

COMISIA DE INGINERIE ELECTRICĂ

Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare

Nr. Crt	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori (kpi)	Număr	Punctaj
1	Activitatea didactică/ profesională (A1)	1.1 Cărți și capitole în cărți de specialitate	1.1.1 Cărți cu ISBN/capitole ca autor: Profesor minimum 4; Conferențiar minimum 2, CS I minimum 2, CS II minimum 1	1.1.1.1 Internaționale	nr. pagini/ (2*nr. autori)	3	3.58
				1.1.1.2 naționale	nr. pagini/ (5*nr. autori)	4	112.13
			1.1.2 Cărți/capitole de cărți ca editor/coordonator	1.1.2.1 Internaționale	nr. pagini/ (3*nr. autori)	0	0.00
				1.1.2.2 naționale	nr. pagini/ (7*nr. autori)	0	0.00
		1.2 Suport didactic	1.2.1 Suport de curs inclusiv electronic: Profesor minimum 2 din care 1 ca prim autor; Conferențiar minimum 1, CS I și CS II fără restricții	nr. pagini/ (10*nr. autori)	5	84.15	
			1.2.2 Îndrumare de laborator/aplicații: Profesor minimum 2 din care minimum 1 prim autor; Conferențiar minimum 1; CS I și CS II fără restricții	nr. pagini/ (20*nr. autori)	2	8.12	
1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS etc.)	Punctaj unic pentru fiecare activitate	10	0	0.00			
2	Activitatea de cercetare (A2)	2.1 Articole în extenso în reviste cotate WOS Thomson-Reuters *), în volume proceedings indexate WOS Thomson-Reuters și brevete de invenție indexate WOS-Derwent	2.1.1 Profesor/CS I: minimum 10 articole din care minimum 4 ca prim autor și minimum 4 în reviste;		(25 + 20 * factor impact**))/ nr. de autori	42	390.18
			2.1.2 Conferențiar/CS II: minimum 7 articole din care minimum 2 ca prim autor și minimum 2 în reviste				
		2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale BDI ***)	2.2.1 Profesor/CS I: minimum 20 articole din care minimum 5 în reviste;	20/nr. de autori	28	162.33	
			2.2.2 Conferențiar/CS II: minimum 15 articole din care minimum 2 în reviste				
		2.3 Brevete de invenție indexate în alte baze de date		2.3.1 internaționale	25/nr. de autori	1	12.5
				2.3.2 naționale	15/nr. de autori	0	0
		2.4 Granturi/proiecte câștigate prin competiție națională/internațională ****)	2.4.1 Director/Responsabil proiect partener: minimum 2 pentru Profesor/CS I; minimum 1 pentru Conferențiar/CS II	2.4.1.1 internaționale	20*ani de desfășurare	1	30
				2.4.1.2 naționale	10*ani de desfășurare	2	60
				2.4.2.1 internaționale	4*ani de desfășurare	7	68
				2.4.2.2 naționale	2*ani de desfășurare	3	18

		2.5 Contracte de cercetare/consultanță (valoare echivalentă de minim 2000 euro)	2.5.1 Director/Responsabil proiect partener		5*ani de desfășurare	0	0	
			2.5.2 Membru echipă		2*ani de desfășurare	2	4	
3	Recunoașterea și impactul activității (A3)	3.1 Citări în revistele WOS și volumele conferințelor WOS *****)	3.1.1 Profesor/CS I: minimum 10 citări		5/nr. autori ai articolului citat	134	156.08	
			3.1.2 Conferențiar/CS II: minimum 7 citări					
		3.2 Citări în revistele BDI și volumele conferințelor BDI *****)	3.2.1 Profesor/CS I: minimum 20 citări		3/nr. autori ai articolului citat	39	24.87	
			3.2.2 Conferențiar/CS II: minimum 10 citări					
		3.3 Prezentări invitate în plenumul unor manifestări științifice naționale și internaționale și Profesor invitat (exclusiv POS, ERASMUS)	Punctaj unic pentru fiecare activitate	3.2.1 internaționale	20	0	0	
				3.2.2 naționale	5	0	0	
		3.4 Membru în colective de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale (punctajul se acordă pentru fiecare revistă, manifestare științifică și recenzie)		3.4.1 WOS	10	8	80	
				3.4.2 BDI	6	2	12	
				3.4.3 Naționale și internaționale neindexate	3	0	0	
		3.5 Referent în comisii de doctorat		3.5.1 internaționale	10	0	0	
				3.5.2 naționale	5	0	0	
		3.6 Premii		Academia Română	30	0	0	
				ASAS, AOSR, academii de ramură și CNCS	15	0	0	
				Premii internaționale	10	1	10	
				Premii naționale în domeniu	5	0	0	
		3.7 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării		3.7.1 Academia Română	100	0	0	
				3.7.2 ASAS, AOSR și academii de ramură	30	0	0	
				3.7.3 Conducere asociații profesionale	internaționale	30	0	0
					naționale	10	0	0
				3.7.4 Asociații profesionale	internaționale	5	1	5
naționale	2				1	2		
3.7.5 Consilii și organizații în domeniul educației și cercetării		conducere	15	0	0			
		membru	10	0	0			
<b>TOTAL</b>							1242.95	

\*) Conform situației curente de pe site-ul WOS (Web of Science) THOMSON REUTERS; o revistă cotate WOS este echivalentă cu o revistă cotate ISI conform Ordinului de Ministru (MECTS) Nr. 4478 din 23 iunie 2011, publicat în Monitorul Oficial, Partea I, Nr. 448/27.VI.2011;

\*\*) Factorul de impact al revistei menționat pe site-ul WOS în anul curent; pentru articolele în proceedings WOS și pentru brevete indexate WOS-Derwent factorul de impact considerat va fi egal cu 0;

\*\*\*) Bazele de date internaționale (BDI) luate în considerare pentru articolele publicate în reviste și în volumele unor manifestări științifice, cu excepția articolelor publicate în reviste/proceedings cotate WOS, sunt cele recunoscute pe plan științific internațional: Scopus, IEEE Xplore, Elsevier Science Direct, Engineering Village, Compendex, INSPEC, Springerlink, Cabi, EBSCO, CSA ILLUMINA/PROQUEST, Index Copernicus și Ulrich's;

\*\*\*\*) Nu se consideră în această categorie proiectele/granturile POSDRU (POCU), POSCCE (POC), ERASMUS (ERASMUS PLUS), COMENIUS, bursele postdoctorale și alte proiecte similare care nu prezintă un caracter predominant de cercetare; se consideră numai proiectele/granturile relevante pentru profilul postului scos la concurs/domeniului de abilitare;

\*\*\*\*\*) Autocitățile sunt excluse (se consideră autocitare existența unui autor/coautor comun între lucrarea citată și lucrarea care citează) .

	Punctaj realizat
Activitatea didactică și profesională (A1)	207.98
Activitatea de cercetare (A2)	745.02
Recunoașterea impactului activ (A3)	289.95
<b>TOTAL</b>	<b>1242.95</b>
<b>SCOR</b>	<b>2.07</b>

Nr. crt.	Domeniul de activitate	Categorii			
		Condiții conferențiar	Condiții CS II	Condiții profesor	Condiții CS I
1	Activitatea didactică/profesională (A <sub>1</sub> )	Minimum 60 puncte	Minimum 20 puncte	Minimum 120 puncte	Minimum 40 puncte
2	Activitatea de cercetare (A <sub>2</sub> )	Minimum 180 puncte	Minimum 220 puncte	Minimum 360 puncte	Minimum 440 puncte
3	Recunoașterea și impactul activității (A <sub>3</sub> )	Minimum 60 puncte	Minimum 60 puncte	Minimum 120 puncte	Minimum 120 puncte
<b>TOTAL</b>		<b>Minimum 300 puncte</b>	<b>Minimum 300 puncte</b>	<b>Minimum 600 puncte</b>	<b>Minimum 600 puncte</b>

Subsemnatul, conf.dr.ing. PURCAR Ioan Marius certifică că toate datele sunt corecte, că alocarea pe tipuri de activități, categorii și subcategorii este justificată, că punctajele sunt corecte și îmi asum acestea prin semnătură.

Data 21.09.2020

Nume, prenume PURCAR Ioan Marius

Semnătură

Coordonator consiliu programe doctorale Inginerie Electrică

Data \_\_\_\_\_

Nume, prenume Prof. dr. ing. SZABO Lorand

Semnătură

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Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare

Nr. Crt	Domeniul activităților	Tipul activităților	Categoriile și restricții	Subcategoriile	Indicatori (kpi)	Număr	Punctaj
1	Activitatea didactică/profesională (A1)	1.1 Cărți și capitole în cărți de specialitate	1.1.1 Cărți cu ISBN/capitole ca autor: Profesor minimum 4; Conferențiar minimum 2, CS I minimum 2, CS II minimum 1	1.1.1.1 internaționale	nr. pagini/ (2*nr. Autori)	3	3.58
				1.1.1.2 naționale	nr. pagini/ (5*nr. Autori)	4	112.13
			1.1.2 Cărți/capitole de cărți ca editor/coordonator	1.1.2.1 internaționale	nr. pagini/ (3*nr. Autori)	0	0.00
				1.1.2.2 naționale	nr. pagini/ (7*nr. Autori)	0	0.00
		1.2 Suport didactic	1.2.1 Suport de curs inclusiv electronic: Profesor minimum 2 din care 1 ca prim autor; Conferențiar minimum 1, CS I și CS II fără restricții	nr. pagini/ (10*nr. autori)	5	84.15	
			1.2.2 Îndrumare de laborator/aplicații: Profesor minimum 2 din care minimum 1 prim autor; Conferențiar minimum 1; CS I și CS II fără restricții	nr. pagini/ (20*nr. autori)	2	8.12	
		1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS s.a.)	Punctaj unic pentru fiecare activitate	10	0	0.00	
<b>TOTAL A1</b>							<b>207.983</b>

1.1. Cărți și capitole în cărți de specialitate

1.1.1 Cărți cu ISBN/capitole ca autor

1.1.1.1 Internaționale

Nr.	Autori	Titlu capitol / carte	Editura	ISBN	An apariție	Număr pagini	Număr autori	Punctaj
1	Purcar, M., Deconinck, J., Van den Bossche, B., Bortels, L.,	Numerical 3D BEM simulation of a CP system for a buried tank influenced by a steel reinforced concrete foundation in Simulation of Electrochemical Processes Book Series II: WIT TRANSACTIONS ON ENGINEERING SCIENCES	WIT PRESS, ASHURST LODGE, SOUTHAMPTON SO40 7AA, ASHURST, ENGLAND	ISBN:1-84564-012-8	2005	10	4	1.25
2	Purcar, M., Deconinck, J., Van den Bossche, B., Bortels, L.,	3D cathodic protection design of ship hulls in Simulation of Electrochemical Processes Book Series: WIT TRANSACTIONS ON ENGINEERING SCIENCES	WIT PRESS, ASHURST LODGE, SOUTHAMPTON SO40 7AA, ASHURST, ENGLAND	ISSN 1743-3533	2007	10	5	1.00

3	Bojita, A., <b>Purcar, M.</b> , Boianceanu, C., Florea, C., Simon, D., & Topa, V	A simple metal-semiconductor substructure model for the thermal induced fatigue simulation in power integrated circuits in Lecture Notes in Mechanical Engineering	Springer	ISBN:978-981-13-2273-0_3	2019	16	6	1.33
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**3.58**

#### 1.1.1.2 Naționale

Nr.	Autori	Titlu capitol / carte	Editura	ISBN	An apariție	Număr pagini	Număr autori	Punctaj
1	<b>Purcar Marius</b>	Modeling the Electrode Shape Changes for Electroforming and Electrochemical Machining Processes	EdituraMediamira	ISBN 978-973-713-272-7	2010	181	1	36.20
2	Grindei Laura, Constantinescu Claudia, <b>Purcar Marius</b>	Aplicații C/C++/C# și Arduino în Inginerie Electrică	Editura UTPress	ISBN 978-606-737-435-3	2020	209	3	13.93
3	<b>Purcar Marius</b> , Calin Munteanu	Chestiuni speciale de electrotehnică	Editura UTPress	ISBN 978-606-737-465-0	2020	160	2	16.00
4	<b>Purcar Marius</b>	Tehnici si tehnologiiavansate de proiectare CAD-CAE	Editura UTPress	ISBN:978-606-737-467-4	2020	230	1	46.00

**112.13**

#### 1.1.2 Cărți/capitole de cărți ca editor/coordonator

##### 1.1.2.1 Internaționale

Nr.	Editori	Titlu capitol / carte	Editura	ISBN/ISSN	An apariție	Număr pagini	Număr autori	Punctaj
1								0.00
2								0.00

**0.00**



##### 1.1.2.2 Naționale

Nr.	Editori	Titlu capitol / carte	Editura	ISBN/ISSN	An apariție	Număr pagini	Număr autori	Punctaj
1								0.00
2								0.00

**0.00**

#### 1.2 Suport didactic

##### 1.2.1 Suport de curs inclusiv electronic

Nr.	Autori	Curs	Editura/Atelier multiplicare	Dovada	An apariție	Număr pagini	Număr autori	Punctaj
1	<b>Purcar Marius</b> , Man Eugen	Managementul EMC în realizarea produsului	Atelierul de multiplicare al Universității Tehnice din Cluj-Napoca	 Coperta_ManagementulEMCinRealizareaProdusului.pdf	1999	100	2	5.00
2	Man Eugen, <b>Purcar Marius</b>	Introducere în Asigurarea Calității	Atelierul de multiplicare al Universității Tehnice din Cluj-Napoca	 Coperta_IntroducereinAsigurareaCalitatii.pdf	1999	131	2	6.55
3	<b>Purcar Marius</b>	Teoria circuitelor (suport de curs electronic - prezentari)		<a href="https://didatec-my.sharepoint.com/:b/g/personal/marius_purcar_utcluj_didatec_ro/EQFAHY5G0_ploirELuRvme0BFmBS_iL-ODj_U5vtmuT7Cw?e=SzfHCS">https://didatec-my.sharepoint.com/:b/g/personal/marius_purcar_utcluj_didatec_ro/EQFAHY5G0_ploirELuRvme0BFmBS_iL-ODj_U5vtmuT7Cw?e=SzfHCS</a>	2017	400	2	20.00

4	<b>Purcar Marius</b>	Chestiuni speciale de electrotehnică (suport de curs electronic - prezentari)	<a href="https://didatec-my.sharepoint.com/:b:/g/personal/marius_purcar_utcluj_didatec_ro/EVdYk7Rbl_pPt5tGvV-sJC0BOvsnbQ_sny54da9Ro4mb-w?e=yizhZF">https://didatec-my.sharepoint.com/:b:/g/personal/marius_purcar_utcluj_didatec_ro/EVdYk7Rbl_pPt5tGvV-sJC0BOvsnbQ_sny54da9Ro4mb-w?e=yizhZF</a>	2018	156	1	15.60
5	<b>Purcar Marius</b>	Instrumente CAD (suport de curs electronic - prezentari)	<a href="https://didatec-my.sharepoint.com/:b:/g/personal/marius_purcar_utcluj_didatec_ro/EUKKHaPsQftLiMeJgzeKWuAB727yvLvn32Eoudw1IyndBQ?e=rQl7g7">https://didatec-my.sharepoint.com/:b:/g/personal/marius_purcar_utcluj_didatec_ro/EUKKHaPsQftLiMeJgzeKWuAB727yvLvn32Eoudw1IyndBQ?e=rQl7g7</a>	2018	370	1	37.00

**84.15**

1.2.2 Îndrumare de laborator/aplicații

Nr.	Autori	Laborator/aplicații	Editura/Atelier multiplicare	Dovada	An apariție	Număr pagini	Număr autori	Punctaj
1	<b>Purcar Marius</b>	Modelarea numerică a circuitelor electrice. Îndrumator de laborator	Editura UTPress	ISBN:978-606-737-466-7	2020	117	1	5.85
2	<b>Purcar Marius, Bojiță Adrian, Avram Alexandru</b>	Instrumente CAD	Editura UTPress	ISBN 978-606-737-408-7	2019	136	3	2.27

**8.12**

1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS etc.)

Nr.	Denumire	Dovada	Punctaj
1			0
2			0
3			0
4			0
5			0

**0**

Subsemnatul, conf.dr.ing. PURCAR Ioan Marius certific că toate datele sunt corecte, că alocarea pe tipuri de activități, categorii și subcategorii este justificată, că punctajele sunt corecte și îmi asum acestea prin semnătură.

Data 21.09.2020

Nume, prenume **PURCAR Ioan Marius**

Semnătură

Coordonator consiliu programe doctorale Inginerie Electrică

Data \_\_\_\_\_

Nume, prenume **Prof. dr. ing. SZABO Lorand**

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Nr. Crt	Domeniul activitatilor	Tipul activitatilor	Categoriile și restricții	Subcategoriile	Indicatori (kpi)	Numar	Punctaj
2	Activitatea de cercetare (A2)	2.1 Articole în extenso în reviste cotate WOS Thomson-Reuters *), în volume proceedings indexate WOS Thomson-Reuters și brevete de invenție indexate WOS-Derwent	2.1.1 Profesor/CS I: minimum 10 articole din care minimum 4 ca prim autor și minimum 4 în reviste;		(25 + 20 * factor impact **)/nr. de autori	42	390.18
			2.1.2 Conferențiar/CS II: minimum 7 articole din care minimum 2 ca prim autor și minimum 2 în reviste				
		2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale BDI ***)	2.2.1 Profesor/CS I: minimum 20 articole din care minimum 5 în reviste;		20/nr. de autori	28	162.33
			2.2.2 Conferențiar/CS II: minimum 15 articole din care minimum 2 în reviste				
		2.3 Brevete de invenție indexate în alte baze de date		2.3.1.1 internaționale	25/nr. de autori	1	12.5
				2.3.2.2 naționale	15/nr. de autori	0	0
		2.4 Granturi/proiecte câștigate prin competiție națională/internațională ****)	2.4.1 Director/Responsabil proiect partener: minimum 2 pentru Profesor/CS I; minimum 1 pentru Conferențiar/CS II	2.4.1.1 internaționale	20*ani de desfășurare	1	30
				2.4.1.2 naționale	10*ani de desfășurare	2	60
				2.4.2 Membru în echipă	2.4.2.1 internaționale	4*ani de desfășurare	7
		2.4.2.2 naționale	2*ani de desfășurare		3	18	
2.5 Contracte de cercetare/consultanță (valoare echivalentă de minim 2000 euro)	2.5.1 Director/Responsabil proiect partener		5*ani de desfășurare	0	0		
	2.5.2 Membru echipă		2*ani de desfășurare	2	4		
<b>TOTAL</b>							<b>745.02</b>

2.1 Articole în extenso în reviste cotate WOS Thomson-Reuters \*), în volume proceedings indexate WOS Thomson-Reuters și brevete de invenție indexate WOS-Derwent

\*) Conform situației curente de pe site-ul WOS (Web of Science) THOMSON REUTERS; o revistă cotate WOS este echivalentă cu o revistă cotate ISI conform Ordinului de Ministru (MECTS) Nr. 4478 din 23 iunie 2011, publicat în Monitorul Oficial, Partea I, Nr. 448/27.VI.2011;

\*\*\*) Factorul de impact al revistei menționat pe site-ul WOS în anul curent; pentru articolele în proceedings WOS și pentru brevete indexate WOS-Derwent factorul de impact considerat va fi egal cu 0;

Nr.	Autori	Titlu lucrare, Brevet / Revista (Conferinta), vol. issn, pp, an	Factor de impact	Nr. Autori	Punctaj
1	Vermesan, Horatiu; Tiuc, Ancuta Elena; Purcar, Marius	Advanced Recovery Techniques for Waste Materials from IT and Telecommunication Equipment Printed Circuit Boards. SUSTAINABILITY, Volume: 12, Issue: 1, Article Number: 74, 2020, DOI: 10.3390/su12010074.	2.576	3	25.51

2	A. Bojita, <b>M. Purcar</b> , C. Boianceanu and V. Topa,	"Efficient Computational Methodology of Thermo-Mechanical Phenomena in the Metal System of Power ICs," 2019 25th International Workshop on Thermal Investigations of ICs and Systems (THERMINIC), Lecco, Italy, 2019, pp. 1-4, doi: 10.1109/THERMINIC.2019.8923502.	0	4	6.25
3	C. Florea, C. Bostan, D. Simon, V. Topa and <b>M. Purcar</b>	"Extraction of Equivalent Mechanical Properties for Power ICs Metallization," 2019 25th International Workshop on Thermal Investigations of ICs and Systems (THERMINIC), Lecco, Italy, 2019, pp. 1-4, doi: 10.1109/THERMINIC.2019.8923452.	0	5	5.00
4	Holonec, R.; Grindei, L.; <b>Purcar, M.</b> ; et al.	Techniques for Sorting Components from Dismembered Medical PCBs. 6TH INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY, MEDITECH 2018 Book Series: IFMBE Proceedings Volume: 71 . pp 56-94. (2019). 10.1007/978-981-13-6207-1_10.	0	5	5.00
5	Avram, A.; Bogdan, R. C.; Bojita, A.; <b>Purcar M.</b>	Modelling of Piezoelectric MEMS in Biomedical Applications. 6TH INTERNATIONAL CONFERENCE ON ADVANCEMENTS OF MEDICINE AND HEALTH CARE THROUGH TECHNOLOGY, MEDITECH 2018 Book Series: IFMBE Proceedings Volume: 71 . pp 119-114. (2019). 10.1007/978-981-13-6207-1_18.	0	4	6.25
6	Bojita, Adrian; Boianceanu, Cristian; <b>Purcar, Marius</b> ; Florea, Ciprian; Simon, Dan; Plesa, Cosmin-Sorin	A simple metal-semiconductor substructure for the advanced thermo-mechanical numerical modeling of the power integrated circuits, MICROELECTRONICS RELIABILITY, Volume: 87, Pages: 142-150, 2018, 10.1016/j.microrel.2018.06.013	1.535	6	9.28
7	Fazakas, A.; Vonsza, C.; <b>Purcar, M.</b>	Electrolytic Capacitor Polarity Determination based on Electrical Measurements. 2018 IEEE 24TH INTERNATIONAL SYMPOSIUM FOR DESIGN AND TECHNOLOGY IN ELECTRONIC PACKAGING (SIITME) Book Series: International Symposium for Design and Technology in Electronic Packaging Pages: 343-348 Published: 2018.10.1109/SIITME.2018.8599205	0	3	8.33



8	Avram A., Bojiță A., <b>Purcar M.</b> , Munteanu C.,	Numerical analysis of electro-thermal behavior and optimization of the cooling system in electronic power devices using CAD/CAE tools, Proceedings - 2017 International Conference on Modern Power Systems, MPS 2017, DOI: 10.1109/MPS.2017.7974435, ISBN 9781509065653.	0	4	6.25
9	Bojita A., Avram A., <b>Purcar M.</b> , Munteanu C., Topa V.,	Thermo-mechanical simulation of the metal-semiconductor structures of power integrated circuits, Proceedings - 2017 International Conference on Modern Power Systems, MPS 2017, DOI: 10.1109/MPS.2017.7974450, ISBN 9781509065653.	0	5	5.00
10	Munteanu C., <b>Purcar M.</b> , Muresan T., Pop A., Rizzo R.,	Study of the electromagnetic field distribution inside a HV/MV substation, Proceedings - 2017 International Conference on Modern Power Systems, MPS 2017, DOI: 10.1109/MPS.2017.7974456, ISBN 9781509065653	0	5	5.00
11	A. Bojita, <b>M. Purcar</b> , C. Boianceanu, E. Tomas and V. Topa,	"A study of adaptive mesh refinement techniques for an efficient capture of the thermo-mechanical phenomena in power integrated circuits," 2017 International Semiconductor Conference (CAS), Sinaia, 2017, pp. 205-208. doi: 10.1109/SMICND.2017.8101201	0	5	5.00
12	A. Bojita, C. Boianceanu, <b>M. Purcar</b> , C. Florea and C. Plesa,	"A simple metal-semiconductor substructure for the advanced thermo-mechanical numerical modeling of the power integrated circuits," 2017 23rd International Workshop on Thermal Investigations of ICs and Systems (THERMINIC), Amsterdam, 2017, pp. 1-6. doi: 10.1109/THERMINIC.2017.8233803	0	5	5.00
13	Avram, A; <b>Purcar, M</b> ; Topa, V; Munteanu C,	AN XFEM BASED ALGORITHM FOR NUMERICAL OPTIMIZATION OF CURRENT DENSITY IN ELECTROCHEMICAL APPLICATIONS, ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, ISSN: 1582-9596, eISSN: 1843-3707, DEC 2016, Vol. 15, ISSUE 12, pp. 2587-2594, WOS:000393476600005	1.258	4	12.54

14	<b>Purcar, M;</b> Munteanu, C; Avram, A; Miron, F,	"CAD/CAE Modeling of Electromagnetic Field Distribution in HV Substations and Investigation of the Human Exposure, 2016 INTERNATIONAL CONFERENCE ON APPLIED AND THEORETICAL ELECTRICITY (ICATE), International Conference on Applied and Theoretical Electricity (ICATE) OCT 06-08, 2016 Craiova, ROMANIA, ISSN: 2376-4163, ISBN: 978-1-4673-8562-6, 2016, WOS:000390767500096	0	4	6.25
15	<b>Purcar, M;</b> Munteanu, C; Avram, A; Bojita, A,	"A Two Layer Ground Computational Model for the Numerical Simulations of the Earthing Systems", PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016), 9th International Conference and Exposition on Electrical and Power Engineering (EPE), OCT 20-22, 2016, Iasi, ROMANIA, ISSN: 2471-6855, ISBN: 978-1-5090-6128-0, 2016, pp. 398-402, WOS:000390706300080	0	4	6.25
16	A. Avram, V. Topa, <b>M. Purcar</b> , C. Munteanu	Numerical optimization of an electrostatic device based on the 3D XFEM and genetic algorithm, in Proceedings of the Universities Power Engineering Conference, 2014.	0	4	6.25
17	<b>Purcar M.</b> , Munteanu, C., Bortels, L., Baete, C.	AC interference assessment and impact on personnel safety, in EPE 2014 - Proceedings of the 2014 International Conference and Exposition on Electrical and Power Engineering, pp. 457-461, 2014.	0	4	6.25
18	C. Munteanu, <b>M. Purcar</b> , D. Bursasiu, E. Merdan, V. Farcas	CAD/CAE modeling of the human exposure to electric field inside a high voltage substation, in EPE 2014 - Proceedings of the 2014 International Conference and Exposition on Electrical and Power Engineering, pp. 476-479, 2014.	0	5	5.00
19	F. Miron, <b>M. Purcar</b> , C. Munteanu, G. Mihai	The study of high frequency electromagnetic shielding performance by numerical modeling, in EPE 2014 - Proceedings of the 2014 International Conference and Exposition on Electrical and Power Engineering, pp. 633-636, 2014.	0	4	6.25

20	<b>M. Purcar</b> , A. Avram, C. Munteanu	B-spline surface approximation of triangulated data set patches, in 2014 INTERNATIONAL CONFERENCE ON PRODUCTION RESEARCH - REGIONAL CONFERENCE AFRICA, EUROPE AND THE MIDDLE EAST AND 3RD INTERNATIONAL CONFERENCE ON QUALITY AND INNOVATION IN ENGINEERING AND MANAGEMENT (ICPR-AEM 2014), pp. 416-421, 2014.	0	3	8.33
21	<b>Marius Purcar</b> , Calin Munteanu, Vasile Topa	3D ELECTRODE SHAPE CHANGE SIMULATION IN ELECTROPLATING, in REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, vol. 58, no. 3, pp. 252-262, 2013.	0.368	3	10.79
22	R. Chereches, Barba, Di, V. Topa, <b>M. Purcar</b> , S. Wiak	Optimal shape design of electrostatic microactuators: A multiobjective formulation, in INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS, vol. 43, no. 1-2, pp. 65-76, 2013.	0.737	5	7.95
23	<b>M. Purcar</b> , V. Topa, C. Munteanu, R. Chereches, A. Avram, L. Grindei	Optimisation of the layer thickness distribution in electrochemical processes using the level set method, in IET SCIENCE MEASUREMENT & TECHNOLOGY, vol. 6, no. 5, pp. 376-385, 2012.	0.592	6	6.14
24	C. Munteanu, G. Mates, <b>M. Purcar</b> , V. Topa, I. Pop, L. Grindei, A. Racasan	Electromagnetic field model for the numerical computation of voltages induced on buried pipelines by high voltage overhead power lines, in EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol. 58, no. 3, 2012.	0.63	7	5.37
25	V. Topa, <b>M. Purcar</b> , A. Avram, C. Munteanu, R. Chereches, L. Grindei	Simulation of the electrode shape change in electrochemical machining based on the level set method, in EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol. 58, no. 1, 2012.	0.63	6	6.27
26	Vasile Topa, <b>Marius Purcar</b> , Calin Munteanu, Laura Grindei, Claudia Pacurar, Ovidiu Garvasiuc	Shape optimization approach based on the extended finite element method, in COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, vol. 31, no. 2, pp. 477-497, 2012.	0.44	6	5.63

27	Florin Muntean, Alexandru Avram, Johan Deconinck, <b>Marius Purcar</b> , Vasile Topa, Calin Munteanu, Laura Grindei, Ovidiu Garvasuc	Optimization of the Current Density Distribution in Electrochemical Reactors, in SCIENTIFIC COMPUTING IN ELECTRICAL ENGINEERING (SCEE 2010), vol. 16, pp. 163-172, 2012.	0	8	3.13
28	<b>M. Purcar</b> , V. Topa, C. Munteanu, A. Avram, L. Grindei, R. Chereches	Optimization of the current density distribution in electrochemical cells based on the level set method and genetic algorithm, in EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol. 56, no. 1, 2011.	0.63	6	6.27
29	Adina Racasan, Calin Munteanu, Vasile Topa, <b>Marius Purcar</b> , Laura Grindei	COMPUTATION OF THE POTENTIAL INDUCED ON THE FLUID TRANSPORT PIPELINES BY OVERHEAD HIGH VOLTAGE LINES, in ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol. 10, no. 4, pp. 505-510, 2011.	1.258	5	10.03
30	<b>Marius Purcar</b> , Vasile Topa, Calin Munteanu, Alexandru Avram, Robert Chreches	ELECTROCHEMICAL MACHINING SIMULATIONS BASED ON THE LEVEL SET METHOD, in QUALITY AND INNOVATION IN ENGINEERING AND MANAGEMENT, pp. 481-487, 2011.	0	5	5.00
31	C. Munteanu, I.T. Pop, G. Visan, V. Topa, A. Racasan, <b>M. Purcar</b>	Analysis of the power frequency electric field generated by high voltage substations, in 2010 Asia-Pacific Symposium on Electromagnetic Compatibility, APEMC 2010, pp. 707-710, 2010.	0	5	5.00
32	<b>Marius Purcar</b> , Andrei Dorochenko, Leslie Bortels, Johan Deconinck, den Van	Advanced CAD integrated approach for 3D electrochemical machining simulations, in JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol. 203, no. 1-3, pp. 58-71, 2008.	4.669	5	23.68
33	<b>M. Purcar</b> , J. Deconinck, den Van, L. Bortels	Electroforming simulations based on the level set method, in EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol. 39, no. 2, pp. 85-94, 2007.	0.63	4	9.40
34	L. Bortels, den Van, <b>M. Purcar</b> , A. Dorochenko, J. Deconinck	3D cathodic protection design of ship hulls, in Simulation of Electrochemical Processes II, vol. 54, pp. 103-112, 2007.	0	5	5.00
35	Calin Munteanu, Vasile Topa, Emil Simion, Gheorghe Mates, Laura Grindei, Mey, De, <b>Marius Purcar</b>	Optimisation of an alternating current multi-conductor system, in ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol. 30, no. 7, pp. 582-587, 2006.	1.437	7	7.68

36	K. Pantleon, den Van, <b>M. Purcar</b> , P. Bariani, G. Floridor	Simulation and experimental determination of the macro-scale layer thickness distribution of electrodeposited Cu-line patterns on a wafer substrate, in JOURNAL OF APPLIED ELECTROCHEMISTRY, vol. 35, no. 6, pp. 589-598, 2005.	2.384	5	14.54
37	G. Nelissen, den Van, <b>M. Purcar</b> , J. Deconinck, L. Bortels	Computer aided design (CAD) based optimisation of chromium plating processes for complex parts, in TRANSACTIONS OF THE INSTITUTE OF METAL FINISHING, vol. 82, pp. 133-136, 2004.	0.747	5	7.99
38	<b>M. Purcar</b> , L. Bortels, den Van, J. Deconinck	3D electrochemical machining computer simulations, in JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol. 149, no. 1-3, pp. 472-478, 2004.	4.669	4	29.60
39	L. Bortels, <b>M. Purcar</b> , den Van, J. Deconinck	A user-friendly simulation software tool for 3D ECM, in JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol. 149, no. 1-3, pp. 486-492, 2004.	4.669	4	29.60
40	<b>M. Purcar</b> , J. Deconinck, L. Bortels, C. Munteanu, E. Simion, V. Topa	A new approach for shape optimization of resistors with complex geometry, in COMPETE THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND ELECTRONIC ENGINEERING, vol. 23, no. 4, pp. 1062-1069, 2004.	0.44	6	5.63
41	<b>M. Purcar</b> , den Van, L. Bortels, J. Deconinck, G. Nelissen	Three-dimensional current density distribution simulations for a resistive patterned wafer, in JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol. 151, no. 9, pp. D78-D86, 2004.	3.721	5	19.88
42	<b>M. Purcar</b> , den Van, L. Bortels, J. Deconinck, P. Wesselius	Numerical 3-D simulation of a cathodic protection system for a buried pipe segment surrounded by a load relieving U-shaped vault, in CORROSION, vol. 59, no. 11, pp. 1019-1028, 2003.	2.908	5	16.63

390.18

## 2.2. Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale BDI \*\*\*)

\*\*\*) Bazele de date internaționale (BDI) luate în considerare pentru articolele publicate în reviste și în volumele unor manifestări științifice, cu excepția articolelor publicate în reviste/proceedings cotate WOS, sunt recunoscute pe plan științific internațional: Scopus, IEEE Xplore, Elsevier Science Direct, Engineering Village, Compendex, INSPEC, Springerlink, Cabi, EBSCO, CSA ILLUMINA/PROQUEST, Index Copernicus și Ulrich's;

Nr.	Autori	Titlu lucrare / Revista (Conferinta), vol. iss, pp.	Baza de date	Nr. Autori	Punctaj
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1	Conecici L.M.,Munteanu C., <b>Purcar I.M.</b> ,	Study of the shielding performances of different materials regarding Electromagnetic Field Interference, IOP Conference Series: Materials Science and Engineering, Vol. 200, Issue, 1, DOI: 10.1088/1757-899X/200/1/012045, ISSN 17578981.	Scopus	3	6.67
2	<b>M. Purcar</b> , V. Topa, A. Avram, R. Chereches	CAD/CAE integration of the 3D electrode shape change modeling for electrochemical processes, in Quality - Access to Success, vol. 13, no. SUPPL.5, pp. 519-524, 2012.	Scopus	4	5.00
3	C. Munteanu, V. Topa, G. Mates, <b>M. Purcar</b> , A. Racasan, I.T. Pop	Analysis of the electromagnetic interferences between overhead power lines and buried pipelines, in IEEE International Symposium on Electromagnetic Compatibility, 2012.	Scopus	6	3.33
4	C. Baete, L. Bortels, Den Van, <b>M. Purcar</b> , J.-M. Dewilde	CP system validation of offshore structures through modeling, in NACE - International Corrosion Conference Series, vol. 6, pp. 5131-5147, 2012.	Scopus	5	4.00
5	C. Munteanu, V. Topa, <b>M. Purcar</b> , L. Grindei, A. Racasan	Study of the electric field generated by the high voltage substations, in International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering - Proceedings, pp. 74-77, 2010.	Scopus	5	4.00
6	B. Van Den Bossche, M. Purcar, L. Bortels, A. Dorochenko, J. Deconinck	3D software simulations compared with experimental data for the interference between a cathodically protected underground storage tank (UST) and a concrete foundation, in NACE - International Corrosion Conference Series, pp. 076481-0764811, 2007.	Scopus	5	4.00
7	L. Bortels, B. Van Den Bossche, M. Purcar, A. Dorochenko, J. Deconinck	3D software simulations for cathodic protection in offshore and marine environments, in NACE - International Corrosion Conference Series, pp. 070851-0708511, 2007.	Scopus	5	4.00
8	B. VAN DEN BOSSCHE, <b>M. PURCAR</b>	Brevet de inventie international US 8221611 B2, "Device suitable for electrochemically processing an object as well as a method for manufacturing such a device, a method for electrochemically processing an object, using such a device, as well as an object formed by using such a method", 17 Jul 2012	Google Scholar	2	10.00

9	Petru Ilea, Marius Ioan Purcar, Sorin-Aurel Dorneanu, Alexandru Horațiu Marincaș	Enhancement of the mass transport by numerical simulation in an electrochemical reactor with concentric cylindrical electrodes. RSE-SEE 7 Split, Croatia, May 27-30, 2019.	Google Scholar	5	4.00
10	Vasile TOPA, <b>Marius PURCAR</b> , Laura GRINDEI, Calin MUNTEANU	OPTIMIZING THE LINEARITY RANGE OF A LVDT USING THE LEVEL SET METHOD. The 8th International Conference on Computation in Electromagnetics CEM 2011, 11-14 April 2011 Wroclaw, Poland, ISBN: 978-1-84919-468-6.	Google Scholar	4	5.00
11	Conecici-Lucian Madalin, Munteanu Calin, <b>Purcar Ioan Marius</b>	Numerical simulations of the electromagnetic field shielding performances for reducing the induced faults in the coils of a three-phase miniature circuit breaker, PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016), 9th International Conference and Exposition on Electrical and Power Engineering (EPE), OCT 20-22, 2016, Iasi, ROMANIA, ISSN: 2471-6855, ISBN: 978-1-5090-6128-0, 2016, pp. 097-101, WOS:000390706300080	IEEE Xplore	3	6.67
12	Conecici-Lucian Madalin, Munteanu Calin, <b>Purcar Ioan Marius</b>	Induced fault current simulation of a three phase miniature circuit breaker: Simulation of fault and comparison to tripping curve of the MCB, PROCEEDINGS OF THE 2016 INTERNATIONAL CONFERENCE AND EXPOSITION ON ELECTRICAL AND POWER ENGINEERING (EPE 2016), 9th International Conference and Exposition on Electrical and Power Engineering (EPE), OCT 20-22, 2016, Iasi, ROMANIA, ISSN: 2471-6855, ISBN: 978-1-5090-6128-0, 2016, pp. 092-096, WOS:000390706300080	IEEE Xplore	3	6.67
13	Florin Miron, <b>Marius Purcar</b> , Calin Munteanu	Numerical Computation of the Electromagnetic Field inside a High Voltage Substation. in Acta Electrotehnica, vol. 56, no. 4, 2015.	Google Scholar	3	6.67
14	Conecici-Lucian Madalin, Munteanu Calin, <b>Purcar Ioan Marius</b>	Numerical Simulation of a Miniature Circuit Breaker. Proceedings - 2015 International Conference on Modern Power Systems, MPS 2015.	IEEE Xplore	3	6.67
15	Robert Chereches, Vasile Topa, <b>Marius Purcar</b> , Laura Grindei, Alexandru Avram	State of the Art in the Optimal Design of Electromagnetic Devices, in Acta Electrotehnica, vol. 52, no. 4, 2011.	Google Scholar	5	4.00

16	Vasile Topa, Marius Purcar, Calin Munteanu, Laura Grindei, Alexandru Avram, Robert Chereches	Optimal Design of a Switched Reluctance Motor using the XFEM Method, in Acta Electrotehnica, vol. 52, no. 4, 2011.	Google Scholar	6	3.33
17	C Munteanu, L Grindei, C Pacurar, O Garvasuc, <b>M Purcar</b> , V Topa	Multi-Objective Optimization using a Strength Pareto Evolutionary Algorithm. Proceedings - 2010 International Conference on Modern Power Systems, MPS 2010.	Google Scholar	6	3.33
18	Calin MUNTEANU, Vasile Topa, Marius PURCAR, Laura GRINDEI, Adina RACASAN	Numerical Computation of the Induced Potential on Pipelines by Overhead Lines, in Acta Electrotehnica, vol. 51, no. 4, 2010	Google Scholar	5	4.00
19	<b>Marius Purcar</b> , Leslie Bortels	Design and optimization of pipeline cathodic protection systems, in Analele Universitatii din Oradea, Fascicula de Energetica, vol. 15, pp. 289-294-2009.	Google Scholar	2	10.00
20	Leslie BORTELS, Marius PURCAR	MANAGE PIPELINE INTEGRITY BY PREDICTING AND MITIGATING HIGH VOLTAGE AC INTERFERENCE, in Analele Universitatii din Oradea, Fascicula de Energetica, vol. 15, pp. 189-195-2009.	Google Scholar	2	10.00
21	M Purcar, C Munteanu, V Topa, L Grindei, A Racasan	Actual Stage of the Research Regarding the AC Interferences on Common Corridor. Acta electrotehnica 50 (4), 289-294, (2009).	Google Scholar	5	4.00
22	Vasile TOPA, Marius PURCAR, Calin MUNTEANU, Laura GRINDEI, Claudia PACURAR	Electrode Shape Change Simulation Technique based on the Extended Finite Element and Level Set Method, in Acta Electrotehnica, vol. 51, no. 4, 2009	Google Scholar	5	4.00
23	Catalin Curta, Marius Purcar, Vasile Topa, Johan Deconinck, Radu V Ciupa	Fast Marching Method for Unstructured Meshes. 1st International Conference on Advancements of Medicine and Health Care through Technology, MediTech2007, 27-29th September, 2007.	Google Scholar	5	4.00
24	Bart Van den Bossche, J Deconinck, Gert Nelissen, Marius Purcar	Benefits of modelling for the electroplating industry. 2006 SUR/FIN Proceedings <a href="http://www.nmfr.org/pdf/sf2006/sf0631.pdf">http://www.nmfr.org/pdf/sf2006/sf0631.pdf</a> .	Google Scholar	4	5.00
25	<b>M. Purcar</b>	Development and evaluation of numerical models and methods for electrochemical machining and electroforming applications, 2005.	Google Scholar	1	20.00



26	G. Nelissen, L. Bortels, M. Purcar, J. Deconinck	CAD based optimization of chromium plating processes for complex parts, in BULLETIN-CERCLE D ETUDES DES METAUX SAINT ETIENNE, vol. 17, pp. 13-13-2004.	Google Scholar	4	5.00
27	M. Purcar, G. Nelissen, J. Deconinck, L. Bortels, B. Van den Bossche	New Algorithm for Simulation of Electrode Shape Changes in Electrochemical Reactors, The 203rd Meeting of The Electrochemical Society, Symposium Z1, "Computational Chemistry", Paris, April 27-May 2, 2003 (ECS 2003).	Google Scholar	5	4.00
28	Marius PURCAR, Calin MUNTEANU, Alexandru AVRAM, Vasile TOPA	Modeling of the 3D Electrode Growth in Electroplating, snet2012 volume O2.04.	Google Scholar	4	5.00

162.33

### 2.3 Brevete de invenție indexate în alte baze de date

#### 2.3.1. internaționale

Nr.	Autori	Titlu lucrare, Brevet / Revista (Conferința), vol. issn, pp, an	Factor de impact	Nr. Autori	Punctaj
1	VAN DEN BOSSCHE, Bart Juil Wilhelmina; PURCAR, Marius Ioan	A DEVICE SUITABLE FOR ELECTROCHEMICALLY PROCESSING AN OBJECT AS WELL AS A METHOD FOR MANUFACTURING SUCH A DEVICE, A METHOD FOR ELECTROCHEMICALLY PROCESSING AN OBJECT, USING SUCH A DEVICE, AS WELL AS AN OBJECT FORMED BY USING SUCH A METHOD, Original document: EP2044242 (B1) — 2017-01-18		2	12.5

12.5

#### 2.3.2. naționale

Nr.	Autori	Titlu lucrare, Brevet / Revista (Conferința), vol. issn, pp, an	Factor de impact	Nr. Autori	Punctaj
1					0
2					0

0


### 2.4 Granturi/proiecte câștigate prin competiție națională/internațională

\*\*\*\*) Nu se consideră în această categorie proiectele/granturile POSDRU (POCU), POSCCE (POC), ERASMUS (ERASMUS PLUS), COMENIUS, bursele postdoctorale și alte proiecte similare care nu prezintă un caracter predominant de cercetare; se consideră numai proiectele/granturile relevante pentru profilul postului scos la concurs/domeniului de abilitare;

#### 2.4.1 Director/Responsabil proiect partener

##### 2.4.1.1 internaționale



Nr.	Membrii (excepție pers. proprie)	Denumire proiect, tip, cod, date identificare	Perioada	Nr. ani derulare	Punctaj
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1	Vasile Topa, Calin Munteanu, Marina Topa, Marius Neag, Cosmin Plesa, Raul Oneț, Ingrid Kovacs, Bianca Carbunescu, Luiza Dobre, Adrian Bojiță, Claudia Pacurar	H2020-ECSEL-2017-1-IA-TWO STAGE, Nr. 122386, POC-A1-A1.1.3-H/ 2019 "Integrated Development 4.0, iDev4.0", <a href="http://www.idev40.eu/">http://www.idev40.eu/</a> .	Mai 2018 – Aprilie 2021*	1.5	30	 DoveziDirectorGrant.p
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\*Contractul de finanțare din fonduri naționale s-a semnat doar la 26.11.2019

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#### 2.4.1.2 naționale

Nr.	Membrii (excepție pers. proprie)	Denumire proiect, tip, cod, date identificare	Perioada	Nr. ani derulare	Punctaj	
1	Vasile Topa, Calin Munteanu, Alexandru Avram, Marius Neag, Cosmin Plesa	Simulator multiscalar-multigrad al proceselor, electro-termo-mecanice din circuitele integrate de putere - 83BG / 2016, <a href="https://set4cip.utcluj.ro/">https://set4cip.utcluj.ro/</a>	Noiembrie 2016 - Noiembrie 2018	2	20	 DoveziDirectorGrant.p
2	Vasile Topa, Calin Munteanu, Laura Grindei, Albert Fazakas, C. Constantinescu, Adrian Bojita, Rodica Holonec, Romul Copindean, Florin Dragan, Levente Czumbil, Horatiu Vermesan, Ancuta Tiuc, Vasile Soporan, Petru Costel, Adrian Samuila, Mihai Bilici, Laur Calin, Laslo Rapolti	Tehnologii inovative pentru recuperarea avansată a materialelor din deșeuri de echipamente informatice și de telecomunicații 84PCCDI/2018, <a href="https://tradeit.utcluj.ro/">https://tradeit.utcluj.ro/</a>	Martie 2018 - Aprilie 2021	4	40	 DoveziDirectorGrant.p

60

#### 2.4.2 Membru în echipă

##### 2.4.2.1 internaționale

Nr.	Director, Membrii (excepție pers. proprie)	Denumire proiect, tip, cod, date identificare	Perioada	Nr. ani derulare	Punctaj
1	Emil Simion, Vasile Topa, Calin Munteanu, Laura Gridei	Dezvoltarea și implementarea metodelor numerice de analiză și proiectare optimă a dispozitivelor electromagnetice, BIL 96/174B0697	1997-2000	3	12
2	Vasile Topa, Calin Munteanu, Laura Gridei	Metode noi de analiză și software de simulare a efectelor interferenței electromagnetice dintre liniile de înaltă tensiune și conductele metalice subterane, BIL 37/2000.	2000-2003	3	12

3	Vasile Topa, Calin Munteanu, Laura Gridei	Predicția și supresia efectelor interferențelor electromagnetice AC induse de rețele trifazate de înaltă tensiune aflate în regim de avarie, BWS 02/05	2003-2005	2	8
4	Vasile Topa, Calin Munteanu, Laura Gridei	Dezvoltarea de noi tehnici numerice de analiza și implementarea acestora într-un pachet software destinat optimizării 3D a dispozitivelor electromagnetice și electrochimice – DESIGN, BWS 04/03	2004-2006	2	8
5	Johan Deconinck, Leslie Bortels, Bart Van Den Bossche, Gert Nelissen, Achim Van Temssche	Development and evaluation of industrial electrochemical reactors (DESINER) 2001-2003; FP5 BRPR-CT98-0800, <a href="https://cordis.europa.eu/project/rcn/46792/factsheet/en">https://cordis.europa.eu/project/rcn/46792/factsheet/en</a>	2001-2003	2	8
6	Johan Deconinck, Leslie Bortels, Bart Van Den Bossche, Gert Nelissen, Achim Van Temssche	Super precision electrochemical machining technology including recycling of useful materials (SPECTRUM); 2001-2004; FP5 G1RD-CT-2000-00421, <a href="https://cordis.europa.eu/project/rcn/54894/factsheet/en">https://cordis.europa.eu/project/rcn/54894/factsheet/en</a>	2001-2004	3	12
7	Johan Deconinck, Leslie Bortels, Bart Van Den Bossche, Gert Nelissen, Pedro Marcel, Telis Athanasiadis, Herman Deconinck	1. Novel multiscale approach to transport phenomena in electrochemical processes (MUTECH) 2005 -2007; SBO <a href="https://www.vki.ac.be/index.php/research-consulting-mainmenu-107/collaborative-projects/327-iwt-projects">https://www.vki.ac.be/index.php/research-consulting-mainmenu-107/collaborative-projects/327-iwt-projects</a> , <a href="https://cris.vub.be/en/projects/novel-multiscale-approach-to-transport-phenomena-in-electrochemical-processes-mutech(c82348fe-c511-4403-ba4f-f563d43e7d4f).html">https://cris.vub.be/en/projects/novel-multiscale-approach-to-transport-phenomena-in-electrochemical-processes-mutech(c82348fe-c511-4403-ba4f-f563d43e7d4f).html</a>	2005-2007	2	8

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## 2.4.2.2 naționale

Nr.	Director, Membrii (excepție pers. proprie)	Denumire proiect, tip, cod, date identificare	Perioada	Nr. ani derulare	Punctaj
1	Vasile Topa	Instrument de proiectare virtuala destinat modelarii suprafetelor deformabile a electrozilor in cursul proceselor electrochimice - PROGRAM IDEI 2538/2008	2008-2011	3	6
2	Calin Munteanu	Pachet software integrat de analiza și predicție a nivelului poluării electromagnetice produse de stații și linii din SEN asupra structurilor metalice vecine respectiv protecția catodică a acestora - PROGRAM IDEI 2539/2008	2008-2011	3	6

3	Calin Munteanu	PN-II-PT-PCCA-2013-4-1019. "Analiza cuplata interferente electromagnetice/vibratii pentru dezvoltarea de actuatore electrice dedicate aplicatiilor auto cu emisii reduse - Coupled electromagnetic interferences and vibration analysis for safe automotive electrical actuators", <a href="http://cemiva.utcluj.ro">http://cemiva.utcluj.ro</a>	2014-2017	3	6
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## 2.5 Contracte de cercetare/consultanță (valoare echivalentă de minimum 2 000 euro)

### 2.5.1 Director/Responsabil proiect partener

Nr.	Membrii (excepție pers. proprie)	Denumire proiect, tip, cod, date identificare, Beneficiar	Perioada	Nr. ani derulare	Punctaj
1					0
2					0

0

### 2.5.2 Membru echipă

Nr.	Membrii (excepție pers. proprie)	Denumire proiect, tip, cod, date identificare, Beneficiar	Perioada	Nr. ani derulare	Punctaj
1	Calin Munteanu	Studiul expunerii la câmp magnetic in zone rezidențiale din Mun. Cluj Napoca - contract nr. 19167 FDEE Electrica Distribuție Transilvania Nord – SDEE	2013-2014	1	2
2	Calin Munteanu	Studiu pilot a distribuției de câmp electromagnetic din incinta stațiilor electrice de transformare utilizând modelarea 3D a acestora - contract nr. 19166 FDEE Electrica Distribuție Transilvania Nord – SDEE	2013-2014	1	2

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Subsemnatul, conf.dr.ing. PURCAR Ioan Marius certific că toate datele sunt corecte, că alocarea pe tipuri de activități, categorii și subcategoriile este justificată, că punctajele sunt corecte și îmi asum acestea prin semnătură.

Data 21.09.2020

Nume, prenume PURCAR Ioan Marius

Semnătură

Coordonator consiliu programe doctorale Inginerie Electrică

Data \_\_\_\_\_

Nume, prenume Prof. dr. ing. SZABO Lorand

Semnătură

COMISIA DE INGINERIE ELECTRICĂ

Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare

Nr. Crt	Domeniul activităților	Tipul activităților	Categoriile și restricții	Subcategoriile	Indicatori (kpi)	Număr	Punctaj	
3	Recunoașterea și impactul activității (A3)	3.1 Citări în revistele WOS și volumele conferințelor WOS *****)	3.1.1 Profesor/CS I: minimum 10 citări		5 / nr. aut. art. citat	134	156.08	
			3.1.2 Conferențiar/CS II: minimum 7 citări					
		3.2 Citări în revistele BDI și volumele conferințelor BDI *****)	3.2.1 Profesor/CS I: minimum 20 citări		3 / nr. aut. art. citat	39	24.87	
			3.2.2 Conferențiar/CS II: minimum 10 citări					
		3.3 Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și Profesor invitat (exclusiv POS, ERASMUS)	Punctaj unic pentru fiecare activitate	3.3.1 internaționale	20	0	0	
				3.3.2 naționale	5	0	0	
		3.4 Membru în colective de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale (punctajul se acordă pentru fiecare revistă, manifestare științifică și recenzie)		3.4.1 WOS	10	8	80	
				3.4.2 BDI	6	2	12	
				3.4.3 Naționale și internaționale neindexate	3	0	0	
		3.5 Referent în comisii de doctorat		3.5.1 internaționale	10	0	0	
				3.5.2 naționale	5	0	0	
		3.6 Premii		Academia Română	30	0	0	
				ASAS, AOSR, academii de ramură și CNCS	15	0	0	
				premier internaționale	10	1	10	
				premier naționale în domeniu	5	0	0	
		3.7 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării		3.7.1 Academia Română		100	0	0
				3.7.2 ASAS, AOSR și academii de ramură		30	0	0
3.7.3 Conducere asociații profesionale	internaționale			30	0	0		
	naționale			10	0	0		
3.7.4 Asociații profesionale	internaționale			5	1	5		
	naționale			2	1	2		
3.7.5 Consilii și organizații în domeniul educației și cercetării		conducere	15	0	0			
		membru	10	0	0			
<b>TOTAL</b>							<b>289.95</b>	

### 3.1 Citări în revistele WOS și volumele conferințelor WOS \*\*\*\*\*)

\*\*\*\*\*) Autocitățile sunt excluse (se consideră autocitare existența unui autor/coautor comun între lucrarea citată și lucrarea care citează) .

Nr.	Articol citat	Articol care citează	Număr autori art. citat	Punctaj
1	Vermesan, Horatiu; Tiuc, Ancuta Elena; <b>Purcar, Marius</b> . Advanced recovery techniques for waste materials from it and telecommunication equipment printed circuit boards. Sustainability 2020, 12(1), 74; <a href="https://doi.org/10.3390/su12010074">https://doi.org/10.3390/su12010074</a>	Ambaye, TG; Vaccari, M; Castro, FD; Prasad, S; Rtimi, S. Emerging technologies for the recovery of rare earth elements (REEs) from the end-of-life electronic wastes: a review on progress, challenges, and perspectives. ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, DOI: 10.1007/s11356-020-09630-2.	3	1.67
2		Mandadi, Gopi K.; Asmatulu, R; Khan, W. S.; Asmatulu, E.; Fast and affordable recycling approach to electronic waste above the melting point using induction heat combined with centrifugal forces. ASIA-PACIFIC JOURNAL OF CHEMICAL ENGINEERING, Article Number: e2483, DOI: 10.1002/apj.2483.	3	1.67
3		Alessandro Becci, Dafina Karaj, Giulia Merli and Francesca Beolchini. Biotechnology for Metal Recovery from End-of-Life Printed Circuit Boards with <i>Aspergillus niger</i> . Sustainability 2020, 12(16), 6482; <a href="https://doi.org/10.3390/su12166482">https://doi.org/10.3390/su12166482</a> .	3	1.67
4		Matteo Mazzarano. Estimating total potential material recovery from EEE in EU28, Resources Policy, Volume 68, 2020, 101785. <a href="https://doi.org/10.1016/j.resourpol.2020.101785">https://doi.org/10.1016/j.resourpol.2020.101785</a>	3	1.67
5	<b>Purcar, M</b> ; Bortels, L; Van den Bossche, B; et al., "3D electrochemical machining computer simulations", JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, Volume: 149, Issue: 1-3, Pages: 472-478 Published: JUN 10 2004, 10.1016/j.jmatprotec.2003.10.050, WOS:000222532800077.	W Cao, D Wang, D Zhu. "Modeling and experimental validation of interelectrode gap in counter-rotating electrochemical machining", International Journal of Mechanical Sciences Volume 187, 1 December 2020, <a href="https://doi.org/10.1016/j.ijmecsci.2020.105920">https://doi.org/10.1016/j.ijmecsci.2020.105920</a>	4	1.25

6		Zhitnikov, V. P.; Sherykhalina, N. M.; Porechny, S. S.; et al. MODELLING OF THE AXISYMMETRIC PRECISION ELECTROCHEMICAL SHAPING. BULLETIN OF THE SOUTH URAL STATE UNIVERSITY SERIES-MATHEMATICAL MODELLING PROGRAMMING & COMPUTER SOFTWARE Volume: 13 Issue: 1 Pages: 39-51 Published: FEB 2020. DOI: 10.14529/mmp200103	4	1.25
7		Patel, Divyansh Singh; Agrawal, Vishal; Ramkumar, J.; et al. Micro-texturing on free-form surfaces using flexible-electrode through-mask electrochemical micromachining. JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, Volume: 282, Article Number: 116644 Published: AUG 2020. DOI: 10.1016/j.jmatprotec.2020.116644	4	1.25
8		He, Bin; Wang, Dengyong; Zhu, Zengwei; et al. Research on counter-rotating electrochemical machining of convex structures with different heights. INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY Volume: 104 Issue: 5-8 Pages: 3119-3127 Published: OCT 2019. DOI: 10.1007/s00170-019-04214-y	4	1.25
9		Sharma, Vyom; Srivastava, Ishan; Jain, V. K.; et al. Modelling of Wire Electrochemical Micromachining (Wire-ECMM) process for anode shape prediction using finite element method. ELECTROCHIMICA ACTA, Volume: 312 Pages: 329-341, Published AUG 2019. DOI: 10.1016/j.electacta.2019.04.165		
10		Zhengyang XU, Yudi WANG. "Electrochemical machining of complex components of aero-engines: Developments, trends, and technological advances", Chinese Journal of Aeronautics Available online 11 October 2019, <a href="https://doi.org/10.1016/j.cja.2019.09.016">https://doi.org/10.1016/j.cja.2019.09.016</a>	4	1.25

11	V Sharma, I Srivastava, VK Jain, J Ramkumar. "Modelling of wire electrochemical micromachining (wire-ECMM) process for anode shape prediction using finite element method", Electrochimica Acta Volume 312, 20 July 2019, Pages 329-341, <a href="https://doi.org/10.1016/j.electacta.2019.04.165">https://doi.org/10.1016/j.electacta.2019.04.165</a>	4	1.25
12	Guo, C., J. Qian, and D. Reynaerts. 2018. "A Three-Dimensional FEM Model of Channel Machining by Scanning Micro Electrochemical Flow Cell and Jet Electrochemical Machining." Precision Engineering 52: 507-519. doi:10.1016/j.precisioneng.2018.02.002.	4	1.25
13	Gomez-Gallegos, A., F. Mill, A. R. Mount, S. Duffield, and A. Sherlock. 2018. "3D Multiphysics Model for the Simulation of Electrochemical Machining of Stainless Steel (SS316)." International Journal of Advanced Manufacturing Technology 95 (5-8): 2959-2972. doi:10.1007/s00170-017-1344-4.	4	1.25
14	Liu, W., S. Ao, Y. Li, Z. Liu, Z. Luo, Z. Wang, and R. Song. 2017. "Modeling and Fabrication of Microhole by Electrochemical Micromachining using Retracted Tip Tool." Precision Engineering 50: 77-84. doi:10.1016/j.precisioneng.2017.04.015.	4	1.25
15	Demirtas, H., O. Yilmaz, and B. Kanber. 2017. "A Simplified Mathematical Model Development for the Design of Free-Form Cathode Surface in Electrochemical Machining." Machining Science and Technology 21 (1): 157-173. doi:10.1080/10910344.2016.1275192.	4	1.25
16	Petrov, A. G. and S. V. Sanduleanu. 2016. "Simulation of Electrochemical Machining using the Boundary Element Method with no Saturation." Computational Mathematics and Mathematical Physics 56 (10): 1793-1802. doi:10.1134/S0965542516100134.	4	1.25



17		Zhitnikov, V. P., N. M. Sherykhalina, and A. A. Zaripov. 2016. "Modelling of Precision Steady-State and Non-Steady-State Electrochemical Machining by Wire Electrode-Tool." Journal of Materials Processing Technology 235: 49-54. doi:10.1016/j.jmatprotec.2016.03.011.	4	1.25
18		Jia, J., J. Liu, Y. Wang, and J. Shen. 2016. "Flow Field in Electrochemical Machining for Turn-Table Working Teeth Cathode." Journal of the Balkan Tribological Association 22 (4-II): 4341-4356.	4	1.25
19		Wan, N., K. Du, J. Gao, and T. Chen. 2015. "Electrochemical Machining Analysis of Aero-Engine Blade Based on Isogeometric Method." Zhongguo Jixie Gongcheng/China Mechanical Engineering 26 (10): 1368-1373. doi:10.3969/j.issn.1004-132X.2015.10.016.	4	1.25
20		Tang, L.; Yang, F.; Zhu, Q. L.; Gan, W. M., "Electrochemical machining flow field simulation and experimental verification for irregular vortex paths of a closed integer impeller", INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, MAR 2016, Volume 83, Issue 1-4, Page: 275-283, DOI: 10.1007/s00170-015-7475-6	4	1.25
21		Volgin, Vladimir M.; Lyubimov, Victor V.; Davydov, Alexey D., "Modeling and numerical simulation of electrochemical micromachining", CHEMICAL ENGINEERING SCIENCE, FEB 2 2016, Volume 140, Page: 252-260, DOI: 10.1016/j.ces.2015.09.034	4	1.25
22		Ghoshal, B.; Bhattacharyya, B., "Investigation on profile of microchannel generated by electrochemical micromachining", JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, AUG 2015, Volume 222, Page: 410-421, 10.1016/j.jmatprotec.2015.03.025	4	1.25

23		Wan, Neng; Du, Ke; Mo, Rong; Chen, Tao, "The Electrochemical Machining Analysis of Aeroengine Blade Based on Isogeometric Method", ADVANCES IN MECHANICAL ENGINEERING, FEB 2015, Volume 7, Issue 2, DOI: 10.1155/2014/893565	4	1.25
24		Zhu, Zengwei; Wang, Dengyong; Bao, Jun; Zhu, Di, "PROCESS SIMULATION OF ELECTROCHEMICAL MACHINING OF CONVEXITY STRUCTURE ON REVOLVING WORKPIECE:, PROCEEDINGS OF THE ASME 10TH INTERNATIONAL MANUFACTURING SCIENCE AND ENGINEERING CONFERENCE 2015, VOL 1, 2015	4	1.25
25		Hackert-Oschaetzchen, Matthias; Paul, Raphael; Kowalick, Michael; Martin, Andre; Meichsner, Gunnar; Schubert, Andreas, "Multiphysics Simulation of the Material Removal in Jet Electrochemical Machining", 15TH CIRP CONFERENCE ON MODELLING OF MACHINING OPERATIONS (15TH CMMO) 2015, Vol 31, Page: 197-202, DOI: 10.1016/j.procir.2015.03.098	4	1.25
26		Volgin, VM; Lyubimov, VV; Kukhar, VD; Davydov, AD, "Modeling of wire electrochemical micromachining", CIRPE 2015- UNDERSTANDING THE LIFE CYCLE IMPLICATIONS OF MANUFACTURING, ISSN: 2212-8271, 2015, Vol. 37, pp. 176-181, DOI: 10.1016/j.procir.2015.08.098, WOS:000381016800031	4	1.25
27		Wang, DY; Zhu, ZW; Wang, HR; Zhu D, "Convex shaping process simulation during counter-rotating electrochemical machining by using the finite element method", CHINESE JOURNAL OF AERONAUTICS, ISSN: 1000-9361, APR 2016, Vol. 29, Issue 2, pp. 534-541, DOI: 10.1016/j.cja.2015.06.022, WOS:000375861300023	4	1.25

28		Tang, L; Yang, F; Zhu, QL; Gan, WM, "Electrochemical machining flow field simulation and experimental verification for irregular vortex paths of a closed integer impeller", INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, ISSN: 0268-3768, EISSN: 1433-3015, MAR 2016, Vol., 83, pp. 275-283, DOI: 0.1007/s00170-015-7475-6, WOS:000371180800026	4	1.25
29		Nayak, AA; Gangopadhyay, S; Sahoo, DK, "Modelling, simulation and experimental investigation for generating 'I' shaped contour on Inconel 825 using electro chemical machining", JOURNAL OF MANUFACTURING PROCESSES, ISSN: 1526-6125, AUG 2016, Vol.23, pp. 269-277, DOI: 10.1016/j.jmapro.2016.05.001, WOS:000381838100030	4	1.25
30		Wang, MH; Liu, WS; Peng, W; "Multiphysics research in electrochemical machining of internal spiral hole" INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Volume: 74 Issue: 5-8 Pages: 749-756 Published: SEP 2014, 10.1007/s00170-014-5938-9, WOS:000342486300017.	4	1.25
31		Tang, L.; Gan, W. M.; "Utilization of flow field simulations for cathode design in electrochemical machining of aerospace engine blisk channels " INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY Volume: 72 Issue: 9-12 Pages: 1759-1766, Published: JUN 2014, 10.1007/s00170-014-5814-7, WOS:000336405000050.	4	1.25
32		Tang, L.; Gan, W. M. "Experiment and simulation study on concentrated magnetic field-assisted ECM S-03 special stainless steel complex cavity" INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Volume: 72 Issue: 5-8 Pages: 685-692 Published: MAY 2014, 10.1007/s00170-014-5701-2, WOS:000336052400011.	4	1.25

33		Lu, JM; Riedl, G; Kiniger, B; Werner, EA; "Three-dimensional tool design for steady-state electrochemical machining by continuous adjoint-based shape optimization ", CHEMICAL ENGINEERING SCIENCE, Volume: 106, Pages: 198-210, Published: MAR 17 2014, 10.1016/j.ces.2013.11.040, WOS:000329458200020.	4	1.25
34		Spieser, Alexandre; Ivanov, Atanas; "Recent developments and research challenges in electrochemical micromachining (A mu ECM) ", INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Volume: 69 Issue: 1-4 Pages: 563-581 Published: OCT 2013, 10.1007/s00170-013-5024-8, WOS:000326112900050.	4	1.25
35		Rataj, K. P.; Hammer, C.; Walther, B.; "Quantified oxygen evolution at microelectrodes ", ELECTROCHIMICA ACTA, Volume: 90, Pages: 12-16, Published: FEB 15 2013, 10.1016/j.electacta.2012.12.009, WOS:000316037600002.	4	1.25
36		Wei, Zefei; Xu, Wenji; Tao, Bin; "Crown Shaping Technique of Bearing Raceway by Electrochemical Mechanical Machining", INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, Volume: 8, Issue: 2, Pages: 2238-2253, Published: FEB 2013, WOS:000316565800060.	4	1.25
37		Hung, Jung-Chou; Chang, Chen-Hui; Chiu, Kuan-Chih; "Simulation-based fabrication of micro-helical grooves in a hydrodynamic thrust bearing by using ECMM", INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, Volume: 64, Issue: 5-8, Pages: 813-820, Published: FEB 2013,, 10.1007/s00170-012-4062-y, WOS:000314037300019.	4	1.25

38		Mathew, Ronnie; Sundaram, Murali M.; "Modeling and fabrication of micro tools by pulsed electrochemical machining" JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, Volume: 212, Issue: 7, Pages: 1567-1572, Published: JUL 2012, 10.1016/j.jmatprotec.2012.03.004, WOS:000304020800014.	4	1.25
39		Rao, R. Venkata; "Modeling and Optimization of Modern Machining Processes" Book Author(s): Rao, RV, ADVANCED MODELING AND OPTIMIZATION OF MANUFACTURING PROCESSES: INTERNATIONAL RESEARCH AND DEVELOPMENT, Book Series: Springer Series in Advanced Manufacturing, Pages: 177-284, Published: 2011, 10.1007/978-0-85729-015-1_3, 10.1007/978-0-85729-015-1, WOS:000285945200003.	4	1.25
40		Chang, Dar-Yuan; Shen, Ping-Chen; Hung, Jung-Chou; et al.; "Process Simulation-Assisted Fabricating Micro-Herringbone Grooves for a Hydrodynamic Bearing in Electrochemical Micromachining", MATERIALS AND MANUFACTURING PROCESSES, Volume: 26, Issue: 12, Pages: 1451-1458, Published: 2011, 10.1080/10426914.2011.551905, WOS:000299611300002.	4	1.25
41		Smets, N.; Van Damme, S.; De Wilde, D.; et al. "Time averaged calculations in pulse electrochemical machining, using a strongly non-linear model", JOURNAL OF APPLIED ELECTROCHEMISTRY, Volume: 40, Issue: 7, Pages: 1395-1405, Published: JUL 2010, 10.1007/s10800-010-0116-8, WOS:000277958400013.	4	1.25

42		<p>Pattavanitch, J.; Hinduja, S.; Atkinson, J. "Modelling of the electrochemical machining process by the boundary element method", Conference: 60th General Assembly of CIRP Location: Pisa, ITALY Date: AUG 22-28, 2010, CIRP ANNALS-MANUFACTURING TECHNOLOGY, Volume: 59, Issue: 1, Pages: 243-246, Published: 2010, 10.1016/j.cirp.2010.03.072, WOS:000280115100059.</p>	4	1.25
43		<p>Li, Zhiyong; Ji, Hua; "The Effects of Normal Gap Distribution on Cathode Design of Aero-engine blades in Electrochemical Machining", Conference: International Conference on Manufacturing Science and Engineering (ICMSE 2009) Location: Zhuhai, PEOPLES R CHINA Date: DEC 26-28, 2009, MANUFACTURING SCIENCE AND ENGINEERING, PTS 1-5 Book Series: Advanced Materials Research, Volume: 97-101, Pages: 3583-3586, Part: 1-5, Published: 2010, 10.4028/www.scientific.net/AMR.97-101.3583, WOS:000279864701380.</p>	4	1.25
44		<p>Lei, Wang "CAD/CAE System for Shaping Process of Three Dimensional Complicated Surfaces in Electrochemical Machining", Conference: International Conference on Manufacturing Science and Engineering (ICMSE 2009) Location: Zhuhai, PEOPLES R CHINA Date: DEC 26-28, 2009, MANUFACTURING SCIENCE AND ENGINEERING, PTS 1-5, Book Series: Advanced Materials Research, Volume: 97-101, Pages: 4061-4065, Part: 1-5, Published: 2010, 10.4028/www..scientific.net/AMR.97-101.4061, WOS:000279864702098.</p>	4	1.25
45		<p>Zhitnikov, V. P.; Zinnatullilna, O. R.; Porechnyi, S. S.; et al. "Determining the limiting solutions of nonstationary axisymmetric Hele-Shaw problems", JOURNAL OF APPLIED MECHANICS AND TECHNICAL PHYSICS, Volume: 50, Issue: 4, Pages: 617-627, Published: JUL 2009, 10.1007/s10808-009-0083-1, WOS:000268068400011.</p>	4	1.25

46		Wang, M.H. , Zhu, D., "Simulation of fabrication for gas turbine blade turbulated cooling hole in ECM based on FEM", Journal of Materials Processing Technology, Volume 209, Issue 4, 19 February 2009, Pages 1747-1751.	4	1.25
47		Fujisawa, Toshiaki; Inaba, Kazuaki; Yamamoto, Makoto; et al. "Multiphysics simulation of electrochemical machining process for three-dimensional compressor blade", Conference: 5th Joint ASME/JSME Fluids Engineering Summer Conference Location: San Diego, CA Date: JUL 30-AUG 02, 2007, JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, Volume: 130, Issue: 8, Article Number: 081602, Published: AUG 2008, 10.1115/1.2956596, WOS:000258171600010.	4	1.25
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**3.2 Citări în revistele BDI și volumele conferințelor BDI \*\*\*\*\*)**

\*\*\*\*\*) Autocitățile sunt excluse (se consideră autocitare existența unui autor/coautor comun între lucrarea citată și lucrarea care citează) .

Nr.	Articol citat	Articol care citează	Număr autori art.citat	Punctaj
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				24.87142857

### 3.3 Prezentări invitate în plenul unor manifestări științifice naționale și internaționale și profesor invitat (exclusiv POS, ERASMUS)

#### 3.3.1 internaționale





Nr.	Anul desfășurării	Manifestare / Invitație, locație, lucrare, tema	Dovada	Punctaj
1				0
2				0
				0





#### 3.3.2 naționale

Nr.	Anul desfășurării	Manifestare / Invitație, locație, lucrare, tema	Dovada	Punctaj
1				0
2				0
				0

### 3.4 Membru în colectivele de redacție sau comitete științifice ale revistelor și manifestărilor științifice, organizator de manifestări științifice, recenzor pentru reviste și manifestări științifice naționale și internaționale (punctajul se acordă pentru fiecare revistă, manifestare științifică și recenzie)

#### 3.4.1 WOS

Nr.	Calitate (membru colectiv/comitet sau recenzor)	Revistă/manifestare. ISSN	anul	Dovada	Punctaj
1	recenzor	IET Science, Measurement & Technology ISSN 1751-8822	2014	 Response to invitation to review SMT-2014-0114.pdf	10
2	recenzor	Environmental Engineering and Management Journal ISSN 1843-3707 eISSN 1582-9596	2015	 Referee_comments_EEMJ.pdf	10
3	recenzor	International Journal of Computer Mathematics ISSN:0020-7160 EISSN:1029-0265	2015	 Manuscript D.GCOM-2014-1112-8 for International Journal of Computer Mathematics.pdf	10
4	recenzor	International Communications in Heat and Mass Transfer ISSN: 0735-1933	2016	 assessment form review heat and Mass Transfer.pdf	10

5	recenzor	IET Science, Measurement & Technology ISSN 1751-8822	2018	 Thank you from Review_SMT-2017-0580.pdf	10
6	recenzor	JOURNAL OF SOLID STATE ELECTROCHEMISTRY <a href="https://link.springer.com/journal/10008">https://link.springer.com/journal/10008</a>	2018	 [Extern]JSEL_Thank you for the review of JSEL-D-18-00732R1.pdf	10
7	recenzor	<a href="https://www.journals.elsevier.com/electrochimica-acta">https://www.journals.elsevier.com/electrochimica-acta</a>	2018	 a4b31f64-42e3-440f-8212-df1ec0de11ae_0013-4686-recognizedAward-2.pdf	10
8	recenzor	IET Science, Measurement & Technology ISSN 1751-8822	2018	 Thank you from IET Science, Measurement & Technology.pdf	10

80

## 3.4.2 BDI

Nr.	Calitate (membru colectiv/comitet sau recenzor)	Revistă/manifestare. ISSN	anul	Dovada	Punctaj
1	organizator/ recenzor	International Conference on Modern Power Systems	2017	<a href="https://et.utcluj.ro/mps/committees.html">https://et.utcluj.ro/mps/committees.html</a>	6
2	organizator/ recenzor	International Conference on Modern Power Systems	2019	<a href="https://et.utcluj.ro/mps/committees.html">https://et.utcluj.ro/mps/committees.html</a>	6

12

## 3.4.3 Naționale și internaționale neindexate

Nr.	Calitate (membru colectiv/comitet sau recenzor)	Revistă/manifestare. ISSN	anul	Dovada	Punctaj
1					0
2					0

0

## 3.5 Referent în comisii de doctorat

## 3.5.1 internaționale

Nr.	Anul	Comisia	Dovada	Punctaj
1				0
2				0

0

## 3.5.2 naționale

Nr.	Anul	Comisia	Dovada	Punctaj
1				0
2				0

0

## 3.6 Premii

## Academia Română

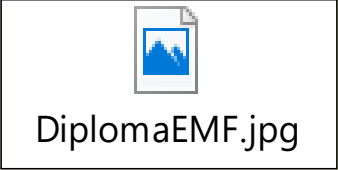
Nr.	Anul	Premiul	Dovada	Punctaj
1				0
2				0

0

ASAS, AOSR, academii de ramură și CNCS

Nr.	Anul	Premiul	Dovada	Punctaj
1				0
2				0
				0

#### Premii internaționale

Nr.	Anul	Premiul	Dovada	Punctaj
1	2003	Premiul I pentru cea mai bună lucrare prezentată în sesiunile de postere din cadrul The Sixth International Symposium on Electric and Magnetic Fields, Aachen Germania, 6-9 octombrie 2003, cu lucrarea "A New Approach for Shape Optimization of Resistors with Complex Geometry"		10
				10

#### Premii naționale în domeniu

Nr.	Anul	Premiul	Dovada	Punctaj
1				0
2				0
				0

### 3.7 Membru în academii, organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării

#### 3.7.1 Academia Română

Nr.	Din anul	Dovada	Punctaj
1			0
			0

#### 3.7.2 ASAS, AOSR și academii de ramură

Nr.	Apartenența	Dovada	Punctaj
1			0
2			0
			0

#### 3.7.3 Conducere asociații profesionale internaționale

Nr.	Asociația	Dovada	Punctaj
1			0
2			0
			0

#### naționale

Nr.	Asociația	Dovada	Punctaj
1			0
2			0
			0

#### 3.7.4 Asociații profesionale internaționale

Nr.	Asociația	Dovada	Punctaj
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1	IEEE	<a href="http://www.ieee.org">94384570</a>	5
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5

naționale

Nr.	Asociatia	Dovada	Punctaj
1	CIGRE	<a href="http://www.cigre.org.ro/index.php/membri/membri-seniori">http://www.cigre.org.ro/index.php/membri/membri-seniori</a>	2

2

3.7.5 Consilii și organizații în domeniul educației și cercetării  
conducere

Nr.	Asociatia	Dovada	Punctaj
1			0
2			0

0

membru

Nr.	Asociatia	Dovada	Punctaj
1			0
2			0

0

Subsemnatul, conf.dr.ing. PURCAR Ioan Marius certific că toate datele sunt corecte, că alocarea pe tipuri de activități, categorii și subcategorii este justificată, că punctajele sunt corecte și îmi asum acestea prin semnătură.

Data 21.09.2020

Nume, prenume PURCAR Ioan Marius

Semnătură

Coordonator consiliu programe doctorale Inginerie Electrică

Data \_\_\_\_\_

Nume, prenume Prof. dr. ing. SZABO Lorand

Semnătură