters, and surface-active agents in Photopolymerization-based additive manufacturing. *Advances in Colloid and Interface Science*, 103251.	15.9	10
	8	Iezzi, E. B., Daniels, G. C., Sutyak, K., & Camerino, E. (2024). Impact of Cross-Linker Structure on the Properties of Durable and Selectively Degradable Silyl-Containing Polyurethane Networks. *ACS Applied Polymer Materials*, *6*(14), 8178-8190.	4.4	6.66
	9	Afolabi, O. A., & Ndou, N. (2024). Synergy of Hybrid Fillers for Emerging Composite and Nanocomposite Materials—A Review. *Polymers*, *16*(13), 1907.	4.7	6.66
	10	Eryildiz, M. (2024). Tailoring mechanical properties of FDM-3D-printed parts through titanium dioxide-reinforced resin filling technique. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 09544054241260467.	1.2	5
	11	Abdelazeez, A. A. A., Rabia, M., Hasan, F., Mahanta, V., & Adly, E. R. (2024). Polymer Nanocomposites: Catalysts for Sustainable Hydrogen Production from Challenging Water Sources. *Advanced Energy and Sustainability Research*, 2400077.	6.2	10
	12	Prince, M. E., Tamilarasi, K., Thiagamani, S. M. K., Hashem, M., Fouad, H., & Ansari, A. (2024). Effects of TiO2 nanoparticles on the dielectric and electromagnetic shielding performance of PVA/POM hybrid nanocomposites. *Polymer-Plastics Technology and Materials*, 1-13.	2.6	6.66
	13	Farooq, A., Mahmood, A., & Khan, M. (2024). TiO2 nano-filler and ionic liquid-blended polyurethane elastomer films for enhanced antistatic applications. *Journal of Materials Science*, 1-11.	3.5	6.66
	14	Siwińska-Ciesielczyk, K., Andrzejczak, A., Jesionowski, T., Gierz, Ł., Marcinkowska, A., & Robakowska, M. (2024). New Insights into the Application of Biocompatible (Un) Modified TiO2 and TiO2-ZrO2 Oxide Fillers in Light-Curing Materials. *Materials*, *17*(12), 2908.	3.1	6.66
	15	Ocelić Bulatović, V., Jakić, M., Kučić Grgić, D., & Jakić, J. (2024). Non-Isothermal Degradation Mechanism of Micro/Nano Titanium Dioxide-Enhanced Polycaprolactone Biocomposite. *Processes*, *12*(6), 1214.	2.8	6.66
	16	Kumar, R., Mishra, S. K., Raj, U., Sengupta, S., Chatterjee, R., Pandey, S., ... & Jayapalan, S. (2024). Influence of graphene nanoplatelets (GnPs) and titanium dioxide (TiO2) hybrid fillers on the mechanical, thermal, and morphological	2.1	6.66

		performance of polypropylene (PP) based hybrid composites. *Polymers and Polymer Composites*, *32*, 09673911241260160.		
ISI	17	Tai, Z., Guo, Z., Niu, W., Chai, G. B., Qin, C., & Li, Y. (2024). Molecular dynamics simulation and mechanical properties study of TiO2/polyisoprene composites. *Polymer Composites*, *45*(12), 11376-11389.	4.8	6.66
	18	du Maire, P., Friebertshäuser, M., Deckert, M., Johlitz, M., & Öchsner, A. (2024). Determination of the flexural properties of additively manufactured polyamide 12 components with antimicrobial titanium dioxide additives. *Materialwissenschaft und Werkstofftechnik*, *55*(5), 616-621.	1.2	5.00
	19	Vasilev, A. P., Dyakonov, A. A., Danilova, S. N., Makarov, I. S., Okoneshnikova, A. V., & Okhlopkova, A. A. (2024). Effect of Nano-CuO and 2-Mercaptobenzothiazole on the Tribological Properties of Ultra-High Molecular Weight Polyethylene. *Lubricants*, *12*(5), 174.	3.1	6.66
	20	Zhou, J. H., & Tang, L. M. (2024). Investigation on UV-curing reprocessable thermosets bearing hindered urea bonds and their composites with modified zinc oxide nanoparticles. *Chinese Journal of Polymer Science*, *42*(6), 751-765.	4.1	6.66
	21	Kumar, A., & Singh, G. (2024). Surface modification of Ti6Al4V alloy via advanced coatings: Mechanical, Tribological, Corrosion, Wetting, and Biocompatibility studies. *Journal of Alloys and Compounds*, 174418.	5.8	10
	22	Gao, J., Chen, Y. J., Shuai, J. T., Liu, X. Y., Zou, B. N., Feng, W., ... & Chen, J. Q. (2024). Poly (vinylpyrrolidone) mediated synthesis of TiO 2 with enhanced photocatalytic activity and stability. *Digest Journal of Nanomaterials & Biostructures (DJNB)*, *19*(2).	1.0	3.33
	23	Sun, H., Liu, L., Hu, S., Wei, L., Chen, H., Nan, H., ... & Yan, D. (2024). Effect of surface-modified incinerated sewage sludge ash as a reinforcing filler on the mechanical and thermal properties of polylactic acid composites. *Journal of Thermoplastic Composite Materials*, 08927057241241503.	3.6	6.66
	24	Elangovan, N., Srinivasan, A., Pugalmani, S., Kalaiyarasan, M., Rajendran, N., Seikh, A. H., & Rajendiran, N. (2024). Development and electrochemical investigations of enhanced corrosion-resistant Polyvinylcarbazole-TiO2 hybrid nanocomposite coatings on 316L SS for marine applications. *Surface and Coatings Technology*, *481*, 130628.	5.3	10
	25	Thuc, D. Q., Mai, Q. D., Son, N. A., Nguyen, H. A., Pham, A. T., & Le, A. T. (2024). Superior UV Resistance of Unsaturated Polyester Resin by Employing Amorphous e-TiO2 Nanoparticles for Outdoor Applications. *ACS Applied Polymer Materials*, *6*(6), 3179-3191.	4.4	6.66

ISI	26	Bhuvanendran, R. K., Bhuvaneshwari, S., Prasannakumari, A. S. N., & Palani, M. (2024). Dairy wastewater treatment by peroxi-electrocoagulation method in hybrid electrocoagulation reactor and development of pigment from waste sludge. *Journal of Material Cycles and Waste Management*, *26*(2), 1102-1118.	2.7	6.66
	27	Cot, M., Mijas, G., Prieto-Fuentes, R., Riba-Moliner, M., & Cayuela, D. (2024). The Influence of Titanium Dioxide (TiO2) Particle Size and Crystalline Form on the Microstructure and UV Protection Factor of Polyester Substrates. *Polymers*, *16*(4), 475.	4.7	6.66
	28	Miklečić, J., Zeljko, M., Lučić Blagojević, S., & Jirouš-Rajković, V. (2024). The Effect of Polyacrylate Emulsion Coating with Unmodified and Modified Nano-TiO2 on Weathering Resistance of Untreated and Heat-Treated Wood. *Polymers*, *16*(4), 511.	4.7	6.66
	29	Gunasekaran, R., & Charles, J. (2024). Structural characterization and dielectric properties of ternary polyaniline/berlin blue/ruthenium dioxide nanocomposite. *Polymer-Plastics Technology and Materials*, *63*(6), 716-737.	2.6	6.66
	30	Jeon, H., Na, C., Kwac, L. K., Kim, H. G., & Chang, J. H. (2024). Effects of various types of organo-mica on the physical properties of polyimide nanocomposites. *Scientific Reports*, *14*(1), 655.	3.8	6.66
	31	Pimsawat, N., Theerakulpisut, S., & Kamwilaisak, K. (2024). Tailoring visible-light active TiO2/cellulose nanocomposites with controlled crystalline structure for enhanced photocatalytic performance. *Scientific Reports*, *14*(1), 101.	3.8	6.66
	32	Hadjez, F., Maouche, H., Boumediri, H., Chorfi, S., & Boukelia, T. E. (2024). Se (IV)-Doped Monodisperse Spherical TiO 2 Nanoparticles for Adhesively Bonded Joint Reinforcing: Synthesis and Characterization. *SAE International Journal of Materials and Manufacturing*, *17*(05-17-03-0017).	0.6	3.33
	33	Bernagozzi, G., Arrigo, R., & Frache, A. (2023). Evolution of the Microstructure of PP-LDHs Nanocomposites during Melt Compounding: A Simulation Approach. *Polymers*, *16*(1), 70.	4.7	6.66
	34	Iyer, T., Nayak, S. Y., Hiremath, A., Heckadka, S. S., & Jaideep, J. P. (2023). Influence of TiO2 nanoparticle modification on the mechanical properties of basalt-reinforced epoxy composites. *Cogent Engineering*, *10*(1), 2227397.	2.1	6.66
ISI	35	Abuhantash, F., Hegab, H. M., Aljundi, I. H., & Hasan, S. W. (2023). Synergistic design of polylactic acid/functionalized multi-walled carbon nanotubes composite membrane for enhanced oil-water separation. *Journal of Environmental Chemical Engineering*, *11*(6), 111566.	7.4	10

	36	Naikwadi, A. T., Chandkoti, I., Mali, M., & Rao, B. (2023). Failure Investigation on Delamination of Polydimethylsiloxane-Based Light-Emitting Diode Encapsulating Coating. *Journal of Failure Analysis and Prevention*, *23*(6), 2683-2692.	0.9	3.33
	37	Alharbi, W., Alharbi, F. G., Alharbi, K. H., El-Morsy, M. A., Farea, M. O., & Menazea, A. A. (2024). Modification and development in the microstructure of carboxy methyl cellulose-TiO2/Cr2O3 nanocomposites films for optoelectrical applications. *Inorganic Chemistry Communications*, *159*, 111700.	4.4	6.66
	38	Ghasemkhani, A., Pircheraghi, G., & Shojaei, M. (2023). An innovative polymer composite prepared through the recycling of spent lead-acid battery separators. *Sustainable Materials and Technologies*, *38*, e00753.	8.6	10
	39	Roy, S. (2023). Comparative analysis of thermo-physical and mechanical properties of PALF/CF/epoxy resin with and without nano TiO2 filler. *Journal of the Mechanical Behavior of Biomedical Materials*, *148*, 106201.	3.3	6.66
	40	Ding, J., Chen, S., Zhao, Y., Wu, X., Zhao, S., Yuan, A., ... & Fu, X. (2023). Engineering Polymeric Phase-Change Sub-Microcapsules with a High Encapsulation Fraction by Facile, Versatile Suspension Polymerization. *ACS Sustainable Chemistry & Engineering*, *11*(38), 14000-14009.	7.1	10
	41	Kharat, B. M., Vyavahare, S. A., Shirapure, Y., Kerosenewala, J., Desai, P., & More, A. P. (2023). Synthesis and characterization of polypyrrole-fly-ash-adenosine composite reinforced epoxy coating for anticorrosive applications. *Journal of Applied Polymer Science*, *140*(46), e54685.	2.7	6.66
	42	Gupta, D., Chaudhary, A. K., Singh, V. K., Verma, D., Goh, K. L., & Sharma, M. (2023). Thermo-mechanical analysis of bhimal fiber (Grewia optiva)-CaCO3/flyash/TiO2 reinforced epoxy bio-composites. *Industrial Crops and Products*, *204*, 117341.	5.6	10
	43	Panchenko, V. N., Matsko, M. A., Selishchev, D. S., & Kozlov, D. V. (2023). Polymeric Floating Photocatalysts Based on PE/TiO2 Composites for the Removal of Organic Pollutants in Water. *Journal of Composites Science*, *7*(8), 318.	3.0	6.66
ISI	44	Ogbonna, V. E., Popoola, A. P. I., & Popoola, O. M. (2023). Characterization of the mechanical and tribological properties of TiO2/polyimide nanocomposites produced using spark plasma sintering method. *Polymer-Plastics Technology and Materials*, *62*(13), 1696-1706.	2.6	6.66
	45	Yuk, S., Lee, B. C., Kim, S., Kang, W. K., & Lee, D. (2024). Study on Silane Coupling Agent Treated Silica Nanoparticles Filled High Performance Copper Clad Laminate. *Electronic Materials Letters*, *20*(2), 207-216.	2.1	6.66

	46	Pawelec, K. M., Hix, J. M., & Shapiro, E. M. (2023). Functional attachment of primary neurons and glia on radiopaque implantable biomaterials for nerve repair. *Nanomedicine: Nanotechnology, Biology and Medicine*, *52*, 102692.	4.2	6.66
	47	Bekhit, M., El-Sayyad, G. S., & Sokary, R. (2023). Gamma Radiation-Induced synthesis and characterization of Decahedron-Like Silver Nanostructure and their antimicrobial application. *Journal of Inorganic and Organometallic Polymers and Materials*, *33*(9), 2906-2923.	3.9	6.66
	48	Kumaravel, P., Raja, K. V., & Suresh, P. (2023). Mechanical behavior of LM26/SiC/TiO2/Ni-Gr reinforced hybrid metal matrix composites–An experimental investigation. *Journal of Ceramic Processing Research*, *24*(3), 569-577.	1.4	5
	49	Gallah, H., Mighri, F., Ajji, A., & Bandyopadhyay, J. (2023). Flexible PET/(PET-TiO2) core/shell nanofibrous mats as potential photoanode layer for dye-sensitized solar cells, DSSCs. *Materials Chemistry and Physics*, *305*, 127911.	4.3	6.66
	50	Pan, K., Zhu, Z., Liu, C., Tao, S., Tang, X., Wei, X., & Yang, B. (2023). Flexible transparent hydrophobic coating films with excellent scratch resistance using Si-doped carbonized polymer dots as building blocks. *ACS Applied Materials & Interfaces*, *15*(21), 26060-26068.	8.3	10
	51	Shan, L., Tan, C. Y., Shen, X., Ramesh, S., Zarei, M. S., Kolahchi, R., & Hajmohammad, M. H. (2023). The effects of nano-additives on the mechanical, impact, vibration, and buckling/post-buckling properties of composites: A review. *Journal of Materials Research and Technology*, *24*, 7570-7598.	6.2	10
	52	Roy, A., Panda, S., Gupta, J., Singh, R. P., Kour, P., Sharma, M. P., & Yadav, K. (2023). Effects of interfacial interactions on structural, optical, thermal degradation properties and photocatalytic activity of low-density polyethylene/BaTiO3 nanocomposite. *Polymer*, *276*, 125932.	4.7	6.66
	53	du Maire, P., Deckert, M., Johlitz, M., & Öchsner, A. (2023). Characterisation of the mechanical properties of polyamide 12 powder when using titanium dioxide as antimicrobial additive. *Materialwissenschaft und Werkstofftechnik*, *54*(4), 385-390.	1.2	5
ISI	54	Bukichev, Y. S., Bogdanova, L. M., Lesnichaya, V. A., Chukanov, N. V., Golubeva, N. D., & Dzhardimalieva, G. I. (2023). Mechanical and thermophysical properties of epoxy nanocomposites with titanium dioxide nanoparticles. *Applied Sciences*, *13*(7), 4488.	2.5	6.66
	55	Ji, L., Liu, L., Li, H., & Ji, Y. (2023). The molecular design and characterization of a transparent and flexible TiO2/polymer nanocomposite with antibacterial and anti-UV light properties. *Journal of Polymer Research*, *30*(4), 149.	2.6	6.66

	56	Nasir, N. A. M., Kamaruzzaman, W. M. I. W. M., Badruddin, M. A., & Mohd Ghazali, M. S. (2024). Surface modification effects of CaCO3 and TiO2 nanoparticles in nonpolar solvents. *Journal of Dispersion Science and Technology*, *45*(5), 870-879.	1.9	5.00
	57	Kuvshinova, L. A., Udoratina, E. V., Karaseva, Y. S., & Cherezova, E. N. (2023). Physical-mechanical Properties and Morphology of Lignocellulose Powder Modifiers for Vulcanized Rubbers. *Russian Journal of Applied Chemistry*, *96*(3), 281-291.	0.6	5.00
	58	Alshahrie, A., Saini, S., Hasan, P. M. Z., Al-Ghamdi, A. A., Quraishi, A. M., Alsulami, A., & Alvi, P. A. (2023). Biocompatible Poly (Vinyl Alcohol)-copper oxide-graphene oxide (PVA-CuO-GO) nanocomposites: synthesis, structural and optical properties. *Science of Advanced Materials*, *15*(3), 412-422.	0.9	5.00
	59	Dobrosielska, M., Dobrucka, R., Brząkalski, D., Kozera, P., Martyła, A., Gabriel, E., ... & Przekop, R. E. (2023). Polyamide 11 Composites Reinforced with Diatomite Biofiller—Mechanical, Rheological and Crystallization Properties. *Polymers*, *15*(6), 1563.	4.7	6.66
	60	Ranjta, L., Singh, C. P., & Rai, N. (2023, February). Ion Transport Behavior in Nanotube-Embedded Nanocomposite Polymer Electrolyte Membranes. In *Macromolecular Symposia* (Vol. 407, No. 1, p. 2100408).	0.913	5.00
	61	Goh, P. S., Samavati, Z., Ismail, A. F., Ng, B. C., Abdullah, M. S., & Hilal, N. (2023). Modification of liquid separation membranes using multidimensional nanomaterials: revealing the roles of dimension based on classical titanium dioxide. *Nanomaterials*, *13*(3), 448.	4.4	6.66
	62	Rai, N., Singh, C. P., Ranjta, L., & Yahya, M. Z. A. (2023). XRD, DSC, and Dielectric studies of MWNT-doped polymer electrolytes for supercapacitor application. *Journal of Electronic Materials*, *52*(7), 4269-4278.	2.2	6.66
ISI	63	Sajedi, S. A., Bagheri–Mohagheghi, M. M., & Shirpay, A. (2023). Synthesis and characterization of PVA: CA/SnO2 polymer nanocomposites for flexible electrode applications—Investigation of structural and optical properties. *Optical and Quantum Electronics*, *55*(1), 54.	3.3	6.66
	64	Li, N., Liu, Z. Q., Yang, Y. X., Ying, Y. C., & Zhou, Z. Y. (2023). Enhanced wear resistance while maintaining transparency of epoxy resin coatings filled with novel one-dimensional magnesium borate hydroxide nanorods. *Progress in Organic Coatings*, *175*, 107370.	6.7	10

	65	Radhakrishnan, S., Das, P. P., & Chaudhary, V. (2024). Deciphering the pathways for evaluation of nanofillers for polymer composites: biodegradability, sustainability, and emerging applications. *Biomass Conversion and Biorefinery*, *14*(13), 13659-13690.	3.5	6.66
	66	Radhakrishnan, S., Das, P. P., & Chaudhary, V. (2024). Deciphering the pathways for evaluation of nanofillers for polymer composites: biodegradability, sustainability, and emerging applications. *Biomass Conversion and Biorefinery*, *14*(13), 13659-13690.	6.5	10
	67	Li, H., Cheng, B., Gao, W., Feng, C., Huang, C., Liu, Y., ... & Zhao, H. (2022). Recent research progress and advanced applications of silica/polymer nanocomposites. *Nanotechnology Reviews*, *11*(1), 2928-2964.	6.1	10
	68	Jiao, L., Zhao, X., Guo, Z., Chen, Y., Wu, Z., Yang, Y., ... & Lin, M. (2022). Effect of γ irradiation on the properties of functionalized carbon-doped boron nitride reinforced epoxy resin composite. *Polymer Degradation and Stability*, *206*, 110167.	6.3	10
	69	Nawaz, H., Umar, M., Maryam, R., Nawaz, I., Razzaq, H., Malik, T., & Liu, X. (2022). Polymer Nanocomposites based on TiO2 as a reinforcing agent: An Overview. *Advanced Engineering Materials*, *24*(11), 2200844.	3.4	6.66
	70	Fang-cheng, L., Mei-ying, Z., Jing-xuan, S., Xiu-quan, L., Hao-ou, R., Qing, X., ... & Xiao-bin, C. (2022). Effect of TiO2 modified with dopamine and Silane coupling agent on the electrical properties of PMIA insulation paper. *Polymer Engineering & Science*, *62*(9), 2998-3009.	3.2	6.66
	71	Karbowniczek, J. E., Ura, D. P., & Stachewicz, U. (2022). Nanoparticles distribution and agglomeration analysis in electrospun fiber based composites for desired mechanical performance of poly (3-hydroxybuty-rate-co-3-hydroxyvalerate (PHBV) scaffolds with hydroxyapatite (HA) and titanium dioxide (TiO2) towards medical applications. *Composites Part B: Engineering*, *241*, 110011.	12.7	10
ISI	72	Chen, B., Dai, J., Song, T., & Guan, Q. (2022). Research and development of high-performance high-damping rubber Materials for high-damping rubber isolation bearings: A review. *Polymers*, *14*(12), 2427.	4.7	6.66
	73	Norfarhana, A. S., Ilyas, R. A., Ngadi, N., Sharma, S., Sayed, M. M., El-Shafay, A. S., & Nordin, A. H. (2022). Natural fiber-reinforced thermoplastic ENR/PVC composites as potential membrane technology in industrial wastewater treatment: a review. *Polymers*, *14*(12), 2432.	4.7	6.66

	74	Alves, M. M., Santos, C., & Montemor, M. F. (2022). Improved corrosion resistance on Mg-2Ca alloy with TiO2 nanoparticles embedded in a polycaprolactone (PCL) coating. *Applied Surface Science Advances*, *9*, 100257.	7.5	10
	75	Yue, T., Wang, H., Fu, Y., Guo, S., Zhang, X., & Liu, T. (2022). Non-isothermal crystallization of titanium-dioxide-incorporated rice straw fiber/poly (butylene succinate) biocomposites. *Polymers*, *14*(7), 1479.	4.7	6.66
	76	Pan, K., Liu, C., Zhu, Z., Feng, T., Tao, S., & Yang, B. (2022). Soft–Hard Segment Combined Carbonized Polymer Dots for Flexible Optical Film with Superhigh Surface Hardness. *ACS Applied Materials & Interfaces*, *14*(12), 14504-14512.	8.3	10
	77	Li, Y., Zhou, J., Shen, J., Li, Q., Qi, Y., & Chen, W. (2022). Ultra-low permittivity HSM/PTFE composites for high-frequency microwave circuit application. *Journal of Materials Science: Materials in Electronics*, *33*(13), 10096-10103.	2.8	6.66
	78	Kumar, A., & Kumar, N. (2022). Advances in transparent polymer nanocomposites and their applications: A comprehensive review. *Polymer-Plastics Technology and Materials*, *61*(9), 937-974.	2.6	6.66
	79	Hong, L., Liu, L., Zhang, Z., Song, J., Li, S., Chen, K., ... & Wang, Y. (2022). Tough and self-healing hydrogels based on transient crosslinking by nanoparticles. *Soft Matter*, *18*(9), 1885-1895.	2.9	6.66
	80	Khaki, D., Namazi, H., & Amininasab, S. M. (2022). Novel cardo-type heat-resistant polyimides bearing 9 H-xanthene and polymer-based nanocomposite consisting of NH2-terminated TiO2: Synthetic strategies, extraction of methylene blue dye, and biological activities. *Journal of Polymer Science*, *60*(9), 1521-1538.	3.9	6.66
	81	Sarangapani, V., & Rajamanickam, D. (2022). Effect of gamma irradiation on titanium dioxide-filled polymer composites in cable insulation applications. *Iranian Polymer Journal*, *31*(7), 809-820.	2.4	6.66
	82	Gholinezhad, F., Golhosseini, R., & Moini Jazani, O. (2022). Synthesis, characterization, and properties of silicone grafted epoxy/acrylonitrile butadiene styrene/graphene oxide nanocomposite with high adhesion strength and thermal stability. *Polymer Composites*, *43*(3), 1665-1684.	4.8	6.66
ISI	83	Zielińska, D., Siwińska-Ciesielczyk, K., Bula, K., Jesionowski, T., & Borysiak, S. (2022). TiO2/nanocellulose hybrids as functional additives for advanced polypropylene nanocomposites. *Industrial Crops and Products*, *176*, 114314.	5.6	10
	83	Bangera, M. K., Kotian, R., Natarajan, S., Somasundaram, J., & Mangalath, D. L. (2022). Behavior of nanosilver and nanotitanium reinforced polymethyl methacrylate for dental applications. *Polymer Composites*, *43*(2), 741-752.	4.8	6.66

	85	Dakroury, G. A., Maree, R. M., El-Shazly, E. A. A., & Allan, K. F. (2022). Synthesize of poly (acrylamide-co-itaconic/TiO 2) nanocomposite for Ce (III) sorption from monazite leachate. *Journal of Polymers and the Environment*, 1-17.	4.7	6.66
	86	Mokoba, T., Lu, J., Zhang, T. C., Ouyang, L., & Yuan, S. (2021). Superhydrophobic ODT-TiO2 NW-PDA nanocomposite-coated polyurethane sponge for spilled oil recovery and oil/water separation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, *630*, 127541.	4.9	6.66
	87	Singh, P., Mirza, A. U., Bhat, S. A., Kareem, A., & Nishat, N. (2021). Synthesis, characterization and evaluation of thermal, adsorption and antioxidant studies of amino functionalized poly (methyl methacrylate)/titanium dioxide nanocomposites. *Inorganic Chemistry Communications*, *132*, 108817.	4.4	6.66
TOTAL				619.61

Andronic, L., Isac, L., **Cazan, C.,** Enesca, A., Simultaneous Adsorption and Photocatalysis Processes Based on Ternary TiO2-CuxS-Fly Ash Hetero-Structures, Applied Sciences, 10(22), 2020, 8070. doi:10.3390/app10228070

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	Punctaj
	1	Rahimihaghighi, M., Gigli, M., Ficca, V. C., Placidi, E., Sgarzi, M., & Crestini, C. Lignin-derived Sustainable Nano-platforms: A Multifunctional Solution for an Efficient Dye Removal. *ChemSusChem*, e202400841.	7.5	7.50
	2	Guo, J., Fan, Y., Qiao, C., Ma, X., Dong, X., & Zeng, H. (2024). Harnessing coal and coal waste for environmental conservation: A review of photocatalytic materials. *Science of The Total Environment*, 174437.	8.2	7.50
ISI	3	Ali, H., Yasir, M., Ngwabebhoh, F. A., Sopik, T., Zandraa, O., Sevcik, J., ... & Kuritka, I. (2023). Boosting photocatalytic degradation of estrone hormone by silica-supported g-C3N4/WO3 using response surface methodology coupled with Box-Behnken design. *Journal of Photochemistry and Photobiology A: Chemistry*, *441*, 114733.	4.1	5.00
	4	Khan, M. M., Sharma, B., Ahamed, M., & Kumar, S. (2023). Ag nanoparticles decorated on rGO sheets: Green synthesis and effective photocatalytic action. *Physica B: Condensed Matter*, *657*, 414789.	2.8	5.00
	5	Sadati, H., & Ayati, B. (2023). Using a promising biomass-based biochar in photocatalytic degradation: highly impressive performance of RHB/SnO2/Fe3O4 for elimination of AO7. *Photochemical & Photobiological Sciences*, *22*(6), 1445-1462.	2.7	5.00

	6	Cervantes-Diaz, K. B., Drobek, M., Julbe, A., & Cambedouzou, J. (2023). SiC Foams for the Photocatalytic Degradation of Methylen	3.1	5.00
	7	Popa, A., Cocheci, L., Lupa, L., Pop, A., & Visa, A. (2023). β-Phosphonated Glycine Pendant Groups Grafted on Styrene-6.7% Divinylbenzene Copolymers: Synthesis and Their Application as Photocatalysts. *Applied Sciences*, *13*(3), 2025.	2.5	5.00
	8	Andronic, L., Lelis, M., Enesca, A., & Karazhanov, S. (2022). Photocatalytic activity of defective black-titanium oxide photocatalysts towards pesticide degradation under UV/VIS irradiation. *Surfaces and Interfaces*, *32*, 102123.	5.7	7.50
	9	Kusworo, T. D., Kumoro, A. C., & Utomo, D. P. (2022). Photocatalytic nanohybrid membranes for highly efficient wastewater treatment: A comprehensive review. *Journal of environmental management*, *317*, 115357.	8.0	7.50
	10	Nouri-Mashiran, M., Taghavi, L., Fataei, E., Ebrahimzadeh-Rajaei, G., & Ramezani, M. (2022). Green synthesis of ZnO nanoparticles and comparison of 2, 4-dinitrophenol removal efficiency using photocatalytic, sonocatalytic, and adsorption processes. *Main Group Chemistry*, *21*(2), 559-575.	1.3	3.75
	11	Roy, N., Alex, S. A., Chandrasekaran, N., Kannabiran, K., & Mukherjee, A. (2022). Studies on the removal of acid violet 7 dye from aqueous solutions by green ZnO@ Fe3O4 chitosan–alginate nanocomposite synthesized using Camellia sinensis extract. *Journal of Environmental Management*, *303*, 114128.	8.0	7.50
	12	Costantino, F., Cavaliere, E., Gavioli, L., Carzino, R., Leoncino, L., Brescia, R., ... & Fragouli, D. (2021). Photocatalytic activity of cellulose acetate nanoceria/Pt hybrid mats driven by visible light irradiation. *Polymers*, *13*(6), 912.	4.7	5.00
TOTAL				71.25

Enesca, A., Cazan, C., Volatile Organic Compounds (VOCs) Removal from Indoor Air by Heterostructures/Composites/Doped Photocatalysts: A Mini-Review. Nanomaterials, 10(10), 2020, 1965. doi:10.3390/nano10101965

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	Punctaj
ISI	1	Fornasaro, S., Semeraro, S., Gaetano, A. S., Licen, S., Greco, E., De Zorzi, R., ... & Barbieri, P. (2024). Characterization and Optimization of a Novel UV-C LED Aerodynamic Device for Airborne Microbe Viability Abatement. *ACS ES&T Engineering*.	7.4	15

	2	Haghighi, P., & Haghighat, F. (2023). TiO2-based photocatalytic oxidation process for indoor air VOCs removal: A comprehensive review. *Building and Environment*, 111108.	7.1	15
	3	Afriani, F., Tiandho, Y., Hapidin, D. A., Dwivany, F. M., & Khairurrijal, K. (2023). Optical absorption enhancement of TiO2 via plasmonic effect of gold nanoparticles in volatile organic compounds medium. *Computational Materials Science*, *230*, 112462.	3.1	10
	4	Wan, H., Zeng, X., Shi, B., Qian, Q., Tong, Q., Zou, W., ... & Dong, L. (2023). Enhanced photocatalytic toluene oxidation on CN species modified TiO2: Nitrogen doping state and anti-inactivation mechanism. *Applied Catalysis A: General*, *663*, 119306.	4.7	10
	5	He, J., Zhao, Y., Zhou, Y., & Wu, S. (2023). Preparation of High-performance Activated Carbons from Hemicellulose Pre-extracted Residues of Poplar and their Application in VOCs Removal. *BioResources*, *18*(2).	1.3	7.5
	6	Jaison, A., Mohan, A., & Lee, Y. C. (2023). Recent developments in photocatalytic nanotechnology for purifying air polluted with volatile organic compounds: effect of operating parameters and catalyst deactivation. *Catalysts*, *13*(2), 407.	3.8	10
	7	Li, A., Cong, X., Qin, H., Xu, W., Zhang, X., Wang, W., & Guo, F. (2023). Experiments and DFT investigation of microwave-assisted sol–gel method prepared S-doped gC 3 N 4 for enhanced photocatalytic degradation of gaseous toluene. *New Journal of Chemistry*, *47*(8), 3910-3920.	2.7	10
	8	Toh-ae, P., Saramolee, P., Chiarakorn, S., Waraho-Zhmayev, D., & Kamthong, A. (2022). Enhanced photocatalysis of natural rubber foams filters boosted by modified-titanium oxide hybrid fillers: Gaseous benzene removal, antibacterial properties and air permeability. *Express Polymer Letters*, *16*(12), 1229-1252.	2.7	10
	9	Gautam, V., Kumar, A., Nagpal, S., & Jain, V. K. (2022). Ultrasensitive detection of formaldehyde at room temperature using Si-chip assisted MOS/SiNWs nanocomposite based sensor. *Journal of Alloys and Compounds*, *919*, 165840.	5.8	15
	10	Albalwi, H. A., Abou El Fadl, F. I., Abou Taleb, M. F., & Ibrahim, M. M. (2022). Alginate/ZnO beads doped with radiation-induced silver nanoparticles for catalytic degradation of binary mixture of basic and acidic dyes. *Applied Organometallic Chemistry*, *36*(7), e6677.	3..7	10

	11	Li, A., Zhang, Q., Zhao, S., Chong, Y., Wu, P., Li, Y., ... & Ye, D. (2022). A dual plasmonic core—shell Pt/[TiN@ TiO2] catalyst for enhanced photothermal synergistic catalytic activity of VOCs abatement. *Nano Research*, *15*(8), 7071-7080.	9.5	15
	12	Cheng, R., Xia, J., Wen, J., Xu, P., & Zheng, X. (2022). Nano metal-containing photocatalysts for the removal of volatile organic compounds: doping, performance, and mechanisms. *Nanomaterials*, *12*(8), 1335.	4.4	10
	13	Li, C., He, L., Yao, X., & Yao, Z. (2022). Recent advances in the chemical oxidation of gaseous volatile organic compounds (VOCs) in liquid phase. *Chemosphere*, *295*, 133868.	8.1	15
	14	Kim, Y. Y., & Uezu, K. (2021). Functional Microfiber Nonwoven Fabric with Copper Ion-Immobilized Polymer Brush for Detection and Adsorption of Acetone Gas. *Sensors*, *22*(1), 91.	3.4	10
	15	Baran, T., Visibile, A., Busch, M., He, X., Wojtyla, S., Rondinini, S., ... & Vertova, A. (2021). Copper oxide-based photocatalysts and photocathodes: fundamentals and recent advances. *Molecules*, *26*(23), 7271.	4.2	10
	16	Zanrosso, C. D., Miranda, S. M., M. da Costa Filho, B., Espíndola, J. C., Piazza, D., JP Vilar, V., & A. Lansarin, M. (2021). ZnO Polymeric Composite Films for n-Decane Removal from Air Streams in a Continuous Flow NETmix Photoreactor under UVA Light. *Nanomaterials*, *11*(8), 1983.	4.4	10
TOTAL				182.5

Isac, L., Cazan, C., Enesca, A., Andronic, L. Copper Sulfide Based Heterojunctions as Photocatalysts for Dyes Photodegradation. Frontiers in Chemistry, 7, 2019, 694. doi:10.3389/fchem.2019.00694

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	Punctaj
ISI	1	Khan, J. A., Ahamad, S., Ansari, M. A. H., Tauqeer, M., Park, C. H., Park, J. P., ... & Mohammad, A. (2024). State-of-the-art in ZnS-based nanoarchitects for visible-light photocatalytic degradation of antibiotics and organic dyes. *Journal of Water Process Engineering*, *67*, 106151.	6.3	7.50
	2	Ortiz, M., Gómez, E., & Serrà, A. (2024). Recyclable Biomimetic Sunflower Pollen-based Photocatalyst for Enhanced Degradation of Pharmaceuticals. *Small*, 2405204.	13.0	7.50

	3	Kumar, A., Sharma, P., Wang, T., Lai, C. W., Sharma, G., & Dhiman, P. (2024). Recent progresses in improving the photocatalytic potential of Bi4Ti3O12 as emerging material for environmental and energy applications. *Journal of Industrial and Engineering Chemistry*.	5.9	7.50
	4	Yang, K., Yang, Y., Jiang, Y., Ye, B., Li, L., Liu, W., ... & Liu, S. (2024). Controlled synthesis of Bi2S3/g-C3N4 nanosheets for efficient degradation of rhodamine B and reduction of Cr (VI) under visible light. *Surfaces and Interfaces*, *52*, 104885.	5.7	7.50
	5	Nazer, F., Khakpour, Z., Maghsoudipour, A., & Hajati, S. (2024). Synthesis and characterization of black hydrogenated TiO2-rGO nanocomposites with enhanced photocatalytic activity. *International Journal of Hydrogen Energy*, *78*, 148-156.	8.1	7.50
	6	Onwudiwe, D. C., Olatunde, O. C., Nkwe, V. M., Oyewo, O. A., Muliwa, A. M., Ferjani, H., & Yousef, T. A. (2024). Synthesis of pn GCN/CuBi2O4 heterostructures for enhanced visible light photocatalysis. *Inorganic Chemistry Communications*, *162*, 112193.	4.4	5.00
	7	Ma, W. L., Zhang, Y. Q., Li, W. Z., Li, J., & Luan, J. (2024). Fabrication of carbon-based materials derived from a cobalt-based organic framework for enhancing photocatalytic degradation of dyes. *Dalton Transactions*, *53*(9), 4314-4324.	3.5	5.00
ISI	8	Lianmawii, L., Singh, K. B., Singh, N. R., & Singh, N. M. (2024). A review: photocatalytic degradation of dyes by metal sulfide nanoparticles. *Brazilian Journal of Chemical Engineering*, 1-30.	3.1	5.00
	9	Mohapatra, S., Das, H. T., Chandra Tripathy, B., & Das, N. (2024). Exploring the bifunctionality of Co3S4/NiS2/Cu2S heterojunction nanocomposites for hybrid supercapacitors and double Z-scheme-driven dye degradation. *ACS Applied Nano Materials*, *7*(3), 3249-3259.	5.3	7.50
	10	Leal, M. V. G., Gomes, A. S., Tolosa, G. R., Bachmann, C., Dognani, G., Osorio-Román, I., & Job, A. E. (2024). Synthesis of cellulose-copper nanoparticle (cCMF/CuNPs) hybrid material for photodegradation of Congo red dye. *Cellulose*, *31*(2), 1039-1051.	4.9	5.00
	11	Song, Y., Zheng, X., Yang, Y., Liu, Y., Li, J., Wu, D., ... & Tian, X. (2024). Heterojunction Engineering of Multinary Metal Sulfide-Based Photocatalysts for Efficient Photocatalytic Hydrogen Evolution. *Advanced Materials*, *36*(11), 2305835.	27.4	7.50

	12	Dhiman, V., Kaur, M., Prasher, D., Bhardwaj, D., Kumar, K., & Kumar, S. (2023). Rose flower-shaped CuS nanostructures: a study on different properties and photocatalytic performance. *Applied Physics A*, *129*(12), 860.	2.5	5.00
	13	Khan, H., & Shah, M. U. H. (2023). Modification strategies of TiO2 based photocatalysts for enhanced visible light activity and energy storage ability: A review. *Journal of Environmental Chemical Engineering*, 111532.	7.4	7.50
	14	Ait-karra, A., Zakir, O., Mourak, A., Elouakassi, N., Almaggoussi, A., Idouhli, R., ... & Benzakour, J. (2024). Elaboration of CuS nanomaterials via hydrothermal route: Examining physical properties and photocatalytic potential. *Journal of Physics and Chemistry of Solids*, *185*, 111771.	4.3	5.00
	15	Kociołek-Balawejder, E., Gibas, A., Baszczuk, A., Jasiorski, M., & Jacukowicz-Sobala, I. (2023). Transformation of CuO and Cu2O particles into CuxS within the polymeric matrix of anion exchangers, and its structural and morphological implications. *Reactive and Functional Polymers*, *192*, 105734.	4.5	5.00
	16	Emmanuel, S. S., Olawoyin, C. O., Adesibikan, A. A., & Opatola, E. A. (2024). A pragmatic review on bio-polymerized metallic nano-architecture for photocatalytic degradation of recalcitrant dye pollutants. *Journal of Polymers and the Environment*, *32*(1), 1-30.	4.7	5.00
	17	Wang, Y., Liu, Z., Li, Y., Yang, X., Zhao, L., & Peng, J. (2023). Boosting photocatalytic performance of ZnO nanowires via building heterojunction with g-C3N4. *Molecules*, *28*(14), 5563.	4.2	5.00
ISI	18	Kim, S., Seo, B., Park, H., Im, Y., Do, J. Y., Kwak, B. S., ... & Kang, M. (2024). Solar Driven 15.7% Hydrogen Conversion by Harmony of Light Harvesting, Electron Transporting Bridge, and S-Defection in a Self-Assembled Microscale CuS/rGO/CP Photoanode. *Energy & Environmental Materials*, *7*(3), e12631.	13.0	7.50
	19	Menaka, V., Geetha, D., & Ramesh, P. S. (2023). A One–Pot Hydrothermal Synthesis of rGO-Mediated CuS/MnS Nanocomposites: Energy Storage and Dye Removal Applications. *ECS Journal of Solid State Science and Technology*, *12*(5), 051006.	1.8	3.75
	20	Ramzan, M., Javed, M., Iqbal, S., Alhujaily, A., Mahmood, Q., Aroosh, K., ... & Elkaeed, E. B. (2023). Designing highly active Sg-C3N4/Te@ NiS ternary nanocomposites for antimicrobial performance, degradation of organic pollutants, and their kinetic study. *Inorganics*, *11*(4), 156.	3.1	5.00

	21	Shakil, M., Inayat, U., Ashraf, M., Tanveer, M., Gillani, S. S. A., & Dahshan, A. (2023). Photocatalytic performance of novel zinc ferrite/copper sulfide composites for the degradation of Rhodamine B dye from wastewater using visible spectrum. *Optik*, *272*, 170353.	3.1	5.00
	22	Xiao, L., Liu, Z., & Feng, W. (2023). Self-powered photodetector with fast response based on Sb2Se3/Cu2S/Si heterojunction. *Optical Materials*, *137*, 113512.	3.8	5.00
	23	Liang, X., Xue, S., Wu, W., Feng, Q., Zheng, X., Zhang, Y., ... & Li, Z. (2023). A novel biomolecule-assisted synthesis of CuS-anchored 3DOM-TiO2 for stable and enhanced photocatalysis activity. *Journal of Materials Science: Materials in Electronics*, *34*(1), 17.	2.8	5.00
	24	Mubarokah, Z. R., Mahmed, N., Norizan, M. N., Mohamad, I. S., Abdullah, M. M. A. B., Błoch, K., ... & Vizureanu, P. (2023). Near-infrared (NIR) silver sulfide (Ag2S) semiconductor photocatalyst film for degradation of methylene blue solution. *Materials*, *16*(1), 437.	3.1	5.00
	25	Liu, Q., Peng, Y., Masood, Z., DuBois, D., Tressel, J., Nichols, F., ... & Chen, S. (2023). Stable Cuprous Hydroxide Nanostructures by Organic Ligand Functionalization. *Advanced Materials*, *35*(8), 2208665.	27.4	7.50
	26	Isac, L., & Enesca, A. (2022). Recent developments in ZnS-based nanostructures photocatalysts for wastewater treatment. *International Journal of Molecular Sciences*, *23*(24), 15668.	4.9	5.00
	27	Balji, G. B., Surya, A., Govindaraj, P., & Ponsakthi, G. M. (2022). Utilization of fly ash for the effective removal of hazardous dyes from textile effluent. *Inorganic Chemistry Communications*, *143*, 109708.	4.4	5.00
ISI	28	Kutwade, V. V., Gattu, K. P., Sonawane, M. E., Khan, F., Tonpe, D. A., Balal, M., ... & Sharma, R. (2022). Growth and exploration of visible-light-driven enhanced photocatalytic activity of Cu1−X Cr x S/CdS heterojunction thin film for active dye degradation. *Applied Physics A*, *128*(7), 625.	2.5	5.00
	29	Borah, D., Saikia, P., Sarmah, P., Gogoi, D., Rout, J., Ghosh, N. N., & Bhattacharjee, C. R. (2022). Composition controllable alga-mediated green synthesis of covellite CuS nanostructure: An efficient photocatalyst for degradation of toxic dye. *Inorganic Chemistry Communications*, *142*, 109608.	4.4	5.00
	30	Ma, L., Ai, X., Jiang, W., Liu, P., Chen, Y., Lu, K., ... & Wu, X. (2022). Zn/Ce metal-organic framework-derived ZnO@ CeO2 nano-heterojunction for enhanced photocatalytic activity. *Colloid and Interface Science Communications*, *49*, 100636.	4.7	5.00

	31	Kusworo, T. D., Kumoro, A. C., & Utomo, D. P. (2022). Photocatalytic nanohybrid membranes for highly efficient wastewater treatment: A comprehensive review. *Journal of environmental management*, *317*, 115357.	8.0	7.50
	32	Baláž, M., Augustyniak, A., Tatykayev, B., Shalabayev, Z., Burashev, G., Dutková, E., ... & Baláž, P. (2023). Mechanochemical synthesis of non-stoichiometric copper sulfide Cu 1.8 S applicable as a photocatalyst and antibacterial agent and synthesis scalability verification. *Faraday Discussions*, *241*, 367-386.	3.3	5.00
	33	Roy, D., Poddar, N., Singh, M., Neogi, S., & De, S. (2022). Photocatalytic degradation of rhodamine-B by visible light assisted peroxymonosulfate activation using the Z-scheme MIL-100 (Fe)/Bi 2 S 3 composite: a combined experimental and theoretical approach. *New Journal of Chemistry*, *46*(22), 10728-10745.	2.7	5.00
	34	Toprak, D., Demir, Ö., & Uçar, D. (2022). Extracellular azo dye oxidation: Reduction of azo dye in batch reactors with biogenic sulfide. *Phosphorus, Sulfur, and Silicon and the Related Elements*, *197*(9), 927-933.	1.4	3.75
	35	Zhang, T., Yang, T., Huang, S., Pu, Y., Wei, S., & Gao, W. (2022). Co-deposition of Ag and Co 3 O 4 on black TiO 2-x nanotubes with enhanced photocatalytic activity under visible light irradiation. *Journal of Materials Science*, 1-12.	3.5	5.00
	36	Gul, M. M., & Ahmad, K. S. (2022). Review elucidating graphene derivatives (GO/rGO) supported metal sulfides based hybrid nanocomposites for efficient photocatalytic dye degradation. *Reviews in Inorganic Chemistry*, *42*(4), 337-354.	4.1	5.00
	37	Koli, P. B., Shinde, S. G., Kapadnis, K. H., Patil, A. P., Shinde, M. P., Khairnar, S. D., ... & Ingale, R. S. (2021). Transition metal incorporated, modified bismuth oxide (Bi2O3) nano photo catalyst for deterioration of rosaniline hydrochloride dye as resource for environmental rehabilitation. *Journal of the Indian Chemical Society*, *98*(11), 100225.	3.2	5.00
ISI	38	Mohammadi, N., Allahresani, A., & Naghizadeh, A. (2022). Enhanced photo-catalytic degradation of natural organic matters (NOMs) with a novel fibrous silica-copper sulfide nanocomposite (KCC1-CuS). *Journal of Molecular Structure*, *1249*, 131624.	4.0	5.00
	39	Adochite, C., & Andronic, L. (2021). Toxicity of a binary mixture of TiO2 and imidacloprid applied to Chlorella vulgaris. *International Journal of Environmental Research and Public Health*, *18*(15), 7785.	4.6	5.00
	40	Koutavarapu, R., Tamtam, M. R., Lee, S. G., Rao, M. C., Lee, D. Y., & Shim, J. (2021). Synthesis of 2D NiFe2O4 nanoplates/2D Bi2WO6 nanoflakes heterostructure: an enhanced Z-scheme charge transfer and separation for	7.4	7.50

		visible-light-driven photocatalytic degradation of toxic pollutants. *Journal of Environmental Chemical Engineering*, *9*(5), 105893.		
	41	Degefu, D. M., & Liao, Z. (2021). Photocatalytic degradation of volatile organic compounds using nanocomposite of P-type and N-type transition metal semiconductors. *Journal of Sol-Gel Science and Technology*, *98*, 605-614.	2.3	5.00
	42	Kumari, V., Sharma, S., Sharma, A., Kumari, K., & Kumar, N. (2021). Hydrothermal synthesis conditions effect on hierarchical ZnO/CuO hybrid materials and their photocatalytic activity. *Journal of Materials Science: Materials in Electronics*, *32*, 9596-9610.	2.8	5.00
	43	Zulys, A., Adawiah, A., Gunlazuardi, J., & Yudhi, M. D. L. (2021). Light-harvesting metal-organic frameworks (MOFs) La-PTC for photocatalytic dyes degradation. *Bulletin of Chemical Reaction Engineering & Catalysis*, *16*(1), 170-178.	1.3	3.75
	44	Olatunde, O. C., & Onwudiwe, D. C. (2021). Graphene-based composites as catalysts for the degradation of pharmaceuticals. *International Journal of Environmental Research and Public Health*, *18*(4), 1529.	4.6	5.00
	45	Ray, S. K., & Hur, J. (2021). A critical review on modulation of NiMoO4-based materials for photocatalytic applications. *Journal of Environmental Management*, *278*, 111562.	8.0	7.50
	46	Hui, K. C., Suhaimi, H., & Sambudi, N. S. (2022). Electrospun-based TiO2 nanofibers for organic pollutant photodegradation: a comprehensive review. *Reviews in Chemical Engineering*, *38*(6), 641-668.	4.9	5.00
ISI	47	Celebi, N., Aydin, M. Y., Soysal, F., Yıldız, N., & Salimi, K. (2020). Core/shell PDA@ UiO-66 metal–organic framework nanoparticles for efficient visible-light photodegradation of organic dyes. *ACS Applied Nano Materials*, *3*(11), 11543-11554.	5.3	7.50
	48	Enesca, A. (2020). Enhancing the photocatalytic activity of SnO2-TiO2 and ZnO-TiO2 tandem structures toward indoor air decontamination. *Frontiers in Chemistry*, *8*, 583270.	3.8	5.00
	49	Andronic, L., & Enesca, A. (2020). Black TiO2 synthesis by chemical reduction methods for photocatalysis applications. *Frontiers in chemistry*, *8*, 565489.	3.8	5.00
	50	Li, Y., Liao, C., & Tjong, S. C. (2020). Recent advances in zinc oxide nanostructures with antimicrobial activities. *International Journal of Molecular Sciences*, *21*(22), 8836.	4.9	5.00

	51	Khan, I., Saeed, K., Ali, N., Khan, I., Zhang, B., & Sadiq, M. (2020). Heterogeneous photodegradation of industrial dyes: An insight to different mechanisms and rate affecting parameters. *Journal of environmental chemical engineering*, *8*(5), 104364.	7.4	7.50
	52	Darwish, A. S., Sayed, M. A., & Shebl, A. (2020). Cuttlefish bone stabilized Ag3VO4 nanocomposite and its Y2O3-decorated form: Waste-to-value development of efficiently ecofriendly visible-light-photoactive and biocidal agents for dyeing, bacterial and larvae depollution of Egypt's wastewater. *Journal of Photochemistry and Photobiology A: Chemistry*, *401*, 112749.	4.1	5.00
	53	Rahimi, S. M., Arghavan, F. S., Othmani, A., & Nasseh, N. (2022). Magnetically recoverable nickel ferrite coated with CuS nanocomposite for degradation of metronidazole in photocatalytic and photo fenton like processes. *International Journal of Environmental Analytical Chemistry*, *102*(18), 6699-6719.	2.3	5.00
	54	Shahi, S., Saeednia, S., Iranmanesh, P., & Hatefi Ardakani, M. (2021). Influence of synthesis parameters on the optical and photocatalytic properties of solvo/hydrothermal CuS and ZnS nanoparticles. *Luminescence*, *36*(1), 180-191.	3.2	5.00
	55	Muhyuddin, M., Khan, T. F., Akram, M. A., Ali, I., Park, T. J., & Basit, M. A. (2020). Significantly improved photo-and electro-chemical performance of CuS. PbS nanocomposites for dye degradation and paintable counter electrodes. *Journal of Photochemistry and Photobiology A: Chemistry*, *400*, 112720.	4.1	5.00
	56	Aghajani, Z., & Hosseinpour-Mashkani, S. M. (2020). Design novel Ce (MoO 4) 2@ TiO 2 n–n heterostructures: Enhancement photodegradation of toxic dyes. *Journal of Materials Science: Materials in Electronics*, *31*, 6593-6606.	2.8	5.00
ISI	57	Agoro, M. A., Meyer, E. L., Mbese, J. Z., & Manu, K. (2020). Electrochemical fingerprint of CuS-hexagonal chemistry from (bis (N-1, 4-Phenyl-N-(4-morpholinedithiocarbamato) copper (II) complexes) as photon absorber in quantum-dot/dye-sensitised solar cells. *Catalysts*, *10*(3), 300.	3.8	5.00
	58	Wang, Y., Jiang, F., Chen, J., Sun, X., Xian, T., & Yang, H. (2020). In situ construction of CNT/CuS hybrids and their application in photodegradation for removing organic dyes. *Nanomaterials*, *10*(1), 178.	4.4	5.00
TOTAL				**323.75**

Ienei, E., Isac, L., **Cazan, C.,** Duta, A., Characterization of Al/Al2O3/NiOx solar absorber obtained by spray pyrolysis, Solid State Science, 12(11), 2010, 1894–1897. doi:10.1016/j.solidstatesciences.2010.05.028				
Revista	**Nr. Crt.**	**Articolul care citează**	**FI**	**Punctaj**
ISI	1	Amri, Amun; Duan, XiaoFei; Yin, Chun-Yang; et al., Solar absorptance of copper-cobalt oxide thin film coatings with nano-size, grain-like morphology: Optimization and synchrotron radiation XPS studies, Applied Surface Science, 275 (2013) 127-135; FI = 6.3	6.3	7.50
	2	Khatibani, A.B., Rozati, S. M., Synthesis and characterization of amorphous aluminum oxide thin films prepared by spray pyrolysis: Effects of substrate temperature, Journal of Non-Crystalline Solids, 363 (2013) 121-133	3.2	5.00
	3	Journal of Vacuum Science and Technology, 32 (2011) 943-950	1.34	3.75
TOTAL				**16.25**
			TOTAL	

Andronic, L. Enesca, A., **Vladuta, C.,** Duta, A., Photocatalytic activity of cadmium doped TiO_2 films for photocatalytic degradation of dyes, Chemical Engineering Journal 152 (2009) 64-71(23 citari in reviste ISI și 1 citare în reviste BDI)				
Revista	Nr. Crt.	**Articolul care citează**	FI	Punctaj
	1	Ducman, Vilma; Petrovic, Vladimira; Skapin, Sreco D.. Photo-catalytic efficiency of laboratory made and commercially available ceramic building products, Ceramics International, 39 (2013) 2981-2987	4.52	5.00
	2	Karunakaran, C., Vijayabalan, A., Manikandan, G., Photocatalytic bacteria inactivation by polyethylene glycol-assisted sol-gel synthesized Cd-doped TiO2 under visible light, Research On Chemical Intermediates, 39 (2013) 1437-1446	2.8	5.00
	3	Makarewicz, E., Cysewski, P.,Michalik, A., et al., Properties of acid or alkali treated cadmium pigments, Dyes And Pigments, 96 (2013) 338-348	4.1	5.00
	4	Carcel, R.A,. Andronic, L., Duta, A., Photocatalytic activity and stability of TiO2 and WO3 thin films, Materials Characterization, 70 (2012) 68-73	4.8	5.00
ISI	5	Anju, S. G.; Yesodharan, S., Yesodharan, E. P., Zinc oxide mediated sonophotocatalytic degradation of phenol in water, Chemical Engineering Journal, 189 (2012) 84-93	13.3	7.50

	6	Akpan, U.G., Hameed, B.H., Photocatalytic degradation of wastewater containing acid red 1 dye by titanium dioxide: Effect of calcination temperature, Desalination and Water Treatment 43 (2012) 84-90	1.00	2.50
	7	Lee, D.M., Yun, H.J., Yu, S., Yun, S.J., Lee, S.Y., Kang, S.H., Yi, J., Design of an efficient photocatalytic reactor for the decomposition of gaseous organic contaminants in air, Chemical Engineering Journal 187 (2012) 203-209	13.3	7.50
	8	S. Saha, J.M. Wang, Anjali Pal, Nano Silver Impregnation on Commercial TiO2 and a Comparative Photocatalytic Account to Degrade Malachite Green, Separation and Purification Technology 89 (2012) 147-159	8.1	7.50
	9	Petrovic, V., Ducman V., Skapin S.D., Determination of the photocatalytic efficiency of TiO_2 coatings on ceramic tiles by monitoring the photodegradation of organic dyes, Ceramics International 38 (2012) 1611-1616.	4.52	5.00
	10	Andronic, L., Duta, A., The influence of precursor's composition and concentration on cadmium doped TiO2 film, Central European Journal Of Chemistry, 10 (2012) 85-90	1.20	3.75
	11	Ahmed, Saber, Impact of Operating Conditions and Recent Developments in Heterogeneous Photocatalytic Water Purification Process, Critical Reviews in Environmental Science and Technology, 42 (2012) 601-675.	11.4	7.50
	12	Gao H., Lu B., Liu F., Liu Y., Zhao X., Photocatalytical Properties and Theoretical Analysis of N, Cd-Codoped TiO2 Synthesized by Thermal Decomposition Method, *International Journal Of Photoenergy* (2012) Article Number: 453018	2.1	3.75
	13	Carcel, R.A,. Andronic, L., Duta, A., Photocatalytic Degradation of Methylorange Using TiO2, WO3 and Mixed Thin Films Under Controlled pH and H2O2, Journal of Nanoscience and Nanotechnology, 11 (2011) 9095-9101	1.354	3.75
	14	Rauf M. A.; Meetani M. A.; Hisaindee S., An overview on the photocatalytic degradation of azo dyes in the presence of TiO_2 doped with selective transition metals, Desalination 276 (2011) 13-27.	8.3	7.50
	15	Motoc, Adrian Mihail; Piticescu, Radu Robert; Carcel, Radu Adrian; et al., Hydrothermal Synthesized TiO2 based Nanopowders for Photocatalytic Applications, Environmental Engineering and Management Journal, 10 (2011) 1299-1303	0.9	2.50
	16	Chirila, Elisabeta; Dobrinas, Simona; Paunescu, Elena; et al., Determination of aromatic volatile compounds in petrochemical wastewater, Environmental Engineering and Management Journal, 10 (2011) 1081-1085	0.9	2.50
	17	Dudita Mihaela; Bogatu Cristina; Enesca Alexandru; Duta ANCA, The influence of the additives composition and concentration on the properties of SnO_x thin films used in photocatalysis, Materials Letters 65 (2011) 2185-218.	2.7	5.00

	18	Karunakaran C.; Vijayabalan A.; Manikandan G.; et al., Visible light photocatalytic disinfection of bacteria by Cd-TiO(2) Source: *Catalysis Communications* 12 (2011) 826-829.	2.9	5.00
	19	Long R.; English N. J., Tailoring the electronic structure of TiO(2) by cation codoping from hybrid density functional theory calculations, *Physical Review B* 83 (2011) Article Number: 155209.	3.2	5.00
	20	Long R., English N. J., Band gap engineering of double-cation-impurity-doped anatase-titania for visible-light photocatalysts: a hybrid density functional theory approach, *Physical Chemistry Chemical Physics* 13 (2011) 13698-13703.	2.9	5.00
	21	Molea A.; Popescu V., The obtaining of titanium dioxide nanocrystalline powders, *Optoelectronics And Advanced Materials-Rapid Communications* 5 (2011) 242-246.	0.55	1.25
	22	Enesca Alexandru; Bogatu Cristina; Voinea Mihaela; Duta Anca, Opto-electronic properties of SnO_2 layers obtained by SPD and ECD techniques, *Thin Solis Films* 519 (2010) 563-567	2.0	3.75
	23	Chirila Elisabeta; Dobrinas Simona; Paunescu Elena; Stanciu G., Draghici C., Determination of aromatic volatile compounds in petrochemical wastewater , *Environmental Engineering and Management Journal* 10 (2011) 1081-1085	0.9	2.50
BDI	24	Ciobanu I., Lazar A. M. Chaumont D., Veteleanu A., Sacelloti M., Researches about the photocatalitic effect of TiO_2 nanostructures synthetized on silicon substrate and co microparticles, *Metalurgia International* 16 (2011) 26-30	-	0.75
			TOTAL	109.5

Vladuta, C.,Voinea, M., Purghel, E., Duta, A., Correlations between the structure and the morphology of PET- rubber nanocomposites with different additives, Materials Science and Engineering B, 165-3 (2009), pp.221-226

REVISTA	NR. CRT.	ARTICOLUL CARE CITEAZA	FI	punctaj
ISI	1	Rodriguez, Francisco, J., Galotto, M.J., Abel; et al., Modification of cellulose acetate films using nanofillers based on organoclays, Guarda, Journal of Food Engineering, 110 (2012) 262-268	5.3	7.50
	2	Rezaeian, I.; Zahedi, P., Rezaeian, A., Rubber Adhesion to Different Substrates and Its Importance in Industrial Applications: A Review, Journal of Adhesion Science and Technology, 26 (2012) 721-744.	2.7	5.00

	3	Aradoaei, S.; Darie, R.; Constantinescu, G.; et al., Modified lignin effectiveness as compatibilizer for PET/LDPE blends containing secondary materials, JOURNAL OF NON-CRYSTALLINE SOLIDS, 356 (2010) 768-771	3.2	5.00
			TOTAL	17.50

Vladuta, C., Andronic, L., Visa, M., Duta, A., Ceramic interface properties evaluation based on contact angle measurement, Surface & Coatings Technology 202 (2008) 2448–2452

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	punctaj
ISI	1	Widiyastuti W.; Hidayat Darmawan; Purwanto A.; Iskandar F., Okuyama K., Particle dynamics simulation of nanoparticle formation in a flame reactor using a polydispersed submicron-sized solid precursor, Chemical Engineering Journal 158 (2010) 362-367	13.3	7.5
	2	Andronic, L., Perniu, D., Duta, A., Synergistic effect between TiO2 sol-gel and Degussa P25 in dye photodegradation, Journal of Sol-Gel Science and Technology, 66 (2013) 472-480	2.6	5.00
	3	Houweling, Z. Silvester; Geus, John W.; de Jong, Michiel; et al., Growth process conditions of tungsten oxide thin films using hot-wire chemical vapor deposition, Materials Chemistry and Physics, 131 (2011) 375-386.	4.3	5.00
	4	Ting H. T.; Abou-El-Hossein K. A.; Chua H. B., Review of micromachining of ceramics by etching, Transactions of Nonferrous Metals Society of China 19 (2009) S1-S16	4.7	5.00
			TOTAL	22.50

Voinea, M., Vladuta, C.,Bogatu, C., Duta, A., Surface properties of copper based cermet materials, Materials Science and Engineering: B 152 (2008),pp.76-80 (4 citari in reviste ISI)

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	FI	Punctaj
ISI	1	Dudita, M., Isac, L., Duta, A., Influence of solvents on properties of solar selective coatings obtained by spray pyrolysis, Bulletin of Materials Science, 35 (2012) 997-1002	1.8	2.5
	2	Bertus, L. M.; Duta, A., Synthesis of WO3 thin films by surfactant mediated spray pyrolysis, Ceramics International, 38 (2012) 2873-2882	4.52	5.00
			TOTAL	7.5

TOTAL CRITERIUL 3.1	1732.54

3.3 Membru in colectivele de redacție sau comitete științifice al revistelor si manifestărilor științifice, organizator de manifestări științifice / Recenzor pentru reviste si manifestări științifice naționale si internaționale indexate ISI

		Calcul	Punctaj
3.3.1. ISI	Polymer Waste Recycling and Management, 2020-2021, Polymers Journal (FI = 4.7; Q1). Editor: Cazan Cristina	Editor - 12	12
	Advances in Sustainable Polymeric Materials, 2021-2022 Polymers Journal (FI = 4.7; Q1). Editor: Cazan Cristina		
	Eco-Sustainable Development and Circular Economy, 2021-2022, Sustainability (FI = 3.9; Q2). Editor: Cazan Cristina, Shauhrat S. Chopra		
	Polymer Waste Recycling and Management II, Polymers Journal (FI = 4.7; Q1). Editor: Cazan Cristina, Cosnita Mihaela		
	Sustainable Advanced Composite Materials for the Built Environment. Materials Journal, (FI = 3.5; Q2) Editor: Cazan Cristina		
	Chemical Engineering Journal, Materials Science and Engineering B, Materials Letter, Materials Chemistry and Physics, Journal of Mechanical Engineering Research, Journal of Nanoscience and Nanotechnology, Polymers, Materials, etc	Recenzor - 5	**5**
TOTAL CRITERIUL 3.3			17

3.4 Expert evaluare proiecte de cercetare		Calcul punctaj	Punctaj
3.4.1 Internaționale	Evaluator de proiecte internaționale: National Science Center, Poland	10* nr.contracte de evaluare	**10**
TOTAL CRITERIUL 3.4			10
TOTAL CRITERIUL A3			1759.54

Data

conf. dr. Cristina CAZAN

19.12.2024