

**Articole publicate în reviste științifice indexate Web of Science (Journal Citation Reports Q1, Q2, Q3, Q4)**

**2024**

|   |                                                                                                                                                                            |                                                                                                                                                                                                                                             |                                                                                                                                           |  |   |  |  |            |                                                                                              |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|---|--|--|------------|----------------------------------------------------------------------------------------------|
| 1 | <i>Determining the Remaining Functional Life of Power Transformers Using Multiple Methods of Diagnosing the Operating Condition Based on SVM Classification Algorithms</i> | MDPI - <b>Machines</b> - Special Issue “ <i>Electrical Machines and Drives: Modeling, Simulation and Testing</i> ”, ISSN 2075-1702, vol.12, no. 1: 37, January 2024, pp.1-34<br>DOI:10.3390/machines12010037;<br><b>WOS:001151302600001</b> | Ancuța-Mihaela Aciu, Maria-Cristina Nițu, Claudiu-Ionel Nicola and Marcel Nicola                                                          |  | X |  |  | FI:<br>2,1 | JCR - Q2<br>(Engineering,<br>Mechanical)/<br>CiteScore - Q1<br>(Control and<br>Optimization) |
| 2 | <i>A Reviewed Turn at of Methods for Determining the Type of Fault in Power Transformers Based on Dissolved Gas Analysis</i>                                               | MDPI - <b>Energies</b> - Section F: Electrical Engineering, ISSN 1996-1073, vol.17, no. 10: 2331, May 2024, pp.1-26. DOI:10.3390/en17102331;<br><b>WOS:001232873400001</b>                                                                  | Ancuța-Mihaela Aciu, Sorin Enache and Maria-Cristina Nițu                                                                                 |  | X |  |  | FI:<br>3,0 | Journal Rank:<br>CiteScore - Q1<br>(Control and<br>Optimization)                             |
| 3 | <i>Experimental Study of the Behaviour of Ring Main Unit-Type Panels in the Event of Internal Arcing in Different Compartments</i>                                         | MDPI - <b>Energies</b> - Special Issue “ <i>Power Transmission and Distribution Equipment and Systems</i> ”, ISSN 1996-1073, vol.17, no.11:2500, May 2024, pp.1-20. DOI:10.3390/en17112500;<br><b>WOS:001245595400001</b>                   | Sălceanu, Cristian-Eugeniu, Sorin Enache, Cătălin Dobrea, Daniela Iovan, Daniel Ocoleanu, Marcel Nicola, Ștefan Șeitan, and Mihai Ionescu |  | X |  |  | FI:<br>3,0 | Journal Rank:<br>CiteScore - Q1<br>(Control and<br>Optimization)                             |
| 4 | <i>Real-Time Monitoring of Cable Sag and Overhead Power Line Parameters Based on a Distributed Sensor Network and Implementation in a Web Server and IoT</i>               | MDPI - <b>Sensors</b> - Special Issue “ <i>Sensors Technology and Data Analytics Applied in Smart Grid</i> ”, ISSN 1424-8220, vol. 24, issue 13, 4283, July 2024, pp. 1-29, DOI:10.3390/s24134283;<br><b>WOS:001269589000001</b>            | Claudiu-Ionel Nicola, Marcel Nicola, Dumitru Sacerdoțianu, Ion Pătru                                                                      |  | X |  |  | FI:<br>3,4 | JCR - Q2<br>(Chemistry,<br>Analytical)<br>/CiteScore - Q1<br>(Instrumentation)               |
| 5 | <i>Sustainable Maintenance of Conductors in Transmission/ Distribution Networks Using Complex Magnetic Field Analysis</i>                                                  | MDPI - <b>Sustainability</b> - Special Issue “ <i>The Electric Power Technologies: Today and Tomorrow</i> ”, ISSN: 2071-1050, vol. 16, no. 15:6659, August 2024, pp.1-15,                                                                   | Livia-Andreea Dina, Viorica Voicu, Ionel Dumbravă, Mihai Paul Mircea și Ileana-Diana                                                      |  | X |  |  | FI:<br>3,3 | JCR - Q2<br>(Environmental<br>Studies)<br>/CiteScore - Q1<br>(Geography,                     |

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|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--|---|--|--|---------|---------------------------------------------------------------------------------|
|   |                                                                                                                                                                                                                        | DOI:10.3390/su16156659<br><b>WOS:001286957100001</b>                                                                                                                                                                                      | Nicolae                                                                                 |  |   |  |  |         | Planning and Development)                                                       |
| 6 | <i>Improved Performance of the Permanent Magnet Synchronous Motor Sensorless Control System Based on Direct Torque Control Strategy and Sliding Mode Control Using Fractional Order and Fractal Dimension Calculus</i> | MDPI - <b>Applied Sciences</b> - Special Issue “ <i>Control Systems for Next Generation Electric Applications</i> ”, ISSN 2076-3417, vol. 14, no. 19: 8816, September 2024, pp. 1-33, DOI:10.3390/app14198816; <b>WOS:001332180900001</b> | Marcel Nicola, Claudiu-Ionel Nicola, Dan Selişteanu, Cosmin Ionete, and Dorin Şendrescu |  | X |  |  | FI: 2,5 | JCR - Q1 (Engineering, Multidisciplinary) /CiteScore - Q1 (General Engineering) |

## 2023

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|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|---|--|--|----------|-------------------------------------------------------------------------------------|
| 1 | <i>Comparative Performance of UPQC Control System Based on PI-GWO, Fractional Order Controllers, and Reinforcement Learning Agent</i>                  | MDPI - <b>Electronics</b> - Special Issue “ <i>Fractional-Order Circuits &amp; Systems Design and Applications</i> ”, ISSN 2079-9292, vol. 12, issue 3, 494, January 2023, pp. 1-22, DOI:10.3390/electronics12030494; <b>WOS:000933780000001</b>         | Marcel NICOLA, Claudiu-Ionel NICOLA, Dumitru SACERDOŢIANU, Adrian VINTILĂ         |  | X |  |  | FI: 2,69 | JCR - Q2 (Physics, Applied) /CiteScore - Q1 (Electrical and Electronic Engineering) |
| 2 | <i>Improved Performance for PMSM Sensorless Control Based on Robust-type Controller, ESO-type Observer, Multiple Neural Networks, and RL-TD3 Agent</i> | MDPI - <b>Sensors</b> - Special Issue “ <i>ICSTCC 2022: Advances in Monitoring and Control</i> ”, ISSN 2227-7390, vol. 23, issue 13, 5799, June 2023, pp. 1-29, DOI:10.3390/s23135799; <b>WOS:001033128000001</b>                                        | Marcel NICOLA, Claudiu-Ionel NICOLA, Cosmin IONETE, Dorin ŞENDRESCU, Monica ROMAN |  | X |  |  | FI: 3,4  | JCR - Q2 (Chemistry, Analytical) /CiteScore - Q1 (Instrumentation)                  |
| 3 | <i>Improved Performance for PMSM Sensorless Control Based on the LADRC Controller, ESO-Type Observer, DO-Type Observer, and RL-TD3 Agent</i>           | MDPI - <b>Mathematics</b> - Special Issue “ <i>Modeling, Simulation, Control and Optimization in Engineering with Applications</i> ”, ISSN 1424-8220, vol. 11, issue 15, 3324, July 2023, pp. 1-25, DOI:10.3390/math11153324; <b>WOS:001046272000001</b> | Claudiu-Ionel NICOLA, Marcel NICOLA                                               |  | X |  |  | FI: 2,3  | JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics )                      |
| 4 | <i>Experimental Study of the Dynamic Short-Circuit Withstand Capability of an</i>                                                                      | MDPI - <b>Machines</b> - Special Issue “ <i>Electrical Machines and Drives: Modeling, Simulation and</i>                                                                                                                                                 | Şălceanu Cristian-Eugeniu; Dobrea Cătălin; Ocoleanu                               |  | X |  |  | FI: 2,1  | JCR - Q2 (Engineering, Mechanical)/                                                 |

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|---|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---|---|--|--|---------|-------------------------------------------|
|   | <i>8400 kVA Power Transformer Specially Designed for Photovoltaic Applications</i>                                        | <i>Testing</i> ", ISSN: 2075-1702, 2023, 11(10), 969;<br>DOI:10.3390/machines11100969;<br><b>WOS:001095178900001</b>                                                                                                                              | Daniel; Nicola Marcel; Iovan Daniela; Nițu Maria-Cristina                              |   |   |  |  |         | CiteScore - Q1 (Control and Optimization) |
| 5 | <i>Inductive Coupler for Battery Charging System of Heavy Electric Vehicles</i>                                           | <b>Revue Roumaine Des Sciences Techniques</b> -Série Électrotechnique et électroénergétique Vol.68, 1, pp. 71-76, Bucarest, 2023, Vol. 68 No. 1 (2023): RRST-EE, ISSN:0035-4066;<br>DOI:10.59277/RRST-EE.2023.68.1;<br><b>WOS:000973414700014</b> | Tiberiu Tudorache, Andrei Marinescu, Adrian Vintila                                    | X |   |  |  | FI: 1,0 | JIF Q4/ AIS Q4                            |
| 6 | <i>Analysis and Experiments Concerning Surges Transferred Between Power Transformer Windings Due to Lightning Impulse</i> | <b>IEEE Transactions on Electromagnetic Compatibility</b> , vol. 65, no. 5, pp. 1476-1483, Oct. 2023, ISSN: 0018-9375;<br>DOI:10.1109/TEMC.2023.3299630;<br><b>WOS:001060712000001</b>                                                            | Petre-Marian Nicolae; Ileana-Diana Nicolae; Maria-Cristina Nițu; Marian-Stefan Nicolae |   | X |  |  | FI: 2,0 | Best Rank: Q3 (TELECOMMUNICATIONS)        |

## 2022

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|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--|---|--|--|---------|---------------------------------------------------------|
| 1 | <i>Improvement of the Control of Grid Connected Photovoltaic System Based on Synergetic and Sliding Mode Controllers Using Reinforcement Learning Deep Deterministic Policy Gradient Agent</i> | MDPI - <b>Energies</b> - Special Issue "New Frontiers in Electrical Power Systems Quality", ISSN 1996-1073, vol. 15, issue 7, 2392, March 2022, pp. 1-32, DOI: 10.3390/en15072392;<br><b>WOS:000782040100001</b> | Marcel NICOLA, Claudiu-Ionel NICOLA, Dan SELIȘTEANU |  | X |  |  | FI: 3,0 | Journal Rank: CiteScore - Q1 (Control and Optimization) |
| 2 | <i>Improvement of PMSM Sensorless Control Based on Synergetic and Sliding Mode Controllers Using Reinforcement Learning Deep Deterministic Policy Gradient Agent</i>                           | MDPI - <b>Energies</b> - Special Issue "Recent Advances in Smart Power Electronics", ISSN 1996-1073, vol. 15, issue 6, 2208, March 2022, pp. 1-32, DOI: 10.3390/en15062208;<br><b>WOS:000775586800001</b>        | Marcel NICOLA, Claudiu-Ionel NICOLA, Dan SELIȘTEANU |  | X |  |  | FI: 3,0 | Journal Rank: CiteScore - Q1 (Control and Optimization) |
| 3 | <i>Experimental study on the behavior of aluminum fuse element inside 24 kV, 50 kA</i>                                                                                                         | MDPI - <b>Energies</b> - Special Issue "Linear and Nonlinear Electric Circuits: Theoretical Analysis and                                                                                                         | Cristian-Eugeniu SĂLCEANU, Marcel NICOLA, Claudiu-  |  | X |  |  | FI: 3,0 | Journal Rank: CiteScore - Q1 (Control and               |

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|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--|---|--|--|---------|-----------------------------------------------------------------------------------|
|   | <i>high-voltage fuses</i>                                                                                                                                          | <i>Applications</i> ", ISSN 1996-1073, vol. 15, issue 19, 7171, September 2022, pp. 1-30, DOI: 10.3390/en15197171; <b>WOS:000867965800001</b>                                                                                                | Ionel NICOLA, Daniel OCOLEANU, Cătălin DOBREA, Daniela IOVAN, Sorin ENACHE                    |  |   |  |  |         | Optimization)                                                                     |
| 4 | <i>Comparative Performance Analysis of the DC-AC Converter Control System Based on Linear Robust or Nonlinear PCH Controllers and Reinforcement Learning Agent</i> | MDPI - <b>Sensors</b> - Special Issue "Intelligent Control and Testing Systems and Applications", ISSN 1424-8220, vol. 22, issue 23, 9535, December 2022, pp. 1-32, DOI: 10.3390/s22239535;                                                  | Marcel NICOLA, Claudiu-Ionel NICOLA                                                           |  | X |  |  | FI: 3,4 | JCR - Q2 (Chemistry, Analytical) /CiteScore - Q1 (Instrumentation)                |
| 5 | <i>Improved Performance in the Control of DC-DC Three-Phase Power Electronic Converter Using Fractional Order SMC and Synergetic Controllers and RL-TD3 Agent</i>  | MDPI - <b>Fractal and Fractional</b> - Special Issue "Advances in Fractional Order Systems and Robust Control", ISSN 2504-3110, vol. 6, issue 12, 729, December 2022, pp. 1-26, DOI: 10.3390/fractalfract6120729; <b>WOS:000902748000001</b> | Marcel NICOLA, Claudiu-Ionel NICOLA                                                           |  | X |  |  | FI: 3,6 | JCR - Q1 (Mathematics, Interdisciplinary Applications) /CiteScore - Q1 (Analysis) |
| 6 | <i>Improvement of Linear and Nonlinear Control for PMSM Using Computational Intelligence and Reinforcement Learning</i>                                            | MDPI - <b>Mathematics</b> - Special Issue "Modeling and Simulation of Control System", ISSN 1424-8220, vol. 10, issue 24, 4667, December 2022, pp. 1-34, DOI:10.3390/math10244667; <b>WOS:000904485300001</b>                                | Marcel NICOLA, Claudiu-Ionel NICOLA                                                           |  | X |  |  | FI: 2,3 | JCR - Q1 (Mathematics) /CiteScore - Q1 (General Mathematics)                      |
| 7 | <i>Comparison of "Zero Emission" Vehicles with Petrol and Hybrid Cars in Terms of Total CO2 Release—A Case Study for Romania, Poland, Norway and Germany</i>       | MDPI - <b>Energies</b> - "Simulation-and Data Driven Techniques for the Optimization of Li-Ion Batteries", ISSN 1996-1073, vol.15, issue 21, 7988, November (I) 2022, DOI:10.3390/en15217988; <b>WOS:000882199500001</b>                     | Lieutenant, Klaus, Ana Vassileva Borissova, Mohamad Mustafa, Nick McCarthy, and Ioan Iordache |  | X |  |  | FI: 3,0 | Journal Rank: CiteScore - Q1 (Control and Optimization)                           |
| 8 | <i>Control of PMSM Based on Switched Systems and Field Oriented Control Strategy</i>                                                                               | MDPI - <b>Automation</b> - Special Issue "Dynamics and Intelligent Control of Complex and Switched Systems", ISSN 2673-4052, vol. 3, issue 4, December 2022, pp. 646-673,                                                                    | Marcel NICOLA, Claudiu-Ionel NICOLA, Dan SELIȘTEANU, Cosmin IONETE                            |  | X |  |  | FI: 2,0 | JCR - Q3 (Automation and Control Systems)/ CiteScore - Q2                         |

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|   |                                                                                             | DOI:10.3390/automation3040033;<br>WOS:001204329300001                                                                                                                                   |           |  |   |  |  |            | (Control and Systems Engineering)                                                                    |
| 9 | <i>The Stability of the Systems with Command Saturation, Command Delay, and State Delay</i> | MDPI - <b>Automation</b> . 2022; 3(1):47-83. ISSN: 2673-4052<br><a href="https://doi.org/10.3390/automation3010003">https://doi.org/10.3390/automation3010003</a> ; WOS:001204292200001 | Nicola M. |  | X |  |  | FI:<br>2,0 | JCR - Q3<br>(Automation and Control Systems)/<br>CiteScore - Q2<br>(Control and Systems Engineering) |

## 2021

|   |                                                                                                                            |                                                                                                                                                                                                                                                            |                                                                               |  |   |  |  |             |                                                                                           |
|---|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--|---|--|--|-------------|-------------------------------------------------------------------------------------------|
| 2 | <i>Complementary Analysis for DGA Based on Duval Methods and Furan Compounds Using Artificial Neural Networks</i>          | MDPI - <b>Energies</b> - Special Issue “Dissolved Gas Analysis (DGA) and Its Applications in Condition Monitoring of Power Equipments”, ISSN 1996-1073, vol. 14, issue 3, 588, 2021, pp. 1-22, DOI:10.3390/en14030588; WOS:000615050900001                 | Ancuța-Mihaela ACIU, Claudiu-Ionel NICOLA, Marcel NICOLA, Maria Cristina NIȚU |  | X |  |  | FI:<br>3,0  | Journal Rank:<br>CiteScore - Q1<br>(Control and Optimization)                             |
| 3 | <i>Fractional-Order Control of Grid-Connected Photovoltaic System Based on Synergetic and Sliding Mode Controllers</i>     | MDPI - <b>Energies</b> - Special Issue “Power Converter of Electric Machines, Renewable Energy Systems, and Transportation”, ISSN 1996-1073, vol. 14, issue 2, 510, 2021, pp. 1-25, DOI:10.3390/en14020510; WOS:000611206600001                            | Marcel NICOLA, Claudiu-Ionel NICOLA                                           |  | X |  |  | FI:<br>3,0  | Journal Rank:<br>CiteScore - Q1<br>(Control and Optimization)                             |
| 4 | <i>Sensorless Control of PMSM Based on Backstepping-PSO-type Controller and ESO-type Observer Using Real-Time Hardware</i> | MDPI - <b>Electronics</b> - Special Issue “Hardware in the Loop, Real-Time Simulation and Digital Control of Power Electronics and Drives”, ISSN 2079-9292, vol. 10, issue 17, 2080, 2021, pp. 1-36, DOI: 10.3390/electronics10172080; WOS:000694183000001 | Claudiu-Ionel NICOLA, Marcel NICOLA, Dan SELIȘTEANU                           |  | X |  |  | FI:<br>2,69 | JCR - Q2<br>(Physics, Applied) /CiteScore - Q1<br>(Electrical and Electronic Engineering) |

2020

| Nr. crt. | Denumire lucrare                                                                                    | Revistă/Jurnal                                                                                                                                                                                                                | Autorii                                | RO | UE | SUA | Japonia | Factor impact | Observații                                                                                   |
|----------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----|----|-----|---------|---------------|----------------------------------------------------------------------------------------------|
| 1        | <i>Sensorless Fractional Order Control of PMSM Based on Synergetic and Sliding Mode Controllers</i> | MDPI - <b>Electronics</b> - Special Issue “ <i>Advanced Control Systems for Electric Drives</i> ”, Vol. 9, Issue 9, December 2020, ISSN 2079-9292; 1494 pp. 1-44, DOI:10.3390/electronics9091494; <b>WOS: 000580287200001</b> | Marcel NICOLA,<br>Claudiu-Ionel NICOLA |    | X  |     |         | FI:<br>2,69   | JCR - Q2<br>(Physics, Applied)<br>/CiteScore - Q1<br>(Electrical and Electronic Engineering) |

**Lucrări prezentate la manifestări științifice internaționale, publicate în volum indexat  
Web of Science - Conference Proceedings Citation Index (CPCI-S), clasificate IEEE proceedings**

**2024**

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|---|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---|---|--|--|------|--|
| 1 | <i>PMSM Sensorless Control System Based on DTC Using FLC and Luenberger-PLL Observer</i>                                     | Proceedings of the <i>6th Global Power, Energy and Communication Conference</i> (GPECOM 2024), Budapest, Hungary, 4-7 June 2024, pp. 138-143, DOI:10.1109/GPECOM61896.2024.10582597<br><b>WOS:001268516300032</b>                     | Claudiu-Ionel NICOLA, Marcel NICOLA, Andreea IACOB, Cristian PÎRVU    |   | X |  |  | 0,25 |  |
| 2 | <i>IPMSM Control System Based on Maximum Torque Per Ampere Strategy</i>                                                      | Proceedings of the <i>6th Global Power, Energy and Communication Conference</i> (GPECOM 2024), Budapest, Hungary, 4-7 June 2024, pp. 138-143, DOI:10.1109/GPECOM61896.2024.10582597<br><b>WOS:001268516300083</b>                     | Marcel NICOLA, Claudiu-Ionel NICOLA, Răzvan PREJBEANU, Marian POPESCU |   | X |  |  | 0,25 |  |
| 3 | <i>PMSM Sensorless Control System Based on Super Twisting-Terminal SMC and SMO-PLL Observer,</i>                             | Proceedings of the <i>28th International Conference on System Theory, Control and Computing</i> (ICSTCC 2024), Sinaia, Romania, 10-12 October 2024, pp. 483-490, DOI:10.1109/ICSTCC62912.2024.10744709;<br><b>WOS:001440908400079</b> | Marcel NICOLA, Claudiu-Ionel NICOLA, Dan SELIȘTEANU, Dorin ȘENDRESCU  | X |   |  |  | 0.25 |  |
| 4 | <i>PMSM Sensorless Control System Based on Field Weakening Strategy, MRAS Observer, and Butterfly Optimization Algorithm</i> | Proceedings of the <i>28th International Conference on System Theory, Control and Computing</i> (ICSTCC 2024), Sinaia, Romania, 10-12 October 2024, pp. 491-496, DOI:10.1109/ICSTCC62912.2024.10744704<br><b>WOS:001440908400080</b>  | Claudiu-Ionel NICOLA, Marcel NICOLA, Cosmin IONETE, Monica ROMAN      | X |   |  |  | 0.25 |  |

**2023**

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|---|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|--|--|--|------|--------|
| 1 | <i>Improvement Performances of Sensorless Control for PMSM Based on DTC Strategy Using SMO Observer and RL-TD3 Agent</i>             | Proceedings of the 5th of Global Power, Energy and Communication Conference (GPECOM 2023), Nevsehir, Turkey, 14-16 June 2023, pp. 131-136, DOI:10.1109/GPECOM58364.2023.10175738; <b>WOS:001043011400023</b> | Marcel NICOLA, Claudiu-Ionel NICOLA  |  |  |  |  | 0,25 | Turcia |
| 2 | <i>Improved Control of DC-DC Converter for Fuel Cell and Battery Hybrid System Based on Ant Colony Optimization and RL-TD3 Agent</i> | Proceedings of the 5th of Global Power, Energy and Communication Conference (GPECOM 2023), Nevsehir, Turkey, 14-16 June 2023, pp. 250-255, DOI:10.1109/GPECOM58364.2023.10175756; <b>WOS:001043011400043</b> | Claudian-Ionel NICOLA, Marcel NICOLA |  |  |  |  | 0,25 | Turcia |

## 2022

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|---|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---|--|--|--|------|--------|
| 1 | <i>Improved Performance for the DC-AC Converters Control System Based on PCH Controller and Reinforcement Learning Agent</i> | Proceedings of the 2022 4th Global Power, Energy and Communication Conference (GPECOM), Nevsehir, Turkey, 14-17 June 2022, pp. 26-31, DOI: 10.1109/GPECOM55404.2022.9815661; <b>WOS:000854056400005</b>                    | Marcel NICOLA, Claudiu-Ionel NICOLA                                               |   |  |  |  | 0,25 | Turcia |
| 2 | <i>Real Time Implementation of the PMSM Sensorless Control Based on FOC Strategy</i>                                         | Proceedings of the 4th of Global Power, Energy and Communication Conference (GPECOM 2022), Nevsehir, Turkey, 14-17 June 2022, pp. 179-183, DOI:10.1109/GPECOM55404.2022.9815684 <b>WOS:000854056400031</b>                 | Claudian-Ionel NICOLA, Marcel NICOLA                                              |   |  |  |  | 0,25 | Turcia |
| 3 | <i>Improved Performance for PMSM Control Based on Robust Controller and Reinforcement Learning</i>                           | Proceedings of the 26th International Conference on System Theory, Control and Computing (ICSTCC 2022), Sinaia, Romania, 19-21 October 2022, pp. 207-212, DOI:10.1109/ICSTCC55426.2022.9931844; <b>WOS:000889980600036</b> | Marcel NICOLA, Claudiu-Ionel NICOLA, Cosmin IONETE, Dorin ŞENDRESCU, Monica ROMAN | X |  |  |  | 0,25 |        |

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|---|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---|--|--|--|------|--------|
| 1 | <i>Sensorless Control of PMSM using SMC and Sensor Fault Detection Observer</i>                                                         | Proceedings of the 18 <sup>th</sup> International Multi-Conference on Systems, Signals & Devices (SSD'21), Monastir, Tunisia, 22-25 March, 2021, pp. 518-525;<br>DOI:10.1109/SSD52085.2021.9429476;<br><b>WOS:000948032700145</b> | Marcel NICOLA,<br>Claudiu-Ionel NICOLA                                                                                                   |   |  |  |  | 0,25 | Africa |
| 2 | <i>Sensorless Control of PMSM using Fractional Order SMC and Extended Kalman Observer</i>                                               | Proceedings of the 18 <sup>th</sup> International Multi-Conference on Systems, Signals & Devices (SSD'21), Monastir, Tunisia, 22-25 March, 2021, pp. 526-532;<br>DOI:10.1109/SSD52085.2021.9429370;<br><b>WOS:000948032700146</b> | Marcel NICOLA,<br>Claudiu-Ionel NICOLA                                                                                                   |   |  |  |  | 0,25 | Africa |
| 3 | <i>Estimating the Shielding Efficiency of an Anechoic Chamber</i>                                                                       | Proceedings of the 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), București, România, 25-27 March 2021, pp. 1-4,<br>DOI:10.1109/ATEE52255.2021.9425284;<br><b>WOS:000676164800129</b>          | Livia-Andreea DINA; Viorica VOICU; Petre-Marian NICOLAE; Paul-Adrian NICOLEANU                                                           | X |  |  |  | 0,25 |        |
| 4 | <i>Overvoltage Produced by Lightning Impulse in High Power Transformers - Parameters that Influence their Transmission</i>              | Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 27-29 May, 2021, pp. 1-6; DOI:<br>10.1109/ICATE49685.2021.9464973<br><b>WOS:000709089900010</b>                     | Maria-Cristina NIȚU,<br>Marcel NICOLA,<br>Claudiu-Ionel NICOLA,<br>Ancuța-Mihaela ACIU,<br>Daniel OCOLEANU,<br>Cristian Eugeniu SĂLCEANU | X |  |  |  | 0,25 |        |
| 5 | <i>Improved Control Strategy of Unified Power Quality Conditioner Using Fractional Order Controller and Particle Swarm Optimization</i> | Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 27-29 May, 2021, pp. 1-6; DOI:<br>10.1109/ICATE49685.2021.9465058<br><b>WOS:000709089900063</b>                     | Marcel NICOLA,<br>Dumitru SACERDOȚIANU,<br>Claudiu-Ionel NICOLA,<br>Sergiu IVANOV,<br>Marian CIONTU,<br>Maria-Cristina NIȚU              | X |  |  |  | 0,25 |        |
| 6 | <i>Improved Performance of a Converter Operating as a Power Interface in Hybrid Microgrids Using Fractional Order PI Controller</i>     | Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 27-29 May, 2021, pp. 1-6; DOI:<br>10.1109/ICATE49685.2021.9465067;                                                  | Marcel NICOLA,<br>Claudiu-Ionel NICOLA                                                                                                   | X |  |  |  | 0,25 |        |

|    |                                                                                                                                           |                                                                                                                                                                                                              |                                                                                                         |   |  |  |  |      |  |
|----|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---|--|--|--|------|--|
|    |                                                                                                                                           | <b>WOS:000709089900072</b>                                                                                                                                                                                   |                                                                                                         |   |  |  |  |      |  |
| 7  | <i>Real-Time Sensorless Control of PMSM and SCADA Integration</i>                                                                         | Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 27-29 May, 2021, pp. 1-6, DOI: 10.1109/ICATE49685.2021.9464993;<br><b>WOS:000709089900021</b>  | Claudiu-Ionel NICOLA, Marcel NICOLA, Maria-Cristina NIȚU                                                | X |  |  |  | 0,25 |  |
| 8  | <i>Experimental Study of HBC Fuses with Aluminium Fuse Element at Minimum Rated Breaking Current</i>                                      | Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 27-29 May, 2021, pp. 1-6, DOI: 10.1109/ICATE49685.2021.9465000<br><b>WOS:000709089900026</b>   | Cristian-Eugeniu SĂLCEANU; Marcel NICOLA; Daniel OCOLEANU; Daniela IOVAN; Sorin ENACHE                  | X |  |  |  | 0,25 |  |
| 9  | <i>Measurements of Shielding Effectiveness at a Faraday Flexible Enclosure</i>                                                            | Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 27-29 May, 2021, pp. 1-5, DOI: 10.1109/ICATE49685.2021.9465011<br><b>WOS:000709089900034</b>   | Viorica VOICU, Livia-Andreea Dina, Petre-Marian NICOLAE, Mihai Madalin NEGOIESCU, Paul-Adrian NICOLEANU | X |  |  |  | 0,25 |  |
| 10 | <i>Experimental Determinations of the Influence of Environmental Factors on the Electrical Properties of Some Composite Materials</i>     | Proceedings of the International Conference on Applied and Theoretical Electricity (ICATE), Craiova, Romania, 27-29 May, 2021, pp. 1-5, DOI: 10.1109/ICATE49685.2021.9464939<br><b>WOS:000709089900005</b>   | Mircea-Emilian ARDELEANU; Aurelia SCORNEA; Dan-Gabriel STĂNESCU; Ioana-Gabriela SÎRBU                   | X |  |  |  | 0,25 |  |
| 11 | <i>Improved Performance of Grid-Connected Photovoltaic System Based on Fractional-Order PI Controller and Particle Swarm Optimization</i> | Proceedings of the 9 <sup>th</sup> International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 16-17 June, 2021, pp. 1-5, DOI:10.1109/MPS52805.2021.9492707;<br><b>WOS:000941563300103</b> | Marcel NICOLA, Claudiu-Ionel NICOLA                                                                     | X |  |  |  | 0,25 |  |
| 12 | <i>Improved Performance of Sensorless Control for PMSM Based on Neuro-fuzzy Speed Controller</i>                                          | Proceedings of the 9 <sup>th</sup> International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 16-17 June, 2021, pp. 1-6, DOI:10.1109/MPS52805.2021.9492586;<br><b>WOS:000941563300030</b> | Marcel NICOLA, Claudiu-Ionel NICOLA                                                                     | X |  |  |  | 0,25 |  |
| 13 | <i>A Comparative Assessment of Magnetic Concrete versus</i>                                                                               | Proceedings of the 9 <sup>th</sup> International Conference on Modern Power Systems                                                                                                                          | Andrei MARINESCU; Tiberiu TUDORAHE;                                                                     | X |  |  |  | 0,25 |  |

|    |                                                                                                                            |                                                                                                                                                                                                                 |                                                                                                                     |   |  |  |  |      |           |
|----|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---|--|--|--|------|-----------|
|    | <i>Ferrite for a High Power Inductive Coupler</i>                                                                          | (MPS), Cluj-Napoca, Romania, 16-17 June, 2021, pp. 1-8,<br>DOI:10.1109/MPS52805.2021.9492573;<br><b>WOS:000941563300024</b>                                                                                     | Adrian VINTILĂ; Ionel DUMBRAVĂ                                                                                      |   |  |  |  |      |           |
| 14 | <i>Contributions to Monitoring the Condition and the Protection of Insulated Bushings, Pertaining to Transformer Units</i> | Proceedings of the 9 <sup>th</sup> International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 16-17 June, 2021, pp. 1-6,<br>DOI:10.1109/MPS52805.2021.9492693;<br><b>WOS:000941563300091</b> | Dumitru SACERDOTIANU,<br>Marcel NICOLA,<br>Florica LĂZĂRESCU,<br>Iulian HUREZEANU,<br>Despina ROMAN,<br>Anca ALBIȚA | X |  |  |  | 0,25 |           |
| 15 | <i>Evaluation of Overvoltages Transmitted in High Power Transformer Windings at Lightning During the Design Stage</i>      | 2021 Asia-Pacific International Symposium on Electromagnetic Compatibility (APEMC), 27-30 Sept. 2021, pp.1-3, Nusa Dua - Bali, Indonesia<br>DOI:10.1109/APEMC49932.2021.9597046;<br><b>WOS:000900755500062</b>  | Maria - Cristina Nitu; Petre-Marian Nicolae; Marian-Stefan Nicolae                                                  |   |  |  |  | 0,25 | Indonezia |
| 16 | <i>Real-Time Implementation of the PMSM Multi-Motors Sensorless Control System</i>                                         | Proceedings of the 3rd of Global Power, Energy and Communication Conference (GPECOM), Antalya, Turkey, 5-8 October, 2021, pp. 1-6,<br>DOI:10.1109/GPECOM52585.2021.9587821<br><b>WOS:000852805300015</b>        | Marcel NICOLA,<br>Claudiu-Ionel NICOLA                                                                              |   |  |  |  | 0,25 | Turcia    |
| 17 | <i>Real-Time Remote Sensorless Control of PMSM Using Embedded System and Webserver</i>                                     | Proceedings of the 3rd of Global Power, Energy and Communication Conference (GPECOM), Antalya, Turkey, 5-8 October, 2021, pp. 1-6,<br>DOI:10.1109/GPECOM52585.2021.9587897<br><b>WOS:000852805300014</b>        | Marcel NICOLA,<br>Claudiu-Ionel NICOLA                                                                              |   |  |  |  | 0,25 | Turcia    |
| 18 | <i>Tuning of PI Speed Controller for PMSM Control System Using Computational Intelligence</i>                              | Proceedings of the 21 <sup>st</sup> International Symposium on POWER ELECTRONICS (Ee), Novi Sad, Serbia, 27-30 October, 2021, pp. 1-6, DOI: 10.1109/Ee53374.2021.9628297;<br><b>WOS:000846882700029</b>         | Marcel NICOLA,<br>Claudiu-Ionel NICOLA                                                                              |   |  |  |  | 0,25 | Serbia    |
| 19 | <i>Improvement of PMSM Control Using Reinforcement Learning Deep Deterministic Policy Gradient Agent</i>                   | Proceedings of the 21 <sup>st</sup> International Symposium on POWER ELECTRONICS (Ee), Novi Sad, Serbia, 27-30 October, 2021, pp. 1-6, DOI:10.1109/Ee53374.2021.9628371;<br><b>WOS:000846882700047</b>          | Marcel NICOLA,<br>Claudiu-Ionel NICOLA                                                                              |   |  |  |  | 0,25 | Serbia    |

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|----|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|--|--|--|------|---------------|
| 20 | <i>Improved Performance for PMSM Control System Based on Feedback Linearization and Computational Intelligence</i> | Proceedings of the International Conference on Electrical, Computer and Energy Technologies (ICECET), Cape Town, South Africa, 9-10 December, 2021, pp. 1-6, DOI:10.1109/ICECET52533.2021.9698687; <b>WOS:000814669100284</b> | Marcel NICOLA, Claudiu-Ionel NICOLA |  |  |  |  | 0,25 | Africa de Sud |
| 21 | <i>Improved Performance for PMSM Control System Based on LQR Controller and Computational Intelligence</i>         | Proceedings of the International Conference on Electrical, Computer and Energy Technologies (ICECET), Cape Town, South Africa, 9-10 December, 2021, pp. 1-6, DOI:10.1109/ICECET52533.2021.9698758; <b>WOS:000814669100283</b> | Marcel NICOLA, Claudiu-Ionel NICOLA |  |  |  |  | 0,25 | Africa de Sud |

## 2020

| Nr. crt. | Denumire lucrare                                                                                    | Proceedings                                                                                                                                                                                                        | Autorii                                                   | RO | UE | SUA | Japonia | Factor impact | Observații |
|----------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----|----|-----|---------|---------------|------------|
| 1        | <i>Sensorless Control of PMSM using FOC Strategy Based on Multiple ANN and Load Torque Observer</i> | Proceedings of the 15th International Conference on Development and Application Systems (DAS), Suceava, Romania, 21-23 May, 2020, pp. 32-37, DOI: 10.1109/DAS49615.2020.9108914; <b>WOS:000589776100006</b>        | Marcel NICOLA, Claudiu-Ionel NICOLA, Marian DUȚĂ          | X  |    |     |         | 0,25          |            |
| 2        | <i>Sensorless Control of PMSM using DTC Strategy Based on PI-ILC Law and MRAS Observer</i>          | Proceedings of the 15th International Conference on Development and Application Systems (DAS), Suceava, Romania, 21-23 May, 2020, pp. 38-43, DOI: 10.1109/DAS49615.2020.9108974; <b>WOS:000589776100007</b>        | Marcel NICOLA, Claudiu-Ionel NICOLA, Dumitru SACERDOȚIANU | X  |    |     |         | 0,25          |            |
| 3        | <i>Sensorless Control of PMSM using FOC Strategy based on LADRC Speed Controller</i>                | Proceedings of the 12 <sup>th</sup> Edition Electronics, Computers and Artificial Intelligence (ECAI 2020), Bucuresti, Romania, 25-27 June, 2020, DOI: 10.1109/ECAI50035.2020.9223129 ; <b>WOS:000627393500011</b> | Marcel NICOLA, Claudiu-Ionel NICOLA, Marian DUȚĂ          | X  |    |     |         | 0,25          |            |
| 4        | <i>Sensorless Control of PMSM</i>                                                                   | Proceedings of the 12 <sup>th</sup> Edition Electronics,                                                                                                                                                           | Marcel NICOLA,                                            | X  |    |     |         | 0,25          |            |

| Nr. crt. | Denumire lucrare                                                                                                            | Proceedings                                                                                                                                                                                                        | Autorii                                                                                  | RO | UE | SUA | Japonia | Factor impact | Observații |
|----------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----|----|-----|---------|---------------|------------|
|          | <i>using Backstepping Control and ESO-type Observer</i>                                                                     | Computers and Artificial Intelligence (ECAI 2020), Bucuresti, Romania, 25-27 June, 2020, DOI: 10.1109/ECAI50035.2020.9223221 ; <b>WOS:000627393500096</b>                                                          | Claudiu-Ionel NICOLA                                                                     |    |    |     |         |               |            |
| 5        | <i>Determination of the Overvoltages Transmitted between the Power Transformers Windings subjected to Lightning Impulse</i> | 2020 IEEE International Symposium on Electromagnetic Compatibility & Signal/Power Integrity (EMCSI), Reno, USA, online event: 3-28 august 2020; DOI:10.1109/EMCSI38923.2020.9191618; <b>WOS:000778941200060</b>    | Petre-Marian Nicolae, Cristina-Maria Nitu, Ileana - Diana Nicolae, Marian-Stefan Nicolae |    |    | X   |         | 0,25          |            |
| 6        | <i>Experimental Analysis of Composite Materials Behaviour at Fire</i>                                                       | Proceedings of the International Symposium on Fundamentals of Electrical Engineering (ISFEE 2020) - online event, November 5-7, Bucharest, Romania; DOI:10.1109/ISFEE51261.2020.9756147 <b>WOS:000812321500017</b> | Mircea-Emilian ARDELEANU, Aurelia SCORNEA, Dan-Gabriel STĂNESCU, Ioana-Gabriela SÎRBU    | X  |    |     |         | 0,25          |            |

**Lucrări prezentate la manifestări științifice internaționale, publicate în volum editat cu ISBN (non-WOS)**

**2024**

|   |                                                                                                         |                                                                                                                                                                                                                                                             |                                                                                    |   |   |  |  |  |                                |
|---|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---|---|--|--|--|--------------------------------|
| 1 | <i>Measurement of electromagnetic fields in the industrial environment</i>                              | Proceedings of the 9th International Conference on Mathematics and Computers in Sciences and Industry (MCSI), Rhodes Island, Greece, 2024, pp. 106-110, Publisher: IEEE; e-ISBN:979-8-3503-7722-4; ISBN:979-8-3503-7723-1; DOI:10.1109/MCSI63438.2024.00025 | Viorica Voicu, Ionel Dumbrava, Livia-Andreea Dina, Paul-Mihai Mircea               |   | X |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 2 | <i>The Dehumidification Process and its Influence on the Insulation System Quality Index</i>            | 4th IEEE International Conference on Applied Mathematics & Computer Science, ICAMCS 2024, September 28-30, 2024, Venice, Italy, pp. 238-242, Publisher: IEEE; ISBN-13: 979-8-3503-6380-7; DOI:10.1109/ICAMCS62774.2024.00038                                | Maria-Cristina NIȚU, Ancuța-Mihaela ACIU, Dan ȘTEFAN, Paul Mihai MIRCEA            |   | X |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 3 | <i>Regeneration of Waste Oils in Electrical Equipment in Accordance with EU Regulations</i>             | International Conference on Applied and Theoretical Electricity (ICATE 2024), October 24-26, 2024, Craiova, România, pp. 1-5; Publisher: IEEE; ISBN:979-8-3503-8810-7; Online ISSN:2688-0962; DOI:10.1109/ICATE62934.2024.10749305                          | Maria-Cristina NIȚU, Ancuța-Mihaela ACIU, Aurelia Iuliana SCORNEA                  | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 4 | <i>Transformer Fault Detection Using DGA Based on Three Ratio Technique and Random Forest Algorithm</i> | International Conference on Applied and Theoretical Electricity (ICATE 2024), October 24-26, 2024, Craiova, România, pp. 1-6; Publisher: IEEE; ISBN:979-8-3503-8810-7; Online ISSN:2688-0962; DOI:10.1109/ICATE62934.2024.10748635                          | Maria-Cristina NIȚU, Ancuța-Mihaela ACIU, Marcel NICOLA, Claudiu-Ionel NICOLA      | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 5 | <i>Evaluation of Corona in Partial Discharge and Radio Interference Measurement Circuits</i>            | International Conference on Applied and Theoretical Electricity (ICATE 2024), October 24-26, 2024, Craiova, România, pp. 1-5; Publisher: IEEE; ISBN:979-8-3503-8810-7; Online ISSN:2688-0962; DOI: 10.1109/ICATE62934.2024.10749383.                        | Elena-Denisa Burada, Mihaela Popescu, Tania Nicoară, Viorica Voicu, Ionel Dumbravă | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 6 | <i>Digital System for High</i>                                                                          | International Conference on Applied and                                                                                                                                                                                                                     | Gheorghe-Eugen                                                                     | X |   |  |  |  | IEEE                           |

|    |                                                                                                             |                                                                                                                                                                                                                                     |                                                                                                                                        |   |  |  |  |  |                                       |
|----|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---|--|--|--|--|---------------------------------------|
|    | <i>Power Synchronous Motor Excitation Control</i>                                                           | Theoretical Electricity (ICATE 2024), October 24-26, 2024, Craiova, România, pp. 1-6; Publisher: IEEE; ISBN:979-8-3503-8810-7;Online ISSN:2688-0962; DOI: 10.1109/ICATE62934.2024.10748893                                          | Subțirelu, Petre<br>Pistol, Adrian<br>Vintilă, Cosmin Ionuț<br>Toma                                                                    |   |  |  |  |  | Proceeding<br><br>IEEE Xplore         |
| 7  | <i>Some Considerations on the Dimensioning of Ancillary Service Transformers of Power Plants</i>            | International Conference on Applied and Theoretical Electricity (ICATE 2024), October 24-26, 2024, Craiova, România, pp. 1-6; Publisher: IEEE; ISBN:979-8-3503-8810-7;Online ISSN:2688-0962; DOI: 10.1109/ICATE62934.2024.10749111  | Silvia-Maria Digă,<br>Nicolae Digă, Paul-<br>Mihai Mircea, Ion<br>Pătru, Cristian<br>Bratu, Livia Andreea<br>Dina                      | X |  |  |  |  | IEEE<br>Proceeding<br><br>IEEE Xplore |
| 8  | <i>Analysis on the Behaviour of 36 kV, 10 kA Pre-failed Polymer Surge Arrester at Short-Circuit Current</i> | International Conference on Applied and Theoretical Electricity (ICATE 2024), October 24-26, 2024, Craiova, România, pp. 1-6; Publisher: IEEE; ISBN:979-8-3503-8810-7;Online ISSN:2688-0962; DOI: 10.1109/ICATE62934.2024.10749034. | Cristian-Eugeniu<br>Sălceanu, Daniela<br>Iovan, Mihai Ionescu,<br>Daniel-Constantin<br>Ocoleanu, Ștefan<br>Șeitan                      | X |  |  |  |  | IEEE<br>Proceeding<br><br>IEEE Xplore |
| 9  | <i>Experimental Study of the Behaviour of Distribution Transformers Under Short-Circuit Conditions</i>      | International Conference on Applied and Theoretical Electricity (ICATE 2024), October 24-26, 2024, Craiova, România, pp. 1-6; Publisher: IEEE; ISBN:979-8-3503-8810-7;Online ISSN:2688-0962; DOI: 10.1109/ICATE62934.2024.10749000  | Cristian-Eugeniu<br>Sălceanu, Daniel-<br>Constantin<br>Ocoleanu, Daniela<br>Iovan, Mihai Ionescu,<br>Ștefan Șeitan,<br>Cătălin Boltașu | X |  |  |  |  | IEEE<br>Proceeding<br><br>IEEE Xplore |
| 10 | <i>Electromagnetic Locking/Releasing System for UAVs Wireless Charging Stations</i>                         | International Conference on Applied and Theoretical Electricity (ICATE 2024), October 24-26, 2024, Craiova, România, pp. 1-5; Publisher: IEEE; ISBN:979-8-3503-8810-7;Online ISSN:2688-0962; DOI: 10.1109/ICATE62934.2024.10749408  | Tiberiu Tudorache,<br>Andrei Marinescu,<br>Adrian Vintilă                                                                              | X |  |  |  |  | IEEE<br>Proceeding<br><br>IEEE Xplore |

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|   |                                                  |                                                                       |                                              |   |  |  |  |  |                    |
|---|--------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|---|--|--|--|--|--------------------|
| 1 | <i>Preventive and Corrective Maintenance for</i> | Proceedings of the 13th International Symposium on Advanced Topics in | Maria Cristina Nițu,<br>Ancuța-Mihaela Aciu, | X |  |  |  |  | IEEE<br>Proceeding |
|---|--------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|---|--|--|--|--|--------------------|

|   |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                            |   |   |  |  |  |                                |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---|---|--|--|--|--------------------------------|
|   | <i>Transformers in Operation</i>                                                                                                                    | <i>Electrical Engineering (ATEE)</i> , Bucharest, Romania, 2023, pp. 1-5, Publisher: IEEE; e-ISBN:979-8-3503-3193-6; USB ISBN:979-8-3503-3192-9; DOI:10.1109/ATEE58038.2023.10108196                                                                                                                              | Dan Ștefan                                                                                                                                 |   |   |  |  |  | IEEE Xplore                    |
| 2 | <i>Measurement Technique for Evaluating Radio Frequency Absorption</i>                                                                              | Proceedings of the <i>13th International Symposium on Advanced Topics in Electrical Engineering (ATEE)</i> , Bucharest, Romania, 2023, pp. 1-4, Publisher: IEEE; e-ISBN:979-8-3503-3193-6; USB ISBN:979-8-3503-3192-9; DOI:10.1109/ATEE58038.2023.10108088                                                        | Viorica Voicu, Livia-Andreea Dima, Constantin Chelan, Ionel Dumbravă, Daniela Iovan, Marius Alin Neagoe, Cristian Alexandru Constantinescu | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 3 | <i>Improved Control of DC-DC Converter for PV Array and Battery Hybrid System Based on Sine Cosine Algorithm and RL-TD3 Agent</i>                   | Proceedings of the <i>3rd International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2023)</i> , Tenerife, Canary Islands, Spain, 19-21 July 2023, pp. 1-6, Publisher: IEEE; e-ISBN:979-8-3503-2297-2; ISBN:979-8-3503-2298-9; DOI:10.1109/ICECCME57830.2023.10253414 | Marcel NICOLA, Claudiu-Ionel NICOLA                                                                                                        |   | X |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 4 | <i>Improvement Performances of Sensorless Control for PMSM Based on FOC Strategy Using MRAS Observer, Ant Colony Optimization, and RL-TD3 Agent</i> | Proceedings of the <i>3rd International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME 2023)</i> , Tenerife, Canary Islands, Spain, 19-21 July 2023, pp. 1-6, Publisher: IEEE; e-ISBN:979-8-3503-2297-2; ISBN:979-8-3503-2298-9; DOI:10.1109/ICECCME57830.2023.10252829 | Claudiu-Ionel NICOLA, Marcel NICOLA                                                                                                        |   | X |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 5 | <i>Automation of Dust Removal Process and Application in Industrial Environment</i>                                                                 | Proceedings of the <i>14th International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN 2023)</i> , Craiova, Romania, 11-13 October, 2023, pp. 1-5, Publisher: IEEE; e-ISBN:979-8-3503-1524-0; ISBN:979-8-3503-1525-7; DOI:10.1109/SIELMEN59038.2023.10290738                         | Florin TEIȘANU, Constantin CHELAN, Marinela BUTOI, Claudiu-Ionel NICOLA, Marcel NICOLA                                                     | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 6 | <i>Improvement Performances of Sensorless Control for</i>                                                                                           | Proceedings of the <i>14th International Conference and Exhibition on</i>                                                                                                                                                                                                                                         | Marcel NICOLA, Claudiu-Ionel NICOLA                                                                                                        | X |   |  |  |  | IEEE Proceeding                |

|    |                                                                                                                                                  |                                                                                                                                                                                                                                                                                          |                                                                                                                                                    |   |  |  |  |  |                                |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---|--|--|--|--|--------------------------------|
|    | <i>PMSM Based on FOC Strategy Using Luenberger Observer, Sine Cosine Algorithm, and RL-TD3 Agent</i>                                             | <i>Electromechanical and Energy Systems</i> (SIELMEN 2023), Craiova, Romania, 11-13 October, 2023, pp. 1-7, Publisher: IEEE; e-ISBN:979-8-3503-1524-0; ISBN:979-8-3503-1525-7; DOI:10.1109/SIELMEN59038.2023.10290813                                                                    |                                                                                                                                                    |   |  |  |  |  | IEEE Xplore                    |
| 7  | <i>Determination and Monitoring of the Overhead Electricity Transmission Cables Sag</i>                                                          | Proceedings of the <i>14th International Conference and Exhibition on Electromechanical and Energy Systems</i> (SIELMEN 2023), Craiova, Romania, 11-13 October, 2023, pp. 1-5, Publisher: IEEE; e-ISBN:979-8-3503-1524-0; ISBN:979-8-3503-1525-7; DOI:10.1109/SIELMEN59038.2023.10290751 | Claudiu-Ionel NICOLA, Marcel NICOLA, Ion PĂTRU, Camelia MARINESCU, Gabriel TĂNĂSESCU, Carmen TĂNĂSESCU                                             | X |  |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 8  | <i>Experimental Study of the Pressure Exerted in the Body of a High-Voltage Fuse</i>                                                             | Proceedings of the 14th International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN 2023), Craiova, Romania, 11-13 October, 2023, pp. 1-6, Publisher: IEEE; e-ISBN:979-8-3503-1524-0; ISBN:979-8-3503-1525-7; DOI:10.1109/SIELMEN59038.2023.10290741        | Cristian-Eugeniu Sălceanu, Cătălin Dobrea, Marcel Nicola, Daniel Constantin Ocoleanu, Ștefan Șeitan, Daniela Iovan, Mihai Ionescu, Ovidiu Mihăiță  | X |  |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 9  | <i>Considerations on the Behaviour of Protective Clothing Against the Thermal Hazards Caused by an Electric Arc</i>                              | Proceedings of the 14th International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN 2023), Craiova, Romania, 11-13 October, 2023, pp. 1-6, Publisher: IEEE; e-ISBN:979-8-3503-1524-0; ISBN:979-8-3503-1525-7; DOI:1109/SIELMEN59038.2023.10290762           | Cristian-Eugeniu Salceanu, Cătălin Dobrea, Marcel Nicola, Daniel Constantin Ocoleanu, Ștefan Șeitan, Daniela Iovan, Mihai Ionescu, Andrei Ghiorlan | X |  |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 10 | Research Using Modular Resistive Power Load Blocks for Frequent Starting of Wound Rotor Induction Motor, Used in High Power Testing Laboratories | Proceedings of the 14th International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN 2023), Craiova, Romania, 11-13 October, 2023, pp. 1-5, Publisher: IEEE; e-ISBN:979-8-3503-1524-0; ISBN:979-8-3503-1525-7;                                               | Daniel Constantin Ocoleanu, Cristian-Eugeniu Salceanu, Mihai Ionescu, Ovidiu Mihăiță, Daniela Iovan, Marcel Nicola, Andrei Ghiorlan                | X |  |  |  |  | IEEE Proceeding<br>IEEE Xplore |

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|----|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|---|--|--|--|--------------------------------|
|    |                                                                                                                         | DOI:10.1109/SIELMEN59038.2023.10290791                                                                                                                                                                                                                                            |                                                                                       |   |   |  |  |  |                                |
| 11 | Complementary Analysis of the Fault Condition of Transformers in Service                                                | Proceedings of the 14th International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN 2023), Craiova, Romania, 11-13 October, 2023, pp. 1-5, Publisher: IEEE; e-ISBN:979-8-3503-1524-0; ISBN:979-8-3503-1525-7; DOI:10.1109/SIELMEN59038.2023.10290832 | Ancuța-Mihaela Aciu, Maria-Cristina Nițu                                              | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 12 | Experiments on the Measurement of the Electromagnetic Field                                                             | Proceedings of the 14th International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN 2023), Craiova, Romania, 11-13 October, 2023, pp. 1-6, Publisher: IEEE; e-ISBN:979-8-3503-1524-0; ISBN:979-8-3503-1525-7; DOI:10.1109/SIELMEN59038.2023.1029085  | Viorica Voicu, Livia-Andreea Dima, Ionel Dumbravă, Paul-Mihai Mircea, Ioan Fieraru    | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 13 | Control, Command and Regulation System Based on Virtual Instrumentation for Three-Phase Alternating High Current Source | Proceedings of the 14th International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN 2023), Craiova, Romania, 11-13 October, 2023, Publisher: IEEE; e-ISBN:979-8-3503-1524-0; ISBN:979-8-3503-1525-7; DOI:10.1109/SIELMEN59038.2023.10290806          | Gheorghe-Eugen Subtirelu, Petre Pistol, Adrian Vintila, Mihăiță-Daniel Constantinescu | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 14 | Effects of Inrush Current on Operating Transformers when the Series Resonance Condition is Met                          | <i>Power Quality and Electromagnetic Compatibility at Low Frequency (PQEMC-LF)</i> , Craiova, Romania, 2023, pp. 25-28, Publisher: IEEE; ISBN:979-8-3503-4133-1; DOI:10.1109/PQEMC-LF58184.2023.10211750                                                                          | Maria-Cristina Nițu                                                                   | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 15 | Magnetic and Electric Field Measurement Experiments                                                                     | Proceedings of the <i>Power Quality and Electromagnetic Compatibility at Low Frequency (PQEMC-LF)</i> , Craiova, Romania, 2023, pp. 61-64, Publisher: IEEE; ISBN:979-8-3503-4133-1; DOI: 10.1109/PQEMC-LF58184.2023.10211641.                                                     | V. Voicu, L. -A. Dina, P. -M. Mircea and I. Dumbrava                                  | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 16 | Considerations on Electromagnetic Disturbances Appearing in                                                             | Proceedings of the <i>18th Conference on Electrical Machines, Drives and Power Systems (ELMA)</i> , Varna, Bulgaria, 2023, pp.                                                                                                                                                    | Silvia-Maria Digă, Nicolae Digă, Paul-Mihai Mircea,                                   |   | X |  |  |  | IEEE Proceeding                |

|    |                                                             |                                                                                                                                                                                                    |                                                      |   |  |  |  |  |                                |
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|    | Electrical Energy Smart Metering Systems                    | 1-4, Publisher: IEEE; e-ISBN:979-8-3503-1127-3; USB ISBN:979-8-3503-2810-3; DOI:10.1109/ELMA58392.2023.10202538                                                                                    | Marian-Ştefan Nicolae, Ion Pătru, Radu-Cristian Dinu |   |  |  |  |  | IEEE Xplore                    |
| 17 | High Power Inductive Coupler Design From a Downscaled Model | Proceedings of the 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2023, pp. 01-06, Publisher: IEEE; ISBN:979-8-3503-2682-6; DOI:10.1109/MPS58874.2023.10187561 | Tiberiu Tudorache, Andrei Marinescu, Adrian Vintilă  | X |  |  |  |  | IEEE Proceeding<br>IEEE Xplore |

## 2022

|   |                                                                                                              |                                                                                                                                                                                                                                                                        |                                                                   |   |   |  |  |  |                                |
|---|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---|---|--|--|--|--------------------------------|
| 1 | Improved Performance of PMSM Control Based on Nonlinear Control Law and Computational Intelligence           | Proceedings of the 2nd International Conference on Electrical, Computer and Energy Technologies (ICECET 2022), 20-22 July 2022, Prague-Czech Republic, online presentation, pp. 1-8, Publisher: IEEE; e-ISBN:978-1-6654-7087-2; DOI: 10.1109/ICECET55527.2022.9872870; | Marcel NICOLA, Claudiu-Ionel NICOLA                               |   | X |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 2 | Study of Zeolitic Molecular Sieves for the Treatment of Transformer Oils                                     | Proceedings of the International Conference on Electrical, Computer and Energy Technologies (ICECET 2022), 20-22 July 2022, Prague-Czech Republic, online presentation, pp.1-6, Publisher: IEEE; e-ISBN:978-1-6654-7087-2; DOI: 10.1109/ICECET55527.2022.9872901       | Ancuța-Mihaela Aciu, Maria Cristina Nițu, Aurelia Iuliana Scornea |   | X |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 3 | Aspects of Photometric Calculation and Monitoring of Parameters Related to an Interior Lighting Installation | Seventh Junior Conference on Lighting (Lighting 2022); 19 - 21 September 2022/Hybrid Conference; Sozopol, Bulgaria/Online, pp. 1-4, Publisher: IEEE; ISBN:978-1-6654-5314-1 (Xplore); DOI: 10.1109/Lighting56379.2022.9929029                                          | S. M. Diga, I. Patru, N. Diga, I. Mircea, P.-M. Mircea            |   | X |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 4 | Extending the Life of Transformer Units Through Maintenance Based on Insulation Revitalization               | Proceedings of the 12th International Conference and Exposition on Electrical and Power Engineering (EPE 2022), October 20-22, 2022, Iași, Romania, pp. 37-42, Publisher: IEEE; ISBN:978-1-6654-8994-2; DOI:10.1109/EPE56121.2022.9959783                              | Ancuța-Mihaela ACIU, Maria-Cristina NIȚU, Dan ȘTEFAN              | X |   |  |  |  | IEEE Proceeding<br>IEEE Xplore |
| 5 | Numerical Simulations and                                                                                    | Proceedings of the 12th International                                                                                                                                                                                                                                  | Cristian-Eugeniu                                                  | X |   |  |  |  | IEEE                           |

|    |                                                                                                                                                                                                              |                                                                                                                                                                                                                                             |                                                                                                                                       |   |  |  |  |  |                                   |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---|--|--|--|--|-----------------------------------|
|    | Experimental Tests for the Analysis of Capacitive Load Switching in Power Circuits                                                                                                                           | Conference and Exposition on Electrical and Power Engineering (EPE 2022), October 20-22, 2022, Iași, Romania, pp. 409-414, Publisher: IEEE; ISBN:978-1-6654-8994-2; DOI:10.1109/EPE56121.2022.9959792                                       | SĂLCEANU, Marcel<br>NICOLA, Claudiu<br>NICOLA, Daniel<br>Constantin<br>OCOLEANU, Cătălin<br>DOBREA, Daniela<br>IOVAN, Sorin<br>ENACHE |   |  |  |  |  | Proceeding<br>IEEE Xplore         |
| 6  | Automatic Redundant Power Supply System for the Dynamic Braking System, Used for the Quick and Controlled Stopping of Wound-Rotor Asynchronous Power Motors, Specific to the High Power Testing Laboratories | Proceedings of the 12th International Conference and Exposition on Electrical and Power Engineering (EPE 2022), October 20-22, 2022, Iași, Romania, pp. 326-331, Publisher: IEEE; ISBN:978-1-6654-8994-2; DOI:10.1109/EPE56121.2022.9959859 | Daniel Constantin<br>OCOLEANU, Cristian-<br>Eugeniu SĂLCEANU,<br>Mihai IONESCU,<br>Marcel NICOLA,<br>Daniela IOVAN, Sorin<br>ENACHE   | X |  |  |  |  | IEEE<br>Proceeding<br>IEEE Xplore |
| 7  | Improved Partial Discharge Signals Analysis Using Discrete Wavelet Transform                                                                                                                                 | Proceedings of the 12th International Conference and Exposition on Electrical and Power Engineering (EPE 2022), October 20-22, 2022, Iași, Romania, pp. 332-337, Publisher: IEEE; ISBN:978-1-6654-8994-2; DOI:10.1109/EPE56121.2022.9959781 | Tania NICOARĂ,<br>Marcel NICOLA,<br>Claudiu-Ionel<br>NICOLA, Ion PĂTRU,<br>Denisa SAFTA and<br>Ancuța-Mihaela ACIU                    | X |  |  |  |  | IEEE<br>Proceeding<br>IEEE Xplore |
| 8  | The shielding performance analysis for different types of composite materials                                                                                                                                | Proceedings of the 12th International Conference and Exposition on Electrical and Power Engineering (EPE 2022), October 20-22, 2022, Iași, Romania, pp. 349-353, Publisher: IEEE; ISBN:978-1-6654-8994-2; DOI:10.1109/EPE56121.2022.9959752 | Voicu V., Dina L.A.,<br>Nicolae P.M.,<br>Negoescu M.M.                                                                                | X |  |  |  |  | IEEE<br>Proceeding<br>IEEE Xplore |
| 9  | Low-Cost Power Quality System and Automatic Classification Disturbances Using SVM and DWT Analysis                                                                                                           | Proceedings of the 12th International Conference and Exposition on Electrical and Power Engineering (EPE 2022), October 20-22, 2022, Iași, Romania, pp. 338-343, DOI:10.1109/EPE56121.2022.9959857                                          | Claudiu-Ionel<br>NICOLA, Marcel<br>NICOLA, Dumitru<br>SACERDOȚIANU,<br>Camelia MARINESCU                                              | X |  |  |  |  | IEEE<br>Proceeding<br>IEEE Xplore |
| 10 | Predictive Method for Determining the Operating Condition of Big-Blaster Air Cannons Using Automatic Classification of Critical                                                                              | Proceedings of the 12th International Conference and Exposition on Electrical and Power Engineering (EPE 2022), October 20-22, 2022, Iași, Romania, pp. 415-421, Publisher: IEEE; ISBN:978-1-6654-8994-2;                                   | Florin TEIȘANU,<br>Constantin CHELAN,<br>Marinela BUTOI,<br>Marcel NICOLA,<br>Claudiu-Ionel                                           | X |  |  |  |  | IEEE<br>Proceeding<br>IEEE Xplore |

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|----|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--|--|--|--|--|-----------------------------------------------------|
|    | Discharge of Compressed Air                                                                                              | DOI:10.1109/EPE56121.2022.9959832                                                                                                                                                                                                                               | NICOLA, Daniela<br>IOVAN, Alin NEAGOE<br>și Cristian<br>CONSTANTINESCU |  |  |  |  |  |                                                     |
| 11 | Improved Performance for the DC-AC Converters Control System Based on Robust Controller and Reinforcement Learning Agent | Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 16-18 November 2022, Mauritius, Maldives, pp.676-681; Publisher:IEEE;e-ISBN:978-1-6654-7095-7 DOI:10.1109/ICECCME55909.2022.9988458 | Marcel NICOLA,<br>Claudiu-Ionel<br>NICOLA                              |  |  |  |  |  | Maldiv<br><br>IEEE<br>Proceeding<br><br>IEEE Xplore |

## 2021

|   |                                                                                                                                                    |                                                                                                                                                                                                                                                               |                                                                                                                                           |   |  |  |  |  |                                       |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---|--|--|--|--|---------------------------------------|
| 1 | Determination of the Condition of Solid Insulation in High-Power Transformers Based on 2-Furfuraldehyde and Methanol Markers Using Neural Networks | Proceedings of the 13 <sup>th</sup> International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN), Iași, Romania, 6-8 October, 2021, pp. 175-180, Publisher: IEEE; ISBN:978-1-6654-0078-7; DOI:10.1109/SIELMEN53755.2021.9600415  | Ancuța-Mihaela ACIU,<br>Maria Cristina NIȚU,<br>Marcel NICOLA,<br>Claudiu-Ionel NICOLA                                                    | X |  |  |  |  | IEEE<br>Proceeding<br><br>IEEE Xplore |
| 2 | Identification of the Phenomena Leading to the Aging of the Insulation of In-Service High Power Transformers                                       | Proceedings of the 13 <sup>th</sup> International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN), Iași, Romania, 6-8 October, 2021, pp. 181-185, Publisher: IEEE; ISBN:978-1-6654-0078-7; DOI: 10.1109/SIELMEN53755.2021.9600290 | Maria-Cristina NIȚU,<br>Ancuța-Mihaela ACIU,<br>Marcel NICOLA,<br>Claudiu-Ionel NICOLA                                                    | X |  |  |  |  | IEEE<br>Proceeding<br><br>IEEE Xplore |
| 3 | Reactive Energy Transfer Reduction Equipment for Low-Load Wound-Rotor Induction Motors                                                             | Proceedings of the 13 <sup>th</sup> International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN), Iași, Romania, 6-8 October, 2021, pp. 186-191, Publisher: IEEE; ISBN:978-1-6654-0078-7;DOI: 10.1109/SIELMEN53755.2021.9600355  | Daniel Constantin Ocoleanu; Cristian-Eugeniu Salceanu; Mihai Ionescu; Marcel Nicola; Maria Cristina Nițu; Sorin Enache; Camelia Marinescu | X |  |  |  |  | IEEE<br>Proceeding<br><br>IEEE Xplore |
| 4 | Modern Methods of                                                                                                                                  | Proceedings of the 13 <sup>th</sup> International                                                                                                                                                                                                             | Ardeleanu Mircea-                                                                                                                         | X |  |  |  |  | IEEE                                  |

|   |                                                                                                                |                                                                                                                                                                                                                                                               |                                                                                              |   |   |  |  |  |                                   |
|---|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---|---|--|--|--|-----------------------------------|
|   | Analysing the Transformer Oil, 2021 International Conference on Electromechanical and Energy Systems (SIELMEN) | Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN), Iași, Romania, 6-8 October, 2021, pp. 288-292, Publisher: IEEE; ISBN:978-1-6654-0078-7; DOI: 10.1109/SIELMEN53755.2021.9600296                                                   | Emilian, Sîrbu Ioana Gabriela, Dan-Gabriel Stănescu, Burciu Ionuț-Marius and Scornea Aurelia |   |   |  |  |  | Proceeding<br>IEEE Xplore         |
| 5 | Ph.D. Research, Component of the Engineering Education                                                         | Proceedings of the 13 <sup>th</sup> International Conference and Exhibition on Electromechanical and Energy Systems (SIELMEN), Iași, Romania, 6-8 October, 2021, pp. 144-149, Publisher: IEEE; ISBN:978-1-6654-0078-7; DOI: 10.1109/SIELMEN53755.2021.9600274 | G. Manolea, I. L. Alboteanu, D. Sacerdoțianu and S. Stepan                                   | X |   |  |  |  | IEEE<br>Proceeding<br>IEEE Xplore |
| 6 | Modern Methods of Analysing the Transformer Oil                                                                | Proceedings of the 13 <sup>th</sup> International Conference on Electromechanical and Energy Systems (SIELMEN), Iași, Romania, 2021, pp. 288-292, Publisher: IEEE; ISBN:978-1-6654-0078-7; DOI: 10.1109/SIELMEN53755.2021.9600296.                            | Ardeleanu M.-E., Sîrbu I. G., D.-G. Stănescu, Burciu I.-M. and Scornea A.                    | X |   |  |  |  | IEEE<br>Proceeding<br>IEEE Xplore |
| 7 | Considerations for some immunity tests to the disturbances to which LED Luminaires are subjected               | Proceedings of the Sixth Junior Conference on Lighting (Lighting), 23-25 Sept. 2021, Gabrovo, Bulgaria, pp. 1-6, Publisher: IEEE; ISBN:978-1-6654-3792-9 (Xplore); DOI: 10.1109/Lighting49406.2021.9599043                                                    | S.-M. Digă, N. Digă, P.-M. Mircea, I. Pătru and E.-D. Radu                                   |   | X |  |  |  | IEEE<br>Proceeding<br>IEEE Xplore |

## 2020

| Nr. crt. | Denumire lucrare                                                                            | Proceedings                                                                                                                                                                                                                                                         | Autorii                                                | RO | UE | SUA | Japonia | Factor impact | Observații                        |
|----------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----|----|-----|---------|---------------|-----------------------------------|
| 1        | Sensorless Control of PMSM using FOC Strategy Based on PI-ILC Law and Sliding Mode Observer | Proceedings of the XXI <sup>st</sup> International Symposium on Electrical Apparatus and Technologies (SIELA 2020), Bourgas, Bulgaria, 3-6 June, 2020, Publisher: IEEE; e-ISBN: 978-1-7281-4346-0; USB ISBN: 978-1-7281-4345-3; DOI:10.1109/SIELA49118.2020.9167046 | Marcel NICOLA, Claudiu-Ionel NICOLA, Camelia MARINESCU |    | X  |     |         |               | IEEE<br>Proceeding<br>IEEE Xplore |
| 2        | Sensorless Control of PMSM                                                                  | Proceedings of the XXI <sup>st</sup> International                                                                                                                                                                                                                  | Marcel NICOLA,                                         |    | X  |     |         |               | IEEE                              |

| Nr. crt. | Denumire lucrare                                                                                                                  | Proceedings                                                                                                                                                                                                                                                                                                                           | Autorii                                                                                                                                                          | RO | UE | SUA | Japonia | Factor impact | Observații                        |
|----------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|---------|---------------|-----------------------------------|
|          | using DTC Strategy Based on Multiple ANN and Load Torque Observer                                                                 | Symposium on Electrical Apparatus and Technologies (SIELA 2020), Bourgas, Bulgaria, 3-6 June, 2020, Publisher: IEEE; <b>e-ISBN:</b> 978-1-7281-4346-0; <b>USB ISBN:</b> 978-1-7281-4345-3; DOI:10.1109/SIELA49118.2020.9167120                                                                                                        | Claudiu-Ionel NICOLA, Dumitru SACERDOȚIANU                                                                                                                       |    |    |     |         |               | Proceeding<br>IEEE Xplore         |
| 3        | Complementary Analysis of the Degree of Polymerization Based on Chemical Markers 2-Furaldehyde and Methanol Using the Fuzzy Logic | Proceedings of the XXI <sup>st</sup> International Symposium on Electrical Apparatus and Technologies (SIELA 2020), Bourgas, Bulgaria, 3-6 June, 2020, Publisher: IEEE; <b>e-ISBN:</b> 978-1-7281-4346-0; <b>USB ISBN:</b> 978-1-7281-4345-3; DOI:10.1109/SIELA49118.2020.9167088                                                     | Ancuța-Mihaela ACIU, Maria Cristina NIȚU, Marcel NICOLA, Claudiu-Ionel NICOLA, Florica LĂZĂRESCU                                                                 |    | X  |     |         |               | IEEE<br>Proceeding<br>IEEE Xplore |
| 4        | Integrated Systems for the Continuous Monitoring of the Technical Condition of Transformer Units                                  | Proceedings of the XXI <sup>st</sup> International Symposium on Electrical Apparatus and Technologies (SIELA 2020), Bourgas, Bulgaria, 3-6 June, 2020, Publisher: IEEE; <b>e-ISBN:</b> 978-1-7281-4346-0; <b>USB ISBN:</b> 978-1-7281-4345-3; DOI:10.1109/SIELA49118.2020.9167117                                                     | Dumitru SACERDOȚIANU, Florica LĂZĂRESCU, Iulian HUREZEANU, Maria-Cristina NIȚU, Ancuța-Mihaela ACIU, Marcel NICOLA, Claudiu-Ionel NICOLA, Fevronia Despina ROMAN |    | X  |     |         |               | IEEE<br>Proceeding<br>IEEE Xplore |
| 5        | The influence of supply voltage phase angle on the transient current generated on transformer energization                        | Proceedings of the XXI <sup>st</sup> International Symposium on Electrical Apparatus and Technologies (SIELA 2020), Bourgas, Bulgaria, 3-6 June, 2020, Publisher: IEEE; <b>e-ISBN:</b> 978-1-7281-4346-0; <b>USB ISBN:</b> 978-1-7281-4345-3; DOI:10.1109/SIELA49118.2020.9167092                                                     | Maria Cristina NIȚU, Marian DUȚĂ, Marcel NICOLA, Ștefan-Marius ȘEITAN, Mihai IONESCU                                                                             |    | X  |     |         |               | IEEE<br>Proceeding<br>IEEE Xplore |
| 6        | Sensorless Control of PMSM based on FOC Strategy and Fractional Order PI Controller                                               | Proceedings of the 11 <sup>th</sup> International Conference and Exposition on Electrical and Power Engineering (EPE 2020)” - online event: October 22 <sup>th</sup> - 23 <sup>th</sup> 2020, Iași, România. Publisher: IEEE; <b>e-ISBN:</b> 978-1-7281-8126-4; <b>USB ISBN:</b> 978-1-7281-8125-7; DOI:10.1109/EPE50722.2020.9305608 | Marcel NICOLA, Claudiu-Ionel NICOLA, Marian DUȚĂ                                                                                                                 | X  |    |     |         |               | IEEE<br>Proceeding<br>IEEE Xplore |

| Nr. crt. | Denumire lucrare                                                        | Proceedings                                                                                                                                                                                                                                                                                                            | Autorii                                | RO | UE | SUA | Japonia | Factor impact | Observatii                            |
|----------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----|----|-----|---------|---------------|---------------------------------------|
| 7        | Sensorless Control of PMSM based on Fractional Order Synergetic Control | Proceedings of the 11 <sup>th</sup> International Conference and Exposition on Electrical and Power Engineering (EPE 2020)” - online event: October 22 <sup>th</sup> - 23 <sup>th</sup> 2020, Iași, România. Publisher: IEEE; e-ISBN: 978-1-7281-8126-4; USB ISBN:978-1-7281-8125-7; DOI:10.1109/EPE50722.2020.9305532 | Marcel NICOLA,<br>Claudiu-Ionel NICOLA | X  |    |     |         |               | IEEE<br>Proceeding<br><br>IEEE Xplore |