



Anexa nr. 1

Domnule Decan,

Subsemnatul, Dragoș-George ASTANEI, cadru didactic al Universității Tehnice „Gheorghe Asachi” din Iași cu funcția actuală de conferențiar universitar, în cadrul Departamentului de Energetică, Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată, solicit, prin prezenta, înscrierea la concursul pentru acordarea gradației de merit pentru perioada 2025 - 2030, conform Procedurii privind acordarea gradațiilor de merit pentru personalul didactic titular din cadrul Universității Tehnice „Georghe Asahi” din Iasi, PO.DID.11

Data,

15.10.2025

Semnătura,

RAPORT DE AUTOEVALUARE A ACTIVITĂȚII PENTRU ANII 2020 – 2024

Numele și prenumele: **Astanei Dragoș-George**

Funcția didactică: **conferențiar universitar**

Facultatea/ Departamentul: **Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată / Departamentul de Energetică**

Activitatea întreprinsă în perioada de referință, 2020-2024 a condus la îndeplinirea standardelor minimale pentru fiecare dintre cele 5 criterii evaluate conform Procedurii de evaluare a cadrelor didactice de către structurile de management TUIASI.POB.12.

Criteriul 1. Activitatea didactică

Activitatea didactică s-a concentrat în special pe elaborarea de materiale didactice dedicate atât studenților înmatriculați la studii de licență, cât și celor înmatriculați la studii de master. Am elaborat/contribuit la elaborarea de seturi de prezentări în format Power Point, suporturi de curs și îndrumare de laborator în format electronic cât și publicate în editură: Dragoș Astanei, Radu Burlică, „Tehnici de comutație – note de curs”, Editura PIM, ISBN: 978-606-13-7147-1, 230 pag, Iași, 2022, Dragoș Astanei, Radu Burlică, „Tehnici de comutație – aplicații”, Editura PIM, ISBN: 978-606-13-7148-8, 146 pag, Iași, 2022.

În perioada de referință am contribuit la dezvoltarea bazei materiale prin realizarea unui număr de 21 de lucrări noi de laborator cu stand experimental. De asemenea, am contribuit la achiziția de noi echipamente sau tehnică de calcul prin intermediul proiectelor pe care le-am coordonat în calitate de director de proiect / responsabil de temă, în valoare de peste 165.000 lei.

Punctajele anuale obținute pentru perioada 2024-2025 la *Criteriul 1 – Activitatea didactică*, conform fișelor de autoevaluare anuale, sunt prezentate în tabelul de mai jos:

Criteriu / an	2020	2021	2022	2023	2024	Total	Punctaj mediu
C1	247,01	1041,73	1179,79	1204,83	1154,85	4828,21	965,64

Criteriul 2. Activitatea de cercetare științifică

Activitatea de cercetare s-a materializat prin publicarea în calitate de autor/co-autor de cărți de specialitate și de articole în cadrul unor reviste științifice de tip peer-review cât și în volumele de lucrări ale conferințelor BDI. Astfel, în perioada de referință, 2020-2024, au fost raportate 2 cărți de specialitate (dintre care una în editură internațională), 15 articole publicate în jurnale cu factor de impact (dintre care 12 indexate Q1 și Q2), 1 articol în revistă BDI și 19 articole publicate în volumele conferințelor indexate BDI.

Am obținut două brevete de invenție, dintre care 1 brevet european și unul național și am contribuit la depunerea unor 3 noi cereri de brevet naționale.

Am participat la implementarea a 6 proiecte de cercetare naționale / internaționale dintre care 2 proiecte internaționale le-am coordonat în calitate de director de proiect iar într-un proiect național am avut calitatea de responsabil de temă. De asemenea, am coordonat pentru o perioadă de 2 ani un proiect de tipul ROSE – Școală de vară și am participat la scrierea unui proiect PEO de tipul Primul student din familie, proiect pe care îl coordonez în prezent.

O pondere importantă în punctajul obținut la *Criteriul 2 - Activitatea de cercetare științifică* îl reprezintă citările lucrărilor publicate, în fișa de autoevaluare aferentă anului 2024 fiind raportate 230 de citări, dintre care 166 fiind în reviste ISI.

Punctajele anuale obținute pentru perioada 2024-2025 la *Criteriul 2 – Activitatea de cercetare științifică*, conform fișelor de autoevaluare anuale, sunt prezentate în tabelul de mai jos:

Criteriu / an	2020	2021	2022	2023	2024	Total	Punctaj mediu
C2	722,93	2666,95	1904,11	1328,8	1911,89	8534,68	1706,93

Criteriul 3. Recunoașterea națională și internațională

Punctajul obținut pentru *Criteriul 3 – Recunoașterea națională și internațională* se datorează în principal activităților desfășurate în calitate de membru al unor societăți științifice, membru în comisii de îndrumare de doctorat și pentru susținerea publică a unor teze de doctorat, membru în comisii de concurs pentru posturi didactice universitare, activitatea de evaluare a unor proiecte, activitatea de recenzare a unor lucrări științifice în principal la nivelul unor reviste internaționale cu factor de impact sau pentru conferințe internaționale, precum și în calitate de membru al comitetului de organizare a unor evenimente științifice internaționale.

O contribuție importantă la punctajul obținut o reprezintă premiile obținute în perioada de referință: Premiul TUIASI de excelență în cercetarea științifică în anul 2023 - Premiul pentru cele mai bune performante în inovare și transfer tehnologic, Premiul TUIASI de excelență în cercetarea științifică în anul 2023 - Premiul pentru grupul care a contribuit la atragerea celor mai multe fonduri publice pentru cercetarea științifică – coordonator grup Prof. Radu Burlică, Medalia de Aur la ediția a 16-a EUROINVENT, 6 articole premiate în competițiile UEFISCDI.

De asemenea, am realizat 3 stagii (două stagii de 2 săptămâni și unul de 1 lună) în calitate de Profesor invitat pentru prelegeri la Universitatea din Orleans, Orleans, Franța și un stagiul Erasmus de 5 zile.

Punctajele anuale obținute pentru perioada 2024-2025 la *Criteriul 3 – Recunoașterea națională și internațională*, conform fișelor de autoevaluare anuale, sunt prezentate în tabelul de mai jos:

Criteriu / an	2020	2021	2022	2023	2024	Total	Punctaj mediu
C3	160	186	99	305	179	929	185,8

Criteriul 4. Activitatea cu studenții

Punctajul pentru această activitate s-a datorat în principal activității întreprinse în calitate de îndrumător al lucrărilor de licență și/sau disertație pentru studenți înmatriculați la nivel de licență și/sau master, îndrumător de an pentru câte o grupă de studenți la licență anual, îndrumarea studenților în vederea participării la cercurile studențești, și pentru activitatea de prezentare a ofertei educaționale a universității în licee.

Punctajele anuale obținute pentru perioada 2024-2025 la *Criteriul 4 – Activitatea cu studenții*, conform fișelor de autoevaluare anuale, sunt prezentate în tabelul de mai jos:

Criteriu / an	2020	2021	2022	2023	2024	Total	Punctaj mediu
C4	24	48,5	40,5	34,5	53	200,5	40,1

Criteriul 5. Activitatea în comunitatea academică

Punctajul obținut în cadrul acestui criteriu se datorează participării la mese rotunde/dezbateri organizate la nivelul facultății/ universității și/sau la nivelul unor universități partenere din străinătate dar și activității în comisii la nivel de departament/facultate/universitate: membru în Consiliul Departamentului de Energetică, membru în Consiliul Facultății IEEIA, membru în Consiliul Tehnico-

Economic al TUIASI, membru în Comisia TUIASI pentru Egalitate de Gen, membru în Comisia Facultății de relații internaționale, imagine universitară și marketing academic cât și membru în comisiile pentru examenele de finalizare a studiilor universitare de master și licență.

Punctajele anuale obținute pentru perioada 2024-2025 la *Criteriul 5 – Activitatea în comunitatea academică*, conform fișelor de autoevaluare anuale, sunt prezentate în tabelul de mai jos:

Criteriu / an	2020	2021	2022	2023	2024	Total	Punctaj mediu
C5	30	36	38	18	33	155	31

Punctajele totale anuale obținute prin sumarea punctajelor aferente fiecărui criteriu evaluat sunt prezentate în tabelul următor:

Criteriu / an	2020	2021	2022	2023	2024	Total	Punctaj mediu
TOTAL C1-C5	1.183,94	3.979,18	3.261,4	2.891,13	3.331,74	14.647,39	2.929,48

De asemenea, la evaluarea de către Directorul de Departament, am obținut anual câte 50 de puncte.

Data: 15.10.2025

Semnătura 

Numele și prenumele: **Astanei Dragoș-George**

Funcția didactică: **conferențiar universitar**

Facultatea/ Departamentul: **Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată /
Departamentul de Energetică**

GRILA DE EVALUARE

Criteriu / An	2020	2021	2022	2023	2024	Sumă criteriu
C1. Activitatea didactică	247,01	1041,73	1179,79	1204,83	1154,85	4828,21
C2. Activitatea de cercetare științifică	722,93	2666,95	1904,11	1328,8	1911,89	8534,68
C3. Recunoașterea națională și internațională	160	186	99	305	179	929
C4. Activitatea cu studenții	24	48,5	40,5	34,5	53	200,5
C5. Activitatea în comunitatea academică	30	36	38	18	33	155
Total	1183,94	3979,18	3261,4	2891,13	3331,74	14.647,39
PUNCTAJ FINAL (media aritmetică a punctajelor din fișele de autoevaluare depuse în ultimii 5 ani)	2.929,48					

Data: 15.10.2025

Semnătura

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale pentru postul de conferențiar universitar

Astanei Dragoș-George, Data nașterii: **10.11.1986**, Funcția ocupată: **Conferențiar universitar**

Tabel 1: Condiții minime / punctaje obținute (în conformitate cu Domeniul CNATDCU Inginerie Electrică)

Nr. crt.	Domeniul de activitate	Condiții conferențiar	Punctaj obținut
1	Activitatea didactică/profesională (A1)	Minimum 60	165,15
2	Activitatea de cercetare (A2)	Minimum 180	695,49
3	Recunoașterea impactului activității (A3)	Minimum 60	826,39
TOTAL		Minimum 300	1.687,03

Data: 15.10.2025

Semnătura
Astanei Dragoș-George



Tabelul 2. Tabel cu structura activității candidatului

Nr. crt.	Domeniul activităților	Tipul activităților	Categorii și restricții	Subcategorii	Indicatori (kpi)	Realizări	Punctaj
0	1	2	3	4	5	6	7
1	Activitatea didactică și profesională (A1)	1.1 Cărți și capitole în cărți de specialitate	1.1.1 Cărți cu ISBN/ capitole ca autor: conferențiar minim 2	1.1.1.1 internaționale	nr. pagini/ (2*nr. autori)	1	107,5
				1.1.1.2 naționale	nr. pagini/ (5*nr autori)	1	32,5
			1.1.2 Cărți/ capitole de cărți ca editor/coordonator	1.1.2.1 internaționale	nr. pagini/ (3*nr. autori)		-
				1.1.2.2 naționale	nr. pagini/ (7*nr. autori)		-
		1.2 Suport didactic	1.2.1 Suport de curs inclusiv electronic: conferențiar minimum 1		nr. pagini/ (10*nr. autori)	1	11,5
			1.2.2 Îndrumare de laborator/ aplicații: conferențiar minimum 1		nr. pagini/ (20*nr. autori)	1	3,65
		1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale	Punctaj unic pentru fiecare activitate		10		10
TOTAL Puncte Activitatea didactică/profesională (A1)					165,15		
2	Activitatea de cercetare (A2)	2.1 Articole în extenso în reviste cotate WOS Thomson-Reuters ⁽¹⁾ , în volume proceedings indexate WOS Thomson-Reuters și brevete indexate WOS Derwent	Minim 7 articole, din care minimum 2 ca prim autor și minim 2 în reviste		(25 + 20 * factor impact ⁽²⁾) / nr. de autori	61 din care 14 ca prim autor și 18 în reviste	459,34
		2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI ⁽³⁾)	Minim 15 articole din care minimum 2 în reviste		20/nr. de autori	21 din care 7 în reviste	90,65
		2.3 Brevete de invenție indexate în alte baze de date		2.3.1 internaționale	25/nr. de autori	1	25
				2.3.2 naționale	15/nr. de autori	1	2,5
		2.4 Granturi/proiecte câștigate prin competiție națională/internațională ⁽⁴⁾	2.4.1 Director/responsabil proiect - Minimum 1 pentru conferențiar	2.4.1.1 internaționale	20*ani de desfășurare	2	90
				2.4.1.2 naționale	10*ani de desfășurare		-

			2.3.2 Membru în echipa	2.4.2.1 internaționale	4*ani de desfășurare	3	14
				2.4.2.2 naționale	2*ani de desfășurare	4	14
		2.5 Contracte de cercetare/ consultanță (valoare echivalentă de minimum 2.000 euro).	2.5.1 Director / Responsabil proiect partener		5*ani de desfășurare		-
			2.5.2 Membru în echipă		2*ani de desfășurare		-
TOTAL PUNCTE Activitatea de cercetare (A2)					695,49		
3	Recunoașterea impactului activității (A3)	3.1 Citări în reviste WOS și volumele conferințelor WOS ⁽⁵⁾	3.1.2 WOS (minim 7 citări)		5/nr. autori ai art. citat	177	144,46
		3.2 Citări în reviste și volumele conferințelor BDI ⁽⁵⁾	3.2.2 BDI (Minimum 10 citări)		3/nr. autori ai art. citat	54	33,93
		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	4	80
				3.3.2 naționale	5		-
		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 acorda pentru fiecare, revistă, manifestare științifică și recenzie).		3.4.1 WOS	10	22	220
				3.4.2 BDI	6	31	186
				3.4.3 naționale și internaționale neindexate	3		-
		3.5. Referent în comisii de doctorat		3.5.1 internaționale	10		-
				3.5.2 naționale	5	1	5
		3.6 Premii		Academia Romana	30		-
				ASAS, AOSR, academii de ramura și CNCS	15	8	120
				premii internaționale	10	2	20
				premii naționale în domeniu	5	2	10
3.7 Membru în academii,	3.7.1 Academia Romana		100		-		

		organizații, asociații profesionale de prestigiu, naționale și internaționale, apartenență la organizații din domeniul educației și cercetării	3.7.2 ASAS, AOSR și academii de ramură		30		-
			3.7.3 Conducere asociații profesionale	internaționale	30		-
				naționale	10		-
			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		-
				Membru	10		-
Total puncte Recunoașterea impactului activității (A3)					826,39		
Total puncte					1687,03		

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1. ACTIVITATE DIDACTICA SI PROFESIONALA (A1)

1.1. Cărți și capitole în cărți de specialitate (cu ISBN)

Nr. crt.	Subcategorii (National / International)	Rezultate (punctaje)	Cărți de specialitate/Capitole de cărți (titlul, autorii, nr. pagini, Editura, ISBN)	Nr pagini
0	1	2	3	4
1	Internațional	107,5	Dragoș Astanei, <i>Double spark plug based ignition system</i> , LAP Lambert Academic Publishing, Chișinău, Republica Moldova, 2022, ISBN: 978-613-9-47344-1	215
2	Național	32,5	Radu Burlică, Dragoș Astanei, <i>Plasma non-termică: Fundamente, Aplicații, Analiză</i> , Editura PIM, Iași, 2020, ISBN 978-606-13-5944-8	325
	TOTAL	140		

1.2. Suport didactic

Nr. crt.	Subcategorii	Rezultate (punctaje)	Cărți și capitole în cărți de specialitate	Nr pagini
0	1	2	3	4
1	Suport de curs	11,5	Dragoș Astanei, Radu Burlică, <i>Tehnici de comutație – note de curs</i> , Editura PIM, Iași, 2022, ISBN: 978-606-13-7147-1	230
2	Îndrumar de laborator	3,65	Dragoș Astanei, Radu Burlică, <i>Tehnici de comutație – aplicații</i> , Editura PIM, Iași, 2022, ISBN: 978-606-13-7148-8	146
	TOTAL	15,15		

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

Nr. crt.	Subcategorii (National / International)	Rezultate (punctaje)	Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS, sa)
0	1	2	3
1	International	10	Responsabil facultate pentru schimburi ERASMUS+, domeniul inginerie electrica, energetica intre Facultatea IEEIA si „CoST – Collegium Sciences et Techniques”, Universitatea din Orleans, Franța.
	TOTAL	10	

2. ACTIVITATE DE CERCETARE (A2)

2.1. Articole publicate in extenso in reviste și în volume proceedings indexate WOS Thomson-Reuters

Nr. crt.	Rezultate (punctaje)	Titlul lucrării, autorii, revista, pag (de la – pana la), vol....,	FI (2023)
0	1	2	3
1	10,12	E.G. Acar, D. Doganoz, D. Cavdar, F. Karbancioglu-Guler, R. Burlica, D. Astanei, M.A. Olariu, G. Gunes, <i>Efficacy of Atmospheric Non-thermal Plasma Corona Discharge Under Dry and Wet Conditions on Decontamination of Food Packaging Film Surfaces</i> , Packaging Technology and Science, Vol. 37, issue 12, pp. 1121-1130, 2024, WOS:001297514900001	2,8
2	17	M.A. Olariu, R. Herrero, D.G. Astanei, L. Jofre, J. Morentin, T.A. Filip, R. Burlică, <i>Improving Printability of Polytetrafluoroethylene (PTFE) with the Help of Plasma Pre-Treatment</i> , Polymers, Vol. 15, issue 16, Art. number 3348, 2023, WOS:001056759800001	4,7
3	11,38	S. Pădureanu, R. Burlică, V. Stoleru, O. Beniugă, D. Dirlău, D.E. Crețu, D. Astanei, A. Patras, <i>Non-Thermal Plasma-Activated Water: A Cytogenotoxic Potential on Triticum aestivum</i> , Agronomy, Vol. 13, issue 2, Art. number 459, 2023, WOS:000938080900001	3,3
4	5,89	A. Mandici, C. Roșu, R. Burlica, D.E. Crețu, D. Astanei, O. Beniugă, D.C. Topa, T.G. Aostăcioaiei, A. Miron, <i>Effects of non-thermal plasma activated water and low temperature on wheat sprouts: a focus on photosynthetic pigments, protein and phenolic contents, antioxidant activity, antioxidant and prooxidant enzymes activity</i> , Farmacia, Vol. 70, issue 6, pp. 1072 – 1080, 2022, WOS:000969664100010	1,4
5	8,7	A. Mandici, D.E. Crețu, R. Burlică, D. Astanei, O. Beniugă, C. Roșu, D.C. Topa, T.G. Aostăcioaiei, A.C. Aprotosoiaie, A. Miron, <i>Preliminary Study on the Impact of Non-Thermal Plasma Activated Water on the Quality of Triticum aestivum L. cv. Glosa Sprouts</i> , Horticulturae, Vol. 8, issue 12, Art. number 1158, 2022, DOI: https://doi.org/10.3390/horticulturae8121158	3,1
6	18,75	R. Burlica, D.E. Crețu, O. Beniugă, D. Astanei, <i>Nonthermal Plasma Multi-Reactor Scale-Up Using Pulse Capacitive Power Supplies</i> , Applied Sciences – Basel, vol. 12, issue 20, Art. number 10403, 2022, WOS: 000872282100001.	2,5
7	12,55	I. Stoica, R.M. Albu, C. Hulubei, D. Astanei, R. Burlica, G.A.M. Mersal, T.A.S. Elnasr, A.I. Barzic, A.Y. Elnaggar, <i>A New Texturing Approach of a Polyimide Shielding Cover for Enhanced Light Propagation in Photovoltaic Devices</i> , Nanomaterials, vol. 12, issue 18, Art. number 3249, 2022, WOS: 000857761200001	4,4
8	14,5	D. Astanei, R. Burlică, D.E. Crețu, M. Olariu, I. Stoica, O. Beniugă, <i>Treatment of Polymeric Films Used for Printed Electronic Circuits Using Ambient Air DBD Non-Thermal Plasma</i> , Materials, vol. 15, issue 5, art. number 1919, 2022, WOS:000771429600001.	3,1
9	8,78	M. Wartel, F. Faubert, I.D. Dirlau, S. Rudz, N. Pellerin, D. Astanei, R. Burlica, B. Hnatiuc, S. Pellerin, <i>Analysis of plasma activated water by gliding arc at atmospheric pressure: Effect of the chemical composition of water on the activation</i> , Journal of Applied Physics, vol. 129, issue 23, Art. number 233301, 2021, WOS:000661619600014.	2,7
10	5,38	R. Burlică, D. Astanei, D.E. Crețu, D. Dirlau, O. Beniuga, S. Padureanu, V. Stoleru, A. Patras, <i>Non-thermal plasma T-shaped reactor for activated water production</i> , Environmental Engineering and Management Journal, vol. 20, issue 3, pp. 397-404, 2021, WOS:000637746900009	0,9
11	10,1	V. Stoleru, R. Burlică, G. Mihalache, D. Dirlau, S. Padureanu, G.C. Teliban, D. Astanei, A. Cojocaru, O. Beniuga, A. Patras, <i>Plant growth promotion effect of plasma activated water on Lactuca sativa L. cultivated in two different volumes of substrate</i> , Scientific Reports (Nature), vol. 10, issue 1, Art. number 20920, 2020, WOS:000608975400032	3,8
12	15,4	D. Astanei, F. Faubert, S. Pellerin, B. Hnatiuc, M. Wartel, <i>Evaluation of the Efficiency of a Double Spark Plug to Improve the Performances of Combustion Engines: Pressure Measurement and Plasma Investigations</i> , Plasma Chemistry and plasma processing, vol. 40 (1), pp. 283-308, 2020, WOS:000493677200002	2,6
13	14,33	R. Burlică, I.D. Dirlau, D. Astanei, <i>Non-thermal plasma mini-reactors for water treatment</i> , Environmental Engineering and Management Journal, vol. 18, nr. 8, pp. 1799-1807 2019, WOS:000482576500020	0,9

14	24,56	V. Popescu, D. Astaneî, R. Burlica, A. Popescu, C. Munteanu, F. Ciolacu, M. Ursache, L. Ciobanu, A. Cocean, <i>Sustainable and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics</i> , Journal of Cleaner Production, vol. 232, pp. 451-461, 2019, WOS:000477784000042	9,8
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20	8.33	B. Hnatiuc, A. Sabau, D. Astaneî, <i>Classic spark simulation using COMSOL software</i> , proceedings of 7th ModTech International Conference - Modern Technologies in Industrial Engineering, June 19-22, 2019, Iași, Romania, WOS:000562929900050	0
21	3,57	D. Astaneî, D. Crețu, R. Burlică, ID Dirau, O. Beniugă, S. Pellerin, M. Wartel, <i>Voltage Polarity Influence on NTP Energy Efficiency of Point-to-Point Reactor</i> , proceedings of 2019 International Conference on Electromechanical and Energy Systems (SIELMEN 2019), art. number 263, Oct 9 – 11, 2019, Craiova, Romania, WOS:000630287500116	0
22	4,17	D. Astaneî, R. Burlică, D. Crețu, ID Dirau, G. Urmă, B. Hnatiuc, <i>Capacitive Power Supply for Double Spark Plug Ignition System</i> , proceedings of 2019 International Conference on Electromechanical and Energy Systems (SIELMEN 2019), art. number 264, Oct 9 – 11, 2019, Craiova, Romania, WOS:000630287500035	0
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25	4,17	A. Dragomir, M. Adam, M. Andrusca, D. Astaneî, L. Andrușcă, C. Dumitrescu, <i>About Some Connection Modes of the Current Conducting Paths</i> , proceedings of 2018 International Conference and Expozition on Electrical and Power Engineering (EPE 2018), pp. 357 – 360, Oct 18 – 19, 2018, Iași, Romania, WOS:000458752200067	0
26	6,25	O. Beniugă, ID Dirlau, D. Astaneî, R. Burlică, <i>Temperature influence in Direct Green 26 dye degradation rate with non-thermal plasma</i> , proceedings of 2018 International Conference and Expozition on Electrical and Power Engineering (EPE 2018), pp. 391 – 394, Oct 18 – 19, 2018, Iași, Romania, WOS:000458752200074	0
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28	6,25	D. Astaneî, R. Burlică, ID Dirau, M. Andrușcă, <i>Ayrton Relation Applied for Medium Voltage AC Electrical Discharges</i> , proceedings of 2018 International Conference and Expozition on Electrical and Power Engineering (EPE 2018), pp. 583 – 588, Oct 18 – 19, 2018, Iași, Romania, WOS:000458752200113	0

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30	5	D. Astanei, ID Dirau, O. Beniugă, R. Burlică, C. Gouillou, , <i>Evaluation of Reactive Species Produced in Water by GlidArc Plasma</i> , proceedings of 2018 International Conference and Expozition on Electrical and Power Engineering (EPE 2018), pp. 603 – 608, Oct 18 – 19, 2018, Iași, Romania, WOS:000458752200117	0
31	6,25	ID Dirau, O. Beniugă, R. Burlică, D. Astanei, <i>Influence of Surface Gliding Discharges on Organic Pollutants from Aqueous Solutions</i> , proceedings of 2018 International Conference and Expozition on Electrical and Power Engineering (EPE 2018), pp. 897 – 900, Oct 18 – 19, 2018, Iași, Romania, WOS:000458752200175	0
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42	3,57	B. Hnatiuc, J.L. Brisset, D. Astanei, M. Ursache, M. Mares, E. Hnatiuc, C. Felea, <i>Evolution of the construction and performances in accordance to the applications of non-thermal plasma reactors</i> , Proc. of SPIE Vol. 10010, Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies 2016 (ATOM-N 2016), pp. 100103D-1 – 8, August 25, 2016, Constanța, Romania, WOS:000391359600121	0
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49	6,25	B. Hnatiuc, M. Hnatiuc, C. Petrescu, D. Astanei, <i>Ignition modeling of a double sparking plug for internal combustion engines</i> , proceedings of 8th IEEE International Conference and Exposition on Electrical and Power Engineering, EPE 2014, pp. 226-230, October 16-18, Iași Romania, WOS:000353565300037	0
50	8,33	R. Burlică, E. Hnatiuc, D. Astanei, <i>Fault current protection control by di/dt</i> , proceedings of 8th IEEE International Conference and Exposition on Electrical and Power Engineering, EPE 2014, pp. 264-267, October 16-18, Iași Romania, WOS:000353565300042	0
51	6,25	M. Adochiței, C. Harabagiu, D. Astanei, R. Burlică, <i>A new solar energy converting system with vertical photovoltaic panels</i> , proceedings of 8th IEEE International Conference and Exposition on Electrical and Power Engineering, EPE 2014, pp. 1129-1131, October 16-18, Iași Romania, WOS:000353565300205	0
52	4,17	B. Hnatiuc, D. Astanei, S. Pellerin, M. Hnatiuc, F. Faubert, M. Ursache, <i>Electrical Modeling of a Double Spark at Atmospheric Pressure</i> , proceedings of 14th IEEE Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2014, pp. 1005-1010, May 22-24, Brașov, Romania, WOS:000343551300147	0
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54	4,17	D. Astanei, M. Ursache, I. Stoica, E. Hnatiuc, R. Munteanu, R. Burlica, <i>Zirconium and Titanium Surface Treatment Using Non-Thermal Plasma for Dentistry Applications</i> , proceedings of 14th IEEE Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2014, pp. 1024-1029, May 22-24, Brașov, Romania, WOS:000343551300150	0
55	8,33	F. Munteanu, C. Nemes, D. Astanei, <i>Power quality indices proposal for networks operating in sinusoidal and unbalanced conditions</i> , proceedings of 2014 International Symposium on Fundamentals of Electrical Engineering (ISFEE 2014), pp. 1 – 6, November 28 – 29, 2014, Bucharest, Romania, DOI: 10.1109/ISFEE.2014.7050553, WOS:000380570500021	0

56	5	M. Ursache, E. Hnatiuc, R. Burlica, D. Astanei, B. Hnatiuc, <i>The influence of the dispersion flux on the connection transient regime for DC electromagnets</i> , proceedings of 7th IEEE International Conference and Exposition on Electrical and Power Engineering, EPE – 2012, pp. 172-177, October 25-27, Iași, Romania, WOS:000324685300036	0
57	4,17	D. Astanei, B. Hnatiuc, S. Pellerin, N. Cerqueira, E. Hnatiuc, M. Ursache, <i>Influence of the interaction surface between plasma and air/fuel mixture on the combustion process</i> , proceedings of 7th IEEE International Conference and Exposition on Electrical and Power Engineering, EPE – 2012, pp. 491-496, October 25-27, Iași, Romania, WOS:000324685300085	0
58	5	E. Hnatiuc, D. Astanei, M. Ursache, B. Hnatiuc, J-L. Brisset, <i>A review over the cold plasma reactors and their applications</i> , proceedings of 7th IEEE International Conference and Exposition on Electrical and Power Engineering, EPE – 2012, pp. 497-502, October 25-27, Iași, Romania, WOS:000324685300086	0
59	5	D. Astanei, B. Hnatiuc, S. Pellerin, E. Hnatiuc, N. Cerqueira, <i>A correlation between the rotational temperature and the electrical energy of a cold plasma type electrical discharge produced by a double spark-plug</i> , proceedings of 13th IEEE Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2012, May 24-26, pp. 1341 – 1345, Brașov, Romania, WOS:000398866700203	0
60	5	E. Hnatiuc, V. Burlui, M. Ursache, D. Astanei, B. Hnatiuc, <i>About the operation of the cold plasma GlidArc type reactors with rotary discharge and auxiliary electrodes</i> , proceedings of 13th IEEE Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2012, May 24-26, pp. 1353-1358, Brașov, Romania, DOI: 10.1109/OPTIM.2012.6231957, WOS:000398866700205	0
61	5	B. Hnatiuc, S. Pellerin, E. Hnatiuc, D. Astanei, M. Hnatiuc, <i>Influence of electrical parameters on the diagnosis of plasma produced by a double spark plug</i> , proceedings of XIXth Symposium on Physics of Switching Arc FSO 2011, pp. 217-220, September 5 - 9, Brno, Czech Republic, WOS:000393239500041	0
Total	459,34 p		

2.2. Articole in reviste si volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI)

Nr. crt.	Rezultate (punctaje)	Titlul lucrării, autorii, revista, pag (de la – pana la), vol.,...
1	3,33	B.A. Pingescu, V.D. Asmarandei, D.G. Astanei, O.C. Beniugă, C.R. Beniugă, R. Burlică, <i>High conductivity solution treatment by non-thermal plasma T-shaped mini electrochemical reactors</i> , Proc. of the 2024 IEEE International Conference and Exposition on Electrical and Power Engineering, pp. 616-619, 17-19 oct. 2024, Iasi, Romania, DOI: 10.1109/EPEi63510.2024.10758144
2	3,33	B.A. Pingescu, D. Astanei, R. Burlică, V.D. Asmarandei, O.C. Beniugă, V. Gheorghe, <i>Capacitive Power Supplies for Non-Thermal Plasma Electrochemical Mini-Reactors</i> , Proc. of the 2024 IEEE International Conference and Exposition on Electrical and Power Engineering, pp. 632-635, 17-19 oct. 2024, Iasi, Romania, DOI: 10.1109/EPEi63510.2024.10758134
3	3,33	A. Dragomir, M. Adam, D.G. Astanei, B.A. Pingescu, A.D. Paizan, A. Bodoga, <i>Digital Communication Capabilities of Low Voltage Circuit Breakers</i> , Proc. of the 2024 IEEE International Conference and Exposition on Electrical and Power Engineering, pp. 176-181, 17-19 oct. 2024, Iasi, Romania, DOI: 10.1109/EPEi63510.2024.10758137
4	5	O.C. Beniugă, C.R. Beniugă, D.G. Astanei, R. Burlică, <i>Thermostat Behavior Analysis in Smart Home Environment Using Petri Nets</i> , Proc. of the 2024 IEEE International Conference and Exposition on Electrical and Power Engineering, pp. 390-393, 17-19 oct. 2024, Iasi, Romania, DOI: 10.1109/EPEi63510.2024.10758167
5	4	T.A. Filip, I. Turcan, C.C. Simota, D.G. Astanei, M.A. Olariu, <i>Fabrication and Preliminary Evaluation of Flexible Screen-Printed Resistive Voltage Divider</i> , Proc. of the 2023 International Conference on Engineering and Emerging Technologies (ICEET), 27-28 oct. 2023, Istanbul, Turkey, DOI: 10.1109/ICEET60227.2023.10526109
6	4	C.C. Rusu, D. Astanei, R. Burlică, D.E. Crețu, O. Beniugă, <i>Rotary DBD Plasma Reactor for Inline Treatment of Polymeric Substrates</i> ,

Nr. crt.	Rezultate (punctaje)	Titlul lucrării, autorii, revista, pag (de la – pana la), vol....,
		Proc. of the 2023 10th International Conference on Modern Power Systems (MPS), 21-23 jun. 2023, Cluj-Napoca, Romania, DOI: 10.1109/MPS58874.2023.10187433
7	4	C.C. Rusu, D.E. Crețu, R. Burlică, D. Astanei, O. Beniugă, <i>DBD system operating in ambient air for surface treatment of polyethylene terephthalate films</i> , Buletinul Institutului Politehnic din Iași, Secția Electrotehnică, Energetică, Electronică, acceptat spre publicare noiembrie 2022.
8	4	D.-E. Cretu, C.-C. Rusu, D. Astanei, R. Burlica, O. Beniuga, <i>Assessment of HV Power Supply Efficiency in Plasma Activated Water Production</i> , Proc. of the 2022 International Conference and Exposition on Electrical and Power Engineering, 20-22 oct. 2022, Iasi, Romania, DOI: 10.1109/EPE56121.2022.9959831
9	3,33	D.-E. Cretu, S. Pellerin, R. Burlica, M. Wartel, D. Astanei, F. Faubert, <i>Influence of Water Injection Technique in an Argon NTP System Used for PAW Generation</i> , Proc. of the 2022 International Conference and Exposition on Electrical and Power Engineering, 20-22 oct. 2022, Iasi, Romania, DOI: 10.1109/EPE56121.2022.9959849
10	3,33	D.-E. Cretu, C.-C. Rusu, R. Burlica, O. Beniuga, D. Astanei, D. Tesoi, <i>DBD Non-Thermal Plasma Used on Surface Treatment of Polymeric Film for Food Packaging</i> , Proc. of the 2021 International Conference on Electromechanical and Energy Systems (SIELMEN), pp. 454-457, 6-8 oct. 2021, Iasi, Romania, DOI: 10.1109/SIELMEN53755.2021.9600314.
11	6,67	I. C. Felea, E. Hnatiuc, D. Astanei, <i>Characterization of Cold Plasma Glidarc Reactors</i> , Proc. of the 2021 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2021 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), pp. 351-357, 2-3 sept. 2021, Brașov, Romania, DOI: 10.1109/OPTIM-ACEMP50812.2021.9590073
12	3,33	D.-E. Cretu, R. Burlica, O. Beniuga, D. Astanei, C. Rusu, D. Tesoi, <i>Surface Treatment of Polyethylene Terephthalate Film Using a DBD Non-Thermal Plasma Reactor</i> , Proc. of the 2021 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2021 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), pp. 364-367, 2-3 sept. 2021, Brașov, Romania, DOI: 10.1109/OPTIM-ACEMP50812.2021.9590058
13	4	D.E. Crețu, D. Astanei, R. Burlică, O. Beniugă, D. Teșoi, <i>The Influence of NTP Reactor Geometry on H2O2 Generation in Water</i> , Proc. of the 2020 International Conference and Exposition on Electrical and Power Engineering, 22-23 oct. 2020, Iasi, Romania, DOI: 10.1109/EPE50722.2020.9305678
14	3,33	D Teșoi, D-E Crețu, O Beniugă, R Burlică, D. Astanei, M Olariu, <i>DBD Plasma in Air Reactor for Polymeric Surfaces Treatment</i> , Proc. of the 2020 International Conference and Exposition on Electrical and Power Engineering, 22-23 oct. 2020, Iasi, Romania, DOI: 10.1109/EPE50722.2020.9305586
15	4	M. Adam, M. Andrusca, A. Dragomir; D. Astanei; R. Burlica, <i>Technical Condition Monitoring of Impedance Bonds using Sensors and Dedicated Device</i> , Proc. of the 2018 International Conference and Exposition on Electrical and Power Engineering, 22-23 oct. 2020, Iasi, Romania, DOI: 10.1109/EPE50722.2020.9305673
16	5	I.D. Dirlau, R. Burlica, D. Astanei, O. Beniuga, <i>Effect of non-thermal plasma on molecular species formed in water based solution</i> , Buletinul Institutului Politehnic din Iași, Secția Electrotehnică, Energetică, Electronică, vol. 63(67), nr. 1, pp. 9 – 20, 2017
17	5	A. Ciobanu, F. Munteanu, C. Nemes, D. Astanei, <i>Availability evaluation of nodal architectures using bayesian networks</i> , Buletinul Institutului Politehnic din Iași, Secția Electrotehnică, Energetică, Electronică, vol. 62(66), nr. 3 pp. 31 – 40, 2016
18	6,67	C. Nemes, F. Munteanu, D. Astanei, <i>Analysis of grid-connected photovoltaic system integration on low-voltage distribution network</i> , Journal of sustainable energy, vol. 7, nr. 1, pp. 9 – 14, 2016, ISSN 2067-5534.
19	6,67	C. Nemes, F. Munteanu, D. Astanei, <i>Annual energy harvest of LACARP photovoltaic system</i> , 6 th International Conference on Modern Power Systems MPS2015, 18-21 May 2015, Cluj-Napoca, Romania, published in Acta Electrotehnica, vol. 56, nr. 3, pp. 213-218, 2015.

Nr. crt.	Rezultate (punctaje)	Titlul lucrării, autorii, revista, pag (de la – pana la), vol....,
20	3,33	D. Astanei, S. Pellerin, B. Hnatiuc, F. Faubert, N. Cerqueira, M. Ursache, <i>Etude d'une bougie à double étincelle pour la combustion propre</i> , Journal National de la Recherche en IUT – JNRIUT, vol. 4, pp. 51-63, 2013, ISSN 2107-5549.
21	5	D.G. Astanei, S. Pellerin, B. Hnatiuc, E. Hnatiuc, <i>The study of the electrical parameters and the exhaust gas analysis for a double spark plug</i> , Annals of the University of Craiova, Electrical Engineering Series, pp. 47 – 52, vol. 35, 2011, ISSN 1842-4805
TOTAL	90,65 p	

2.3. Proprietate intelectuală, brevete de invenție

Nr crt	Subcategorii	Rezultate (punctaje)	Titlul proiectului
0	1	2	3
1	Internațional	25	D. Astanei, <i>Spark plug with double electrical discharge</i> , Brevet nr. EPO39554400, decizie de acordare publicată în Buletinul European de Brevete nr. 2251 din data de 21.12.2022.
2	Național	2,5	R. Burlică, D. Astanei, I.D. Dîrlău, O.C. Beniugă, M. Andrușcă, M. Adam <i>Minireactor electrochimic cu plasmă non-termică cu geometrie în formă de T, pentru producerea apei activate</i> , Brevet nr. RO134206B1 29.03.2024.
3	Național	0	Cerere de brevet – I.D. Dîrlău, D. Astanei, O. Beniugă, R. Burlică, <i>Minireactor conic cu plasmă non-termică pentru producerea apei activate, cu aplicații în agricultură</i> , Cerere de brevet nr. A01081 / 11.12.2017, publicată în RO-BOPI RO133404A2 / 28.06.2019.
4	Național	0	Cerere de brevet – R. Burlică, D. Astanei, O. Beniugă, D.E. Crețu, C.C. Rusu, <i>Dispozitiv cu plasma non-termică DBD-Corona pentru tratamentul substraturilor polimerice destinate ambalării produselor alimentare</i> , Cerere de brevet nr. A00493 / 12.08.2022.
5	Național	0	Cerere de brevet – R. Burlică, D. Astanei, O. Beniugă, M.A. Olariu, D.E. Crețu, <i>Dispozitiv cu plasma non-termică DBD pentru tratamentul substraturilor polimerice destinate imprimării circuitelor electronice flexibile</i> , Cerere de brevet nr. nr. A00117 / 11.03.2022.
TOTAL		27,5	

2.4. Granturi / proiecte câștigate prin competiție

Nr crt	Subcategorii	Rezultate (punctaje)	Titlul proiectului	Calitate (director / membru)
0	1	2	3	4
1	Internațional	2*20 = 40p	-Titlu: Bio-tratament aplicat pe ambele suprafețe ale foliei polimerice utilizată pentru împachetarea produselor alimentare utilizând plasma non-termică DBD-Corona - ERANET-MANUNET-III-PlasmaPack, nr. 214 / 2020, perioada 2020-2022 - Director proiect: Ș.l.dr.ing. Dragoș Astanei	Director

Nr crt	Subcategorii	Rezultate (punctaje)	Titlul proiectului	Calitate (director / membru)
0	1	2	3	4
2	Internațional	2,5*20 = 50p	-Titlu: Evaluarea apei activate produse de către diferite reactoare de plasmă non-termică - Proiect de tip PN-III-P3-3.1-PM-RO-FR, nr. 19BM / 2019, perioada 2019-2021 - Director proiect: Ș.I.dr.ing. Dragoș Astanei	Director
3	Național	2*2 = 4p	-Titlu: Dezvoltarea instituțională a TUIASI prin creșterea vizibilității și a performanței cercetării, (TUIASI-COMPETE) -Titlu subproiect COMPETE / Sistem de aprindere cu eficiență ridicată bazat pe bujie dublă pentru reducerea emisiilor poluante din gazele de eșapament evacuate de motoarele cu ardere internă (HEDSIS) - Proiect de tip PN III, PNCDI III – 9PFE/2018, perioada 2018-2020 - Director proiect: Prof. dr. ing. Carmen Loghin	Membru / responsabil temă subproiect
4	Internațional	4*1 = 4p	-Titlu: Evaluarea impactului utilizării tehnologiei cu plasmă non-termică asupra creșterii și dezvoltării plantelor în sere și în spații protejate (Assessment of the impact of using non-thermal plasma technology on plant growth and development in indoor farming) - Proiect PN-IV-P8-8.3-PM-RO-BE-2024-0011, perioada dec 2024 – dec 2025 - Director proiect: Ș.I. dr. ing. Constantin-Răzvan Beniugă	Membru
5	Internațional	4*2 = 8p	-Titlu: Reactor cu plasmă non-termică la presiune atmosferică pentru pre-tratamentul substraturilor polimerice utilizate în fabricarea circuitelor imprimate flexibile - Proiect ERANET-MANUNET-III-Treatoflex, nr. 146 / 2020, perioada 2020-2022 - Director proiect: Prof. dr. ing. Radu Burlică	Membru
6	Național	2*2 = 4p	-Titlu: Model experimental pentru demonstrarea fezabilității creșterii potențialului terapeutic al germenilor de grâu prin tratarea acestora cu apa activată cu plasmă non-termică (PAW) - Proiect PN-III-P2-2.1-PED-2019-0556, nr. 361PED / 2020, perioada 2020-2022 - Director proiect: Prof. dr. ing. Radu Burlică	Membru
7	Național	2,5*2 = 5p	-Titlu: Creșterea Producției Agricole în Sere Utilizând Irigarea cu Apă Activată cu Plasmă Rece - Proiect de tip PN III, P IV-PCE, nr. 15 / 12.07.2017, perioada 2017-2019 - Director proiect: Prof. dr. ing. Radu Burlica	Membru
8	Național	0,5*2 = 1p	-Titlu: Sistem inteligent pentru managementul sarcinii consumatorilor rezidențiali alimentați din surse fotovoltaice - Proiect de tip PN III, P II – CI, nr. 145 CI/2017, perioada 2017-2018. - Director proiect: Prof. dr. ing. Ciprian Nemes	Membru
9	Internațional	0,5*4 = 2p	-Titlu: Aplicarea unor descărcări electrice la înaltă presiune pentru obținerea unei combustii	Membru

Nr crt	Subcategorii	Rezultate (punctaje)	Titlul proiectului	Calitate (director / membru)
0	1	2	3	4
			de calitate - Proiect de tip Capacități – Modulul III, Cooperări bilaterale cu Franța nr. 302/ 22.02.2009, 2009 – 2010. - Director proiect: Prof. dr. ing. Bogdan Hnatiuc	
TOTAL		118		

2.5. Contracte de cercetare/consultanță (valoare echivalentă de minim 2 000 Euro)

3. RECUNOASTERE SI IMPACTUL ACTIVITATII (A3)

3.1. / 3.2. Citări în reviste și volumele conferințelor WOS și BDI

Nr crt.	Nr. citări	Lucrarea citata	Nr. autori Tip citare	Punctaj
1	14 WOS 3 BDI	B. Hnatiuc, D. Astanei, S. Pellerin, N. Cerqueira, M. Hnatiuc, <i>Diagnostic of plasma produced by a spark plug at atmospheric pressure: reduced electric field and rotational – vibrational temperatures</i> , Contributions to Plasma Physics Journal, vol. 3, issue 8, pp. 712 – 723, 2014. CITATA de:	5 autori	15,8 p
	1	- MJ, Pavlovich, T Ono, C. Galleher, B. Curtis, D.S. Clark, Z. Machala, D.B. Graves, <i>Air spark-like plasma source for antimicrobial NOx generation</i> , Journal of Physics D – Applied Physics, vol. 47, issue 50, article number 505202, 2014.	WOS	1
	2	- A. Kastengren et.al., <i>Time-Resolved X-Ray Radiography of Spark Ignition Plasma</i> , SAE international Journal of Engines, vol. 9, issue 2, pp. 693-703, 2016.	WOS	1
	3	- F. Seng et.al., <i>Optical Sensing of Electric Fields in Harsh Environments</i> , JOURNAL OF LIGHTWAVE TECHNOLOGY, vol. 35, issue 4, pp. 669-676, 2017.	WOS	1
	4	- L.W.S. Crispim et. al., <i>Modelling spark-plug discharge in dry air</i> , Combustion and flame, vol. 198, pp. 81-88, 2018.	WOS	1
	5	- B. Ulejczyk et.al., <i>Steam reforming of ethanol in spark discharge generated between electrodes made from a Ni3Al alloy</i> , proceedings of 2017 International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2017 and 2017 Intl Aegean Conference on Electrical Machines and Power Electronics, ACEMP 2017, May 25-27, 2017, Brasov, Romania.	WOS	1
	6	- I.D. Dirlau, R. Burlica, <i>Effect of non-thermal plasma on aqueous solutions treated in surface gliding discharges reactors</i> , proceedings of 2017 International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2017 and 2017 Intl Aegean Conference on Electrical Machines and Power Electronics, ACEMP 2017, May 25-27, 2017, Brasov, Romania.	WOS	1
	7	- M. Kinoshita, T. Fuyoto, H. Akatsuka, <i>Measurement of vibrational and rotational temperature in spark discharge plasma by optical emission spectroscopy: (Change in thermal equilibrium characteristics of plasma under air flow)</i> , International Journal of Engine Research, Vol. 20(7), pp. 746-757, 2019	WOS	1
	8	- Shuai Huang, Tie Li, Zhifei Zhang, Pengfei Ma, <i>Rotational and vibrational temperatures in the spark plasma by various discharge energies and strategies</i> , Applied Energy, vol. 251, art. number 113358, 2019	WOS	1
	9	- N. Kawahara, M. Watanabe, E. Tomita, Y. Nagano, T. Kitagawa, <i>Plasma Temperature of Spark Discharge in a Lean-burn Spark-ignition Engine Using a Time Series of Spectra Measurements</i> , SAE Technical Papers, art. 2019-01-2158, 2019	BDI	0,6
	10	- Tobias Michler, Olaf Toedter, Thomas Koch, <i>Spatial and time resolved determination of the vibrational temperature in ignition sparks by variation of the dwell time</i> , SN Applied Sciences, vol. 2, art. Number 1311, 2020	WOS	1
	11	- XH Zhang, ZW Wang, D Zhou, HM Wu, XB Cheng, B Jin, JY Chen, <i>Strengthening effect of microwave on spark ignited spherical expanding flames of methane-air mixture</i> , ENERGY CONVERSION AND MANAGEMENT, vol. 224, art. no. 113368, 2020	WOS	1
	12	- Bernard Fryskowski, <i>Spark plug reliability improvement with regard to ceramic insulator form factor</i> , Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, vol. 235(2-3), pp. 373-386, 2021.	WOS	1

Nr crt.	Nr. citări	Lucrarea citata	Nr. autori Tip citare	Punctaj
	13	- Masao KINOSHITA, Takayuki FUYUTO, Yoshiyuki MANDOKORO, Akimitsu SUGIURA, Hiroshi AKATSUKA, <i>Measurement of temperature of spark-discharge plasma in engine cylinder</i> , Transactions of the JSME (in Japanese), Vol.86, No.883, 2020	BDI	0,6
	14	- XH Zhang, Z Wang, H Wu, C. Liu, XB Cheng, JY Chen, <i>Propulsive effect of microwave-induced plasma jet on spark ignition of CO2-diluted CH4-air mixture</i> , Combustion and Flame, vol. 229, art. no. 111400, 2021	WOS	1
	15	- Bernard Fryskowski, <i>Conventional and hybrid vehicles spark plugs – modeling and computer simulation of glass seal resistor influence on electric field distribution</i> , TTS Technika Transportu Szynowego, vol. 22, issue 10, pp. 48-53, 2015	BDI	0,6
	16	- K. Liu, H. Xia, M. Yang, W. Geng, J. Zuo, K. Ostrikov, <i>Insights into generation of OH radicals in plasma jets with constant power: The effects of driving voltage and frequency</i> , Vacuum, vol. 198, art. number 110901, 2022	WOS	1
	17	- K. Matra, Y. Tanakaran, W. Sangwang, J. Prompting, and S. Theeparaksapan, „Plasma Activated Soil: A Novel Technique for Agricultural Soil Enhancement”, ENGINEERING JOURNAL-THAILAND, Vol. 27, issue 3, pp. 1-10, 2023	WOS	1
2	1 WOS 1 BDI	Marius Ursache, Bogdan Hnatiuc, Eugen Hnatiuc, Dragoș Astanei, Jean-Louis Brisset, Radu Burlica, <i>Direct and delayed degradation of azorubin (E122) by gliding arc discharges</i> , Environmental Engineering and Management Journal, vol. 14, issue 11, pp. 2737 – 2746, 2015. CITATA de:	6 autori	0,83p
	1	- A. Alcantara-Cobos, M.J. Solache-Rios, M.D. Diaz-Nava, <i>Adsorption of tartrazine on an iron modified zeolitic tuff</i> , Environmental Engineering and Management Journal, vol. 14, nr. 11, 2015.	WOS	0,83
	2	- Amir Hosein Saadat, Ebrahim Mahmoudzadeh, Alireza Boushehri, Reza Hosnavi, „Investigating the Impact of Business Strategies on Innovative Performance (Case Study: Ministry of Defense Companies)”, vol 17, issue 1, s.n. 59, 2023	BDI	0,5
3	2 WOS 1 BDI	D. Astanei, B. Hnatiuc, S. Pellerin, E. Hnatiuc, N. Cerqueira, <i>A correlation between the rotational temperature and the electrical energy of a cold plasma type electrical discharge produced by a double spark-plug</i> , proceedings of 13th IEEE Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2012, May 24-26, pp. 1341 – 1345, Braşov, Romania. CITATA de:	5 autori	2,6p
	1	- M. Kinoshita, T. Fuyoto, H. Akatsuka, <i>Measurement of vibrational and rotational temperature in spark discharge plasma by optical emission spectroscopy: (Change in thermal equilibrium characteristics of plasma under air flow)</i> , International Journal of Engine Research, Vol. 20(7), pp. 746-757, 2019.	WOS	1
	2	- I.D. Dirlau, R. Burlica, <i>Effect of non-thermal plasma on aqueous solutions treated in surface gliding discharges reactors</i> , proceedings of 2017 International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2017 and 2017 Intl Aegean Conference on Electrical Machines and Power Electronics, ACEMP 2017, May 25-27, 2017, Brasov, Romania.	WOS	1
	3	- Masao KINOSHITA, Takayuki FUYUTO, Yoshiyuki MANDOKORO, Akimitsu SUGIURA, Hiroshi AKATSUKA, <i>Measurement of temperature of spark-discharge plasma in engine cylinder</i> , Transactions of the JSME (in Japanese), Vol.86, No.883, 2020	BDI	0,6
4	1 WOS 2 BDI	B. Hnatiuc, D. Astanei, S. Pellerin, M. Hnatiuc, F. Faubert, M. Ursache, <i>Electrical Modeling of a Double Spark at Atmospheric Pressure</i> , proceedings of 14th IEEE Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2014, pp. 1005-1010, May 22-24, Braşov, Romania. CITATA de:	6 autori	1,83p

Nr crt.	Nr. citări	Lucrarea citata	Nr. autori Tip citare	Punctaj
	1	- B. Fryškowski, Electric field distribution in spark plugs insulators - Modeling and computer simulation, Diagnostyka, vol. 18, nr. 1, 2017.	BDI	0,5
	2	- S. Huang et.al., Experimental investigation of multichannel plasma igniter in a supersonic model combustor, Experimental thermal and fluid science, vol. 99, pp. 315-323, 2018	WOS	0,83
	3	- I.D. Dirlau, O. Beniuga, R. Burlica, Electromagnetic stress induced by surface discharges on water film, Proc. of 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements, pp. 205-208, September 2017, Iasi, Romania	BDI	0,5
5	5 WOS 4 BDI	E. Hnatiuc, D. Astanei, M. Ursache, B. Hnatiuc, J-L. Brisset, <i>A review over the cold plasma reactors and their applications</i> , proceedings of 7th IEEE International Conference and Exposition on Electrical and Power Engineering, EPE – 2012, pp. 497-502, October 25-27, Iași, Romania. CITATA de:	5 autori	7,4p
	1	- H Wang, Y biao, Y. Chunlai, L. Wen, <i>Electrical and optical diagnostic of ferroelectric micro-plasma thruster</i> , Proc. of 2017 IEEE 12th International Conference on Nano/Micro Engineered and Molecular Systems, NEMS 2017, April 9-12, 2017, Los Angeles, United States.	WOS	1
	2	- Martínez-Montejano Roberto Carlos, Martínez-Montejano Roberto Carlos et. al., <i>Construction of a power electronic source for cold plasma generation</i> , Ingeniería Investigación tecnológica ingeniería Investigación tecnológica, volumen XX (número 4), octubre-diciembre 2019: 1-12 ISSN 2594-0732 FI-UNAM, http://dx.doi.org/10.22201/fi.25940732e.2019.20n4.047	BDI	0,6
	3	- Bogdan Ulejczyk; Łukasz Nogal; Michał Młotek; Krzysztof Krawczyk, <i>Hydrogen Production from Ethanol in Dielectric Barrier Discharge</i> , Proc. of 2021 IEEE 2021 International Aegean Conference on Electrical Machines and Power Electronics (ACEMP) & 2021 International Conference on Optimization of Electrical and Electronic Equipment (OPTIM), sept 2-3, 2021	BDI	0,6
	4	- N. Yasooob A., Nisreen kh. Abdalameer and Adnan Qahtan Mohammed, „Plasma Production and Applications: A Review”, International Journal of Nanoscience, 2022, https://doi.org/10.1142/S0219581X22300036 .	BDI	0,6
	5	- Bil Li et al., „Insights into Cold Plasma Treatment on the Cereal and Legume Proteins Modification: Principle, Mechanism, and Application”, Foods, vol 13, issue 10, 1522, 2024	WOS	1
	6	- Henryka Danuta Stryczewska , Grzegorz Komarzyniec and Oleksandr Boiko, „Effect of Plasma Gas Type on the Operation Characteristics of a Three-Phase Plasma Reactor with Gliding Arc Discharge”, Energies, vol 17, issue 11, 2696, 2024	WOS	1
	7	- Ignacio Jesús Álvarez Gariburo, Hector Sarnago, Oscar Lucia, „A versatile plasma generation power supply featuring a multilevel converter for arbitrary waveforms generation”, COMPEL - The international journal for computation and mathematics in electrical and electronic engineering, vol. 43, issue 6, pp. 1162-1173, 2024	WOS	1
	8	- Achraf Hani; Lahoucine Elmahni; Alyen Abahazem; Nofel Merbahi, „High Voltage Flyback Converter for Cold Plasma Generation”, Proc. of 2024 International Conference on Circuit, Systems and Communication (ICCS) IEEE, 28 – 29 iunie 2024, Fes, Maroc	BDI	0,6
	9	- P. Krupski, „Design and Visualization of the Ten-Electrode GlidArc Plasma Reactor Using the Autodesk Inventor Environment”, ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL, vol. 18, issue 7, pp. 192-202, 2024	WOS	1

Nr crt.	Nr. citări	Lucrarea citată	Nr. autori Tip citare	Punctaj
6	1 WOS	E. Hnatiuc, V. Burlui, M. Ursache, D. Astanei, B. Hnatiuc, <i>About the operation of the cold plasma GlidArc type reactors with rotary discharge and auxiliary electrodes</i> , proceedings of 13th IEEE Conference on Optimization of Electrical and Electronic Equipment - OPTIM 2012, May 24-26, pp. 1353-1358, Braşov, Romania. CITATA de:	5 autori	1p
	1	- H. Zhang et.al., <i>Rotating Gliding Arc Assisted Water Splitting in Atmospheric Nitrogen</i> , PLASMA CHEMISTRY AND PLASMA PROCESSING, vol. 36, issue 3, pp. 813-834, 2016.	WOS	1
7	3 WOS 6 BDI	C. Nemes, F. Munteanu, D. Astanei, <i>Analysis of grid-connected photovoltaic system integration on low-voltage distribution network</i> , Journal of sustainable energy, vol. 7, nr. 1, pp. 9 – 14, 2016. CITATA de:	3 autori	11,01p
	1	- Oleksandr Yuliiiovych Haievskiy et.al., <i>Efficiency of the photovoltaic single-phase inverter and harmonic distortion at different load level</i> , POWER ENGINEERING economics, technique, ecology, nr. 2, 2017.	BDI	1
	2	- El-Leathey, Lucia-Andreea; Nedelcu, Adrian; Dorian, Marin, <i>Electrotehnica, Electronica, Automatica: EEA</i> ; Bucharest Vol. 65, Iss. 3, (Jul/Sep 2017): 26-33.	BDI	1
	3	- Maria García-Rodríguez ; Jeisson Moreno-Vargas ; German Osma-Pinto ; Cesar Duarte-Gualdrón, <i>Study of the impact of grid connected PV system on PQ through a comparative analysis by scenarios</i> , proc. of 2019 IEEE Workshop on Power Electronics and Power Quality Applications (PEPQA), 30-31 mai 2019, Manizales, Columbia	WOS	1,67
	4	- Lucia-Andreea El-Leathey, Rareş-Andrei Chihaia, Ion Murgescu, Gabriela Cîrcumaru, Adrian Nedelcu, <i>Analysis of a low-voltage operating microgrid located in a residential area</i> , EENVIRO 2018 – Sustainable Solutions for Energy and Environment, E3S Web of Conferences, vol. 85, 08001 (2019), https://doi.org/10.1051/e3sconf/20198508001	BDI	1
	5	- Ngo Xuan Cuong, Do Nhu Y, „Power quality analysis of the grid-connected PV system using microinverter”, Technium: Romanian Journal of Applied Sciences and Technology, Vol. 1 (2019): Proceedings of the Technium Conference 2019 (15.12.2019, Constanta, Romania), ISSN: 2668-778X	BDI	1
	6	- German Osma-Pinto, Maria García-Rodríguez, Jeisson Moreno-Vargas and Cesar Duarte-Gualdrón, „Impact Evaluation of Grid-Connected PV Systems on PQ Parameters by Comparative Analysis based on Inferential Statistics”, Energies, vol 13(7), 1668, 2020	WOS	1,67
	7	- Rares Catalin Nacu; Daniel Fodorean, „Harmonics Mitigation in DC Based Charging Stations for EVs”, 10th IEEE International Conference on Renewable Energy Research and Applications (ICRERA), 26-29 sept 2021, Istanbul, Turcia, 2021	WOS	1,67
	8	- Hannan Ahmad Khan, Mohd Zuhair, Mohd Rihan, <i>Analysis of varying PV penetration level on harmonic content of active distribution system with a utility scale grid integrated solar farm</i> , Australian Journal of Electrical and Electronics Engineering, vol. 19, issue 3, pp. 283-293, 2022.	BDI	1
	9	- Marko Ikić, Bojana Čolić, Jovan Mikulović, Srđan Jokić, <i>Impact assessment of irradiance and temperature variation on PV system current harmonics injection</i> , Proc. of 21st International Symposium INFOTEH-JAHORINA (INFOTEH) - IEEE, 16-18 March 2022, East Sarajevo, Bosnia and Herzegovina	BDI	1
8	1 WOS	F. Munteanu, C. Nemes, D. Astanei, <i>Power quality indices proposal for networks operating in sinusoidal and unbalanced conditions</i> , proceedings of 2014 International Symposium on Fundamentals of Electrical Engineering (ISFEE 2014), pp. 1 – 6, November 28 – 29, 2014, Bucharest, Romania CITATA de:	3 autori	1,67p

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	1	- R. Porumb, C. Toader, N. Golovanov, T. Leonida, G. Seritan, <i>Energy efficiency rating of transformers under unbalanced linear regime</i> , proceedings of 2015 Intl Aegean Conference on Electrical Machines & Power Electronics (ACEMP), 2015 Intl Conference on Optimization of Electrical & Electronic Equipment (OPTIM) & 2015 Intl Symposium on Advanced Electromechanical Motion Systems (ELECTROMOTION).	WOS	1,66
9	47 WOS 4 BDI	- V. Stoleru, R. Burlică, G. Mihalache, D. Dirlau, S. Padurean, G.C. Teliban, D. Astanei, A. Cojocaru, O. Beniuga, A. Patras, „Plant growth promotion effect of plasma activated water on <i>Lactuca sativa</i> L. cultivated in two different volumes of substrate”, <i>Scientific Reports (Nature)</i> , vol. 10, issue 1, Art. number 20920, 2020	10 autori	24,7p
	1	- Katarína Kučerová, Mária Henselová, Ľudmila Slovákova, Michaela Bačovčinová, Karol Hensel, „Effect of Plasma Activated Water, Hydrogen Peroxide, and Nitrates on Lettuce Growth and Its Physiological Parameters”, <i>Applied Sciences</i> , Vol. 11, issue 5, art. no. 11051985, 2021	WOS	0,5
	2	- Rajesh Prakash Guragain et.al., „Influence of plasma-activated water (PAW) on the germination of radish, fenugreek, and pea seeds”, <i>AIP Advances</i> , Vol. 11, art. no. 125304, 2021	WOS	0,5
	3	- Zuzana Lukacova, Renata Svubova, Patricia Selveková, Karol Hensel, „The Effect of Plasma Activated Water on Maize (<i>Zea mays</i> L.) under Arsenic Stress”, <i>Plants</i> , Vol. 10(9), art. no. 1899, 2021	WOS	0,5
	4	- Rajesh Prakash Guragain et.al., „Impact of Plasma-Activated Water (PAW) on Seed Germination of Soybean”, <i>Journal of Chemistry</i> , Vol. 2021, art. ID 7517052, 2021	WOS	0,5
	5	- Khanit Matra et.al., „Enhancement of Lettuce Growth by PAW Spray Gliding Arc Plasma Generator”, <i>IEEE Transactions on Plasma Science</i> , DOI: 10.1109/TPS.2021.3105733, 2021	WOS	0,5
	6	- Christina Sze, Benjamin Wang, Jiale Xu, Juan Rivas-Davila, Mark A. Cappell, „Plasma-fixated nitrogen as fertilizer for turf grass”, <i>RSC Advances</i> , vol. 11, art. no. 37886, 2021	WOS	0,5
	7	- H.A.Q. Than, T.H. Pham, D.K.V. Nguyen et al. „Non-thermal Plasma Activated Water for Increasing Germination and Plant Growth of <i>Lactuca sativa</i> L.”, <i>Plasma Chem Plasma Process</i> , vol. 42, pp. 73-89, 2022	WOS	0,5
	8	- V. Rathore, B.S. Tiwari, S.K. Nema, „Treatment of Pea Seeds with Plasma Activated Water to Enhance Germination, Plant Growth, and Plant Composition”, <i>Plasma Chem Plasma Process</i> , vol. 42, pp. 109-129, 2022	WOS	0,5
	9	- Shikhadri Mahanta, Mohammad Ruzlan Habib, Janie McClurkin Moore, „Effect of High-Voltage Atmospheric Cold Plasma Treatment on Germination and Heavy Metal Uptake by Soybeans (<i>Glycine max</i>)”, <i>International Journal of Molecular Sciences</i> , vol. 23, issue 3, art. no. 1611, 2022	WOS	0,5
	10	- K. Kosumsupala et. al., „Air to H ₂ -N ₂ Pulse Plasma Jet for In-Vitro Plant Tissue Culture Process: Source Characteristics”, <i>Plasma Chem Plasma Process</i> , vol. 42, pp. 535-559, 2022	WOS	0,5
	11	- R.P. Guragain, „Effects of Plasma-Activated Water on Soybean and Wheat: Germination and Seedling Development”, <i>Plasma Medicine</i> , vol. 12, issue 1, 2022, pp. 27-43, 2022 DOI: 10.1615/PlasmaMed.2022042374	BDI	0,3
	12	- Yawen Gao, Mingbo Li, Chao Sun, Xuehua Zhang, „Microbubble-enhanced water activation by cold plasma”, <i>Chemical Engineering Journal</i> , vol. 446, part 4, art. number 137318, 2022	WOS	0,5
	13	- H. Wang, Y. Zhang, H. Jiang, J. Cao, W. Jiang, „A comprehensive review of effects of electrolyzed water and plasma-activated water on growth, chemical compositions, microbiological safety and postharvest quality of sprouts”, <i>Trends in Food Science & Technology</i> , vol. 129, pp. 449-462, 2022.	WOS	0,5
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	2	- R. Mehrabifard, “Investigating the Effects of Cold Plasma on Cancer Cell Migration in the Presence of a Static Magnetic Field,” ECS Meet. Abstr., vol. MA2023-02, no. 53, p. 3437, Dec. 2023, doi: 10.1149/MA2023-02533437MTGABS	BDI	0,37
	3	- Mayura Veerana et al., „Recent Advances in Non-Thermal Plasma for Seed Germination, Plant Growth, and Secondary Metabolite Synthesis: A Promising Frontier for Sustainable Agriculture”, Plasma Chemistry and Plasma Processing, vol. 44, pp. 2263-2302, 2024	WOS	0,63
	4	- I.C. Gerbera, S. Simonb, B. Tatarcanb, G. Mihalachea, I. Mihailaa and I. Topala, „Plasma Treated Liquid: Reactive Species and Influence on Saline Stress in Quinoa Seeds”, Acta Physica Polonica A, no. 4, vol. 146, 2024	BDI	0,37
42	2 WOS	A. Mandici, D.E. Crețu, R. Burlică, D. Astanei, O. Beniugă, C. Roșu, D.C. Topa, T.G. Aostăcioaiei, A.C. Aprotosoiaie, A. Miron, „Preliminary Study on the Impact of Non-Thermal Plasma Activated Water on the Quality of Triticum aestivum L. cv. Glosa Sprouts”, Horticulturae, Vol. 8, issue 12, Art. number 1158, 2022.	10 autori	1p
	1	- Malihe Omrani, Mojtaba Ghasemi, Mohammad Modarresi and Ivan Salamon, „Alternations in Physiological and Phytochemical Parameters of German Chamomile (Matricaria chamomilla L.) Varieties in Response to Amino Acid Fertilizer and Plasma Activated-Water Treatments, Horticulturae, Vol. 9, issue 8, art. no. 857, 2023.	WOS	0,5
	2	- C. Robinson, K. Stapelmann, „Plasma treating water for nitrate based nitrogen fertilizer - A review of recent device designs”, Current Opinion in Green and Sustainable Chemistry, vol. 50, 100978, 2024	WOS	0,5
43	3 WOS	D.E. Crețu, R. Burlică, D. Astanei, I.D.Dirlau, O. Beniugă, „Energy Efficiency Evaluation of HV Power Supplies for Non-Thermal Plasma Generation”, Proc. of 2019 8th International Conference on Modern Power Systems (MPS), May 21-23, 2019, Cluj-Napoca, Romania.	5 autori	3p
	1	- Grzegorz Komarzyniec and Michał Aftyka, „Analysis of Plasma Reactor Interaction with the Power Grid Depending on the Power Supply Design”, Applied Sciences, vol 13, issue 4, art. no. 2279, 2023.	WOS	1

Nr crt.	Nr. citări	Lucrarea citata	Nr. autori Tip citare	Punctaj
	2	- Grzegorz Komarzyniec and Michal Aftyka, „Cooperation of the Plasma Reactor with a Converter Power Supply Equipped with a Transformer with Special Design”, Energies, vol 16, issue 19, art. no. 6825, 2023.	WOS	1
	3	- . K. Komarzyniec , H. D. Stryczewska, O.Boiko, „Non-Linear Phenomena in Voltage and Frequency Converters Supplying Non-Thermal Plasma Reactors”, Energies, vol. 17, issue 12, 2846, 2024	WOS	1
44	6 WOS	D. Astanei, R. Burlică, D.E. Crețu, M. Olariu, I. Stoica, O. Beniugă, „Treatment of Polymeric Films Used for Printed Electronic Circuits Using Ambient Air DBD Non-Thermal Plasma”, Materials, vol. 15, issue 5, art. number 1919, 2022	6 autori	5p
	1	- Thierry Dufour, „From Basics to Frontiers: A Comprehensive Review of Plasma-Modified and Plasma-Synthesized Polymer Films”, Polymers, vol 15, issue 17, art. no. 3607, 2023	WOS	0,83
	2	- Siti Fatimah Kamarudin, Nur Haziqah Abdul Aziz, Hing Wah Lee, Mariatti Jaafar, Suraya Sulaiman, „Inkjet Printing Optimization: Toward Realization of High-Resolution Printed Electronics”, Advanced Materials Technologies, vol. 9, issue 14, 2301875, 2024	WOS	0,83
	3	- S.T. Abd El-Latif, Kamal M. Ahmed, Sh.I. Elkalashy, M.F. Zaki, „Atmospheric–pressure DBD plasma modifying photoemission, optical and electrical properties of polycarbonate films” Inorganic Chemistry Communications, vol 161, 112048, 2024	WOS	0,83
	4	- Roshan Chalise et al., „Development and characterization of atmospheric pressure gliding Arc plasma jet”, Physica Scripta, vol. 99, issue 10, 105611, 2024	WOS	0,83
	5	- I. Stoica, A. I. Barzic, C. Ursu, G. Stoian, E. G. Hitruc, I. Sava, „Atomic Force Microscopy Probing and Analysis of Polyimide Supramolecular Systems for Sensor Devices”, Sensors, vol. 23, issue 9, 4489, 2023	WOS	0,83
	6	- Matthew J. Docherty, Paria Naderi, Gerd Grau, Khellil Sefiane, Alidad Amirfazli, „Inkjet Printing on Hydrophobic Surface: Practical Implementation of Stacked Coin Strategy”, vol. 26, issue 11, 2400237, 2024	WOS	0,83
45	1 WOS	T.A. Filip, I. Turcan, C.C. Simota, D.G. Astanei, M.A. Olariu, „Fabrication and Preliminary Evaluation of Flexible Screen-Printed Resistive Voltage Divider”, 2023 International Conference on Engineering and Emerging Technologies (ICEET), 27-28 oct. 2023, Istanbul, Turkey, DOI: 10.1109/ICEET60227.2023.10526109	5 autori	1p
		- Huang, Yuying, Luo, Yanshen, Zeng, Yanhan, „Picowatt Dual-Output Voltage Reference Based on Leakage Current Compensation and Diode-Connected Voltage Divider”, Electronics, vol. 13, issue 17, 3533, 2022	WOS	1
TOTAL			177 WOS	144,46
			54 BDI	33,93

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

Nr crt	Subcategorii	Rezultate (punctaje)	Activitatea
1	internațional	20	Profesor invitat pentru prelegeri la Universitatea din Orleans, Orleans, Franța, perioada 25 ianuarie – 9 februarie 2019
2	internațional	20	Profesor invitat pentru prelegeri la Universitatea din Orleans, Orleans, Franța, perioada 1 – 31 iulie 2021

Nr crt	Subcategorii	Rezultate (punctaje)	Activitatea
3	internațional	20	Profesor invitat pentru prelegeri la Universitatea din Orleans, Orleans, Franța, perioada 27 ianuarie – 10 februarie 2022
4	internațional	20	Profesor invitat pentru prelegeri la Universitatea din Orleans, Orleans, Franța, perioada 28 octombrie – 9 noiembrie 2024
TOTAL		80	

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

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorie	Activitatea / Revista / Manifestație
1					Jurnal - Surfaces and Interfaces (Elsevier)
	1	WOS	10	Recenzor revista	Hydrophilic Surface Modification of Polypropylene by High Frequency AC and ns Pulsed DBDs, manuscript number SURFIN-D-23-03991R2, data recenzie 1 – 16.01.2024, recenzie 2 – 08.02.2024
2					2024 13 th International Conference and Exposition on Electrical and Power Engineering (EPEI 2024), Iași, Romania, http://www.epe.tuiasi.ro/2024/
	2	BDI	6	Organizare conferință	Membru comitet organizare
	3	BDI	6	Recenzor conferință	“Superabsorbent ternary composite desiccants towards energy-efficient dehumidification in cooling systems”, Paper ID – 7
	4	BDI	6	Recenzor conferință	“Spectral analysis of serial arc fault triggering AFDD”, Paper ID – 23
	5	BDI	6	Recenzor conferință	“Monitoring of Medium Voltage Circuit Breakers using a Programmable Logic Controller”, Paper ID – 122
	6	BDI	6	Recenzor conferință	“About Contact Resistance Monitoring and Vibration Analysis of a Power Circuit Breaker”, Paper ID – 128
	7	BDI	6	Recenzor conferință	“Non-intrusive Monitoring of Consumers of the Power Station Internal Services”, Paper ID – 147
	8	BDI	6	Recenzor	“A Study on a Linear Actuator for the Electromagnetic Aircraft Launch System”, Paper ID – 184

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorii	Activitatea / Revista / Manifestație
				conferință	
3					Jurnal - HELIYON (Elsevier)
	9	WOS	10	Recenzor revista	Improvement of the surface properties of wool fabric by glow discharge plasma” - manuscript number HELIYON-D-24-65059, data recenzie 1 - 25.11.2024
4					Jurnal - Plants (MDPI)
	10	WOS	10	Recenzor revista	“Plasma activated water produced by a moderately high energy-efficient 1-liter reactor: effects on germination and growth of tomato and bell pepper plants” manuscript ID plants-3412686, data recenzie 1 - 31.12.2024, data recenzie 2 - 18.01.2025
5					Journal of Applied Physics https://aip.scitation.org/journal/jap
	11	WOS	10	Recenzor revista	Voltage-current characteristics of low-pressure discharges in vapours of several alcohols, Manuscript ID JAP21-AR-PLASMALI2021-00310R
6					Innovative Food Science and Emerging Technologies https://www.sciencedirect.com/journal/innovative-food-science-and-emerging-technologies
	12	WOS	10	Recenzor revista	Plasma activated water prepared by different plasma sources: characterization and decontamination effect, Manuscript ID IFSET-D-21-00344R1
7					Buletinul Institutului Politehnic din Iași http://www.bulipi-eee.tuiasi.ro/
	13	BDI	6	Recenzor revista	Carbon offset calculator
8					Propulsion and Power Research https://www.sciencedirect.com/journal/propulsion-and-power-research
	14	WOS	10	Recenzor revista	Multipoint laser ignition system and its applications Manuscript ID PPR-2019-0119
9					Plasma Chemistry and Plasma Processing https://www.springer.com/journal/11090
	15	WOS	10	Recenzor revista	Determination of the vibrational temperature of the N2 state (C3Iuvin Ar/N2 glow discharge Manuscript ID PCPP-20-BL-0105
10					2020 IEEE International Conference on Environment and Electrical Engineering, Madrid https://events.vtools.ieee.org/m/226775
	16	WOS	10	Recenzor conferință	PAPER ID 73 Study of a Thyatron-type Gas Discharge Interrupter with Improved Discharge Parameters in a High-Voltage Pulse Generator with Inductive Energy Storage
11					2020 International Conference and Exposition on Electrical and Power Engineering (EPE2020), Iași, Romania, http://www.epe.tuiasi.ro/2020/
	17	BDI	6	Recenzor conferință	PAPER ID 3897 Healthy Tankless Heating System
	18	BDI	6	Recenzor conferință	PAPER ID 3889 Combined Air-Heating Tankless System
	19	BDI	6	Recenzor conferință	PAPER ID 3905 Operating the highvoltage separator in romanian railway system using SCADA system
	20	BDI	6	Recenzor	PAPER ID 4046 Comparative Study of an External Rotor Permanent Magnet Synchronous Generator with

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorii	Activitatea / Revista / Manifestație
				conferință	Fractional Slot Concentrated Winding and Different Number of Pole Pairs for Wind Energy Applications
	21	BDI	6	Recenzor conferință	PAPER ID 4068 New solution for cereals, vegetables and fruits storage
	22	BDI	6	Recenzor conferință	PAPER ID 3853 Aspects Regarding the Loads Patterns Determination from the Internal Services of the Power Substations
	23	BDI	6	Recenzor conferință	PAPER ID 3964 Effects of Solid State Current Limiter on the Power Grid
	24	BDI	6	Recenzor conferință	PAPER ID 3893 Aspects Regarding the Infrared Monitoring of Electrical Equipment Temperature
	25	BDI	6	Recenzor conferință	PAPER ID 3879 Temperature monitoring of a railway separator using SCADA system
	26	BDI	6	Recenzor conferință	PAPER ID 3907 Temperature monitoring of the heating resistors of the railway switches from Romanian railway system
	27	BDI	6	Recenzor conferință	PAPER ID 3899 Mechanical Fault Detection by Vibration Monitoring of Electrical Equipment
	28	BDI	6	Recenzor conferință	PAPER ID 3988 Comparative analysis of parametric transformer and classical transformer operation
12					2022 12 th International Conference and Exposition on Electrical and Power Engineering (EPE2020), Iași, Romania, http://www.epe.tuiasi.ro/2022/
	29	BDI	6	Organizare conferință	Membru comitet organizare
	30	BDI	6	Recenzor conferință	PAPER ID 55 Study of Conduction Emissions of Household Appliances
	31	BDI	6	Recenzor conferință	PAPER ID 30 The Influence of TCSC Devices on Distance Protection Tripping Characteristic
	32	BDI	6	Recenzor conferință	PAPER ID 46 The Effects of TCSC Devices on the Power Grid
	33	BDI	6	Recenzor conferință	PAPER ID 57 Detection of electric arc faults by Arc Fault Detection Devices
	34	BDI	6	Recenzor conferință	PAPER ID 64 A non-enzymatic chronoamperometric glucose sensor based on Screen-Printed Carbon Electrode (SPCE) modified with Fe ₂ O ₃ magnetic nanoparticles via physical vapour deposition (PVD)
	35	BDI	6	Recenzor conferință	PAPER ID 67 Evaluation and comparison of the performance of air conditioning systems from fully electric cars and cars with a thermal engine
	36	BDI	6	Recenzor conferință	PAPER ID 124 Monitoring and Diagnosis of Electrical Equipment by Infrared Thermography
13					The Second International Conference on Mechanical, Electric and Industrial Engineering (MEIE2019), May 25-27, 2019, Hangzhou, China https://www.resurchify.com/conference_details.php?id=2356
	37	BDI	6	Recenzor conferință	PAPER ID MEIE26220 Study on initial combustion characteristics of kerosene based on inductive charging ignition system

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorii	Activitatea / Revista / Manifestație
14					Measurment (Elsevier) https://www.journals.elsevier.com/measurement
	38	WOS	10	Recenzor revista	PAPER ID MEAS-D-16-01574R1 Design And Development Of A Simple Timer Based RPM Measurement System
	39	WOS	10	Recenzor revista	PAPER ID MEAS-D-22-04946 Deconvolution based Correction of Pre-strike Arc Voltage Measurement in Medium Voltage Switches
15					Energy & Sustainability 2018 Symposium & Industry Summit, June 21-22, 2018, University of Windsor, Canada https://wise.uwaterloo.ca/calendar/energy_sustainability_2018_symposium_industry_summit
	40	BDI	6	Recenzor conferință	PAPER ID CF-4 Preliminary Simulation Study of Flow Field around a Spark Plug under Ambient and Engine Conditions
16					10th International conference and exposition on electrical and power engineering –EPE 2018, Oct. 2018 Iasi, Romania http://www.epe.tuiasi.ro/2018/
	41	WOS	10	Organizare conferință	Membru comitet organizare
	42	WOS	10	Recenzor conferință	PAPER ID 2584 Comparison between different power supplies used for cold plasma discharges: simulation and study of parameters of plasma activated water
	43	WOS	10	Recenzor conferință	PAPER ID 3418 Thermal Modeling and Simulations for Fast Electric Fuses”, 10th International conference and exposition on electrical and power engineering
	44	WOS	10	Recenzor conferință	PAPER ID 2520 Aspects Regarding Electrical Loads Pattern Recognition Using Artificial Neural Network
	45	WOS	10	Recenzor conferință	PAPER ID 2604 Aspects of High Current Intensity Testing of Current Paths
	46	WOS	10	Recenzor conferință	PAPER ID 3530 Short-circuit Thermal State of a Withdrawable Contact
	47	WOS	10	Recenzor conferință	PAPER ID 2535 Simulating Electrical Connections in Terms of Thermal Stresses”, 10th International conference and exposition on electrical and power engineerin
	48	WOS	10	Recenzor conferință	PAPER ID 2579 Thermal analysis of tankless heating system using PLC
	49	WOS	10	Recenzor conferință	PAPER ID 2598 Assessment of Data Centre Energy Efficiency. Methods and Metrics
	50	WOS	10	Recenzor conferință	PAPER ID 2637 Application of Industrial Profibus-DP protocol
17					International conference on energy engineering and environmental protection, November 19-21, 2018, Sanya, China http://www.iceeep.org/2019/
	51	WOS	10	Recenzor conferință	PAPER ID EEEP29990 Comparative Analysis of a Four Stroke Spark Ignition Engine Performance Using Local Ethanol and Gasoline Blends
18					International conference on energy engineering and environmental protection, November 19-20, 2022, Zhuhai, China http://www.iceeep.org/
	52	BDI	6	Recenzor	PAPER ID EEEP71429-60 Research progress on key factors of dielectric-barrier discharge plasma for

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorie	Activitatea / Revista / Manifestație
				conferință	wastewater treatment
19					9th International conference and exposition on electrical and power engineering –EPE 2016, Oct. 2016 Iasi, Romania http://www.epe.tuiasi.ro/2016/
	53	WOS	10	Organizare conferință	Membru comitet organizare
	TOTAL		406		

3.5. Referent în comisii de doctorat

Nr crt	Subcategorii	Rezultate (punctaje)	Premiul
1	Național	5	Membru comisie susținere publică a tezei de doctorat a dlui Daniel-Eusebiu Crețu, Decizia Rectorului Universității Tehnice „Gheorghe Asachi” din Iași nr. 2892 din 10.10.2023
	TOTAL		5

3.6. Premii

Nr crt	Subcategorii	Rezultate (punctaje)	Premiul
1	Internațional	10	Excellent paper award – oral session, International Conference Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies, ATOM-N 2016, SPIE – International society for optics and photonics, Constanta, Romania.
2	CNCS / UEFISCDI	15	Premierea rezultatelor cercetării 2021, articol zona galbenă, cod de depunere: PN-III-P1-1.1-PRECISI-2021-55507, Lista 1(parțial 1) 10.11.2021
3	CNCS / UEFISCDI	15	Premierea rezultatelor cercetării 2021, articol zona roșie, cod de depunere: PN-III-P1-1.1-PRECISI-2021-58293, Lista 1(parțial 2) 26.11.2021
4	CNCS / UEFISCDI	15	Premierea rezultatelor cercetării 2020, articol zona galbenă, cod de depunere: PN-III-P1-1.1-PRECISI-2020-41393, Lista 1(parțial 1) 30.10.2020
5	CNCS / UEFISCDI	15	Premierea rezultatelor cercetării 2019, articol zona roșie, cod de depunere: PN-III-P1-1.1-PRECISI-2019-37117, Lista 13/2019
6	CNCS / UEFISCDI	15	Premierea rezultatelor cercetării 2018, articol zona galbenă, cod de depunere: PN-III-P1-1.1-PRECISI-2018-26418, Lista 8/2018
7	Internațional	10	Medalia de Aur la ediția a 16-a EUROINVENT - European Exhibition of Creativity and Innovation 2023, Iași, Romania - https://www.euroinvent.org/

Nr crt	Subcategorii	Rezultate (punctaje)	Premiul
8	Național	5	Premiul TUIASI de excelență în cercetarea științifică în anul 2023 - Premiul pentru cele mai bune performante în inovare și transfer tehnologic
9	Național	5	Premiul TUIASI de excelență în cercetarea științifică în anul 2023 - Premiul pentru grupul care a contribuit la atragerea celor mai multe fonduri publice pentru cercetarea științifică – coordonator grup Prof. Radu Burlică
10	CNCS / UEFISCDI	15	Premierea rezultatelor cercetării 2023, articol zona roșie, cod de depunere: PN-IV-P2-2.3-PRECISI-2023-85647, Lista 1(articole 2022) 21.12.2023
11	CNCS / UEFISCDI	15	Premierea rezultatelor cercetării 2023, articol zona galbenă, cod de depunere: PN-IV-P2-2.3-PRECISI-2023-71466, Lista 1(articole 2022) 21.12.2023
12	CNCS / UEFISCDI	15	Premierea rezultatelor cercetării 2023, articol zona roșie, cod de depunere: PN-IV-P2-2.3-PRECISI-2023-68415, Lista 1(articole 2022) 21.12.2023
TOTAL		150	

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

Educației și Cercetării				
Nr crt	Subcategorii	Nationale/ internationale	Punctaj	Asociația
1	3.7.4. Asociații profesionale	Nationala	2	Membru SETIS – Societatea Absolvenților Facultății de Electrotehnică din Iași
2		Internationala	5	Membru IAENG – International Association of Engineers
TOTAL			7	

Data:
15.10.2025

Semnătura
Astanei Dragoș-George



Numele și prenumele: **Astanci Dragoș-George**

Funcția didactică: **conferențiar universitar**

Facultatea/ Departamentul: **Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată / Departamentul de Energetică**

FIȘA DE VERIFICARE
a îndeplinirii standardelor universității pentru postul de conferențiar universitar
(concurs pentru acordarea gradației de merit)

Tabelul 1. Standardul minimal al universității SMU.CONF.1 – Activitatea didactică

Standardul minimal al universității SMU.CONF.1 – Activitatea didactică	Indicatori de performanță		Realizări (se trec cifrele de ordine ale realizărilor cuprinse în lista de lucrări, iar, după caz, celelalte realizări se nominalizează explicit)	Punctaj/ realizare	Număr impus de realizări	Număr de realizări ale candidatului	Număr puncte	
Valoarea contribuțiilor la dezvoltarea activităților didactice / profesionale, prin cărți/ capitole publicate în edituri recunoscute CNCS, sisteme de laborator funcționale, metode de lucru avansate aplicate etc. - după caz, cu referire distinctă la realizările după acordarea ultimului titlu didactic/ grad profesional.	Ca	Carte/ curs/ manual publicată în străinătate		8	-			
		Capitol carte/ curs/ manual publicat în străinătate		6	-			
		Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)	Ca1, Ca2	6	1	2	13,87	
		Capitol curs/ manual publicat în editură recunoscută CNCS		3	-			
	I	Indrumar laborator/ proiect/ lucrări seminar/ culegere de probleme (publicat sau disponibil pe Web)	I1	4	1	1	2,92	
	D	Sisteme de laborator funcționale (numai pentru disciplinele prevăzute cu lucrări de laborator/ proiect/ lucrări)	Amenajare lucrare nouă de laborator cu instalație experimentală	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15	2	2	15	24
			Amenajare/ concepere lucrare nouă de laborator/ proiect/ simulare pe calculator/ studiu de caz		1.5			
	W	Utilizarea sistemelor de predare/ învățare/	Suport de studiu/ autoinstruire pe Web pentru seminar, laborator, proiect (integral pentru o disciplină)		1	1		

		evaluare de tip e-learning/ on-line/ multimedia etc.	Suport de prezentare/ instruire text/ video/ audio/ ppt a disciplinei	W1, W2	1	2	1,5
Total uncta SMU.CONF.1 (min. 16)							42,29

Detaliere punctaj în conformitate cu Anexa 3 la Procedura PO.DID.12

		Indicatori	Punctaj
Ca		Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)	
	Ca1	Dragoș Astanei, Radu Burlică, Tehnici de comutație – note de curs , Editura PIM, Iași, 2022, ISBN: 978-606-13-7147-1, 230 pag	5,75
	Ca2	Radu Burlică, Dragoș Astanei, Plasma non-termică: Fundamente, Aplicații, Analiză , Editura PIM, Iași, 2020, ISBN 978-606-13-5944-8, 325 pag	8,12
I		Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)	
	I1	Dragoș Astanei, Radu Burlică, Tehnici de comutație – aplicații , Editura PIM, Iași, 2022, ISBN: 978-606-13-7148-8, 146 pag	2,92
D		Sisteme de laborator funcționale	
	D1	Dragoș Astanei, Întrerupătoare de joasă tensiune de tip miniatură – instalație experimentală	2
	D2	Dragoș Astanei, R. Burlică, Studiul sistemelor de comandă și protecție ale motoarelor asincrone – instalație experimentală	1
	D3	Dragoș Astanei, R. Burlică, Studiul funcționării contactorului cu vid – instalație experimentală	1
	D4	R. Burlică, Dragoș Astanei, Sisteme de protecție la supratensiuni – instalație experimentală	1
	D5	Dragoș Astanei, R. Burlică, Analiza funcționării releelor de comandă și control – instalație experimentală	1
	D6	Dragoș Astanei, R. Burlică, Studiul releelor de curent – instalație experimentală	1
	D7	Dragoș Astanei, Întrerupătoare ultrarapide de curent continuu – instalație experimentală	2
	D8	Dragoș Astanei, Analiza funcționării sistemelor de anclanșare automată a rezervei – instalație experimentală	2
	D9	Dragoș Astanei, Întrerupătoare cu protecție diferențială – instalație experimentală	2
	D10	Dragoș Astanei, Studiul funcționării releelor cu logică programabilă de tip Easy – instalație experimentală	2
	D11	Dragoș Astanei, Întrerupătoare pentru protecție împotriva apariției arcului electric în instalații electrice de joasă tensiune – instalație experimentală	2
	D12	Dragoș Astanei, Contactorul static de curent continuu – instalație experimentală	2
	D13	Dragoș Astanei, Contactorul static de curent alternativ – instalație experimentală	2
	D14	Burlică Radu, Dragoș Astanei, Pornirea stea-triunghi a motoarelor asincrone – instalație experimentală	1
	D15	Dragoș Astanei, Integrarea convertizorului de frecvență în cadrul schemelor de alimentare și control al motoarelor asincrone – instalație experimentală	2
W		Utilizarea sistemelor de predare/ învățare/ evaluare de tip e-learning/ on-line/ multimedia etc.	
	W1	Dragoș Astanei, Set prezentări în format PPT pentru disciplina Tehnici de comutație – https://edu.tuiasi.ro/course/view.php?id=1743	1
	W2	Radu Burlică, Dragoș Astanei, Set prezentări în format PPT pentru disciplina Electroecologie – https://edu.tuiasi.ro/course/view.php?id=3407	0,5
TOTAL			42,29

Data: 15.10.2025

Candidat Dragoș-George Astanei