

Facultatea: *Design de Produs si Mediu*, Departament: *Design de Produs, Mecatronica si Mediu*
 Centrul de Cercetare: *Sisteme de Energii Regenerabile si Reciclare*
 ICDDT Universitatea Transilvania din Brasov

Fișă de îndeplinire a standardelor minime pentru ocuparea postului de cercetător științific II (CS II)
CNATDCU
Domeniul: Ingineria Materialelor

A1. Activitatea didactică și profesională (fara restrictie pentru CS II)

Tip activitate		Subcategorii	Indicatori	Punctaj indeplinit
1.1 Carti si capitole in carti de specialitate				
1.1.1 Carti/capitole ca autor	Cosnita M. , Cazan C., Duta A., Visa I. (2017) <i>Recycling Silicon-PV Modules in Composites with PVC, HDPE and Rubber Wastes</i> . In: Visa I., Duta A. (eds) <i>Nearly Zero Energy Communities</i> . Springer Proceedings in Energy. Springer, Cham. (20 pag.)	Internationale	Nr pagini/ 2x nr. autori	2.50
	Cazan C., Cosnita M. , Visa M., Duta A. (2014) <i>Novel Rubber—Plastics Composites Fully Based on Recycled Materials</i> . In: Visa I. (eds) <i>Sustainable Energy in the Built</i>			2.13

Tip activitate		Subcategorii	Indicatori	Punctaj indeplinit
	Environment - Steps Towards nZEB. Springer Proceedings in Energy. Springer, Cham (17 pag)			
	Vişa, M. Comsit, A. Duţă, M. Neagoe, M. Moldovan, B. Burduhos, D. Perniu, Al. Enesca, L. Isac, Cosnita M. , I. Totu, A. Savvides, C. Vassiliades. <i>Novel Solar-Thermal Collectors/Array with Increased Architectural Acceptance for Building Integration</i> . COST Action TU1205 BISTS – Design and Applications Handbook ISBN: 978-9963-697-22-9 Publication date: March 2017 (18 pag)			0.69
TOTAL CRITERIUL A1				5.32

A2. Activitate de cercetare (minim 190 puncte pentru CS II)

Nr. crt.	Tip activitate	Categorii si restrictii	Articole publicate	Indicator	Tip jurnal	FI 2019	Punctaj
1.	A2.1 Articole in reviste cotate ISI Thomson Reuters – Web of Science Core Collection (FI) si in volume indexate ISI proceedings	Minim 10 articole pentru 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 minim FI = 0.5	Cosnita M. , Cristina Cazan, Anca Duta. 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, Vol. 165, 1 Nov. 2017, pg. 630-636 https://doi.org/10.1016/j.jclepro.2017.07.103	50*X/ Nr autori (pentru reviste X= FI al revistei; pentru articole in volume X = 0,1)	ISI	6.39	106.5
2			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, first published April 2016, vol 51 (3) 357-372 https://doi.org/10.1177/0021998316645850		ISI	1.75	29.16
3			Cosnita, M. , Cazan, C., Duta, A., Interfaces and mechanical properties of recycled rubber–polyethylene terephthalate–wood composites, Journal of Composite Materials, 48 (6), (2013), pp.683-694 https://doi.org/10.1177/0021998313476561		ISI	1.75	29.16
4			Cosnita, M. , Cazan, C., Duta, A., Product development using composite from recycled wood, plastics and rubber, 1 st first Conference on Quality and innovation and engineering and management (QIEM), QIEM Proceedings (2011), pp. 253-256.		ISI Proceedings	-	1.66
5			Cazan, C., Perniu, D., Cosnita, M. , Duta, Polymeric Wastes From Automotives As Second Raw Materials For Large Scale Products, A., Environmental Engineering And Management Journal, 12(8) (2013), pp. 1649-1655.		ISI	1.18	14.75
6			Cristina Bogatu, Dana Perniu, Ciprian Sau, Ovidiu Iorga, Cosnita M. , Anca Duta, Ultrasound assisted sol-gel TiO ₂ powders and thin films for photocatalytic removal of toxic pollutants, Ceramics International, Vol 43, Nr. 11, pg. 7963-69, published 1 Aug. 2017		ISI	3.45	28.75

Nr. crt.	Tip activitate	Categorii si restrictii	Articole publicate	Indicator	Tip jurnal	FI 2019	Punctaj
			https://doi.org/10.1016/j.ceramint.2017.03.054				
7			Ghiuta, I.; Gatto, A.; Bassoli, E.; Bedo, T.; Pop, MA; Gabor, C.; Covei, M.; Cosnita, M. ; Cristea, D.; Varga, B.; Munteanu, D. The Influence of Powder Particle and Grain Size on Parts Manufacturing by Powder Bed Fusion. Conference: 10th International Conference on Processing and Manufacturing of Advanced Materials Processing, Fabrication, Properties, Applications. Materials Science Forum Volum: 941 (2018) Pages: 1585-1590		ISI	0.39	1.77
8			Pop, MA, Croitoru, C, Bedó, T, Geamăn V, Radomir I, Coșnită M. , Zaharia SM, Chicos LA, Miloșan I. Structural changes during 3D printing of bioderived and synthetic thermoplastic materials. <i>J. Appl. Polym. Sci.</i> , (2019) 136, 47382. doi: https://doi.org/10.1002/app.47382		ISI	2.18	12.11
9			C. Cazan, Cosnita M. , A. Duță, Effect of PET functionalization in composites of rubber-PET-HDPE type, Arabian Journal of Chemistry, (2017) 10, pp 300-312 https://doi.org/10.1016/j.arabjc.2015.10.005		ISI	3.29	54.83
10			Cosnita M. , Cazan C, Manciulea I. <i>All-Waste Hybrid Composites with Waste Silicon Photovoltaic Module</i> . <i>Polymers</i> 2020, 12(1), 53 https://doi.org/10.3390/polym12010053	50*X/ Nr autori (pentru reviste X= FI al revistei; pentru articole in volume X	ISI	3.16	52.66
11			Fazakas E, Varga B, Geantă V, Berecz T, Jenei P, Voiculescu I, Cosnita M. , Ștefănoiu R. <i>Microstructure, Thermal, and Corrosion Behavior of the AlAgCuNiSnTi Equiatomic Multicomponent Alloy</i> . <i>Materials</i> (Basel). 2019 Mar 20;12(6):926. doi: 10.3390/ma12060926. PMID: 30897766; PMCID: PMC6471484 https://doi.org/10.3390/ma12060926		ISI	2.97	18.56
12			Bedo, T., Varga, B., Cristea, D., Nitoi, A., Gatto, A., Bassoli, E., Bulai, G., Velicu, I.L., Ghiuta, I., Munteanu, S., Pop, A.M., Gabor, C., Cosnita,		ISI	2.26	7.53

Nr. crt.	Tip activitate	Categorii si restrictii	Articole publicate	Indicator	Tip jurnal	FI 2019	Punctaj
			M., Pârv, L., Munteanu, D. (2019). <i>Metastable Al-Si-Ni alloys for additive manufacturing: structural stability and energy release during heating</i> . Metals 9(5):483. https://doi.org/10.3390/ma12060926	= 0,1)			
13			Cazan C, Cosnita M (autor de corespondență), Isac L. <i>The influence of temperature on the performance of rubber - PET-HDPE waste based composites with different inorganic fillers</i> . Journal of Cleaner Production. Volume 208, 20 January 2019, Pages 1030-1040. https://doi.org/10.1016/j.jclepro.2018.10.045		ISI	6.39	106.5
14			Croitoru, C.; Pop, M.A.; Bedo, T.; Coșnită, M.; Roată, I.C.; Hulka, I. Physically Crosslinked Poly (Vinyl Alcohol)/Kappa-Carrageenan Hydrogels: Structure and Applications. <i>Polymers</i> 2020, 12, 560		ISI	3.16	26.33
15	A2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte Baze de Date Internationale (BDI)		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	Revista 50 x 0.08/ nr. autori	BDI	-	1.33
16			E.L. Tiron, Cosnita M., S.C. Matei, A. Crisan, The effect on some controlling factors of quality of hot-dip galvanized coatings. Bulletin of the Transilvania University of Braşov Vol. 10 (59) No. 1 - 2017 Series I: Engineering Sciences http://rs.unitbv.ro/Bulletin/Series%20I/2017/BULETIN%20I/Tiron_E.L.pdf				1.00
17			M. Stoicănescu, E. Buzamet, D.V. Budei, V. Craciun, R. Budei, Cosnita M., A. Crisan. Possible causes in breaking of dental implants research. Materials Science Forum, Vol. 907, pp. 104-118, 2017 https://doi.org/10.4028/www.scientific.net/MSF.907.104				0.57
Numar articole indeplinite 17, din care 14 ISI, din care 5 - prim autor (1.6 > FI >5.6) si 3 articole BDI							493.17
TOTAL CRITERIUL A. 2. 1 + A. 2. 2							

A2.3 Brevete de inventie acordate neindexate/indexate ISI Thomson Reuters-Web of Science-Derwent Innovation Index

Nr. Crt.	Brevete de inventie acordate neindexate/indexate ISI Thomson Reuters-Web of Science-Derwent Innovation Index	Subcategorii	Indicator	Punctaj
1	Duta A., Moldovan M., Bogatu C., Covei M., Visa I., Perniu D., Neagoie M., Cosnita M. Thin film photoreactor or advanced wastewater treatment using photocatalysis and adsorption, patent proposal submitted to OSIM, no. A 2018 00376/29.05.2018.	2.3.2 național	15/25/nr autori	0.08
TOTAL CRITERIUL A.2.3				0.08

A2.4 Granturi/proiecte câștigate prin competiție

2.4.1 Director/Responsabil - minim 1 cu buget de min, 10.000 euro - CS II (national - 5 x ani desaturare)

Nr. Crt.	Proiect national	Poziție	Perioada	Nr. Ani	Punctaj
1	PN-III-P1-1.1- PD-2016-0286. Novel all wastes composites PV based for indoor or outdoor applications, buget – 55.555 euro	director	2018-2020	2	10
TOTAL CRITERIUL 2.4.1					10

A 2.4.2 Membru în echipa

Nr. Crt.	Grant national/international	Proiecte național/internationale	Indicator	Poziție	Perioada	Nr. ani	Punctaj
1	National	Complex high surface area photoactive nano-materials for environmentally-friendly energy production and organic pollutants degradation	National:	membru	2012-2016	4	8

Nr. Crt.	Grant national/ international	Proiecte național/internationale	Indicator	Poziție	Perioada	Nr. ani	Punctaj
		(NANOVISMAT), ctr. 162/2012	2 x nr. ani desfășurare				
2		Creșterea competitivității SC ELDON SRL prin optimizarea tehnologiei de fabricație a dulapurilor industriale de podea 102/ BG			2016-2018	2	4
3		Îmbunatătirea performanțelor funcționale ale dulapurilor Multiflex, ctr. 162/			2016	1	2
4		PN III-PED-58 SOL-TRI-COL			2016	1	2
5		CB PhotoDeg, ctr. 282/2014			2015-2017	3	6
6		PNII Partenriate EST IN URBA, ctr. Nr. 28/2012			2012-2016	4	8
7		PNII ctr. Nr. 162/2012, Nanovismat			2012-2016	4	8
8		IDEI 753- Obținerea caracterizarea, modelarea și optimizarea filmelor nano și mezo-structurate de fotocatalizatori pe bază de SnO ₂ cu morfologie controlată			2011	1	2
9		IDEI 840- Modelarea conducției electrice în absorber și în interfața absorber/strat tampon pentru creșterea eficienței celulelor PV în stare solidă			2011	1	2
10	International	H2020 proiect 656760-BioEnergyTrain	4 x nr. ani desfasurare	membru	2016-2019	3	12
11							
TOTAL CRITERIUL A.2.4.2							54
TOTAL CRITERIUL A2							557.25

A3. RECUNOAȘTEREA ȘI IMPACTUL ACTIVITĂȚII (minim 60 puncte pentru CS II)

A3.1 Citări în reviste ISI și BDI – **minim 15 citari in ISI Thomson, Core Collection si Scopus**

Indicator pentru citari ISI - 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 $FI > 5$. **Indicator pentru citari BDI**- 3/ nr. autori.

Cosnita M., Cristina Cazan, Anca Duta. 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, Vol. 165, 1 Nov. 2017, pg. 630-636				
Revista	Nr. Crt.	Articolul care citează	FI	Punctaj
ISI	1	Xu, Xinwu; Wang, Huixiang; Sun, Yan; et al. Sound absorbing properties of perforated composite panels of recycled rubber, fiberboard sawdust, and high density polyethylene. Journal o Cleaner Production, 187 (2018) 215-221 https://doi.org/10.1016/j.jclepro.2018.03.174	6.39	6
	2	Zhou, Yonghui; Wang, Yuxuan; Fan, Mizi. Incorporation of tyre rubber into wood plastic composites to develop novel multifunctional composites: Interface and bonding mechanisms . INDUSTRIAL CROPS AND PRODUCTS, (141), Published: DEC 1 2019. https://doi.org/10.1016/j.indcrop.2019.111788	4.19	6.66
	3	Sustaita-Rodriguez, Jose M.; Medellin-Rodriguez, Francisco J.; Olvera-Mendez, Diana C.; et al. Thermal Stability and Early Degradation Mechanisms of High-Density Polyethylene, Polyamide 6 (Nylon 6), and Polyethylene Terephthalate. POLYMER ENGINEERING AND SCIENCE , 2019, (59) 10, Pages: 2016-2023. https://doi.org/10.1002/pen.25201	1.92	2.5
	4	Raheem, Ademola Bolanle; Noor, Zainura Zainon; Hassan, Azman; et al.Current developments in chemical recycling of post-consumer polyethylene terephthalate wastes for new materials production: A review . Journal of Cleaner Production, 2019, (255), 1052-1064	6.39	5
	5	Chinchillas-Chinchillas, Manuel J.; Orozco-Carmona, Victor M.; Alvarado-Beltran, Clemente G.; et al. Synthesis of Recycled Poly(ethylene terephthalate)/Polyacrylonitrile/Styrene Composite Nanofibers by Electrospinning and Their Mechanical Properties Evaluation. JOURNAL OF POLYMERS AND THE ENVIRONMENT, 2019, (27)3, 659-669. https://link.springer.com/article/10.1007/s10924-019-01379-1	2.76	2.86
	6	Liu, Ru; Yin, Xiaoqian; Huang, Anmin; et al. Preparation of Organo-Montmorillonite Modified Poly(lactic acid) and Properties of Its Blends with Wood Flour. Polymers, 2019, (11) 2. https://doi.org/10.3390/polym11020204	3.16	4
ISI	7	Wang, Lei; He, Chunxia. Thermal and wear behavior of three inorganic fiber-reinforced wood-plastic composites in simulated soil aging conditions. Polymer Testing, Volume 80, Art	2.94	10

		Number: 106129 Published: DEC 2019 https://doi.org/10.1016/j.polymertesting.2019.106129		
	8	Deng, Jianchao; Wei, Xin; Zhou, Haiying; Wang, G ; Zhang, SB. Inspiration from table tennis racket: Preparation of rubber-wood-bamboo laminated composite (RWBLC) and its response characteristics to cyclic perpendicular compressive load. Composite Structures. Volume: 241 Article Number: 112135 Published: JUN 1 2020 https://doi.org/10.1016/j.compstruct.2020.112135	4.82	4
BDI	9	Georgescu, SV ; Cosereanu, C. Comparative analysis of thermal and acoustic performance of composites made from wood fibres, recycled rubber and ABS. 3RD CHINA-ROMANIA SCIENCE AND TECHNOLOGY SEMINAR (CRSTS 2018), Edited by: Abrudan, IV; Shi, T; Lache, S; Wu, Y; Muntean, R; Oancea, G, Book Series: IOP Conference Series-Materials Science and Engineering, Volume: 399, Document Type: Proceedings Paper https://doi.org/10.1088/1757-899X/399/1/012019	-	1.5
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, first published April 2016, vol 51 (3) 357-372				
ISI	1	Barreto Luna, Carlos Bruno; Araujo, Edcleide Maria; Siqueira, Danilo Diniz; et al. Incorporation of a recycled rubber compound from the shoe industry in polystyrene: Effect of SBS compatibilizer content. Journal of Elastomers and Plastics, 2020, (52) 1, Pages 3-28 https://doi.org/10.1177/0095244318819213	1.11	2.5
C. Cazan, Cosnita M., A. Duță, Effect of PET functionalization in composites of rubber-PET-HDPE type, Arabian Journal of Chemistry, (2017) 10 300-312				
ISI	1	Croitoru, Catalin; Spirchez, Cosmin; Cristea, Daniel; et al. Calcium carbonate and wood reinforced hybrid PVC composites. Journal o Applied Polymer Science, (135)22, Article Number: 46317 Published: JUN 10 2018 https://doi.org/10.1002/app.46317	1.67	5
	2	Yang, YR; Niu, M; Li, JJ; Dai, JM, Synthesis of a novel microcapsule flame retardant and flame-retardant property of its composites with poly (ethylene terephthalate), Journal o Polymer Research (24) 11, 2017 https://doi.org/10.1007/s10965-017-1335-z	1.43	5
	3	Rahem, Zahir; Douibi, Abdelmalek; Lallam, Abdelaziz; et. all. Synergistic Combination of Crystallization and Addition of a Toughening Agent to Promote Recycled Poly(ethylene terephthalate) Performances. Polymer Science Series A, 2019 (61)5, Pages: 635-649 https://doi.org/10.1134/S0965545X19050158	0.98	2.5
	4	Cejudo Bastante, C.; Cran, M. J.; Casas Cardoso, L.; et al. Effect of supercritical CO2 and olive leaf extract on the structural, thermal and mechanical properties of an impregnated food packaging film. JOURNAL OF	3.48	3.33

		SUPERCRITICAL FLUIDS, 2019 (145) 181-191. https://doi.org/10.1016/j.supflu.2018.12.009		
	5	A.A. Borzan , D. Gokdai, Effect of Organic Reinforcement Usage on Mica/Polyester Composite Material, Cumhuriyet Science Journal, Year 2017, Vol 38, Issue 4, Pag 603 – 610 https://doi.org/10.17776/csj.348276	1.77	7.5
BDI	6	Baek, YM; Shin, PS; Kim, JH; Park, HS ; Kwon, DJ ; Park, JM, Comparison of Mechanical and Interfacial Properties of Carbon Fiber Reinforced Recycled PET Composites with Thermoforming Temperature and Time, Composite Research (30)3, 2017, 175-180. https://doi.org/10.7234/composres.2017.30.3.175	-	0.5
	7	M. M.-López, G.M.-Barrera, J.J.Coiz-Díaz, Juan EnriqueMartínez-Martínez, Osman Gencel, Maria C.S.Ribeiro, VíctorVarela-Guerrero. Polymer waste materials as fillers in polymer mortars: experimental and finite elements simulation, Case Studies in Construction Materials, (9) 2018. https://doi.org/10.1016/j.cscm.2018.e00178	-	0.75
Cosnita M., Cazan C., Duta A., Interfaces and mechanical properties of recycled rubber–polyethylene terephthalate–wood composites, Journal of Composite Materials, 48 (6), (2014), pp.683-694				
ISI	1	M. D. Stanciu, V. Bucur, C. S. Vâlcea, A. Savin, R. Sturm. Oak particles size effects on viscous-elastic properties of wood polyester resin composite submitted to ultraviolet radiation. Wood Science and Technology, 2018, (52)2, Pages 365-382 https://doi.org/10.1007/s00226-017-0971-0	1.71	3
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. Volume 208, 20 January 2019, Pages 1030-1040				
ISI	1	Zhou, YH; Wang, YX; Fan, MZ. Incorporation of tyre rubber into wood plastic composites to develop novel multifunctional composites: Interface and bonding mechanisms. INDUSTRIAL CROPS AND PRODUCTS, 2019 (141) https://doi.org/10.1016/j.indcrop.2019.111788	4.19	6.66
	2	Gargol, Mateusz; Podkoscielna, Beata. The use of waste materials as fillers in polymer composites - synthesis and thermal properties . PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, 2019, (55), 6, 1549-1556	1.24	7.50
C. Cazan, Cosnita M., D. Perniu, A. Duță, Polymeric wastes from automobiles as second raw materials for large scale products. Environmental Engineering and Management Journal, 12, (8), p. 1649-1655, aug. 2013. ISSN 1843-3707				
ISI	1	L. Costiuc, M. Tiorean , L. Baltes , S. Patatchia. Experimental investigation on the heat o combustion or solid plastic waste mixtures. Environmental Engineering and Management Journal, 2015, (14), 6, 1295-1302 http://omicron.ch.tuiasi.ro/EEMJ/	1.33	3.75
	2	Ta-Tung Wei; Yueh-Hui Lin. Environmental Engineering & Management Journal (EEMJ) . 2015, (14) 9,		7.50

		p2127-2138.		
Duță, C. Cazan, Cosnita M. , Fly ash in optimized composites based on recycled plastics and rubber, World of Coal Ash (WOCA), conference may 9-12, 2011, in Denver, CO, USA, http://www.flyash.info/ .				
ISI	1	Z. Ge, D. Huang, R. Sun, Z. Gao. Properties of plastic mortar made with recycled polyethylene terephthalate. Construction and Building Materials, 2014 (73), Pages 682-687	3.49	5
	2	T. Lee, K. Jeong, D. Kim. Development of a lightweight BMC material using fly ash. Advanced Composite Materials, 2017, (26) 1 https://doi.org/10.1080/09243046.2016.1187821	1.12	5
	3	A.Gulati, S. Varshney, N. Agarwal, and S. K. Dhawan. Designing of LDPE/fly ash/expanded graphite sheet for electrostatic charge dissipation application. Adv. Mater. Lett. 2016, 7(5), 100-105 www.vbripress.com/aml , DOI: 10.5185/amlett.2016.5841	1.46	3.75
C. Bogatu, D. Perniu, C. Sau, O. Iorga, Cosnita M. , A. Duta, Ultrasound assisted sol-gel TiO ₂ powders and thin films for photocatalytic removal of toxic pollutants, Ceramics International, (43), 11, pg. 7963-69, published 1 Aug. 2017				
ISI	1	A.Apostolopoulou, S. Mahajan, R. Sharma, E. Stathatos. 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, 2018 (112), Pages 37-42 https://doi.org/10.1016/j.jpcs.2017.09.005	2.21	5
	2	M. 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. Ceramics International 2017, (43)17, Pages 15288-15295 https://doi.org/10.1016/j.ceramint.2017.08.068	3.06	5
	3	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, 2018, (43) 27, Pages 12049-12058 https://doi.org/10.1016/j.ijhydene.2018.04.110	4.23	4
	4	M. A. Awad, M. Raaif. The disclosed transformation of pre-sputtered Ti films into nanoparticles via controlled thermal oxidation. Applied Physics A (2018) 124:388 https://doi.org/10.1007/s00339-018-1807-y	1.42	7.5
	5	A. Sobczyk-Guzenda, S. Owczarek, M. Fijalkowski, D. Batory, M. Gazicki-Lipman. Morphology, structure and photowettability of TiO ₂ coatings doped with copper and fluorine. Ceramics International, 2018, (44)5, Pages 5076-508 https://doi.org/10.1007/s00339-018-1807-y	3.45	4

	6	Kukleva, Ekaterina; Suchankova, Petra; Stamberg, Karel; et al. Surface protolytic property characterization of hydroxyapatite and titanium dioxide nanoparticles. RSC Advances 2019, (9) 38, Pages: 21989-21995 https://pubs.rsc.org/en/content/articlehtml/2019/ra/c9ra03698a	3.05	3.33
	7	Li, Lu; Jiang, Liyan; Yang, Liu; et al. Optimization of Degradation Kinetics towards O-CP in H3PW12O40/TiO2 Photoelectrocatalytic System. SUSTAINABILITY, 2019, (11)13 https://doi.org/10.3390/su11133551	2.59	3.33
	8	Zhai, Shimin; Li, Min; Wang, Dong; et al. In situ loading metal oxide particles on bio-chars: Reusable materials for efficient removal of methylene blue from wastewater. Journal of Cleaner production, 2019 (220), Pages: 460-474 https://doi.org/10.1016/j.jclepro.2019.02.152	6.39	5
	9	Zhang, Zhihao; Wang, Xuejiang; Zhao, Jianfu. Phosphate recovery from wastewater using calcium silicate hydrate (C-S-H): sonochemical synthesis and properties. ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY, 2019 (5)1, Pages: 131-139 DOI: 10.1039/C8EW00643A	4.19	6.66
BDI	1	Dagoberto dos Santos Araújo, Verônica Cristina de Souza Diniz, Ramon Alves Torquato, Ana Cristina Figueiredo de Melo Costa. Evaluation of the optical gap of TiO2 Obtained by Pechini method: influence of the variation of the anatase-rutile phases. Matéria (Rio J.) vol.23 no.1 Rio de Janeiro 2018 https://doi.org/10.1590/s1517-707620170001.0285	0.28	1.25
	2	S. Tsoumachidou, M. Valari, I. Poullos. Photocatalytic oxidation of psychoactive drug Duloxetine: Degradation kinetics, inorganic ions and phytotoxicity evaluation. Applied Chemical Engineering (2018) Volume 2 doi: 10.63019/ace.v1i2.509 https://systems.enpress-publisher.com/index.php/ACE/article/view/509	3	1
Pop, MA, Croitoru, C, Bedő, T, Geamăn V, Radomir I, Coșnită M, Zaharia SM, Chicos LA, Miloșan I. Structural changes during 3D printing of bioderived and synthetic thermoplastic materials. <i>J. Appl. Polym. Sci.</i> , (2019) 136, 47382.				
IS	1	Meng, Chenjie; Zhao, Jiaming; Yin, Yuxiang; Luo, J ; Zhao, LY; Feng, JY. Preparation and Characterization of PLA Film/3D Printing Composite Scaffold for Tissue Engineering Application. Volume: 21 Issue: 4 Pages: 709-716 Published: APR 2020	1.43	2.5
	2	Olejnik, Olga; Masek, Anna; Kiersnowski, Adam. Thermal Analysis of Aliphatic Polyester Blends with Natural Antioxidants. Polymers, Vol. 12 (1) Article Number: 74 Published: JAN 2020	3.16	6.66

	https://doi.org/10.3390/polym12010074		
3	Shie, Ming-You; Shen, Yu-Fang; Astuti, Suryani Dyah; Lee, AKX ; Lin, SH; Dwijaksana, NLB; Chen, YW . Review of Polymeric Materials in 4D Printing Biomedical Applications. Polymers 11 (11), Article Number: 1864 Published: NOV 2019 https://doi.org/10.3390/polym11111864	3.16	2.86
4	Liang, Bin; Lu, Xiang; Li, Renpu; Tu, WP; Yang, ZH; Yuan, T. Solvent-free preparation of bio-based polyethylene glycol/wood flour composites as novel shape-stabilized phase change materials for solar thermal energy storage. Solar Energy Materials and Solar Cells. Volume: 200, Article Number: UNSP 110037 Published: SEP 15 2019 https://doi.org/10.1016/j.solmat.2019.110037	6.02	5
5	Mazzanti, Valentina; Malagutti, Lorenzo; Mollica, Francesco. FDM 3D Printing of Polymers Containing Natural Fillers: A Review of their Mechanical Properties. Polymers, 11(7) 2019. Article Number: 1094 https://doi.org/10.3390/polym11071094	3.16	6.66
Numar de citari indeplinite 41 din care 36 in reviste ISI si 5 in BDI TOTAL CITERIUL A.3.1			181.51

A.3.3 Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, organizator de manifestari stiintifice / Recenzor pentru reviste si manifestari stiintifice nationale si internationale indexate ISI

A.3.3.1 Recenzor reviste ISI: Journal of Applied Polymer Science; Textile Research Journal; Journal of Cleaner Production; Journal of Composite Materials; Waste Management

Punctaj 5 reviste x 5 puncte= 25 puncte

TOTAL CRITERIUL A.3.3	25
TOTAL CRITERIUL A3	206.51

Tabel 1. Indeplinire standarde minime CNATDCU pentru CS II

Domeniul de activitate	Condiții CS II	Punctaje indeplinite
Activitate didactică/profesională A1	Fara restrictii	5.32
Activitate de cercetare A2	Minim 190 puncte	557.25
Recunoașterea impactului activității A3	Minim 60 puncte	206.51
Total	250 puncte	769.08

Candidat:
C.S. Dr. Cosmina Mihaela

Data: 18.05.2020

Director de departament:
Prof. univ. dr. ing. Luciana CRISTEA

REZOLUTIA COMISIEI STIINTIFICE:

Membru Comisiei:

1. Prof. dr. ing. Daniel Munteanu
2. Prof. dr. ing. Mircea Maria TIEREAN
3. Prof. dr. ing. Teodor MACREBON PIRU

STANDARDELE SUNT INDEPLINITE

☒ DA

☐ NU

☒ DA

☐ NU

☒ DA

☐ NU

[Signature]

Criterii interne ale Universității Transilvania din Brașov

Pentru ocuparea postului de cercetător științific gradul II (CS II)

Cel puțin trei articole în calitate de autor principal în reviste clasificate Clarivate Analytics (ISI Web of Science) Q1 (first Quartile) ori Q2 (second Quartile) la data publicării:

1. **Cosnita M.**, Cazan C, Manciu I. All-Waste Hybrid Composites with Waste Silicon Photovoltaic Module. *Polymers* 2020, 12(1), 53. (IF = 3.16) - Q1
2. **Cosnita M.**, Cristina Cazan, Anca Duta. 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*, Vol. 165, 1 Nov. 2017, pg. 630-636. (FI=6.39) - Q1
3. **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* 0021998316645850, first published on April 26, 2016. (IF=1.75) - Q2
4. **Cosnita M.**, Cazan C., Duta A., Interfaces and mechanical properties of recycled rubber-polyethylene terephthalate-wood composites, *Journal of Composite Materials*, 48 (6), (2013), pp.683-694. (F.I. = 1.75) - Q2

Criteriu îndeplinit cu 4 lucrări ISI Web of Science, ca autor principal, din care 2 articole Q1 și două articole Q2

Candidat

CS.dr. Mihaela COSNITA

REZOLUȚIA COMISIEI ȘTIINȚIFICE:

Membru Comisie

1. Prof. dr. ing. Ionel Munteanu
2. Prof. dr. ing. Mircea Maria TIEREAN
3. Prof. dr. ing. Teodor HARENESCU-PISO

STANDARDELE SÎNT ÎNDEPLINITE

☒ SA

☐ NU

☒ SA

☐ NU

☒ SA

☐ NU