

Anexa 6. Tabel Instituțional - Articole și Brevete la nivel de universitate - IC2.3 (ultimii 4 ani, perioada 2021-2024)

Universitatea: UNIVERSITATEA TEHNICA GHEORGHE ASACHI DIN IASI / FACULTATEA IEIEA/ DEPARTAMENT ENERGETICA/ Raportare pentru INGINERIE ENERGETICA

NOTE:

Această situație se realizează pe baza fișelor individuale ale cadrelor didactice și de cercetare din universitate, raportate în Anexa 1, care sunt autori/coautori de articole publicate, respectiv brevete obținute în ultimii patru ani (se adaugă datele din fișele individuale, prin copierea și inserarea acestora în tabelul instituțional; pentru articolele/brevetele în coautorat la nivelul universității se verifică/menționează numărul de autori, respectiv autori din universitate, și **se elimină articolele/brevetele duplicate în centralizarea instituțională, ca urmare a raportării acestora de fiecare autor al universității în fișele individuale**).

Acest tabel instituțional se completează numai în spațiile marcate cu culoarea galben și se inserează rânduri în document, doar înainte de rândul cu TOTAL, prin selectarea unui rând formatat (marcat cu culoarea galben) și apoi Copy/Insert Copied Cells.

Fiecare articol/brevet este trecut pe un rând separat, cu datele solicitate: anul publicării articolului, respectiv obținerii brevetului (în cazul brevetelor care au obținut niveluri diferite de recunoaștere în ani diferiți, acestea vor fi înscrise doar la anul recunoașterii celei mai favorabile), datele de identificare ale articolului/brevetului, revista în care s-a publicat articolul sau instituția care a acordat brevetul, valoarea "1" în coloana care corespunde celei mai favorabile clasificări a revistei, respectiv celui mai favorabil nivel de recunoaștere al brevetului (col. 1-13), **numărul total de autori, respectiv numărul de autori din universitate raportați în Anexa 1 (col.14-15).**

Important! Pentru fiecare articol/brevet (rând din tabel), se va completa doar cu o singură valoare "1" în una din coloanele 1 - 13.

Nr. Crt	An referință	Date de identificare ale articolului/brevetului				Date de identificare ale jurnalului/volumului în care a fost publicat articolul sau ale oficiului de brevete:				Încadrare articole										Încadrare brevete				Număr autori	Număr autori titulari din universitate			
		Titlul articolului / Titlul brevetului	DOI Articol / cod WOS / cod Brevet (se completeaza doar unul din cele trei câmpuri)			Denumirea jurnalului / volumului / oficiul de brevete	cod ISSN / cod ISBN/ date identificare oficiu brevete. Important! Câmp obligatoriu (cel puțin unul din coduri) pentru articole (înregistrările cu articole care nu au cel puțin unul din aceste campuri completate nu vor fi luate în calcul). Pentru col. H-1, în situația în care o revista are două ISSN-uri (print și on-line) se va completa cu ISSN-ul identificat în lista JCR din anul în care a fost publicat articolul.				Nature/ Science	ISI Q1	ISI Q2	ISI Q3	ISI Q4	ISI Arts&Humanities	ISI Emerging Sources Citation Index	ERIH+	ISI Proceedings	IEEE Proceedings	Tridice	Europene	Internaționale			Naționale		
			cod DOI (digital object identifier) reprezintă codul unic de identificare al articolului. DOI-ul este localizat (în general) pe prima pagină a articolului	cod WOS (codul unic de identificare al articolului în baza de date Web of Science Core Collection - Accession Number Field) format obligatoriu: WOS:XXXXXXXXXXXX	cod Brevet În cazul brevetelor triadice, se vor trece toate cele trei coduri aferente brevetului		cod ISSN - online format xxxx-xxxx (ex.1235-5678)	cod ISSN - print format xxxx-xxxx (ex.1235-5678)	cod ISBN	date identificare oficiu brevete.	Se completează cu valoarea 1 cea mai favorabilă încadrare a jurnalului din anul în care a fost publicat articolul.								Se completează cu valoarea 1 în categoria în care se încadrează articolul.		Se completează cu valoarea 1 în dreptul categoriei în care se înscrie brevetul.				Se completează numărul total de autori ai articolului/brevetului, respectiv numărul total de autori din universitate ai articolului/brevetului (raporțat în Anexa 1).			
A	B	C	D.1	D.2	D.3	E	F.1	F.2	F.3	F.4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
1	2024	About Contact Resistance Monitoring and Vibration Analysis of a Power Circuit Breaker	10.1109/EPEi63510.2024.10758161			EPEi 2024 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			979-8-3503-5619-9											1					6	6		
		Analysis of Coil Characteristics Using Modern Measurement Techniques	10.1109/EPEi63510.2024.10758089			13th IEEE International Conference and Expositions on Electric and Power Engineering, EPEi 2024			979-835035619-9											1						6	6	
3	2024	Analysis of the Permanent Magnets Influence on the Operation of a BLDC Motor	10.1109/EPEi63510.2024.10758070			2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi)			979-8-3503-5619-9											1						6	6	
		Aspects about Loads Monitoring and Static Switching for Unbalanced Low-Voltage Distribution Networks	10.1109/EPEi63510.2024.10758139			EPEi 2024 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			979-8-3503-5619-9											1						5	5	
5	2024	Comparing the concept of Nearly Zero-Energy Buildings between EU countries in terms of required renewable energy share	10.1109/EPEi63510.2024.10758182			2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi)			979-8-3503-5619-9											1						3	3	
		Cost-effectiveness and sustainability analysis of a NZEB house	10.1109/EPEi63510.2024.10758113			2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi)			979-8-3503-5619-9												1						6	6
7	2024	Digital Communication Capabilities of Low Voltage Circuit Breakers	10.1109/EPEi63510.2024.10758137			2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi)			979-8-3503-5619-9											1						6	6	
		Digital Settings of Low Voltage Circuit Breakers	10.1109/ICATE62934.2024.10748630			2024 International Conference on Applied and Theoretical Electricity (ICATE)			979-8-3503-8810-7												1						6	6
9	2024	Experimental Investigation and Results on the Wear of Photovoltaic Panels	10.1109/EPEi63510.2024.10758115			2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi),														1						3	3	
		Flexible Energy Storage for Sustainable Load Leveling in Low-Voltage Electricity Distribution Grids with Prosumers	10.3390/su16103905	WOS:001231408300001		Sustaianbility/Vol. 16	2071-1050							1												5	4	
11	2024	Impact of Electrical Vehicle Charging on Developing Cities Power System in Near-Future Scenarios	10.1007/978-3-031-81685-7_38			The 18th International Conference Interdisciplinarity in Engineering			978-3-031-81684-0											1						4	2	
		Intelligent System of Management, Command, and Control of Electricity Generated by Renewable Sources	10.1109/EPEi63510.2024.10758165			EPEi 2024 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			979-8-3503-5619-9												1						6	6
13	2024	Internet of Things and Data Mining: A Comprehensive Analysis of Applications in Energy Consumption Management	10.1007/978-3-031-81685-7_36			The 18th International Conference Interdisciplinarity in Engineering			978-3-031-81684-0											1						3	2	
		Leveraging Energy Storage Systems and Virtual Power Lines to Minimize Curtailment in Future Distribution Grids	10.1109/EPEi63510.2024.10758096			2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), 17-19 Oct. 2024, Iasi, Romania			979-8-3503-5619-9												1						6	5
15	2024	Load Shifting as a Demand Side Management Technique	10.1109/EPEi63510.2024.10758065			2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), 17-19 Oct. 2024, Iasi, Romania			979-8-3503-5619-9											1						2	1	
		Monitoring of Medium Voltage Circuit Breakers using a Programmable Logic Controller	10.1109/EPEi63510.2024.10758104			EPEi 2024 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			979-8-3503-5619-9												1						5	5
17	2024	Non-intrusive Monitoring of Consumers of the Power Station Internal Services	10.1109/EPEi63510.2024.10758133			EPEi 2024 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			979-8-3503-5619-9											1							5	5
		Optimal Power Flow with the Clustering-Improved Fuzzy Models for Uncertainty Sources of Wind Power and Nodal Loads	10.1109/EPEi63510.2024.10758170			2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi), 17-19 Oct. 2024, Iasi, Romania			979-8-3503-5619-9												1						6	5

19	2024	Optimal Recloser Placement in Distribution Networks to Improve Power Quality Indicators	10.1109/EPEi63510.2024.10757999			Proc. of. the 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi)			979-8-3503-5619-9											1						4	3
20	2024	Peculiarities of the run-off-river hydropower potential in Romania	10.30638/ceemj.2024.005	WOS:001235350200006		Environmental Engineering and Management Journal, January 2024, Vol. 23, No. 1, pp. 51-60	1843-3707	1582-9596					1													8	2
21	2024	Robust Methodology to Extract the Electricity Consumption Patterns of End-Users Using Data Mining Techniques	10.1109/ECAI61503.2024.10607397			The 16th International Conference on Electronics, Computers and Artificial Intelligence			979-8-3503-7116-1											1						4	3
22	2024	Thermostat Behavior Analysis in Smart Home Environment Using Petri Nets	10.1109/EPEi63510.2024.10758167			2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi)			979-8-3503-5619-9											1						4	4
23	2024	Three-Phase Grid-Connected Electric Vehicles Charging Station with Photovoltaic Panels	10.1109/EPEi63510.2024.10758069			Proceedings of the 13th International Conference and Exposition on Electrical and Power Engineering. EPEi 2024			979-8-3503-5619-9											1						9	1
24	2024	Toward Smart SCADA Systems in the Hydropower Plants through Integrating Data Mining-Based Knowledge Discovery Modules	10.3390/app14188228	WOS:001323830500001		Applied Sciences/vol. 14	2076-3417					1													3	3	
25	2024	Using Hybrid PV-Hydrogen Storage Systems in Optimal Planning of Microgrids	10.1109/EPEi63510.2024.10758028			Proc. of. the 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi)			979-8-3503-5619-9											1						5	5
26	2024	Voltage Quality Pattern Recognition in Microgrids Using a Data-Driven Machine Learning-Based Methodology	10.1109/EPEi63510.2024.10758129			Proc. of. the 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi)			979-8-3503-5619-9											1						3	3
27	2024	Wind Speed Estimation based on Power Law Extrapolation Technique	10.1109/EPEi63510.2024.10758142			Proceedings of the 13th International Conference and Exposition on Electrical and Power Engineering. EPEi 2024			979-8-3503-5619-9											1						3	3
28	2023	A Continuous Multistage Load Shedding Algorithm for Industrial Processes Based on Metaheuristic Optimization	10.3390/math11122684	WOS:001017561300001		Mathematics 2023, 11(12)	2227-7390					1													5	5	
29	2023	A Nanostructured Protein Filtration Device for Possible Use in the Treatment of Alzheimer’s Disease—Concept and Feasibility after In Vivo Tests	10.3390/bioengineering10111303			Bioengineering	2306-5354						1												9	3	
30	2023	Additional Power Losses Estimation in Harmonic Polluted LV Distribution Grid using a Ward's Hierarchical Clustering Method	10.1109/ECAI58194.2023.10193906			Proc. of. the 2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)			979-8-3503-2138-8											1					3	3	
31	2023	An Application of LIDAR Technology for Wind Speed Measurement	10.1109/MPS58874.2023.10187425			Proceedings of the 10th International Conference on Modern Power Systems, MPS 2023			979-8-3503-2682-6											1					3	3	
32	2023	An Efficient Distribution Transformer Fleet Modernization Strategy for a Rapid Transition toward the Active Electric Networks	10.1109/ATEE58038.2023.10108311			The 13th International Symposium on Advanced Topics in Electrical Engineering			979-8-3503-3194-3											1					3	2	
33	2023	Aspects Regarding the Influence of the Supply Voltage on the Torque, Respectively the Efficiency of a Brushless DC Motor with Variable Geometry	10.1109/MPS58874.2023.10187580			2023 10th International Conference on Modern Power Systems (MPS)			979-8-3503-2682-6											1					2	2	
34	2023	Assessing the Impact of Prosumers on the Low-Voltage Electrical Distribution Networks Based on a Scenarios-Based Methodology	10.1109/ISFEE60884.2023.10637049	WOS:001324614500017		2023 INTERNATIONAL SYMPOSIUM ON FUNDAMENTALS OF ELECTRICAL ENGINEERING, ISFEE 2023			979-8-3503-0857-0										1						6	6	
35	2023	Assessing the Trend of Power Quality Indicators in the Electric Distribution Networks Using a Regression Models-Based Approach. Case Study in Romania	10.1007/978-3-031-54671-6_42			The 17th International Conference Interdisciplinarity in Engineering			978-3-031-54670-9											1					3	2	
36	2023	Availability and Reliability Evaluation of Romanian hydro generating units using Markov analysis	10.1109/MPS58874.2023.10187547			2023 10th International Conference on Modern Power Systems (MPS)														1					3	3	
37	2023	Availability of Hydroelectric Generating Units based on the Maintenance Schedule	10.1109/SIELMEN59038.2023.10290836			2023 International Conference on Electromechanical and Energy Systems (SIELMEN)			979-8-3503-1524-0											1					3	3	
38	2023	Blockchain-based crop recommendation system for precision farming in iot environment	10.3390/agronomy13102642	WOS:001095935900001		Agronomy/vol. 13	2073-4395					1													9	1	
39	2023	Contributions to Power Grid System Analysis Based on Clustering Techniques	10.3390/s23041895	WOS:000942301200001		Sensors/Vol. 23	1424-8220						1												7	2	
40	2023	Coordination Control of a Hybrid AC/DC Smart Microgrid with Online Fault Detection, Diagnostics, and Localization Using Artificial Neural Networks	10.3390/electronics12010187	WOS:000909939000001		Electronics/vol. 12	2079-9292						1												4	1	
41	2023	Data Mining-Based Approaches in the Power Quality Analysis	10.1007/978-3-031-38506-3_5			Power Systems, Volume Part F1423, Pages 93 - 119 2023	1612-1287		978-3-031-38505-6											1					3	3	
42	2023	Deep Learning-Based Model for Detection of Brinjal Weed in the Era of Precision Agriculture	10.32604/cmc.2023.038796	WOS:001105865900004		CMC-COMPUTERS MATERIALS & CONTINUA/vol.77	1546-2218						1												8	1	
43	2023	Determining the Occupancy Patterns and Typical Power Demand Profiles of the Electric Vehicle Charging Stations Using a Flexible Clustering-based Data Mining Framework	10.1109/SIELMEN59038.2023.10290841			The International Conference on Electromechanical and Energy Systems			979-8-3503-1525-7											1					4	2	
44	2023	Digital Twin-based Decision-Making Methodology for the Optimal Operation of Microgrids	10.1109/MPS58874.2023.10187426			The 10th International Conference on Modern Power Systems			979-8-3503-2683-3											1					4	3	
45	2023	Efficient Operation Approach of Microgrids Enriched with Prosumers and Storage Systems	10.1109/MPS58874.2023.10187493			2023 10th International Conference on Modern Power Systems (MPS), 21-23 June 2023, Cluj-Napoca, Romania			979-8-3503-2682-6											1					4	3	
46	2023	Efficient optimization algorithm-based demand-side management program for smart grid residential load	10.3390/axioms12010033	WOS:000916714000001		Axioms/vol. 12	2075-1680					1													4	1	

47	2023	Electric vehicle battery-connected parallel distribution generators for intelligent demand management in smart microgrids	10.3390/en16062570	WOS:000957982400001		Energies/Vol.16	1996-1073						1												4	1
48	2023	Engineering Applications of Blockchain Based Crowdsourcing Concept in Active Distribution Grids	10.1007/978-3-031-38506-3_3			Power Systems, Volume Part F1423, Pages 57 - 76 2023	1612-1287		978-3-031-38505-6								1								3	3
49	2023	Expert System Integrating Rule-Based Reasoning to Voltage Control in Photovoltaic-Systems-Rich Low Voltage Electric Distribution Networks: A Review and Results of a Case Study.		WOS:000995609600001		Applied Sciences	2076-3417						1												2	1
50	2023	GeFL: Gradient Encryption-Aided Privacy Preserved Federated Learning for Autonomous Vehicles	10.1109/ACCESS.2023.3233983	WOS:000912466100001		IEEE Access /vol. 11	2169-3536						1												9	1
51	2023	House heating system thermal dynamics assessment using Petri Net approach	10.1109/MPS58874.2023.10187544			10th International Conference on Modern Power Systems (MPS 2023)			979-8-3503-2682-6									1							3	3
52	2023	Improving security in the operation of nuclear power plants using Defence in Depth principle	10.1109/MPS58874.2023.10187531			2023 10th International Conference on Modern Power Systems (MPS)												1							3	3
53	2023	Industrial Communication Networks Used within SAW Sensors Data Transmission	10.1109/MPS58874.2023.10187562			2023 10th International Conference on Modern Power Systems (MPS)			979-8-3503-2682-6									1							5	5
54	2023	Infrared Monitoring of Low Voltage Switch Separator Contact Resistance	10.1109/SIELMEN59038.2023.10290782			2023 International Conference on Electromechanical and Energy Systems (SIELMEN)			979-8-3503-1524-0									1							6	6
55	2023	Mapping Sites for Retrofitting non-Powered Dams in Romania as Renewable Power Sources	10.1109/ATEE58038.2023.10108119			Proceedings of the 13th International Symposium On Advanced Topics In Electrical Engineering, March 23-25, 2023, Bucharest, Romania, ATEE			979-8-3503-3193-6									1							8	2
56	2023	Metodă și aparat pentru monitorizarea și diagnosticarea bobinelor de joantă			RO132165 (B1)					Oficiul de Stat pentru Inventii si Marci, Bucuresti														1	4	4
57	2023	New smart devices-based strategies for optimal planning and operation of active electric distribution networks		WOS:0001257099100012		Book Chapter in Power System Strength: Evaluation methods, best practice, case studies, and applications			978-1-83953-808-7				1												4	4
58	2023	NZEB compliance principles in Romania for residential buildings	10.1109/MPS58874.2023.10187523			10th International Conference on Modern Power Systems (MPS 2023)			979-8-3503-2682-6									1							4	4
59	2023	Optimized sizing of energy management system for off-grid hybrid solar/wind/battery/biogasifier/diesel microgrid system	10.3390/math11051248	WOS:000947061400001		Mathematics 2023, 11, 1248	2227-7390						1												4	2
60	2023	Ozone-Vacuum-Based Decontamination: Balancing Environ-2 mental Responsibility and Textile Waste	10.3390/su152216068			SUSTAINABILITY	2071-1050							1											8	7
61	2023	Passive anti-Islanding protection for Three-Phase Grid-Connected photovoltaic power systems	10.1016/j.ijepes.2023.108946	WOS:001009658800001		International Journal of Electrical Power & Energy Systems, January 2023, 148:108946	1879-3517	0142-0615					1												9	2
62	2023	Phase Load Balancing in Active Electric Distribution Networks Using the Phase Swapping Smart Devices on Lateral Branches	10.1109/CIEM58573.2023.10349358			Proc. of 11th International Conference on ENERGY and ENVIRONMENT (CIEM), Bucuresti, Romania			979-8-3503-4078-5									1							3	3
63	2023	Power systems resilience against cyber-attacks. A systematic analysis	10.1109/MPS58874.2023.10187420			2023 10th International Conference on Modern Power Systems (MPS), 21-23 June 2023, Cluj-Napoca, Romania			979-8-3503-2682-6									1							4	3
64	2023	Review, analysis, and performance evaluation of the most common four active methods for islanding detection in grid-connected photovoltaic systems	10.1016/j.epsr.2022.108909	WOS:000886825400002		Electric Power Systems Research, January 2023, 214(Part A)	1873-2046	0378-7796						1											8	2
65	2023	Technical Losses Estimation in Low Voltage Distribution Network Using Deterministic Methods	10.1007/978-3-031-54671-6_41			The 17th International Conference Interdisciplinarity in Engineering			978-3-031-54670-9									1							5	3
66	2023	Temperature Monitoring of MV Switchgear Cabinet by Non-Intrusive Methods	10.1109/MPS58874.2023.10187466			2023 10th International Conference on Modern Power Systems (MPS)			979-8-3503-2682-6									1							5	5
67	2023	The Roles of the Amyloid Beta Monomers in Physiological and Pathological Conditions	10.3390/biomedicines11051411			Biomedicines	2227-9059							1											4	2
68	2023	Tilt Angle Adjustment for Incident Solar Energy Increase: A Case Study for Europe	https://doi.org/10.3390/su15087015	WOS:000978479400001		Sustainability, 2023, 15(8), 7015	2071-1050							1											2	2
69	2023	Two-Stage Framework for Steady-State Analysis of Low Voltage Electric Distribution Networks Integrating Photovoltaic Prosumers	10.1109/ECAI58194.2023.10194116			Proc. of. the 2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)			979-8-3503-2138-8									1							3	3
70	2023	Voltage Control in Electric Networks with Wind Farms Connected Using a Scenario-Based Optimization Framework	10.1109/MPS58874.2023.10187415			The 10th International Conference on Modern Power Systems			979-8-3503-2683-3									1							4	3
71	2022	A Load Shedding Approach for Islanded Operation in Industrial Electrical Systems	10.1109/ECAI54874.2022.9847448			2022 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)			978-1-6654-9535-6						1										5	5
72	2022	A Low-Cost Industrial Automation System Using IoT and Cloud Computing	10.1109/EPE56121.2022.9959772			2022 International Conference and Exposition on Electrical And Power Engineering (EPE)			978-1-6654-8994-2						1										5	1
73	2022	A New SQP Methodology for Coordinated Transformer Tap Control Optimization in Electric Networks Integrating Wind Farms	10.3390/electronics11233917	WOS:000896559100001		Electronics/vol. 11	2079-9292							1											3	1
74	2022	A New SQP Methodology for Coordinated Transformer Tap Control Optimization in Electric Networks Integrating Wind Farms	10.3390/app12031129	WOS:000754870900001		Applied Sciences	2076-3417							1											5	4
75	2022	A Real-Time Crowdsensing Framework for Potential Covid Carrier Detection using Wearable Sensors	10.3390/math10162927	WOS:000846574300001		Mathematics/vol. 10	2227-7390							1											9	2
76	2022	A Review on Standardizing Electric Vehicles Community Charging Service Operator Infrastructure	10.3390/app122312096	WOS:000895667400001		Applied Sciences/vol. 12	2076-3417							1											8	1

77	2022	Adequacy evaluation of power generating systems taking into account the power reserves requirements	10.1109/EPE56121.2022.9959840			2022 International Conference and Exposition on Electrical And Power Engineering (EPE)			978-166548994-2											1						3	3
78	2022	AI based Technologies for International Space Station and Space Data	10.1109/SMART55829.2022.10046956			2023 11th International Conference on System Modeling & Advancement in Research Trends (SMART)			978-1-6654-8732-0											1						8	1
79	2022	An Efficient Integration Strategy of the Prosumers in the Active Electric Distribution Networks	10.1109/ECAI54874.2022.9847516			Proc. of 14th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Ploiesti, Romania, 30 iunie – 1 iulie 2022			978-1-6654-9535-6											1						5	3
80	2022	An Efficient Voltage Control Methodology in LV Networks Integrating PV Prosumers Using Distribution Transformers with OLTC	10.1109/PEMC51159.2022.9962862	WOS:001338023800022		Proc. of 20th International Power Electronics and Motion Control Conference (PEMC), Brasov, Romania, 25-28 septembrie 2022			978-1-6654-9681-0										1							5	2
81	2022	An Improved Metaheuristic Algorithm for Load Balancing in LV Distribution Networks	10.1109/MPS52805.2021.9492680	WOS:000941563300084		9th International Conference on Modern Power Systems (MPS), 16-17 June 2021, Cluj-Napoca, Romania			978-1-6654-3381-5										1							4	3
82	2022	Artificial Intelligence and Exploratory-Data-Analysis-Based Initial Public Offering Gain Prediction for Public Investors	10.3390/su142013406	WOS:000875076600001		Sustainability/Vol. 14	2071-1050						1													9	2
83	2022	Assessment of extremely low-frequency magnetic field from multiple high-voltage overhead power lines in parallel configuration	10.1109/EPE56121.2022.9959750			2022 International Conference and Exposition on Electrical And Power Engineering (EPE)			978-1-6654-8994-2										1							4	4
84	2022	Characterization of the Power Quality in the Electric Distribution Networks Using Data Mining with K-Means Clustering	10.1109/ICSC57768.2022.9993865	WOS:000927654200023		The 10th International Conference on Systems and Control			978-1-6654-6507-6										1							6	4
85	2022	Clustering-Using Data Mining-based Application to Identify the Hourly Loading Patterns of the Generation Units from the Hydropower Plants	10.1109/EPE56121.2022.9959819			The International Conference and Exposition on Electrical And Power Engineering			978-1-6654-8994-2											1						2	1
86	2022	Continuous Improvement in Education Based on D eming Model in Worldwide Context	10.1109/EPE56121.2022.9959078			12th International Conference and Exposition on Electrical and Power Engineering, EPE 2022			978-166548994-2											1						6	6
87	2022	Controlled Switching Taking Into Account the Standard Deviation of Switching Time	10.1109/EPE56121.2022.9959770			2022 International Conference and Exposition on Electrical And Power Engineering (EPE)			978-1-6654-8994-2										1							4	4
88	2022	Convolutional Neural Network-Based Parkinson Disease Classification Using SPECT Imaging Data	10.3390/math10152566	WOS:000839840600001		Mathematics/Vol. 10	2227-7390						1													10	2
89	2022	Cyber-Physical System for Industrial Automation Using Quantum Deep Learning	10.1109/SMART55829.2022.10047730			2026 11th International Conference on System Modeling & Advancement in Research Trends (SMART)			978-1-6654-8732-0											1						6	1
90	2022	Delegated Proof of Accessibility (DPoAC): A Novel Consensus Protocol for Blockchain Systems	10.3390/math10132336	WOS:000825546600001		Mathematics/Vol. 10	2227-7390						1													6	1
91	2022	Design and Experience of Mobile Applications: A Pilot Survey	10.3390/math10142380	WOS:000831458500001		Mathematics/vol. 10	2227-7390						1													8	2
92	2022	Dielectric parameters of circulating tumor cells – in search of the most suitable buffer solution	10.1109/EPE56121.2022.9959760			EPE 2022 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			978-1-6654-8994-2											1						3	3
93	2022	Electrical Fault Detection for Industry 4.0 using Fusion deep Learning Algorithm	10.1109/EPE56121.2022.9959762			2022 International Conference and Exposition on Electrical And Power Engineering (EPE)			978-1-6654-8994-2											1						6	1
94	2022	Energy Losses Estimation in the Electric Distribution Networks Using Clustering-Based Selection of the Representative Feeders		WOS:000773080200047		Lecture Notes in Networks and Systems, vol 386			978-3-030-93816-1										1							4	2
95	2022	Experimental Analysis for Position Estimation using Trilateration and RSSI in Industry 4.0	10.1109/SMART55829.2022.10047276			2027 11th International Conference on System Modeling & Advancement in Research Trends (SMART)			978-1-6654-8732-0											1						7	1
96	2022	Face Spoofing, Age, Gender and Facial Expression Recognition Using Advance Neural Network Architecture-Based Biometric System	10.3390/s22145160	WOS:000832360000001		Sensors/Vol. 22	1424-8220						1													7	1
97	2022	Foundation Structural Resistance Calculation of SF6 High-Voltage Circuit Breaker	10.1109/EPE56121.2022.9959808			EPE 2022 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			978-1-6654-8994-2											1						5	5
98	2022	GrAb: A Deep Learning-Based Data-Driven Analytics Scheme for Energy Theft Detection	10.3390/s22114048	WOS:000809925300001		Sensors/Vol. 22	1424-8220						1													8	1
99	2022	Impact of Distributed Generation on the Performance of Electrical Networks	10.1109/EPE56121.2022.9959757			2022 International Conference and Exposition on Electrical And Power Engineering (EPE)			978-1-6654-8994-2										1							3	3
100	2022	Impact of the Electric Vehicle Sector's Development on Romania's National Power System	10.1109/EPE56121.2022.9959842			Proceedings of the 12th International Conference and Exposition on Electrical and Power Engineering, EPE 2022	2471-6855		978-1-6654-8994-2											1						2	2
101	2022	IMPROVEMENT OF TEACHING ACTIVITIES IN HIGHER EDUCATION: A CASE STUDY		WOS:000479328200012		REVUE ROUMAINE DES SCIENCES TECHNIQUES.SERIE ELECTROTECHNIQUE ET ENERGETIQUE/ Vol. 64	0035-4066						1													9	1
102	2022	Liquid Biopsy and Dielectrophoretic Analysis—Complementary Methods in Skin Cancer Monitoring	10.3390/app12073366			Applied Sciences	2076-3417							1												5	5
103	2022	Load Modeling Approaches in Smart Grids: An Overview	10.1007/978-3-030-93817-8_49	WOS:000773080200049		Lecture Notes in Networks and Systems, vol 386	2367-3389	2367-3370											1							4	4
104	2022	Measurement and Numerical Simulation of the Low-Frequency Electric Field Generated by an Overhead Power Line	10.1109/EPE56121.2022.9959872			EPE 2022 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			978-1-6654-8994-2											1						5	5

105	2022	Metaheuristic Approaches for Distributed Generation Placement Optimization in Electrical Grids - A comparison between PSO, Tiki-Taka and Archimedes Optimization Algorithms	10.1109/EPE56121.2022.9959077			Proc. of 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 20-22 octombrie 2022			978-1-6654-8994-2											1						6	4
106	2022	Monitoring and Control of Electrical Sub Station Using IoT and Cloud	10.1109/EPE56121.2022.9959776			2023 International Conference and Exposition on Electrical And Power Engineering (EPE)			978-1-6654-8994-2											1						6	1
107	2022	Monitoring and Diagnosis of Electrical Equipment by Infrared Thermography	10.1109/EPE56121.2022.9959756			EPE 2022 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			978-1-6654-8994-2											1						5	5
108	2022	Optimal Placement of Energy Storage Systems in Microgrids Using a PSO based Approach	10.1109/ISGTEurope.2019.8905557	WOS:000550100400114		PROCEEDINGS OF 2019 IEEE PES INNOVATIVE SMART GRID TECHNOLOGIES EUROPE (ISGT-EUROPE)			978-1-5386-8218-0										1							4	2
109	2022	Optimizing the operation of a trigeneration system designed to meet energy requirements for a consumer	10.1109/ISGTEurope.2019.8905655	WOS:000550100400200		PROCEEDINGS OF 2019 IEEE PES INNOVATIVE SMART GRID TECHNOLOGIES EUROPE (ISGT-EUROPE)			978-1-5386-8218-0										1							4	2
110	2022	Prosumer Concept Considering the Building Energy Efficiency Situation	10.1109/EPE56121.2022.9959820			Proc. of 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Iasi, Romania, 20-22 octombrie 2022			978-1-6654-8994-2											1						2	1
111	2022	Research on the Influence of the Nominal Current on the Torque and Respectively on the Efficiency for the BLDC Motor with Variable Geometry	10.1109/EPE56121.2022.9959742			EPE 2022 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			978-1-6654-8994-2											1						2	2
112	2022	Security Analysis for Threats to Patient Data in the Medical Internet of Things	10.1109/SMART55829.2022.10047322			2022 11th International Conference on System Modeling & Advancement in Research Trends (SMART)			978-1-6654-8732-0											1						7	1
113	2022	Smart Factory Setting Awareness by Noise-Pattern Analysis	10.1109/SMART55829.2022.10046930			2024 11th International Conference on System Modeling & Advancement in Research Trends (SMART)			978-1-6654-8732-0											1						7	1
114	2022	Stacked Model-Based Classification of Parkinson's Disease Patients Using Imaging Biomarker Data	10.3390/bios12080579	WOS:000846329700001		Biosensors/Vol.12	2079-6374						1													8	1
115	2022	Stochastic Neural Networks-Based Algorithmic Trading for the Cryptocurrency Market	10.3390/math10091456	WOS:000794848300001		Mathematics/Vol. 10	2227-7390						1													8	1
116	2022	The Influence of Electrical Equipment Structural Elements on their Wireless Communications	10.1109/EPE56121.2022.9959782			EPE 2022 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			978-1-6654-8994-2											1						5	5
117	2022	The Influence of TCSC Devices on Distance Protection Tripping Characteristic	10.1109/EPE56121.2022.9959806			EPE 2022 - Proceedings of the 2020 13th International Conference and Exposition on Electrical And Power Engineering			978-1-6654-8994-2											1						5	5
118	2022	Using Machine Learning for Industry 5.0 Efficiency Prediction Based on Security and Proposing Models to Enhance Efficiency	10.1109/SMART55829.2022.10047387			2025 11th International Conference on System Modeling & Advancement in Research Trends (SMART)			978-1-6654-8732-0											1						8	1
119	2022	Utilizing WSN and Artificial Intelligence to Detect Fires	10.1109/SMART55829.2022.10047324			2028 11th International Conference on System Modeling & Advancement in Research Trends (SMART)			978-1-6654-8732-0											1						7	1
120	2022	Visual Cryptography and Blockchain for Protecting Against Phishing Attacks on Electronic Voting Systems	10.1109/EPE56121.2022.9959765			2022 International Conference and Exposition on Electrical And Power Engineering (EPE)			978-1-6654-8994-2											1						7	1
121	2022	Voltage Control Strategy Using the Rule-Based Reasoning in LV Distribution Networks with PV Penetration Integrating OLTC-Fitted Transformer	10.1109/EPE56121.2022.9959847			The International Conference and Exposition on Electrical And Power Engineering			978-1-6654-8994-2											1						5	2
122	2022	XAI-Fall: Explainable AI for Fall Detection on Wearable Devices Using Sequence Models and XAI Techniques	10.3390/math10121990	WOS:000817495000001		Mathematics/Vol. 10	2227-7390						1													8	1
123	2021	A Clustering-based Knowledge Extraction Methodology for Prosumers' Classification and Injected Power Profiles Grouping	10.1109/ECAI52376.2021.9515042			The 13th International Conference on Electronics, Computers and Artificial Intelligence			978-1-6654-3091-3											1						4	3
124	2021	A Deeper Analysis about the Impact of Prosumers on Power Losses in Low Voltage Microgrids	10.1109/SIELMEN53755.2021.9600366			Proc. of 13th International Conference on Electromechanical and Energy Systems (SIELMEN), Chisinau, Rep. Moldova, 7-8 octombrie 2021			978-1-6654-0078-7											1						5	4
125	2021	A Hybrid Methodology Based on Smart Management Energy Consumption in Irrigation Systems		WOS:000727225500001		Electronics	2079-9292							1												5	5
126	2021	A Metaheuristic Algorithm for Flexible Energy Storage Management in Residential Electricity Distribution Grids	10.3390/math9192375	WOS:000746426300001		Mathematics/vol. 9	2227-7390						1													5	5
127	2021	A New Approach for the Coexistence Study of Urban Buildings Near High Voltage Overhead Lines	10.1109/CIEM52821.2021.9614825			10th International Conference on ENERGY and ENVIRONMENT			978-1-6654-4585-6											1						4	3
128	2021	A Phase Generation Shifting Algorithm for Prosumer Surplus Management in Microgrids using Inverter Automated Control	10.3390/electronics10222740	WOS:000727513800001		Electronics/vol. 10	2079-9292							1												4	4
129	2021	About Communication Networks Used within Electrical Equipment	10.1109/SIELMEN53755.2021.9600388			2021 International Conference on Electromechanical and Energy Systems (SIELMEN)			978-1-6654-0078-7											1						7	5
130	2021	Analysis of Romania's transmission power lines behavior under direct lightning strikes	10.1109/SIELMEN53755.2021.9600318			Proceedings of the 13th International Conference and Exhibition on Electromechanical and Energy Systems, SIELMEN 2021			978-1-6654-0078-7											1						2	2

131	2021	Arc protection function modelling using Petri nets	10.1109/SIELMEN53755.2021.9600269		Proceedings of the 13th International Conference and Exhibition on Electromechanical and Energy Systems, SIELMEN 2021			978-1-6654-0078-7											1						2	2
132	2021	Aspects Regarding the Presence of TCSC Devices on the Transmission Lines	10.1109/MPS52805.2021.9492683		2021 9th International Conference on Modern Power Systems			978-1-6654-3382-2											1						5	5
133	2021	Bi-Level Phase Load Balancing Methodology with Clustering-Based Consumers' Selection Criterion for Switching Device Placement in Low Voltage Distribution Networks	10.3390/math9050542	WOS:000628360100001	Mathematics/vol. 9	2227-7390					1													5	3	
134	2021	Coordinated Control of Single-Phase End-Users for Phase Load Balancing in Active Electric Distribution Networks	10.3390/math9212662	WOS:000719474900001	Mathematics/vol. 9	2227-7390					1													7	5	
135	2021	Effect of wear process on the security of Nuclear Power Plants	10.1109/SIELMEN53755.2021.9600406		2021 International Conference on Electromechanical and Energy Systems (SIELMEN),			978-1-6654-0078-7											1						3	3
136	2021	Electric Bus Indoor Heat Balance in Cold Weather	10.3390/app112411761		APPLIED SCIENCES-BASEL	2076-3417						1													5	4
137	2021	Energy efficiency and compressed air systems. A case study	10.1109/CIEM52821.2021.9614883		Proceedings of the 2021 10th International Conference on ENERGY and ENVIRONMENT (CIEM)			978-1-6654-4584-9											1						2	2
138	2021	EV Charging Control Using DSRC System in LVDN with DG Penetration	10.1109/CIEM52821.2021.9614837		2021 10th International Conference on ENERGY and ENVIRONMENT (CIEM)			978-1-6654-4584-9											1						2	1
139	2021	Evaluation upon the Energy Resources of Photovoltaic Systems depending on their Location	10.1109/SIELMEN53755.2021.9600326		Proceedings of the 13th International Conference and Exhibition on Electromechanical and Energy Systems, SIELMEN 2021			978-1-7281-4011-7											1						4	4
140	2021	Extracting the Operating Characteristics of Hydropower Plants Using a Clustering-based Efficient Methodology	10.1109/MPS52805.2021.9492606	WOS:000941563300045	Proceedings of 2021 9th International Conference on Modern Power Systems, MPS 2021			978-166543381-5											1						4	4
141	2021	Flexible Alternating Current Transmission System Optimisation In The Context Of Large Disturbance Voltage Stability		WOS:000645139100004	REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE/ Vol. 66	0035-4066							1												2	1
142	2021	Hybrid islanding detection technique for single-phase grid-connected photovoltaic multi-inverter systems	10.1049/iet-rpg.2019.1183	WOS:000634802700031	IET RENEWABLE POWER GENERATION, Volume14, Issue18, Page3864-3880, Available online: 16 February 2021	1752-1424	1752-1416					1													6	1
143	2021	Influence of the Prosumers on the Replacement Strategies of the Aged Transformers from the Electric Distribution Networks	10.1109/SIELMEN53755.2021.9600425		Proc. of 13th International Conference on Electromechanical and Energy Systems (SIELMEN), Chisinau, Rep. Moldova, 7-8 octombrie 2021			978-1-6654-0078-7											1						5	3
144	2021	Innovative Integrated Solution for Monitoring and Protection of Power Supply System from Railway Infrastructures	10.3390/s21237858		Sensors/MDPI	1424-8220					1														4	4
145	2021	Integration of Data Mining Techniques in SCADA System for Optimal Operation of Hydropower Plants	10.1109/ECAI52376.2021.9515045		Proc. of 13th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Pitesti, Romania, 1 – 3 Julie 2021			978-1-6654-2534-6											1						4	3
146	2021	Islanded Microgrids control by using Grid Former and Synthetic Slack Bus concept - A preliminary analysis	10.1109/SIELMEN53755.2021.9600347		Proc. of 13th International Conference on Electromechanical and Energy Systems (SIELMEN), Chisinau, Rep. Moldova, 7-8 octombrie 2021			978-1-6654-0078-7											1						8	2
147	2021	K-means Clustering-based Data Mining Methodology to Discover the Prosumers' Energy Features	10.1109/ATEE52255.2021.9425237	WOS:000676164800102	International Symposium on Advanced Topics in Electrical Engineering	1843-8571		978-1-6654-1878-2											1						4	4
148	2021	Load Estimation with the Clustering-Based Selection of the Electric Distribution Substations Integrated in SCADA System	10.1109/CIEM52821.2021.9614718		10th International Conference on ENERGY and ENVIRONMENT			978-1-6654-4585-6											1						4	3
149	2021	Modeling, Simulation and Monitoring of Electrical Contacts Temperature in Railway Electric Traction	10.3390/math9243191		Mathemathics/MDPI	2227-7390					1														6	4
150	2021	Multiobjective Prosumer Surplus Management for Optimal Microgrid Operation	10.1109/CIEM52821.2021.9614729		2021 10th International Conference on ENERGY and ENVIRONMENT (CIEM)			978-1-6654-4584-9											1						4	3
151	2021	Novel Decentralized Voltage-Centered EV Charging Control Algorithm Using DSRC System in Low Voltage Distribution Networks	10.1109/ACCESS.2021.3132419	WOS:000734431000001	IEEE Access /vol. 9	2169-3536						1													6	5
152	2021	Optimization and Estimation of Reliability Indices and Cost of Power Distribution System of an Urban Area by a Noble Fuzzy-Hybrid Algorithm	10.1016/j.asoc.2021.107078	WOS:000632598600011	Applied Soft Computing/vol. 102	1872-9681	1568-4946				1														4	2
153	2021	Performance analysis of double-axis orientating Low Concentration Photovoltaic Systems	10.1109/MPS52805.2021.9492623	WOS:000941563300054	PROCEEDINGS OF 9TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS 2021)			978-1-6654-3381-5											1						4	3
154	2021	Perspectives on Railway Electric Traction System Improvement Brought by Monitoring the Impedance Bonds	10.1109/SIELMEN53755.2021.9600367		2021 International Conference on Electromechanical and Energy Systems (SIELMEN)			978-1-6654-0078-7											1						7	6
155	2021	Photovoltaic-Thermal System for Trigenerating Electricity, Hot Water and Cold	10.1109/SIELMEN53755.2021.9600378		2021 International Conference on Electromechanical and Energy Systems (SIELMEN)			978-1-6654-0078-7											1						6	2
156	2021	Power Quality Requirements for Grid-Connected Photovoltaic Systems	10.1109/SIELMEN53755.2021.9600364		2021 International Conference on Electromechanical and Energy Systems (SIELMEN),			978-1-6654-0078-7											1						3	3
157	2021	Reliability Assessment of Auxiliary Power Supply Systems for a Nuclear Power Plant (NPP)	10.1109/MPS52805.2021.9492657	WOS:000941563300073	9th International Conference on Modern Power Systems (MPS)														1						2	2

158	2021	Simulation and Monitoring of Electrical Contacts Thermal Stresses in Railway Electric Traction	10.3390/math9243191	WOS:000741491500001		Mathematics/vol. 9	2227-7390					1															6	5	
159	2021	Study of lightning's strokes on HV overhead power lines	10.1109/MPSS2805.2021.9492600	WOS:000941563300041		Proceedings of the 9th International Conference on Modern Power Systems, MPS 2021		978-1-6654-3382-2										1									3	3	
160	2021	Switch-off transients affecting the dynamic load transfer		WOS:000518413400022		Bulletin of the Polytechnic Institute of Iași. Electrical Engineering, Power Engineering, Electronics, vol. 67, issue 4, 2022. Secția ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ												1									3	3	
161	2021	The influence of battery state of charge on self consumption indices	10.1109/SIELMEN53755.2021.9600406			2021 International Conference on Electromechanical and Energy Systems (SIELMEN),		978-1-6654-0078-7											1								3	3	
162	2021	The Influence of Feedwater Preheaters on the Power Plant Thermal Efficiency	10.1109/MPSS2805.2021.9492627	WOS:000941563300057		PROCEEDINGS OF 9TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS 2021)		978-1-6654-3381-5											1								4	4	
163	2021	The Risk Analysys for the Coexistence of Overhead Lines and Urban Green Areas	10.1109/MPSS2805.2021.9492592	WOS:000941563300035		Proc. of 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 16-17 Iunie, 2021		978-1-6654-3382-2											1								4	3	
164	2021	Theories about Mechanical Calculus in the Context	10.1109/SIELMEN53755.2021.			The 13th Interantional Conference on		978-1-6654-0079-4												1								4	3
165	2021	Transient of High Voltage Circuit Breakers Intelligent Switching during Grid Faults	10.1109/MPSS2805.2021.9492555	WOS:000941563300016		PROCEEDINGS OF 9TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS 2021)		978-1-6654-3381-5												1								4	4
166	2021	Wind Power in Romania Energy Mix Towards Sustainable Development	10.1109/MPS52805.2021.9492673	WOS:000941563300081		PROCEEDINGS OF 9TH INTERNATIONAL CONFERENCE ON MODERN POWER SYSTEMS (MPS 2021)		978-1-6654-3381-5												1								4	4
167	2021	Wireless Communication Networks within Electrical Equipment	10.1109/MPSS2805.2021.9492698			2021 9th International Conference on Modern Power Systems		978-1-6654-3382-2												1								7	5
Total general (nr.articole / nr.brevete) la nivel de universitate												0	23	17	6	2	0	2	0	21	95	0	0	0	1				

Sinteza pe departament a raportarii cercetarii CNFIS 2021-2024_MAI 2025

Domeniu	Nature/ Science	Încadrare articole									Încadrare brevete				TOTAL
		ISI Q1	ISI Q2	ISI Q3	ISI Q4	ISI Arts&Humanities	ISI Emerging Sources Citation Index	ERIH+	ISI Proceedings	IEEE Proceedings	Triadice	Europene	Internaționale	Naționale	
0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
EN	0	23	17	6	2	0	2	0	21	95	0	0	0	1	167
EL	0	5	3	0	2	0	0	0	1	9	0	1	0	1	22
Total	0	28	20	6	4	0	2	0	22	104	0	1	0	2	189

Membri departament 16
 Raporteaza pe Inginerie Energetica 14
 Raporteaza pe Inginerie Electrica 2

Director departament,
 Prof.univ.dr.ing. Dumitru-Marcel Istrate