

Anexa B.9.8 - Rezultatele activității de cercetare desfășurate de personalul didactic și de cercetare (ultimii cinci ani)

UNIVERSITATEA TEHNICĂ “GHEORGHE ASACHI” IAȘI

FACULTATEA DE INGINERIE ELECTRICĂ, ENERGETICĂ ȘI INFORMATICĂ APLICATĂ

Domeniul: Inginerie Energetică

TABEL PRIVIND INDEPLINIREA INDICATORULUI

„Cadrele didactice titulare* au pregătirea inițială, sunt doctori / doctoranzi și cercetează în domeniul în care se includ disciplinele din postul ocupat.”

Nr. crt.	Gradul didactic, numele și prenumele titularului vârsta / vechimea în învățământul superior	Disciplinele din cadrul programului de studii incluse în postul didactic și tipul activității desfășurate (curs, seminar, lucrări, proiect)	Competența cadrului didactic titular în disciplinele din postul didactic			Constatări privind îndeplinirea indicatorului
			Universitatea/facultatea/specializarea absolvită	Specializarea la masterat/doctorat	Numărul de cărți, numărul de lucrări științifice, numărul de brevete în domeniul disciplinelor din postul didactic ** conform Anexelor 5.1, 5.2 etc	
1.	Prof. dr. ing. Istrate Marcel 64/ 37	Regimuri tranzitorii electromagnetice	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie energetică	A-1; B-4; C-27; D-0;E-17.	îndeplinit
2.	Prof. dr. ing. Gavrilăș Mihai 65 / 38	Energie, societate, mediu	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie energetică	A-0; B-0; C-10; D-0;E-1.	îndeplinit
		Stabilitatea și controlul sistemelor electroenergetice			A-1; B-0; C-9; D-0;E-1.	
3.	Prof. dr. ing. Gușă Mircea 79 / 56	Coordonarea izolației	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică /	Doctorat în inginerie electrică	A-1; B-0; C-0; D-0;E-21.	îndeplinit

			Inginerie Energetică			
4.	Prof. dr. ing. Adam Maricel 59 / 32	Monitorizarea și diagnosticarea echipamentelor electrice	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie electrică	A-1; B-0; C-30; D-0;E-8.	îndeplinit
		Tehnici de comutație și echipamente FACTS			A-0; B-0; C-15; D-0;E-2.	
5.	Prof. dr. ing. Nemeș Ciprian 50 / 27	Managementul proiectelor	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie energetică	A-0; B-0; C-11; D-0;E-1.	îndeplinit
		Regimuri dinamice al centralelor electrice			A-1; B-0; C-11; D-0;E-0.	
6.	Prof. dr. ing. Grigoraș Gheorghe 49 / 26	Tehnici moderne de conducere	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie energetică	A-1; B-9; C-27; D-21;E-1.	îndeplinit
		Piața de energie și politici energetice			A-0; B-2; C-40; D-9;E-1.	
7.	Conf. dr. ing. Nițucă Costică 59 / 22	Etică și integritate	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Electrică	Doctorat în inginerie electrică	A-1; B-1; C-1; D-0;E-1.	îndeplinit
8.	Conf. dr. ing. Ivanov Ovidiu 47/ 22	Procesarea cunoștințelor și calcul inteligent	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie energetică	A-1; B-0; C-25; D-1;E-1.	îndeplinit

9.	Conf. dr. ing. Neagu Bogdan 40 / 16	Stabilitatea și controlul sistemelor electroenergetice	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie electrică	A-0; B-6; C-71; D-0;E-0.	îndeplinit
		Strategia planificării sistemelor de distribuție			A-1; B-4; C-27; D-0;E-2.	
10.	Conf. dr. ing. Beniugă Oana 42 / 9	Sisteme integrate de protecție și automatizare	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Electrică	Doctorat în inginerie electrică	A-1; B-4; C-14; D-0;E-2.	îndeplinit
11.	Șl. dr. ing. Andrușcă Mihai 40 / 15	Poluare electromagnetică	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie electrică	A-1; B-0; C-19; D-0;E-1.	îndeplinit
		Echipamente cu logică programabilă			A-0; B-0; C-9; D-0;E-1	
12.	Șl. dr. ing. Beniugă Răzvan 46 / 9	Energetica clădirilor	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie energetică	A-1; B-1; C-4; D-1;E-0.	îndeplinit

13.	Șl. dr. ing. Dragomir Alin 38 / 8	Etică și integritate	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie și Management	Doctorat în inginerie energetică	A-1; B-1; C-37; D-0;E-0.	îndeplinit
14.	dr. ing. Vieru (Hriscu) Iuliana 42 / 1	Dezvoltare personală	Universitatea Tehnică „Gheorghe Asachi” din Iași / Facultatea de Electrotehnică / Inginerie Energetică	Doctorat în inginerie energetică	A-1; B-0; C-0; D-0;E-0.	îndeplinit

* Din statul de funcții cumulativ al tuturor disciplinelor și tuturor activităților didactice desfășurate în cadrul programului de studii evaluat.

** Se indică numărul pe următoarele tipuri de lucrări: A – teza de doctorat B – Cărți și capitole în cărți publicate în ultimii XX ani C – Lucrări indexate ISI/BDI publicate în ultimii XX ani	D – Lucrări publicate în ultimii XX ani în reviste și volume de conferințe cu referenți (neindexate); pentru lucrările publicate în volume de conferințe se selectează de maximum 20 articole. E – Brevete acordate în întreaga activitate. Persoanele incluse în tabelul de mai sus anexează câte o listă de lucrări după modelul de mai jos.
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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

„Contribuții la coordonarea izolației rețelelor electrice, în vederea compactizării liniilor electrice aeriene”, 1996, Domeniul „Inginerie Energetică”, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: prof. dr. ing. Nicolae Gavrilăș.

B. Cărți și capitole în cărți publicate în ultimii 5 ani

1. Oprea Roxana, Istrate Marcel, Machidon Dragos, Soluții pentru creșterea performanțelor sistemelor fotovoltaice, Editura PIM, 205 pagini, ISBN 978-606-138696-3, 2024.
2. Machidon Dragoș. Istrate Marcel, Modele matematice de calcul a zonelor de protecție generate de sistemele de paratrăsnete, Editura Universității Tehnice “Gheorghe Asachi” din Iași, 182 pag, ISBN 978-973-621-537-7, 2024.
3. Beniuga Razvan, Istrate Marcel, Provocări privind integrarea centralelor eoliene în sistemul energetic, Editura Politehnicum (cod CNCSIS 211), Iași, 208 pag., (31 rânduri/pagină – coeficient 1,03), ISBN 978-973-621-520-9, 2023
4. Machidon D., Istrate M., Tehnica tensiunilor înalte – Lucrări de laborator, Editura Politehnicum, Iași, 185 pag., 50 exemplare, ISBN 978-973-621-501-8, 2021.

C. Lucrări indexate ISI/BDI publicate în ultimii 5 ani

1. Dragos Machidon, Marcel Istrate, Razvan Beniuga, Wind Shear Coefficient Estimation Based on LIDAR Measurements to Improve Power Law Extrapolation Performance, Remote Sensing, 2025, Vol 17, Issue 1, 23; DOI: 10.3390/rs17010023, <https://doi.org/10.3390/rs17010023>, Submission received: 2 November 2024 / Revised: 5 December 2024 / Accepted: 23 December 2024 / Published: 25 December 2024, (This article belongs to the Special Issue New Insights from Wind Remote Sensing), <https://www.mdpi.com/journal/remotesensing>, Revista ISI - Impact factor la data publicării 4,2, Citescore 8,3, Q1
2. Costel Boariu, Costică Roman, Marcel Istrate, Tor Haakon Bakken, Atle Harby, Elena Pummer, Georgiana Dunca, Diana Maria Bucur, Peculiarities of the run-off-river hydropower potential in Romania, Environmental Engineering and Management Journal, January 2024, Vol. 23, No. 1, pp. 51-60, Print ISSN: 1582-9596, eISSN: 1843-3707, DOI: 10.30638/eemj.2024.005, <http://www.eemj.icpm.tuiasi.ro/issues/vol23/vol23no1.htm>, Revista ISI - Impact factor la data publicării 1,1
3. Fadila Barkat, Ali Cheknane, Josep M. Guerrero, Abderezak Lashab, Marcel Istrate, Mihai Gavrilaș, Justina G. Motaș, Ioan Viorel Banu, Review, analysis, and performance evaluation of the most common four active methods for islanding detection in gridconnected photovoltaic systems, January 2023, Electric Power Systems Research 214(Part A), DOI: 10.1016/j.epsr.2022.108909, LicenseCC BY 4.0,

- <https://www.sciencedirect.com/science/article/pii/S0378779622009609?via%3Dihub>, Revista ISI - Impact factor 3.9, Q2
4. Dragos Machidon, Marcel Istrate, Tilt Angle Adjustment for Incident Solar Energy Increase: A Case Study for Europe, Sustainability 2023, 15(8), 7015; <https://doi.org/10.3390/su15087015>, Received: 20 March 2023 / Revised: 19 April 2023 / Accepted: 20 April 2023 / Published: 21 April 2023, <https://www.mdpi.com/20711050/15/8/7015>, Revista ISI - Impact factor 3.889, Q2
 5. Ioan Viorel Banu, Fadila Barkat, Marcel Istrate, Josep M. Guerrero, George Culea, Petru Livinti, Justina G. Motasb, Bogdan Neagu, Dragos Andrioaia, Passive anti-islanding protection for Three-Phase Grid-Connected photovoltaic power systems, January 2023, International Journal of Electrical Power & Energy Systems 148:108946, DOI: 10.1016/j.ijepes.2023.108946, journal homepage: www.elsevier.com/locate/ijepes, <https://doi.org/10.1016/j.ijepes.2023.108946>, Received 16 July 2022; Received in revised form 27 October 2022; Accepted 3 January 2023 <https://www.sciencedirect.com/science/article/pii/S0142061523000030?via%3Dihub>, Revista ISI - Impact factor 5.2, Q1
 6. Fadila Barkat; Ali Cheknane; Josep M. Guerrero; Abderezak Lashab; Marcel Istrate; Ioan Viorel Banu, Hybrid islanding detection technique for single-phase grid-connected photovoltaic multi-inverter systems, IET Renewable Power Generation (factor de impact 3,894), DOI: 10.1049/iet-rpg.2019.1183, Print ISSN 1752-1416, Online ISSN 1752-1424 Available online: 16 February 2021, <https://digital-library.theiet.org/content/journals/10.1049/iet-rpg.2019.1183>, Revista ISI - Impact factor in 2022 = 2.6, Q3
 7. Neagu, B.-C.; Ivanov, O.; Grigoras, G.; Gavrilaș, M.; Istrate, D.-M. New Market Model with Social and Commercial Tiers for Improved Prosumer Trading in Microgrids. Sustainability 2020, 12, 7265, doi:10.3390/su12187265.
 8. Dragos Machidon; Marcel Istrate; Constantin Razvan Beniuga, Wind Speed Estimation based on Power Law Extrapolation Technique, Paper ID:72, Proceedings of the 13th International Conference and Exposition on Electrical and Power Engineering, EPEI 2024, October 2024, Iasi, Romania, IEEE Conferences, <https://ieeexplore.ieee.org/document/10758142>.
 9. Paul-Sergiu Popa; Răzvan Beniugă; Marcel Istrate, Comparing the concept of Nearly Zero-Energy Buildings between EU countries in terms of required renewable energy share, Paper ID:48, Proceedings of the 13th International Conference and Exposition on Electrical and Power Engineering, EPEI 2024, October 2024, Iasi, Romania, IEEE Conferences, <https://ieeexplore.ieee.org/document/10758182>
 10. Constantin Razvan Beniuga; Popa Sergiu-Paul; Oana Cristina Beniuga; Dragos Machidon; Florin C Băiceanu; Dumitru-Marcel Istrate, Cost-effectiveness and sustainability analysis of a NZEB house, Paper ID:64, Proceedings of the 13th International Conference and Exposition on Electrical and Power Engineering, EPEI 2024, October 2024, Iasi, Romania, IEEE Conferences, <https://ieeexplore.ieee.org/document/10758113>
 11. 2024, October 2024, Iasi, Romania, IEEE Conferences, <https://ieeexplore.ieee.org/document/10758113>
 12. Ioan Viorel Banu; Fadila Barkat; Marcel Istrate; Josep M. Guerrero; Nicolay Mihailov; Boris I Evstatiev; Nikolay Valov; George Culea; Petru Gabriel Puiu, Three-Phase Grid-Connected Electric Vehicles Charging Station with Photovoltaic Panels, Paper ID:131, Proceedings of the 13th International Conference and Exposition on Electrical and Power Engineering, EPEI 2024, October 2024, Iasi, Romania, IEEE Conferences, <https://ieeexplore.ieee.org/document/10758069>

13. Razvan BENIUGA, Oana BENIUGA, Dragos MACHIDON, Florin C. BAICEANU, Marcel ISTRATE, NZEB Compliance Principles in Romania for Residential Buildings, Modern Power Systems Conference, 10th Edition, Cluj-Napoca, 21st - 23rd of June 2023, <https://ieeexplore.ieee.org/xpl/conhome/10187192/proceeding>
14. Dragos MACHIDON, Marcel ISTRATE, Razvan BENIUGA, An Application of LIDAR Technology for Wind Speed Measurement, Modern Power Systems Conference, 10th Edition, Cluj-Napoca, 21st - 23rd of June 2023, <https://ieeexplore.ieee.org/xpl/conhome/10187192/proceeding>
15. Georgiana Dunca, Diana Maria Bucur, Tor Haakon Bakken, Atle Harby, Elena Pummer, Marcel Istrate, Costel Boariu, Costica Roman, Mapping Sites for Retrofitting non-Powered Dams in Romania as Renewable Power Sources, THE 13th INTERNATIONAL SYMPOSIUM ON ADVANCED TOPICS IN ELECTRICAL ENGINEERING, March 23-25, 2023, Bucharest, Romania, ATEE <https://ieeexplore.ieee.org/xpl/conhome/10108076/proceeding>
16. Machidon, Dragos; Istrate, Marcel, Impact of the Electric Vehicle Sector's Development on Romania's National Power System, EPE 2022, ID 80, <https://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&contentType=conferences&queryText=Impact%20of%20the%20Electric%20Vehicle%20Sector%E2%80%99s%20Development%20on%20Romania%E2%80%99s%20National%20Power%20System>
17. Dragos Machidon, Marcel Istrate, Analysis of Romania's Transmission Power Lines Behavior under Direct Lightning Strikes, ID 47, sesiunea PETD2, SIEMEN 2021, <https://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&contentType=conferences&queryText=Analysis%20of%20Romania%E2%80%99s%20Transmission%20Power%20Lines%20Behavior%20under%20Direct%20Lightning%20Strikes>
18. Razvan BENIUGA, Oana BENIUGA, Florin C. BAICEANU, Marcel ISTRATE, The Influence of Feedwater Preheaters on the Power Plant Thermal Efficiency, 2021 9th International Conference on Modern Power Systems MPS 2021, paper ID 038, 978-16654-3382-2/21/\$31.00 ©2021 IEEE, DOI: 10.1109/MPS52805.2021.9492578, <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9492627>
19. Razvan BENIUGA, Oana BENIUGA, Dragos MACHIDON, Marcel ISTRATE, Wind Power in Romania Energy Mix Towards Sustainable Development, 2021 9th International Conference on Modern Power Systems MPS 2021, paper ID 107, 978-16654-3382-2/21/\$31.00 ©2021 IEEE, DOI: 10.1109/MPS52805.2021.9492578, <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9492673>
20. Dragos MACHIDON, Marcel ISTRATE, Roxana OPREA, Razvan BENIUGA, Performance Analysis of Double-Axis Orientating Low Concentration Photovoltaic Systems, 2021 9th International Conference on Modern Power Systems MPS 2021, paper ID 024, 978-1-6654-3382-2/21/\$31.00 ©2021 IEEE, DOI: 10.1109/MPS52805.2021.9492578, <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9492623>
21. Anca-Teona S. SOLOMON, Marcel ISTRATE, Dragos MACHIDON, Study of Lightning Strokes on HV Overhead Power Lines, 2021 9th International Conference on Modern Power Systems MPS 2021, paper ID 066, 978-1-6654-3382-2/21/\$31.00 ©2021 IEEE, DOI: 10.1109/MPS52805.2021.9492578, <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=9492600>
22. Dragos Machidon, Roxana Oprea, Istrate Marcel, Razvan Beniuga, Energy output increase by using a periodic orientation system for fixed photovoltaic panels, Paper ID:4062, Proceedings of the 10th International Conference and Exposition on Electrical and Power Engineering, EPE 2020, October 2020, Iasi, Romania, IEEE Conferences.

25. Claudiu Buca, Marcel Istrate, Implementation of the Automatic Line Reclosure using PLC and Petri Nets Modelling, Paper ID:3968, Proceedings of the 10th International Conference and Exposition on Electrical and Power Engineering, EPE 2020, October 2020, Iasi, Romania, IEEE Conferences
26. Alexandru Salceanu, Silviu Vornicu, Eduard Lunca, Marcel Istrate, Influence of High Voltage Bundle Configurations on Human Exposure, Proceedings of the 10th International Conference and Exposition on Electrical and Power Engineering, EPE 2020, October 2020, Iasi, Romania, IEEE Conferences
27. D.D. Lucache, M.A. Boukli Hacene, Marcel Istrate, Lotfi Karaouzene, Energy Retroffiting of a Faculty Building: Difference between simulation and implementation, Conference Alternative Energy Source, Materials & Technologies (AESMT ' 20), Vol, 2, pp.47-86, 2020, ISSN2603-364X

D. Lucrări publicate în ultimii 5 ani în reviste și volume de conferințe cu referenți (neindexate)

E. Brevete obținute în întreaga activitate

1. Gușă M., Istrate M., Asaftei C., Gavrilăș N., Procedeu de autodeclanșare selectivă și semnalizare pentru separatoare de sarcină, Brevet România, 116988/2001. International Patent Classification H02J-013/00, <http://apps.isiknowledge.com>
2. Asaftei C., Istrate M., Gușă M., Gavrilăș N., Popa C., Dispozitiv de semnalizare cu bloc de testare, Brevet Romania 114197B1/1998, Inter-national Patent Classification G01R031/08, <http://apps.isiknowledge.com>
3. Asaftei C., Istrate M., Gușă M., Gavrilăș N., Popa C., Sistem de testare cu autoalimentare, Brevet Romania 114048/1998, International Patent Classification G01R031/08, <http://apps.isiknowledge.com>
4. Istrate M., Asaftei C., Gușă M., Gavrilăș N., Sistem de testare a semnalizatoarelor locale de scurtcircuit din rețelele electrice de medie tensiune, Brevet România, 113907B/30.11.1998. International Patent Classification G01R-031/02, <http://apps.isiknowledge.com>
5. Asaftei C., Gușă M., Istrate M., Gavrilăș N., Vorobchevici M., Indicator local pentru scurtcircuit, Brevet România, nr.106621 C1/1996, Interna-tional Patent Classification G01R-031/02, <http://apps.isiknowledge.com>
6. Asaftei C., Gușă M., Istrate M., Gavrilăș N., Ciutea I., Sistem de semna-lizare locală și la distanță, Brevet România nr. 105862 C1/1992, Interna-tional Patent Classification G01R031/02, <http://apps.isiknowledge.com>
7. Asaftei C., Gușă M., Gabură A., Istrate M., Gavrilăș N., Tărăboanță I., Receptor pilotat cu cuarț, Brevet România, nr. 105747 C1/1992, Interna-tional Patent Classification H02J013/00, <http://apps.isiknowledge.com>
8. Asaftei C., Gușă M., Gabură A., Istrate M., Gavrilăș N., Tărăboanță I., Emițător pilotat cu cuarț, Brevet România, nr. 105754 C1/1992. Interna-tional Patent Classification H04B-003/54 <http://apps.isiknowledge.com>
9. Asaftei C., Gușă M., Istrate M., Gavrilăș N., Instalație pentru emiterea semnalelor electrice pe linii de medie tensiune, Brevet România, nr.105638 B1/1992. International Patent Classification H04B-003/54, <http://apps.isiknowledge.com>
10. Gușă M., Gavrilăș N., Asaftei C., Istrate M., Regulator automat pentru bobine de stingere, Brevet România, nr. 104711/1991. International Patent Classification H02J003/18, <http://apps.isiknowledge.com>. Acest brevet a fost medaliat cu argint la la Salonul

internațional al invențiilor și tehnicii noi, Iași 1994 și medaliat cu aur la Salonul internațional al invențiilor “EUREKA ‘94”- Bruxelles, 1994.

11. Istrate M., Gușă M., Asaftei C., Gavrilăș N., Dispozitiv trifazat de semnalizare locală și la distanță, Brevet România nr. 104650/1991, Inter-national Patent Classification H02H007/26, <http://apps.isiknowledge.com>
12. Istrate M., Gușă M., Asaftei C., Gavrilăș N., Releu de semnalizare locală și la distanță, Brevet România, nr.104649/1991, International Patent Classification H02H-007/26, <http://apps.isiknowledge.com>
13. Asaftei C., Gușă M., Istrate M., Gavrilăș N., Botez C., Receptor de semnale codificate, Brevet România, nr. 104264/1991, International Patent Classification G08B-025/00, <http://apps.isiknowledge.com>
14. Gușă M., Asaftei C., Istrate M., Gavrilăș N., Instalație de semnalizare centralizată, Brevet România, nr. 103783/1991, International Patent Classification G08B-025/00, <http://apps.isiknowledge.com>
15. Asaftei C., Gușă M., Istrate M., Gavrilăș N., Ciutea I., Receptor pentru semnalizarea centralizată a zonelor cu defect de izolație pe linii electrice de medie tensiune, Brevet România, nr. 103548/1991, International Patent Classification H02J-013/00, <http://apps.isiknowledge.com>
16. Istrate M., Gușă M., Asaftei C., Gavrilăș N., Suflețel N., Botez C., Metodă și dispozitiv emițător pentru stabilirea zonelor cu defect de izolație, Brevet România, nr.103448/1991, International Patent Classification G01N-031/03, <http://apps.isiknowledge.com>
17. Asaftei C., Gușă M., Gavrilăș N., Istrate M., Suflețel N., Dispozitiv de semnalizare a depășirii unui curent maxim într-un conductor, Brevet România, nr. 103490/1990, International Patent Classification H02H-003/04, <http://apps.isiknowledge.com>

Data:

Semnătura:

Universitatea Tehnică „Gheorghe Asachi” din Iași
 Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată
 Catedra de Energetică
Prof. dr. ing. Gavrilas Mihai

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Cercetări privind optimizarea structurii și regimurilor liniilor de transport a energiei electrice compacte, 1994, Domeniul „Inginerie Energetică”, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: prof. dr. ing. Alexandru Poeată.

B. Cărți și capitole în cărți publicate în ultimii 5 ani

C. Lucrări indexate ISI/BDI publicate în ultimii 5 ani

1. Barkat F., Cheknane A., Guerrero J.M., Lashab A., Istrate M., Gavrilas M., Motas J.G., Banu I.V., 2023. Review, analysis, and performance evaluation of the most common four active methods for islanding detection in grid-connected photovoltaic systems. Electric Power Systems Research, 214, p.108909, DOI: 10.1016/j.epsr.2022.108909.].
2. Kriukov A., Gavrilas M., Ivanov O., Grigoras G., Neagu B.-C., Scarlatache F., Novel Decentralized Voltage-Centered EV Charging Control Algorithm Using DSRC System in Low Voltage Distribution Networks, IEEE Access (Early Access), Decembrie 2021, 9, pp. 164779-164800, doi: 10.1109/ACCESS.2021.3132419
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Prof. dr. ing. Nemeș Ciprian-Mircea

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

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Data:

Semnătura:

Universitatea Tehnică „Gheorghe Asachi” din Iași
Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată
Catedra de Utilizări, Acționări și Automatizări Industriale
Conf. dr. ing. Nițucă Costică

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

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Universitatea Tehnică „Gheorghe Asachi” din Iași
Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată
Catedra de Energetică
Șl. dr. ing. Dragomir Alin

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

„Contribuții privind managementul echipamentelor electrice. Monitorizarea solicitărilor termice”, 2017, Domeniul „Inginerie Electrică”, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: prof. dr. ing. Adam Maricel.

B. Cărți si capitole în cărți publicate în ultimii 5 ani

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D. Lucrări publicate în ultimii 5 ani în reviste și volume de conferințe cu referenți (neindexate)

E. Brevete obținute în întreaga activitate

Data:

Semnătura:

Universitatea Tehnică „Gheorghe Asachi” din Iași
Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată
Catedra de Energetică
dr. ing. Vieru (Hriscu) Iuliana

L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

1. Contributii la optimizarea comportarii liniilor electrice aeriene la supratensiuni de trasnet, conducator stiintific, prof. dr. ing. Mircea Dan Gușă, Universitatea Tehnică „Gh. Asachi” Iași, 2010.

B. Cărți si capitole în cărți publicate în ultimii 5 ani

C. Lucrări indexate ISI/BDI publicate în ultimii 5 ani

**D. Lucrări publicate în ultimii 5 ani în reviste și volume de conferințe cu referenți
(neindexate)**

E. Brevete obținute în întreaga activitate

Data:

Semnătura:

Universitatea Tehnică „Gheorghe Asachi” din Iași
 Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată
 Catedra de Energetică
Conf. dr. ing. Beniugă Oana

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

„Studii teoretice și experimentale privind procesarea numerică a imaginilor în metrologie” – Domeniul Inginerie Electrică, susținută public în data de 25.09.2009, în cadrul Universității Tehnice “Gheorghe Asachi” din Iași, Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată, conducător de doctorat prof. dr. ing. Mihai Crețu.

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2. O. Beniugă, R. Beniugă, F. Băiceanu, House heating system thermal dynamics assessment using Petri Net approach, 2023 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2023, pp. 01-05, doi: 10.1109/MPS58874.2023.10187544
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5. Bogdan, Pingescu, Astanei Dragos, Burlică Radu, Asmarandei Vasile Daniel, Beniugă Oana Cristina and Gheorghe Veronica. "Capacitive Power Supplies for Non-Thermal Plasma Electrochemical Mini-Reactors." 2024 IEEE International Conference And Exposition On Electric And Power Engineering (EPEi) (2024): 632-635.
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13. R. Beniugă, O. Beniugă, D. Machidon, M. Istrate, Wind Power in Romania Energy Mix Towards Sustainable Development, 2021 9th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2021, pp. 1-4, doi: 10.1109/MPS52805.2021.9492673.
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Data:

Semnătura:

Universitatea Tehnică „Gheorghe Asachi” din Iași
 Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată
 Catedra de Energetică
Prof. dr. ing. Gușă Dan-Mircea

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat.

“Contribuții la optimizarea tratării neutrului în rețelele de medie tensiune”, 1984, Domeniul “Inginerie energetică”, Universitatea Tehnică „Gheorghe Asachi” din Iași, conducător doctorat: prof. dr. ing. Poată Alexandru.

B. Cărți și capitole de cărți.

C. Lucrări indexate ISI/BDI

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E. Brevete.

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3. Istrate M., Asaftei C., **Gușă M.**, Gavrilăș N. Sistem de testare a semnalizatoarelor locale de scurtcircuit din rețelele electrice de medie tensiune. Brevet RO, 113907B/30.11.1998.
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5. Asaftei C., **Gușă M.**, Istrate M., Gavrilăș N., Indicator local pentru scurtcircuit. Brevet RO 106621 C1/1996.
6. Asaftei C., **Gușă M.**, Istrate M., Gavrilăș N, Ciutea I., Sistem de semnalizare locală și la distanță. Brevet RO 105862 C1/1992
7. Asaftei C., **Gușă M.**, Gabură A., Istrate M., Gavrilăș N., Receptor pilotat cu cuarț. Brevet RO 105747 C1/1992.
8. Asaftei C., **Gușă M.**, Gabură A., Istrate M., Gavrilăș N., Emițător pilotat cu cuarț. Brevet RO 105754 C1/1992.
9. Asaftei C., **Gușă M.**, Istrate M., Gavrilăș N., Instalație pentru emiterea semnalelor electrice pe linii de medie tensiune. Brevet RO 105638 B1/1992.
10. **Gușă M.**, Gavrilăș N., Asaftei C., Istrate M., Regulator automat pentru bobine de stingere. Brevet R O 104711/1991
11. Istrate M., **Gușă M.**, Asaftei C., Gavrilăș N. Dispozitiv trifazat de semnalizare locală și la distanță. Brevet RO 104650/1991.
12. Istrate M., **Gușă M.**, Asaftei C., Gavrilăș N., Releu de semnalizare locală și la distanță. Brevet RO 104649/1991.

13. Asaftei C., **Gușă M.**, Istrate M., Gavrilăș N., Receptor de semnale codificate. Brevet RO 104264/1991
14. **Gușă M.**, Asaftei C., Istrate M., Gavrilăș N., Instalație de semnalizare centralizată. Brevet RO 103783/1991
15. Asaftei C., **Gușă M.**, Istrate M., Gavrilăș N., Receptor pentru semnalizarea centralizată a zonelor cu defect de izolație pe linii electrice de medie tensiune. Brevet RO 103548/1991.
16. Istrate M., **Gușă M.**, Asaftei C., Gavrilăș N., Metodă și dispozitiv emițător pentru stabilirea zonelor cu defect de izolație. Brevet RO 103448/1991
17. Asaftei C., **Gușă M.**, Gavrilăș N., Istrate M., Dispozitiv de semnalizare a depășirii curentului maxim într-un conductor. Brevet RO 103490/1990
18. Asaftei C., **Gușă M.**, Gavrilăș N., Suflețel N., Dispozitiv pentru semnalizarea scurtcircuitelor în rețelele aeriene de medie tensiune. Brevet RO 99564/1989.
19. Asaftei C., **Gușă M.**, Gavrilăș N., Suflețel N., Dispozitiv pentru semnalizarea scurtcircuitelor în rețele aeriene. Brevet RO 99563/1989.
20. Asaftei C., **Gușă M.**, Gavrilăș N., Suflețel N., Dispozitiv pentru semnalizarea scurtcircuitelor în rețele aeriene. Brevet RO 99562/1989.
21. **Gușă M.**, Baraboi A., Gavrilăș N., Asaftei C., Suflețel N., Dispozitiv pentru semnalizarea scurtcircuitelor în rețelele electrice aeriene de medie tensiune. Brevet RO 99561/1989.

Data:

Semnătura:

Universitatea Tehnică „Gheorghe Asachi” din Iași
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Prof. dr. ing. Adam Maricel

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

"Contribuții la supravegherea, controlul, încercarea și diagnosticarea echipamentelor electrice", 1996, sub coordonarea d-lui prof.dr.ing. Petru Leonte, domeniul: Mașini, Aparate și Acționări electrice, Universitatea Tehnică Iași

B. Cărți și capitole în cărți publicate în ultimii 5 ani

C. Lucrări indexate ISI/BDI publicate în ultimii 5 ani

1. M. Andrusca, M. Adam, A. Dragomir, E. Lunca, R. Seeram, O. Postolache, Condition Monitoring System and Faults Detection for Impedance Bonds from Railway Infrastructure, Journal Applied Sciences (ISSN 2076-3417; CODEN: ASPCC7), 4 September 2020, WOS.
2. Andrusca M, Adam M., Dragomir A., Lunca E, Innovative Integrated Solution for Monitoring and Protection of Power Supply System from Railway Infrastructuresm Sensors MDPI, 2021, FI-3.57, Q1. 3.
3. Dragomir A., Adam M., Andrusca M, Grigoraș G., Dragomir M., Ramakrishna S., Modeling, Simulation and Monitoring of Electrical Contacts Temperature in Railway Electric Traction, Mathematics MDPI, 2021, FI-2.25, Q1.
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Semnătura:

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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

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L I S T A

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A. Teza de doctorat

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E. Brevete obținute în întreaga activitate

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Data:

Semnătura: