

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
FACULTATEA DE INGINERIE ELECTRICĂ, ENERGETICĂ ȘI INFORMATICĂ APLICATĂ
DEPARTAMENTUL DE ENERGETICĂ

Examen de promovare pentru ocuparea postului de **conferențiar universitar**, poz. 13

Disciplinele postului: **Producerea energiei electrice și termice**
Energetica clădirilor

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale de prezentare la examenul de promovare pe postul de
conferențiar universitar

Candidat: **BENIUGĂ Constantin Răzvan** / Data nașterii: **21.05.1979**, Funcția actuală: **Șef de lucrări**, Data numirii în funcția actuală: **13.02.2017**, Instituția:
Universitatea Tehnică "Gheorghe Asachi" din Iași

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

Nr. crt.	Domeniul de activitate	Condiții conferențiar	Punctaj obținut
1	Activitatea didactică/profesională (A1)	Minimum 60	257,3
2	Activitatea de cercetare (A2)	Minimum 180	364,63
3	Recunoașterea impactului activității (A3)	Minimum 60	939,54
TOTAL		Minimum 300	1561,47

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)		-
				1.1.1.2 naționale	nr. pagini/ (5*nr autori)	2	56,8
			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 Manuale, suport de curs inclusiv electronic: conferențiar minimum 1		nr. pagini/ (10*nr. autori)	7	163,5
			1.2.2 Îndrumare de laborator/ aplicații: conferențiar minimum 1		nr. pagini/ (20*nr. autori)	2	17
		1.3 Coordonare de programe de studii, organizare și coordonare programe de formare continuă și proiecte educaționale (POS, ERASMUS, sa)	Punctaj unic pentru fiecare activitate		10	2	20
TOTAL Puncte Activitatea didactică/profesională (A1)					257,3		
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	Conferențiar: Minim 7 articole, din care minimum 2 în reviste		(25 + 20 * factor impact ⁽²⁾) / nr. de autori	18 din care 3 în reviste	172,77
		2.2 Articole în reviste și volumele unor manifestări științifice indexate în alte baze de date internaționale (BDI ⁽³⁾)	Conferențiar: Minim 15 articole		20/nr. de autori	25	150,26
		2.3 Brevete de invenție indexate în alte baze de date		2.3.1 internaționale	25/nr. de autori		-
				2.3.2 naționale	15/nr. de autori		-
		2.4 Granturi/proiecte câștigate prin competiție națională/internațională	2.4.1 Director/responsabil proiect - Minimum 1 pentru	2.4.1.1 internaționale	20*ani de desfășurare		-
				2.4.1.2 naționale	10*ani de desfășurare	2	31,6

		(4)	conferențiar				
			2.3.2 Membru in echipa	2.4.2.1 internaționale	4*ani de desfășurare		-
				2.4.2.2 naționale	2*ani de desfășurare		-
		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	5	10
TOTAL PUNCTE Activitatea de cercetare (A2)					364,63		
3	Recunoașterea impactului activității (A3)	3.1 Citări în reviste WOS și volumele conferințelor WOS ⁽⁵⁾	3.1.2 WOS (conferențiar: minimum 4 citări)		5/nr. autori ai art. citat	80	125,09
		3.2 Citări în reviste și volumele conferințelor BDI ⁽⁵⁾	3.2.2 BDI (conferențiar: Minimum 8 citări)		3/nr. autori ai art. citat	74	71,45
		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		-
				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	47	480
				3.4.2 BDI	6	38	234
				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		-
		3.6 Premii		Academia Romana	30		-
				ASAS, AOSR, academii de ramura și CNCS	15		-
				premii internaționale	10		-

				premiu național în domeniu	5		-
		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 Romana		100		-
			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	5	25
				naționale	2	2	4
			3.7.5 Consilii și organizații în domeniul educației și cercetării	Conducere	15		-
		Membru		10		-	
Total puncte Recunoașterea impactului activității (A3)					939,54		
Total puncte					1561,47		

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	Național	20,8	<i>Provocări privind integrarea centralelor eoliene în sistemul energetic</i> , Autori Răzvan Beniugă , Marcel Istrate, ISBN 978-973-621-520-9, Editura Politehnicum, Iași, 2023	208
2	Național	36	<i>Clădiri eficiente energetic. Soluții și strategii pentru îndeplinirea standardului NZEB</i> , Autor Răzvan Beniugă , ISBN 978-606-13-8955-1, Editura PIM, 2025	180
	TOTAL	56,8 p		

1.2. Suport didactic

1.2.1 Manuale, suport de curs inclusiv electronic

Nr. crt.	Subcategorii	Rezultate (punctaje)	Cărți și capitole în cărți de specialitate	Nr pagini
0	1	2	3	4
1	Suport de curs	23,3	<i>Producerea energiei electrice și termice – Suport de curs</i> , Autor Răzvan Beniugă, ISBN 978-606-13-9252-0, Editura PIM, 2025	233
2	Suport de curs electronic	7,8	<i>Sustainable Energy - Part B – Clean coal technology</i> , suport de curs în limba engleză, Autori Marcel Istrate, Răzvan Beniugă , disponibil la adresa http://iota.ee.tuiasi.ro/~tti/materiale/sustainable/Sustainable%20Energy-Part%20B.pdf	156
3	Suport de curs electronic	29,9	Set prezentări în format PPT pentru disciplina <i>Energetica clădirilor</i> – Răzvan Beniugă , disponibil la adresa https://edu.tuiasi.ro/course/view.php?id=3321	299
4	Suport de curs electronic	16,6	Set prezentări în format PPT pentru disciplina <i>Echipamente și instalații termice</i> – Răzvan Beniugă , disponibil la adresa https://edu.tuiasi.ro/course/view.php?id=5640	166
5	Suport de curs electronic	30,9	Set prezentări în format PPT pentru disciplina <i>Gestiunea deșeurilor</i> – Răzvan Beniugă , disponibil la adresa https://edu.tuiasi.ro/course/view.php?id=3149	309
6	Suport de curs electronic	20,9	Set prezentări în format PPT pentru disciplina <i>Audit energetic</i> – Răzvan Beniugă , disponibil la adresa https://edu.tuiasi.ro/course/view.php?id=3944	209

7	Suport de curs electronic	34,1	Set prezentări în format PPT pentru disciplina <i>Sisteme expert aplicate în energetică</i> – Răzvan Beniugă – disponibil la adresa https://edu.tuiasi.ro/course/view.php?id=2026	341
	TOTAL	163,5		

1.2.2 Îndrumare de laborator/ aplicații

Nr. crt.	Subcategorii	Rezultate (punctaje)	Cărți și capitole în cărți de specialitate	Nr pagini
0	1	2	3	4
1	Îndrumar de laborator	10,85	<i>Producerea energiei electrice și termice – îndrumar de laborator</i> , Răzvan Beniugă , ISBN: 978-606-13-8016-9, Editura PIM, 2023	217
2	Îndrumar de proiect	6,15	<i>Eficiența energetică a clădirilor – îndrumar de proiect</i> , Răzvan Beniugă , ISBN: 978-606-13-9181-3, Editura PIM, 2025	123
	TOTAL	17,0		

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 electrică, energetică între Facultatea IEEIA si UNIVERSITY OF ŽILINA, Faculty of Electrical Engineering and Information Technology, SLOVACIA (semnat în anul 2023), ID 12749502
2	Național	10	Coordonator studii de master, specializarea <i>Management Energie Mediu</i> , anul II de studiu
	TOTAL	20	

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
0	1	2	3
1	14,16	<i>Photovoltaic Panel System with Optical Dispersion of Solar Light for Greenhouse Agricultural Applications</i> , Beniuga, Constantin Razvan , Bogdan Andrei Pingescu, Oana Cristina Beniuga, Alin Dragomir, Dragos-George Astanei, and Radu Burlica, AgriEngineering 7, no. 4: 125. https://doi.org/10.3390/agriengineering7040125 , WOS:001474731900001, 2025.	3,0

2	35,66	<i>Wind Shear Coefficient Estimation Based on LIDAR Measurements to Improve Power Law Extrapolation Performance</i> , Machidon, Dragos, Marcel Istrate, and Razvan Beniuga , Remote Sensing 17, no. 1: 23. https://doi.org/10.3390/rs17010023 , WOS:001393632700001, 2025	4,1
3	13,8	<i>A Continuous Multistage Load Shedding Algorithm for Industrial Processes Based on Metaheuristic Optimization</i> , Baiceanu, Florin-Constantin, Ovidiu Ivanov, Razvan-Constantin Beniuga , Bogdan-Constantin Neagu, and Ciprian-Mircea Nemes, Mathematics 11, no. 12: 2684. https://doi.org/10.3390/math11122684 , WOS:001017561300001, 2023.	2,2
4	6,25	<i>Performance analysis of double-axis orientating Low Concentration Photovoltaic Systems</i> , D. Machidon, M. Istrate, R. Oprea and R. Beniuga , 2021 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2021, pp. 1-5, doi: 10.1109/MPS52805.2021.9492623, WOS:000941563300054	0
5	6,25	<i>Transient of High Voltage Circuit Breakers Intelligent Switching during Grid Faults</i> , F. C. Baiceanu, O. Beniugă, R. Beniugă , F. T. Munteanu, Proceedings of the 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, pp. 1-4, doi: 10.1109/MPS52805.2021.9492555, WOS:000941563300016, 2021.	0
6	6,25	<i>The Influence of Feedwater Preheaters on the Power Plant Thermal Efficiency</i> , R. Beniugă , O. Beniugă, F. Băiceanu, M. Istrate, Proceedings of the 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, pp. 1-5, doi: 10.1109/MPS52805.2021.9492627, WOS:000941563300057, 2021	0
7	6,25	<i>Wind Power in Romania Energy Mix Towards Sustainable Development</i> , R. Beniugă , O. Beniugă, D. Machidon, M. Istrate, Proceedings of the 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, pp. 1-4, doi: 10.1109/MPS52805.2021.9492673, WOS:000941563300081, 2021.	0
8	8,33	<i>Wind farms behaviour at power grid voltage dips</i> , Răzvan Beniugă , Marcel Istrate, Oana Beniugă, Proceedings of the 8th International Conference on Modern Power Systems (MPS), Cluj Napoca, Romania, pp. 1-4. doi: 10.1109/MPS.2019.8759716, WOS:000612401900076, 2019.	0
9	6,25	<i>Determination of Optimum Tilt Angle for Fixed Photovoltaic Modules in Iasi, Romania</i> , R. Oprea, M. Istrate, D. Machidon and R. Beniuga , 2019 8th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Cluj, Romania, 2019, pp. 1-6, doi: 10.1109/MPS.2019.8759661, WOS:000612401900012	0
10	8,33	<i>Assessment of DFIG wind turbine overvoltage protection system for grid stability</i> , Răzvan Beniugă , Oana Beniugă, Dragos Machidon, Proceedings of the 8th International Conference on Modern Power Systems (MPS), Cluj Napoca, Romania, 2019, pp. 1-4. doi: 10.1109/MPS.2019.8759716, WOS:000612401900125, 2019.	0
11	6,25	<i>Educational Resource for Wind Turbine Behaviour Assessment</i> , Răzvan Beniugă , Marcel Istrate, Oana Beniugă, Dragoș Machidon, Proceedings of the 2018 International Conference and Expositions on Electrical and Power Engineering, pp.395-398 IEEE Catalog Number: CFP1847S-USB ISBN: 978-1-5386-5061-5, WOS:000458752200075, 2018.	0
12	6,25	<i>Experimental Evaluation of the Optimum Tilt Angle for Fixed Photovoltaic Modules</i> , O. Roxana, I. Marcel, M. Dragos and B. Razvan , 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2018, pp. 0594-0598, doi: 10.1109/ICEPE.2018.8559879, WOS:000458752200115	0
13	6,25	<i>Using Petri Net Tool to Study the Dynamic Behaviour of Power Systems Protections</i> , Oana Beniugă, Razvan Beniuga , Mihai Leca, Gabriel Constantin Sârbu, Proceedings of the 2018 International Conference and Expositions on Electrical and Power Engineering, pp. 416-419, IEEE Catalog Number: CFP1847S-USB ISBN: 978-1-5386-5061-5, WOS:000458752200079, 2018.	0
14	8,33	<i>Crowbar protection impact on wind farm behaviour during grid disturbance</i> , Răzvan Beniugă , Marcel Istrate, Oana Beniugă, Proceedings of the 7th International Conference on Modern Power Systems (MPS), ISBN 978-1-5090-6565-3, WOS:000428462600021, 2017.	0
15	12,5	<i>3D Assessment of ESD field level for protection devices safety</i> , Oana Beniugă, Razvan Beniuga , Proceedings of the 10th International Symposium on Advanced Topics in Electrical Engineering March 23-25, ISBN: 978-1-5090-5160-1, pp. 354-357, WOS:000403399400069, 2017	0

16	8,33	<i>Assessment of Influence of Grid Disturbances on Wind Turbine DFIG Converters</i> , Oana Beniugă, Mihai Leca, Razvan Beniuga , Proceedings of the 2016 International Conference and Exposition on Electrical and Power Engineering, ISBN: 978-1-5090-6128-0, pp. 693-696, WOS:000390706300137, 2016	0
17	8,33	<i>Comparative analysis of the perturb-and-observe and incremental conductance MPPT methods</i> , I. V. Banu, R. Beniugă and M. Istrate, 2013 8th International Symposium on Advanced Topics In Electrical Engineering (ATEE), Bucharest, Romania, 2013, pp. 1-4, doi: 10.1109/ATEE.2013.6563483, WOS:000332928500137, 2013.	0
18	5	<i>Wind turbine crowbar reliability related on electric charge accumulation/discharge</i> , O. Beniugă, R. Beniuga , P. Bicleanu, A. Nicuta, S. Ursache, 2012 International Conference and Exposition on Electrical and Power Engineering, Iasi, Romania, 2012, pp. 900-903, doi: 10.1109/ICEPE.2012.6463818, WOS:000324685300166, 2012.	0
Total	172,77 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	<i>Pathways to Efficient Agrivoltaics Through Functional Requirements and Light Dispersion Constraints for Photovoltaic Greenhouses</i> , C. R. Beniugă , M. Ș. Tîrșu, R. Burlică, D. G. Astanei, B. -A. Pingescu and O. C. Beniugă, 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 784-787, doi: 10.1109/SIELMEN67352.2025.11260761
2	4	<i>AI-Based Optimization of Turbine Selection for Wind Farms Using Python and Machine Learning</i> , C. R. Beniugă , E. B. Bedrule, D. - L. Machidon, O. C. Beniugă and D. M. Istrate, 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 674-678, doi: 10.1109/SIELMEN67352.2025.11260854
3	3,33	<i>Enhancing Reactive Species Availability for Plant Growth Through Plasma-Activated Water Integration in Sustainable Farming</i> , O. C. Beniuga, B. -A. Pingescu, C. R. Beniuga , D. G. Astanei, F. Lebeau and R. Burlica, 2025 International Conference on Electromechanical and Energy Systems (SIELMEN), Iasi, Romania, 2025, pp. 1-6, doi: 10.1109/SIELMEN67352.2025.11260654
4	3,33	<i>High conductivity solution treatment by non-thermal plasma T-shaped mini electrochemical reactors</i> , B. A. Pingescu, V. D. Asmarandei, D. G. Astanei, O. C. Beniugă, C. R. Beniugă and R. Burlică, 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 616-619, doi: 10.1109/EPEi63510.2024.10758144
5	6,66	<i>Wind Speed Estimation based on Power Law Extrapolation Technique</i> , D. Machidon, M. Istrate and R. Beniuga , 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 227-231, doi: 10.1109/EPEi63510.2024.10758142
6	3,33	<i>Cost-effectiveness and sustainability analysis of a NZEB house</i> , R. Beniugă , D. Machidon, P. S. Popa, O. Beniugă, F. Băiceanu and M. Istrate, 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 187-192, doi: 10.1109/EPEi63510.2024.10758113
7	6,66	<i>Comparing the concept of Nearly Zero-Energy Buildings between EU countries in terms of required renewable energy share</i> , P. S. Popa, R. Beniugă and M. Istrate, 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 164-169, doi: 10.1109/EPEi63510.2024.10758182
8	5	<i>Thermostat Behavior Analysis in Smart Home Environment Using Petri Nets</i> , O. C. Beniugă, C. R. Beniugă , D. G. Astanei and R. Burlică, 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 390-393, doi: 10.1109/EPEi63510.2024.10758167
9	6,66	<i>House heating system thermal dynamics assessment using Petri Net approach</i> , O. Beniugă, R. Beniugă , F. Băiceanu, Proceedings of 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2023, pp. 01-05, doi: 10.1109/MPS58874.2023.10187544.

10	6,66	<i>An Application of LIDAR Technology for Wind Speed Measurement</i> , Dragos Machidon; Marcel Istrate; Razvan Beniuga , 10th International Conference on Modern Power Systems (MPS) 2023, Conference paper, DOI: 10.1109/mps58874.2023.10187425
11	4	<i>NZEB compliance principles in Romania for residential buildings</i> , R. Beniugă , O. Beniugă, D. Machidon, F. Băiceanu, M. Istrate, Proceedings of 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2023, pp. 01-06, doi: 10.1109/MPS58874.2023.10187523.
12	5	<i>Quality Assessment of Power Transformers Differential Protection Behavior Using Harmonic Restraint Techniques</i> , F. C. Baiceanu, O. Beniugă, R. C. Beniuga , E. I. Diac, Proc. of the 2020 International Conference and Exposition on Electrical and Power Engineering (EPE), 2020, pp. 680-684, doi: 10.1109/EPE50722.2020.9305610.
13	5	<i>Energy Output Increase by Using a Periodic Orientation System for Fixed Photovoltaic Panels</i> , D. Machidon, R. Oprea, M. Istrate and R. Beniuga , 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 388-391, doi: 10.1109/EPE50722.2020.9305626.
14	10	<i>Assessing operational planning performance among wind power system based on N-1 criterion</i> , Beniugă Oana, Beniugă Răzvan , Proc. of the 22nd IMEKO TC4 International Symposium and 20th International Workshop on ADC Modelling and Testing 2017: Supporting World Development Through Electrical and Electronic Measurements, 2017-September, pp. 435-438
15	5	<i>Organic pollutants removal from aqueous solutions by surface gliding discharges</i> , Iuliana-Delicia Dîrlau, Oana Beniugă, Radu Burlică, Răzvan Beniugă , 4th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC4), 28 - 31 August 2017, Chisinau – Republica Moldova, ISBN 978-3-940237-47-7
16	10	<i>Wind Farms' Grid Connection And Protection Requirements For Sustainable Development</i> , Oana Beniuga, Razvan Beniuga , Proceedings of International Conference “Energy Of Moldova – 2016. Regional aspects of development” 29 September – 01 October, 2016 - Chisinau, Republic of Moldova, ISBN 978-9975-4123-5-3 pg. 478 – 481
17	10	<i>Grid fault outcome on assessing DFIG wind turbine voltage recovery output</i> , Răzvan Beniugă , Oana Beniugă, Buletinul Institutului Politehnic din Iasi, Vol. 62 (66) FASC. 4, 2016, Electrotechnics, Energetics, Electronics, ISSN 1223-8139, pp.79-84 (cod CNCIS 87)
18	6,66	<i>Electromagnetic compatibility problems involved by ESD Magnetic Field Radiation</i> , Oana Beniugă, Karol Kovac, Răzvan Beniugă , 5th International Conference On Modern Power System, MPS 2013, 28-31 Mai, Cluj-Napoca, România, Acta Electrotehnica, ISSN 1841-3323, Volume 54, Number 5, 2013, pp.55-58
19	6,66	<i>Study on Temperature for Modeling of Photovoltaic Solar Array using Experimental Test Data</i> , Banu Ioan Viorel, Beniugă Răzvan , Istrate Marcel, 5th International Conference On Modern Power System, MPS 2013, 28-31 Mai, Cluj-Napoca, România, Acta Electrotehnica, ISSN 1841-3323, Volume 54, Number 5, 2013, pp.51-54
20	6,66	<i>One-end Data Fault Location Algorithm for Transmission Grids</i> , Dragomir Marian, Machidon Dragos, Beniuga Razvan , 5th International Conference On Modern Power System, MPS 2013, 28-31 Mai, Cluj-Napoca, România, Acta Electrotehnica, ISSN 1841-3323, Volume 54, Number 5, 2013, pp.175-178
21	6,66	<i>Behavior of Doubly-Fed Induction Generator Wind Turbines with crowbar System during Grid Faults</i> , Beniugă Răzvan , Banu Ioan Viorel, Istrate Marcel, 5th International Conference On Modern Power System, MPS 2013, 28-31 Mai, Cluj-Napoca, România, Acta Electrotehnica, ISSN 1841-3323, Volume 54, Number 5, 2013, pp.59-63
22	10	<i>DFIG Wind Turbine dynamic under the stress of power system faults</i> , Constantin-Razvan Beniuga , Marcel Istrate, Buletinul AGIR nr. 3/2012 iunie- august , ISSN-L 1224-7928, pp.429 – 434
23	5	<i>Assessment of two-end data fault location algorithms for transmission grids</i> , Marian Dragomir, Marcel Istrate, Razvan Beniuga , Dragos Machidon, Buletinul AGIR nr. 3/2012 iunie- august , ISSN-L 1224-7928, pp.435-438
24	4	<i>The use of wap applications to prevent large blackouts in the north-east romanian power grid</i> , Alexandru Miron, Marian Dragomir, Razvan Beniuga , Crenguta E. Bobric, Cezar Popa, Buletinul AGIR nr. 3/2012 iunie- august , ISSN-L 1224-7928, pp.497-502
25	6,66	<i>Reactive power compensation for grid-connected wind farms that use induction generators and pitch control systems</i> , Iftime Cornel Marian, Gușă Mircea Dan, Beniugă Constantin Răzvan , Acta Electrotehnica, Volumul 52, Numărul 5, 2011
TOTAL	150,26 p	

2.3. Proprietate intelectuală, brevete de invenție

Nr crt	Subcategorii	Rezultate (punctaje)	Titlul proiectului
0	1	2	3
1	Național	0	Cerere de brevet – R. Burlică, D. Astanei, O. Beniugă, A. Dragomir, R.Beniuga , <i>Sistem de panouri fotovoltaice cu dispersie optică a luminii solare pentru aplicații în agricultură</i> , Cerere de brevet nr. nr. A00557/ 06.10.2023.
TOTAL		0	

2.4. Granturi / proiecte câștigate prin competiție

Nr crt	Subcategorii	Rezultate (punctaje)	Titlul proiectului	Calitate (director / membru)
0	1	2	3	4
1	Național	10*1,08 ani=10,80p	<p>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)</p> <p>- Proiect finanțat de UEFISCDI PN-IV-P8-8.3-PM-RO-BE-2024-0011</p> <p>- Contract nr. 7BMBE/2024, perioada 2024-2025 (13 luni)/ Valoare contract 24.100 RON</p> <p>- Director proiect: Răzvan Beniugă</p>	Director de proiect
2	Național	10*2 ani=20,0p	<p>Titlu: Integrarea sinergică a panourilor fotovoltaice complexe cu sistem de dispersie a luminii și a tehnologiilor de producere a apei activate cu plasmă non-termică în agricultura durabilă în sere (Synergistic integration of complex photovoltaic-panels with light dispersion system and Non-Thermal Plasma Activated Water technologies in sustainable greenhouse farming)</p> <p>- Proiect finanțat de UEFISCDI PN-IV-PCB-RO-MD-2024-0382</p> <p>- Contract nr. 6PCBROMD/2025, perioada 2025-2027 (24 luni)/ Valoare contract 600.000 RON</p> <p>- Director proiect: Răzvan Beniugă</p>	Director de proiect
3	Național (grant intern TUIASI)	2*0,4 ani=0,8p	<p>Titlu: Organic pollutant reformation to green hydrogen using non-thermal plasma technologies REFORM2H2</p> <p>Proiect finanțat de Universitatea Tehnică Gheorghe Asachi din Iași, Grant intern nr. GI/P11_IDEI 2021</p> <p>- Durata de derulare: 01.08.2021 - 15.12.2021</p> <p>- Director proiect: Oana Beniugă</p>	Membru
TOTAL		31,60 p		

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

Nr crt	Subcategorii	Rezultate (punctaje)	Titlul proiectului	Calitate (director / membru)
0	1	2	3	4
1	Național	2	Titlu: Analiza asistată de calculator a riscului producerii loviturilor directe de trăsnet în echipamentele de 400/110 kV ale Stației de transformare Roman Nord Nr. contract: 377/8731P/2012 Perioada de implementare: 2012 Buget: 70.000 RON Director proiect: Prof. Dumitru Marcel Istrate	Membru
2	Național	2	Titlu: Cercetări privind determinarea profilului de viteze ale vântului din diferite amplasamente din țară Nr. contract: 2592/2022 Perioada de implementare: 2022-2023 Buget: 51.000 RON Director proiect: Ș.l. Dragoș Machidon	Membru
3	Național	2	Titlu: Cercetări privind evaluarea potențialului eolian în diferite amplasamente din țară Nr. contract: 2443/2023 Perioada de implementare: 2023-2024 Buget: 60.000 RON Director proiect: Ș.l. Dragoș Machidon	Membru
4	Național	2	Studiu asupra evaluării potențialului eolian la diferite înălțimi Nr. contract: 2824/2024 Perioada de implementare: 2024-2025 Buget: 65.000 RON fără TVA Director proiect: Ș.l. Dragoș Machidon	Membru
5	Național	2	Studiu în vederea evaluării potențialului eolian din diferite amplasamente din România Nr. contract: 3651/2025 Perioada de implementare: 2025-2026 Buget: 70.000 RON fără TVA Director proiect: Ș.l. Dragoș Machidon	Membru
TOTAL		10 p		

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	56 WOS 51 BDI	I. V. Banu, R. Beniugă and M. Istrate, "Comparative analysis of the perturb-and-observe and incremental conductance MPPT methods," 2013 8th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2013, pp. 1-4, doi: 10.1109/ATEE.2013.6563483.	3 autori	143,96

Nr crt.	Nr. citări	Lucrarea citata	Nr. autori Tip citare	Punctaj
	1	AboRas, K.M.; Alhazmi, A.H.; Megahed, A.I. Optimal Incremental Conductance-Based MPPT Control Methodology for a 100 KW Grid-Connected PV System Employing the RUNge Kutta Optimizer. Sustainability 2025, 17, 5841. https://doi.org/10.3390/su17135841 .	WOS	1,66
	2	Ika Noer Syamsiana, Rizki Nur Adi Wijaya, Arwin Datumaya Wahyudi Sumari, Rahma Nur Amalia, Heri Sungkowo, Maximization of battery charging efficiency in photovoltaic systems through PI Controlled SEPIC Converter with P&O MPPT, Results in Engineering, Volume 26, 2025, 105469, ISSN 2590-1230, https://doi.org/10.1016/j.rineng.2025.105469 .	WOS	1,66
	3	Zi-Xing Wang, Zeng-Qun Li, Nan Li, Pu He, Lei Chen, Wen-Quan Tao, Numerical simulation of a hybrid energy system proposed for low carbon data center, Applied Thermal Engineering, Volume 258, Part A, 2025, 124522, ISSN 1359-4311, https://doi.org/10.1016/j.applthermaleng.2024.124522 .	WOS	1,66
	4	Peng Li, Jiateng Zhang, Ruidong Xu, Jun Zhou, Zhigang Gao, Integration of MPPT algorithms with spacecraft applications: Review, classification and future development outlook, Energy, Volume 308, 2024, 132927, ISSN 0360-5442, https://doi.org/10.1016/j.energy.2024.132927 .	WOS	1,66
	5	Livinti, P.; Culea, G.; Banu, I.V.; Vernica, S.G. Comparative Study of a Buck DC-DC Converter Controlled by the MPPT (P&O) Algorithm without or with Fuzzy Logic Controller. Appl. Sci. 2024, 14, 7628. https://doi.org/10.3390/app14177628	WOS	1,66
	6	Monu, T., Vadhera, S. (2024). Comparison of Perturb and Observe and Incremental Conductance MPPT Method in Matlab/Simulink. In: Kumar, S., Tripathy, M., Jena, P. (eds) Control Applications in Modern Power Systems. EPREC 2023. Lecture Notes in Electrical Engineering, vol 1128. Springer, Singapore. https://doi.org/10.1007/978-981-99-9054-2_19	WOS	1,66
	7	Ali M. Jasim, Basil H. Jasim, Bilal Naji Alhasnawi, Aymen Flah, Habib Kraiem, Coordinated Control and Load Shifting-Based Demand Management of a Smart Microgrid Adopting Energy Internet, International Transaction on Electrical Energy Systems, Wiley, 19 August 2023 https://doi.org/10.1155/2023/6615150	WOS	1,66
	8	Rahman, M.J.; Tafticht, T.; Doumbia, M.L.; Messaïf, I. Optimal Inverter Control Strategies for a PV Power Generation with Battery Storage System in Microgrid. Energies 2023, 16, 4228. https://doi.org/10.3390/en16104228	WOS	1,66
	9	Mohamed, M.A.E., Nasser Ahmed, S. & Eladly Metwally, M. Arithmetic optimization algorithm based maximum power point tracking for grid-connected photovoltaic system. Sci Rep 13, 5961 (2023). https://doi.org/10.1038/s41598-023-32793-0	WOS	1,66
	10	Ambe Harrison, Njimboh Henry Alombah, Jean de Dieu Nguimfack Ndongmo, A New Hybrid MPPT Based on Incremental Conductance-Integral Backstepping Controller Applied to a PV System under Fast-Changing Operating Conditions, International Journal of Photoenergy, 15 February 2023 https://doi.org/10.1155/2023/9931481	WOS	1,66
	11	Korhan Kayisli, Super twisting sliding mode-type 2 fuzzy MPPT control of solar PV system with parameter optimization under variable irradiance conditions, Ain Shams Engineering Journal, Volume 14, Issue 1, 2023, 101950, ISSN 2090-4479, https://doi.org/10.1016/j.asej.2022.101950 .	WOS	1,66
	12	Razman Ayop, Muhammad Fariz Izzwan Zaki, Chee Wei Tan, Shahrin Md Ayob, Mohd Junaidi Abdul Aziz, Optimum sizing of components for photovoltaic maximum power point tracking buck converter, Solar Energy, Volume 243, 2022, Pages 236-246, ISSN 0038-092X, https://doi.org/10.1016/j.solener.2022.07.032 .	WOS	1,66
	13	Al-Wesabi, I.; Fang, Z.; Farh, H.M.H.; Al-Shamma'a, A.A.; Al-Shaalan, A.M.; Kandil, T.; Ding, M. Cuckoo Search Combined with PID Controller for Maximum Power Extraction of Partially Shaded Photovoltaic System. Energies 2022, 15, 2513. https://doi.org/10.3390/en15072513	WOS	1,66

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	14	I. Patrao, R. González-Medina, G. Garcerá and E. Figueres, "An Algorithm for Emulating Photovoltaic Strings With Dynamic Partial Shadowing Capability: A Practical Study," in IEEE Industrial Electronics Magazine, vol. 17, no. 2, pp. 61-69, June 2023, doi: 10.1109/MIE.2022.3151017	WOS	1,66
	15	Walczak, M., Bychto, L., Kraśniewski, J. and Duer, S., 2022. Design and evaluation of a low-cost solar simulator and measurement system for low-power photovoltaic panels. Metrology and Measurement Systems, 29(4), pp.685-700, DOI10.24425/mms.2022.143067	WOS	1,66
	16	Kraiem, H.; Aymen, F.; Yahya, L.; Triviño, A.; Alharthi, M.; Ghoneim, S.S.M. A Comparison between Particle Swarm and Grey Wolf Optimization Algorithms for Improving the Battery Autonomy in a Photovoltaic System. Appl. Sci. 2021, 11, 7732. https://doi.org/10.3390/app11167732	WOS	1,66
	17	Yacine Ayachi Amor, Farid Hamoudi, Aissa Kheldoun, Gaëtan Didier, Zakaria Rabiai, Fuzzy logic enhanced control for a single-stage grid-tied photovoltaic system with shunt active filtering capability, International Transactions on Electrical Energy Systems, 04 July 2021, https://doi.org/10.1002/2050-7038.13008	WOS	1,66
	18	Z. Li et al., "Adaptive Power Point Tracking Control of PV System for Primary Frequency Regulation of AC Microgrid With High PV Integration," in IEEE Transactions on Power Systems, vol. 36, no. 4, pp. 3129-3141, July 2021, doi: 10.1109/TPWRS.2021.3049616.	WOS	1,66
	19	Walczak, M.; Bychto, L. Influence of Parasitic Resistances on the Input Resistance of Buck and Boost Converters in Maximum Power Point Tracking (MPPT) Systems. Electronics 2021, 10, 1464. https://doi.org/10.3390/electronics10121464	WOS	1,66
	20	Gugulothu, R., Nagu, B. A Bayesian fusion technique for maximum power point tracking under partial shading condition. SN Appl. Sci. 3, 539 (2021). https://doi.org/10.1007/s42452-021-04538-z	WOS	1,66
	21	Hu, J; Guerrero, J; Islam, S, MPC of PV-wind-storage microgrids, Model predictive control for microgrids - Volume199, Page125-152, Book Series IET Energy Engineering, 2021	WOS	1,66
	22	A. Hudec, L. Nagy, M. Kovac, L. Kohutka and V. Stopjakova, "Maximum Power Point Tracking Circuit for an Energy Harvester in 130 nm CMOS Technology," 2020 International Conference on Applied Electronics (AE), Pilsen, Czech Republic, 2020, pp. 1-4, doi: 10.23919/AE49394.2020.9232903.	WOS	1,66
	23	P. Sahu, A. Sharma and R. Dey, "Ripple Correlation Control Maximum Power Point Tracking for Battery Operated PV Systems: A Comparative analysis," 2020 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS), Vancouver, BC, Canada, 2020, pp. 1-6, doi: 10.1109/IEMTRONICS51293.2020.9216414.	WOS	1,66
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	25	L. Jotham Jeremy, Chia Ai Ooi, Jiashen Teh, "Non-isolated conventional DC-DC converter comparison for a photovoltaic system: A review", J. Renewable Sustainable Energy 12, 013502 (2020), https://doi.org/10.1063/1.5095811	WOS	1,66
	26	Pranith, S., Kumar, S., Singh, B. and Bhatti, T.S. (2019), "Multimode operation of PV-battery system with renewable intermittency smoothening and enhanced power quality", IET Renewable Power Generation, 13: 887-897. https://doi.org/10.1049/iet-rpg.2018.5843	WOS	1,66
	27	Mohammad Sadegh Javadi, "Determination the most efficient tracking technique for the maximum power point of solar systems in rapid environmental changing conditions", International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies, 10(15), 10A15E: 1-11. 10.14456/ijtemast.2019.199, 2019	WOS	1,66

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	29	Jiefeng Hu, Yinghao Shan, Yinliang Xu, Josep M. Guerrero, "A coordinated control of hybrid ac/dc microgrids with PV-wind-battery under variable generation and load conditions", International Journal of Electrical Power & Energy Systems, Volume 104, 2019, Pages 583-592, ISSN 0142-0615, https://doi.org/10.1016/j.ijepes.2018.07.037 .	WOS	1,66
	30	M.A. Danandeh, S.M. Mousavi G., "Comparative and comprehensive review of maximum power point tracking methods for PV cells", Renewable and Sustainable Energy Reviews, Volume 82, Part 3, 2018, Pages 2743-2767, ISSN 1364-0321, https://doi.org/10.1016/j.rser.2017.10.009 .	WOS	1,66
	31	M. S. Shadlu, "A Comparative Study Between Two MPPT Algorithms for Photovoltaic Energy Conversion System Based on Modular Multilevel Converter," Electrical Engineering (ICEE), Iranian Conference on, Mashhad, Iran, 2018, pp. 1154-1159, doi: 10.1109/ICEE.2018.8472425.	WOS	1,66
	32	Ali M. Eltamaly, "Chapter 4 - Performance of MPPT Techniques of Photovoltaic Systems Under Normal and Partial Shading Conditions", Editor(s): Imene Yahyaoui, Advances in Renewable Energies and Power Technologies, Elsevier, 2018, Pages 115-161, ISBN 9780128129593, https://doi.org/10.1016/B978-0-12-812959-3.00004-6 .	WOS	1,66
	33	Ilyas, A., Ayyub, M., Khan, M. R., Jain, A., & Husain, M. A., "Realisation of incremental conductance the MPPT algorithm for a solar photovoltaic system", International Journal of Ambient Energy, 39(8), 873–884. https://doi.org/10.1080/01430750.2017.1354322 , 2017	WOS	1,66
	34	A. Sfirat, A. Gontean, S. Bularka, "A New Method for MPPT Algorithm Implementation and Testing, Suitable for Photovoltaic Cells," Advances in Electrical and Computer Engineering, vol.18, no.3, pp.53-60, 2018, doi:10.4316/AECE.2018.03008	WOS	1,66
	35	Chowdhury, M. A., & Kashem, S. B. A. (2018), "H ∞ loop-shaping controller design for a grid-connected single-phase photovoltaic system", International Journal of Sustainable Engineering, 11(3), 196–204. https://doi.org/10.1080/19397038.2018.1444680	WOS	1,66
	36	Puneet Joshi, Sudha Arora, "Maximum power point tracking methodologies for solar PV systems – A review", Renewable and Sustainable Energy Reviews, Volume 70, 2017, Pages 1154-1177, ISSN 1364-0321, https://doi.org/10.1016/j.rser.2016.12.019 .	WOS	1,66
	37	N. Zinelaabidine, M. Karim, B. Bossoufi and M. Taoussi, "MPPT algorithm control for grid connected PV module," 2017 International Conference on Advanced Technologies for Signal and Image Processing (ATSIP), Fez, Morocco, 2017, pp. 1-6, doi: 10.1109/ATSIP.2017.8075527.	WOS	1,66
	38	Jayalaksmi N. S., D. N. Gaonkar, Anandh N. and Nimika Sanjeev Kumar, "Design and Implementation of Single Phase Inverter Based on Cuk Converter for PV System", International Journal of Renewable Energy Research, Vol.7, No.2, 2017, ISSN 1309-0127	WOS	1,66
	39	Mounir Zouli; Sihem Ghoudelbourk; Ahmed Ouari; Djallel Dib, "Influence of the external and internal parameters on the characteristics of generator PV", AIP Conf. Proc. 1814, 020007 (2017), https://doi.org/10.1063/1.4976226	WOS	1,66
	40	M. M. Biswas and M. Z. R. Khan, "Amended THD with modified phase-shifted PWM for micro-grid connected multilevel inverter," 2017 IEEE Power and Energy Conference at Illinois (PECI), Champaign, IL, USA, 2017, pp. 1-6, doi: 10.1109/PECI.2017.7935734.	WOS	1,66
	41	Gopal, Yatindra et al., "Banes and Boons of Perturb & Observe, Incremental Conductance and Modified Regula Falsi Methods for Sustainable PV Energy Generation", Journal of Power Technologies, [S.l.], v. 97, n. 1, p. 35--43, feb. 2017. ISSN 2083-4195.	WOS	1,66

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	42	Batunlu, C.; Alrweq, M.; Albarbar, A., "Effects of Power Tracking Algorithms on Lifetime of Power Electronic Devices Used in Solar Systems", <i>Energies</i> 2016, 9, 884. https://doi.org/10.3390/en9110884	WOS	1,66
	43	Z. B. Mahmoud, M. Hamouda and A. Khedher, "A comparative study of four widely-adopted MPPT techniques for PV power systems," 2016 4th International Conference on Control Engineering & Information Technology (CEIT), Hammamet, Tunisia, 2016, pp. 1-8, doi: 10.1109/CEIT.2016.7929090.	WOS	1,66
	44	R. Aliaga, J. Muñoz, F. Cadena, P. Cossuta, M. Aguirre and L. Morán, "Experimental implementation of an electronic load for global maximum power point tracking," 2016 IEEE 2nd Annual Southern Power Electronics Conference (SPEC), Auckland, New Zealand, 2016, pp. 1-6, doi: 10.1109/SPEC.2016.7846161.	WOS	1,66
	45	J. Metri, H. Vahedi, H. Y. Kanaan and K. Al-Haddad, "Solar energy processor based on Packed U-Cells 7-level inverter for grid applications," <i>IECON 2016 - 42nd Annual Conference of the IEEE Industrial Electronics Society</i> , Florence, Italy, 2016, pp. 6528-6533, doi: 10.1109/IECON.2016.7793042.	WOS	1,66
	46	V. Narayana, A. K. Mishra and B. Singh, "Design of SRM driven BESS based PV powered water pumping system," 2016 IEEE 7th Power India International Conference (PIICON), Bikaner, India, 2016, pp. 1-6, doi: 10.1109/POWERI.2016.8077431.	WOS	1,66
	47	Hegazy Rezk, Ali M. Eltamaly, "A comprehensive comparison of different MPPT techniques for photovoltaic systems", <i>Solar Energy</i> , Volume 112, 2015, Pages 1-11, ISSN 0038-092X, https://doi.org/10.1016/j.solener.2014.11.010 .	WOS	1,66
	48	A. Jain, C. Jain, B. Singh, Kamal-Al-Haddad and A. Chandra, "A dual tangent based algorithm for maximum power point tracking of solar PV systems," <i>IECON 2015 - 41st Annual Conference of the IEEE Industrial Electronics Society</i> , Yokohama, Japan, 2015, pp. 000601-000606, doi: 10.1109/IECON.2015.7392165.	WOS	1,66
	49	S. Maharjan, J. C. H. Peng and W. Xiao, "Improved deterministic real-time estimation of Maximum Power Point in photovoltaic power systems," 2015 IEEE 8th GCC Conference & Exhibition, Muscat, Oman, 2015, pp. 1-6, doi: 10.1109/IEEEGCC.2015.7060077.	WOS	1,66
	50	Khalidi, N; Zazi, M; Mahmoudi, H; Barradi, Y, "Intelligent Maximum Power Point Trackers for Photovoltaic Applications Using FPGA Chip", 2nd International Conference on Communication and Technology (Icct 2015), Page 380-387, ISBN 978-1-60595-236-9	WOS	1,66
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	53	M. E. El-Telbany, A. Y. Mahgoub and A. A. Zekry, "An intelligent fuzzy controller for maximum power point tracking," 2014 10th International Computer Engineering Conference (ICENCO), Giza, Cairo, Egypt, 2014, pp. 107-111, doi: 10.1109/ICENCO.2014.7050440.	WOS	1,66
	54	J. Philip, B. Singh and S. Mishra, "Design and operation for a standalone DG-SPV-BES microgrid system," 2014 6th IEEE Power India International Conference (PIICON), Delhi, India, 2014, pp. 1-6, doi: 10.1109/POWERI.2014.7117727.	WOS	1,66
	55	N. Khalidi, H. Mahmoudi, M. Zazi and Y. Barradi, "The MPPT control of PV system by using neural networks based on Newton Raphson method," 2014 International Renewable and Sustainable Energy Conference (IRSEC), Ouarzazate, Morocco, 2014, pp. 19-24, doi: 10.1109/IRSEC.2014.7059894.	WOS	1,66

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	57	Zakaria Mohamed Salem Elbarbary, Mohamed Abdullrahman Alranini; Review of maximum power point tracking algorithms of PV system. Frontiers in Engineering and Built Environment 6 July 2021; 1 (1): 68–80. https://doi.org/10.1108/FEBE-03-2021-0019	BDI	1
	58	S. Ibne Ahmed, H. Salehfar and D. Flora Selveraj, "Grid Integration of PV Based Electric Vehicle Charging Stations: A Brief Review," 2022 North American Power Symposium (NAPS), Salt Lake City, UT, USA, 2022, pp. 1-6, doi: 10.1109/NAPS56150.2022.10012159.	BDI	1
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Nr crt.	Nr. citări	Lucrarea citata	Nr. autori Tip citare	Punctaj
	2	Clement, Festila, et al. "Management and Control of a Small-Scale Eolian Electric Power System." 2020 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR). IEEE, 2020.	BDI	1,5
15	1 WOS 1 BDI	F. C. Baiceanu, O. Beniuga, R. C. Beniuga and E. I. Diac, "Quality Assessment of Power Transformers Differential Protection Behavior Using Harmonic Restraint Techniques," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 680-684, doi: 10.1109/EPE50722.2020.9305610	4 autori	2p
	1	Alhamd, Q.; Saniei, M.; Seifossadat, S.G.; Mashhour, E. Advanced Fault Detection in Power Transformers Using Improved Wavelet Analysis and LSTM Networks Considering Current Transformer Saturation and Uncertainties. Algorithms 2024, 17, 397. https://doi.org/10.3390/a17090397	WOS	1,25
	2	V. Kumar, P. Magdum, R. Lekkireddy and K. Shah, "Comprehensive Approaches for the Differential Protection of Power Transformers Using Advanced Classification Techniques," 2024 IEEE/IAS 60th Industrial and Commercial Power Systems Technical Conference (I&CPS), Las Vegas, NV, USA, 2024, pp. 1-7, doi: 10.1109/ICPS60943.2024.10563236.	BDI	0,75
16	2 WOS	R. Beniugă , D. Machidon, P. -S. Popa, O. Beniugă, F. Băiceanu and M. Istrate, "Cost-effectiveness and sustainability analysis of a NZEB house," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 187-192, doi: 10.1109/EPEi63510.2024.10758113	6 autori	1,66
	1	Borowski, M.; Rathnayake, C.M.; Zwolińska-Gładys, K. Nearly Zero-Energy Buildings (NZEBs): A Systematic Review of the Current Status of Single-Family Houses in the EU. Energies 2025, 18, 3215. https://doi.org/10.3390/en18123215	WOS	0,83
	2	Jiangwei Kong, Orken Mamyrbayev, Azher M. Abed, A novel hybrid model to evaluate the location of net-zero energy consumption building based on remote sensing, analysis hierarchical process and machine learning, Energy, Volume 329, 2025, 136477, ISSN 0360-5442, https://doi.org/10.1016/j.energy.2025.136477	WOS	0,83
17	1 WOS	D. Machidon, M. Istrate, R. Oprea and R. Beniuga , "Performance analysis of double-axis orientating Low Concentration Photovoltaic Systems," 2021 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2021, pp. 1-5, doi: 10.1109/MPS52805.2021.9492623.	4 autori	1,25
	1	Mohammad Karimzadeh Kolamroudi, Mustafa Ilkan, Fuat Egelioglu, Babak Safaei, A comparative study of LCPV by mirror reflection against other systems: Recent techniques, implications, and performances, Solar Energy, Volume 250, 2023, Pages 70-90, ISSN 0038-092X, https://doi.org/10.1016/j.solener.2022.12.017	WOS	1,25
18	1 BDI	F. C. Baiceanu, O. Beniugă, R. Beniugă and F. T. Munteanu, "Transient of High Voltage Circuit Breakers Intelligent Switching during Grid Faults," 2021 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2021, pp. 1-4, doi: 10.1109/MPS52805.2021.9492555	4 autori	0,75p
	1	S. Carnì, M. Riva, S. Negri, and R. Faranda, Evaluation and research trends on controlled switching and transients mitigation, IET Conference Proceedings, Volume 2023, Issue 6, https://doi.org/10.1049/icp.2023.0769	BDI	0,75
19	2 WOS 1 BDI	D. Machidon, R. Oprea, M. Istrate and R. Beniuga , "Energy Output Increase by Using a Periodic Orientation System for Fixed Photovoltaic Panels," 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 2020, pp. 388-391, doi: 10.1109/EPE50722.2020.9305626.	4 autori	3,25

Nr crt.	Nr. citări	Lucrarea citata	Nr. autori Tip citare	Punctaj
	1	Qasim, U. B., Riaz, M. H., & Imran, H. (2023). Investigation of soiling effects for east/west vertical bifacial and north/south tilted monofacial photovoltaic farms. Energy & Environment, 35(6), 2991-3009. https://doi.org/10.1177/0958305X221143410	WOS	1,25
	2	A. Barman, M. Mannan, S. Ahmed, O. M. Mishu, M. B. Hossain Bhuiyan and M. Islam, "Performance Analysis of Building Integrated Photovoltaic of High-rise Buildings in Urban Areas," 2021 IEEE PES Innovative Smart Grid Technologies - Asia (ISGT Asia), Brisbane, Australia, 2021, pp. 1-5, doi: 10.1109/ISGTAsia49270.2021.9715591.	WOS	1,25
	3	M. Cristea, C. Cristea, R. -A. Tîrnovan, A. Botezan, F. Șerban and E. Balog, "Analysis of Levelized cost of storage for a prosumer - case study: Romania," 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), Iasi, Romania, 2024, pp. 693-696, doi: 10.1109/EPEi63510.2024.10758150.	BDI	0,75
20	1 WOS 1 BDI	I. V. Banu, R Beniuga , M. Istrate, "Study on temperature for modeling of photovoltaic solar array using experimental test data", 5th International Conference on Modern Power Systems MPS, pp. 28-31, Acta Electrotehnica, ISSN 2344-5637	3 autori	2,66
	1	Ilyas, Afshan, M. Rizwan Khan, and Mohammad Ayyub. "Lookup table based modeling and simulation of solar photovoltaic system." 2015 Annual IEEE India Conference (INDICON). IEEE, 2015.	WOS	1,66
	2	Nasim, Mohammad, et al. "Decision tree based approach to control the efficiency of a hybrid PV/T solar system in Bangladesh." Distributed Generation & Alternative Energy Journal 32.1 (2017): 17-48.	BDI	1
TOTAL			80 WOS	125,09
			74 BDI	71,45

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

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)	Categorii	Activitatea / Revista / Manifestație
1					Journal Energies (ISSN 1996-1073) https://www.mdpi.com/journal/energies
	1	WOS	10	Recenzor revista	energies-3689687 Assessing Fire Risks in Photovoltaic Panels: A Literature Review in the Context of Blackout Concerns
	2	WOS	10	Recenzor revista	energies-3243191 Resource Optimization for Grid-Connected Smart Green Townhouses Using Deep Hybrid Machine Learning
	3	WOS	10	Recenzor revista	energies-2940394 Hardware Implementation of a Resilient Energy Management System for Networked Microgrids
	4	WOS	10	Recenzor revista	energies-2868235 The Impact of Replacing Synchronous Generators with Renewable-Energy Technologies on the Transient Stability of the Mangystau Power System: An Introduction to Flexible Automatic Dosage of Exposures

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorii	Activitatea / Revista / Manifestație
	5	WOS	10	Recenzor revista	energies-2801949 COVID-19 Impact on the Environment and Sustainable Development
	6	WOS	10	Recenzor revista	energies-2698968 The Role of Education and Science-Driven Tools in Scaling Up Photovoltaic Deployment
	7	WOS	10	Recenzor revista	energies-2574397 Virtual Inertia Implemented by Quasi-Z-Source Power Converter for Distributed Power System
	8	WOS	10	Recenzor revista	energies-2434624 Two-layer Robust Distributed MPC for Load Frequency Control of Power System Under Wind Power Fluctuation
	9	WOS	10	Recenzor revista	energies-2372529 Management of environmental life cycle impact assessment of a photovoltaic power plant on the atmosphere, water and soil environment
	10	WOS	10	Recenzor revista	energies-2177647 Performance simulation of solar trough concentrators: optical and thermal comparisons
	11	WOS	10	Recenzor revista	energies-2123961 Review of Voltage-Bucking/Boosting Techniques, Topologies, and Applications
	12	WOS	10	Recenzor revista	energies-1986682 Optimization of Solar System for Rural Electrification in As Suwadirah
	13	WOS	10	Recenzor revista	energies-1746082 Wind power potential in highlands of the Bolivian Andes: A numerical approach
	14	WOS	10	Recenzor revista	energies-1663462 Mechanistic Model of an Air Cushion Surge Tank for Hydro Power Plants
	15	WOS	10	Recenzor revista	energies-1602554 Analyzing Wind Energy Potential using Efficient Global Optimization: a case study for the city Gdańsk in Poland
	16	WOS	10	Recenzor revista	energies-1601922 Formulations, Solving Algorithms, Existing Problems and Future Challenges of Pre-Programmed PWM Techniques for High-Power AFE Converters: A Comprehensive Review
	17	WOS	10	Recenzor revista	energies-1588181 Ultimate Limit State Scour Risk Assessment of a Pentapod Suction Bucket Support Structure for Offshore Wind Turbine
	18	WOS	10	Recenzor revista	energies-1495125 Analyzing Wind Energy Potential using Efficient Global Optimization: a case study for Gdańsk (Poland)
	19	WOS	10	Recenzor revista	energies-1455331 Management of photovoltaic energy efficiency in SMEs using the data envelopment analysis (DEA) in the light of the concept of corporate social responsibility (CSR)
	20	WOS	10	Recenzor revista	energies-1373083 Thermodynamic evaluation of the forced convective hybrid-solar dryer during drying process of Rosemary (<i>Rosmarinus officinalis</i> L.) leaves
	21	WOS	10	Recenzor revista	energies-1332487 Data-driven virtual replication of thermostatically controlled domestic heating systems
	22	WOS	10	Recenzor revista	energies-1240041 Experimental evaluation of dynamic rock scour protection in morphodynamic environments for offshore wind jackets
	23	WOS	10	Recenzor revista	energies-1114811 The place of photovoltaics in Poland's energy mix
	24	WOS	10	Recenzor revista	energies-707455 A Novel Control Scheme for Multi-Terminal Low-Frequency ac Electrical Energy Transmission Systems Using Modular Multilevel Matrix Converters and Virtual Synchronous Generator

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorii	Activitatea / Revista / Manifestație
					Concept
2					Journal Electronics (ISSN 2079-9292) https://www.mdpi.com/journal/electronics
	25	WOS	10	Recenzor revista	electronics-3489665 Prediction of Coal Demand for Long-Term Power System Planning Based on Hybrid SSA and LSSVM Algorithms
	26	WOS	10	Recenzor revista	electronics-3454736 A Distributed Photovoltaic Aggregation Method Considering Photovoltaic Output Characteristics and Active Voltage Sensitivity
	27	WOS	10	Recenzor revista	electronics-2645557 An Exquisite Control Strategy for Ultralight Power Generation System
3					Journal Electricity (ISSN 2673-4826) https://www.mdpi.com/journal/electricity
	28	WOS	10	Recenzor revista	electricity-3478418 Robust Frequency Regulation Management System in a Renewable Hybrid Energy Network with Integrated Storage Solutions
	29	WOS	10	Recenzor revista	electricity-2633348 A review of life cycle air emissions of electricity generation technologies in China
4					Journal Sustainability (ISSN 2071-1050) https://www.mdpi.com/journal/sustainability
	30	WOS	10	Recenzor revista	sustainability-3898878 Effect of Large-Diameter Foundation on Scour Risk of Offshore Wind Turbines
	31	WOS	10	Recenzor revista	sustainability-3740243 Current Status and Future Trends in China's Photovoltaic Agriculture Development
	32	WOS	10	Recenzor revista	sustainability-3031450 An Assessment Method of Deviation Electricity Responsibility in China's Forward Electricity Market Based on Time-Sharing Trading Prices
	33	WOS	10	Recenzor revista	sustainability-2310176 Residential Rooftop Photovoltaic Adoption Using A Sequential Mixed Methods Approach in Qatar
	34	WOS	10	Recenzor revista	sustainability-2040228 The numerical analysis of the TEG and mPCM enhancement system for BIPV using CFD
	35	WOS	10	Recenzor revista	sustainability-1744039 Research on Frequency Response Modeling and Frequency Modulation Parameters of the Power System Highly Penetrated by Wind Power
5					Journal Symmetry (ISSN 2073-8994) https://www.mdpi.com/journal/Symmetry
	36	WOS	10	Recenzor revista	symmetry-3474597 Photovoltaic Power Prediction Technology Based on Multi-Source Feature Fusion
6					Journal Processes (ISSN 2227-9717) https://www.mdpi.com/journal/processes
	37	WOS	10	Recenzor revista	processes-3430551 Short-Term Optimal Scheduling of a Cascade Hydro-Photovoltaic System for Maximizing the Expectation of Consumable Electricity
	38	WOS	10	Recenzor revista	processes-860533 CFD and experimental characterization of a bioreactor: analysis via power curve, flow patterns and kLa
7					Journal Sensors (ISSN 1424-8220) https://www.mdpi.com/journal/sensors
	39	WOS	10	Recenzor revista	sensors-3007015 Photovoltaic Power Injection Control based on a Virtual Synchronous Machine Strategy

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorie	Activitatea / Revista / Manifestație
	40	WOS	10	Recenzor revista	sensors-2692033 Ultra-short-term offshore wind power prediction based on PCA-SSA-VMD and BiLSTM
8					Journal Clean Technologies (ISSN 2571-8797) https://www.mdpi.com/journal/cleantechnol
	41	WOS	10	Recenzor revista	cleantechnol-2946106 Advances on Design of Renewable Energy Power Supply for Rural Health Clinics, Case Studies, and Future Directions
9					Journal Applied Sciences (ISSN 2076-3417) https://www.mdpi.com/journal/applsci
	42	WOS	10	Recenzor revista	applsci-2515433 An efficient method for the reliability evaluation of power systems considering the variable photovoltaic power output
	43	WOS	10	Recenzor revista	applsci-998549 Validation of EMT Digital Twin Models for Dynamic Voltage Performance Assessment of 66 kV Offshore Transmission Network
	44	WOS	10	Recenzor revista	applsci-678456 Smart Transformers as Active Interfaces enabling the Provision of Power-Frequency Regulation Services from Distributed Resources in Hybrid AC/DC Grids
	45	WOS	10	Recenzor revista	applsci-554972 Design and Development of a Low Cost Grid Connected Solar Inverter for Maximum Solar Power Utilization
10					Journal Wind (ISSN 2674-032X) https://www.mdpi.com/journal/wind
	46	WOS	10	Recenzor revista	wind-1898707 Aquila Optimization Algorithm for Wind Energy Potential Assessment Relying on Weibull Parameters Estimation
11					Journal Journal of Marine Science and Engineering (ISSN 2077-1312) https://www.mdpi.com/journal/jmse
	47	WOS	10	Recenzor revista	jmse-736426 Wall-Resolved LES Modeling of a Wind Turbine Airfoil at Different Angles of Attack
	48	WOS	10	Recenzor revista	jmse-624633 Study on Transient Overvoltage of Offshore Wind Farm Considering Different Electrical Characteristics of Vacuum Circuit Breaker
12					15th International Conference and Exhibition on electromechanical and energy systems. SIELMEN 2025 https://sielmen.tuiasi.ro/
	49	BDI	6	Recenzor conferință	ID-38 Power quality assessment. Study case: 40 kW hybrid installation
	50	BDI	6	Recenzor conferință	ID-40 Impact of thermal load reduction on fuel consumption and energy production: a case study for the Chisinau district heating system
	51	BDI	6	Recenzor conferință	ID-45 Energy Loss Analysis in Wind Turbines Operating under Time-Variable Wind Speeds
	52	BDI	6	Recenzor conferință	ID-48 Electrogeneration of Carbon Dioxide for Photobiotechnological and Vegetable Production Systems
	53	BDI	6	Recenzor conferință	ID-61 Simulation of heat transfer by thermal conduction
	54	BDI	6	Recenzor conferință	ID-79 Building Energy Use Analysis and Modeling Through Dynamic Modeling Tools
	55	BDI	6	Recenzor conferință	ID-83 Web Platform for Wind Potential Assessment in the Republic of Moldova

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorii	Activitatea / Revista / Manifestație
	56	BDI	6	Recenzor conferință	ID-84 Evaluation of Wind Energy Parameters Based on Data Measured at Meteorological Stations
13					2024 14th International Conference and Exposition on Electrical and Power Engineering (EPEi2024), Iași, Romania, https://www.epe.tuiasi.ro/
	57	BDI	6	Organizator conferință	Membru comitet organizare local
	58	BDI	6	Recenzor conferință	ID-95 Experimental Investigation and Results on the Wear of Photovoltaic Panels
	59	BDI	6	Recenzor conferință	ID-96 Design optimization of energy efficient residential buildings in Romania
	60	BDI	6	Recenzor conferință	ID-125 Photovoltaic technology in Real Estate
	61	BDI	6	Recenzor conferință	ID-133 Optimal Recloser Placement in Distribution Networks to Improve Power Quality Indicators
	62	BDI	6	Recenzor conferință	ID-143 Wind energy potential and wind characteristics for the districts of the Northern Development Region of the Republic of Moldova
14					14th International Conference and Exhibition on electromechanical and energy systems. SIELMEN 2023 https://sielmen.ucv.ro/
	63	BDI	6	Recenzor conferință	84 - Optimizing Energy Production for Wind Turbines Operating in Variable Wind Speed Conditions
	64	BDI	6	Recenzor conferință	64 - Study and Design of a Teaching Electrical Engineering System Based on Motion Sensors Using Arduino
	65	BDI	6	Recenzor conferință	107 - Improving the ecological performance of free-piston gas generator by air-gas mixture self-ignition
	66	BDI	6	Recenzor conferință	140 - Research and Design Microgrid using Ocean Wave Energy for Electric Vehicles Load on Islands in Vietnam
	67	BDI	6	Recenzor conferință	127 - Comparision and Rule-Based implementation in IMA-NET of PHP compression functions
15					2022 13th International Conference and Exposition on Electrical and Power Engineering (EPE2022), Iași, Romania, http://www.epe.tuiasi.ro/2022/
	68	BDI	6	Recenzor conferință	ID-146 Impact of Distributed Generation on the Performace of Electrical Networks
	69	BDI	6	Recenzor conferință	ID-150 Controlled Switching Taking Into Account the Standard Deviation of Switching Time
	70	BDI	6	Recenzor conferință	ID-99 Predictive Method for Determining the Operating Condition of Big-Blaster Air Cannons Using Automatic Classification of Critical Discharge of Compressed Air
	71	BDI	6	Recenzor conferință	ID 123 - Performance analysis of metaheuristic algorithms for optimal reactive power control in microgrids
	72	BDI	6	Recenzor conferință	ID 111 - Improvement of adaptive single-phase automatic reclosing in extra-high voltage lines

Nr crt	Nr. activ.	Subcategorii	Rezultate (punctaje)	Categorii	Activitatea / Revista / Manifestație
	73	BDI	6	Recenzor conferință	ID 105 - The influence of VSC - HVDC links on AC networks. Mathematical modeling and analysis
	74	BDI	6	Recenzor conferință	ID 104 - Experimental stand for wind energy conversion in electricity
	75	BDI	6	Recenzor conferință	ID 98 - Numerical Simulations and Experimental Tests for the Analysis of Capacitive Load Switching in Power Circuits
	76	BDI	6	Recenzor conferință	ID 83 - Voltage Control Strategy Using the Rule-Based Reasoning in LV Distribution Networks with PV Penetration Integrating OLTC-Fitted Transformer
	77	BDI	6	Recenzor conferință	ID 76 - Building Services Engineering In The Assessment Process For European Energy Award
	78	BDI	6	Recenzor conferință	ID 39 - Fundamental issue for wind power systems operating at variable wind speeds: the dependence of the optimal angular speed on the wind speed
	79	BDI	6	Recenzor conferință	ID 22 - Mathematical Performance Investigation of a Commercial Solar Air Heater
16					Bulletin of the Iasi Polytechnic Institute
	80	BDI	6	Recenzor revistă	A comparative energy and exergy analysis between Organic Rankine Cycle and Kalina Cycle System 11 for the waste heat recovery of a PEM Fuel Cell power station
	81	BDI	6	Recenzor revistă	The Impact of Distributed Generation on the Voltage Profile
	82	BDI	6	Recenzor revistă	Sizing of the cogeneration plants by the optimized rectangle
17					2020 12th International Conference and Exposition on Electrical and Power Engineering (EPE2020), Iasi, Romania, http://www.epe.tuiasi.ro/2020/
	83	BDI	6	Recenzor conferință	Optimal sizing of electrical energy storage system for a household with a grid-connected PV system using inventory model
	84	BDI	6	Recenzor conferință	Increasing the heat supply quality of an existing building within the University POLITEHNICA of Bucharest campus
	85	BDI	6	Recenzor conferință	Economic assessment of grid-connected residential rooftop photovoltaic system with battery energy storage system under various electricity tariffs: a case study in Romania
	86	BDI	6	Recenzor conferință	Photovoltaic Panels Analysis Based On Simulink Tools
18					10th International Conference and exposition on electrical and power engineering –EPE 2018, Oct. 2018 Iasi, Romania http://www.epe.tuiasi.ro/2018/
	87	BDI	6	Recenzor conferință	Thermodynamic Analysis of a Gas-Steam Combined Cycle Power Plant with Bottoming ORC Unit
	TOTAL		714		

3.5. Referent în comisii de doctorat

3.6. Premii

Nr crt	Subcategorii	Rezultate (punctaje)	Premiul
TOTAL		0	

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

Nr crt	Subcategorii	Nationale/ internationale	Punctaj	Asociatia
1	3.7.4. Asociaatii profesionale	Natională	2	Membru SETIS – Societatea Absolvenților Facultății de Electrotehnică din Iași
2		Natională	2	Membru SAMER – Societatea Auditorilor și Managerilor Energetici din România
3		Internațională	5	Membru IAENG-International Association of Engineers (Member Number: 180852)
4		Internațională	5	Membru IAOE-International Association of Online Engineering (Member ID: 10164)
5		Internațională	5	Membru SDIWC - The Society of Digital Information and Wireless Communications (Member ID: 23275)
7		Internațională	5	Membru ISEA International Statistical Engineering Association (ID: 68155212)
8		Internațională	5	Membru IAAC – International Association of academic plus corporate (ID: FRTJQC-CE004422)
TOTAL			29	

Data: 18.12.2025
Candidat
BENIUGĂ Constantin Răzvan

