

Lucian Mihet-Popa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

1,343
citations

19
h-index

33
g-index

114
ext. papers

2,127
ext. citations

3.3
avg, IF

5.31
L-index

#	Paper	IF	Citations
92	A Hybrid Sailfish Whale Optimization and Deep Long Short-Term Memory (SWO-DLSTM) Model for Energy Efficient Autonomy in India by 2048. <i>Sustainability</i> , 2022 , 14, 1355	3.6	0
91	Managing the Demand in a Micro Grid Based on Load Shifting with Controllable Devices Using Hybrid WFS2ACSO Technique. <i>Energies</i> , 2022 , 15, 790	3.1	1
90	Probabilistic Optimization Techniques in Smart Power System. <i>Energies</i> , 2022 , 15, 825	3.1	7
89	Assessment of Thermophysical Performance of Ester-Based Nanofluids for Enhanced Insulation Cooling in Transformers. <i>Electronics (Switzerland)</i> , 2022 , 11, 376	2.6	2
88	State-of-the-art sustainable approaches for deeper decarbonization in Europe [An endowment to climate neutral vision. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 159, 112204	16.2	10
87	Flashover Voltage Prediction Models under Agricultural and Biological Contaminant Conditions on Insulators. <i>Energies</i> , 2022 , 15, 1297	3.1	0
86	Fast Computation of Highly Oscillatory ODE Problems: Applications in High-Frequency Communication Circuits. <i>Symmetry</i> , 2022 , 14, 115	2.7	7
85	A specialized review on outlook of future Cyber-Physical Power System (CPPS) testbeds for securing electric power grid. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 136, 107720	5.1	3
84	A holistic review on Cyber-Physical Power System (CPPS) testbeds for secure and sustainable electric power grid [Part I]: Background on CPPS and necessity of CPPS testbeds. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 136, 107718	5.1	6
83	FPGA Implementation of AI-Based Inverter IGBT Open Circuit Fault Diagnosis of Induction Motor Drives. <i>Micromachines</i> , 2022 , 13, 663	3.3	1
82	Investigation on Current and Prospective Energy Transition Scenarios in Indian Landscape Using Integrated SWOT-MCDA Methodology. <i>Sustainability</i> , 2022 , 14, 4940	3.6	1
81	Influence of Area and Volume Effect on Dielectric Behaviour of the Mineral Oil-Based Nanofluids. <i>Energies</i> , 2022 , 15, 3354	3.1	0
80	A Review of BLDC Motor: State of Art, Advanced Control Techniques, and Applications. <i>IEEE Access</i> , 2022 , 1-1	3.5	2
79	A holistic review on Cyber-Physical Power System (CPPS) testbeds for secure and sustainable electric power grid [Part II]: Classification, overview and assessment of CPPS testbeds. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 137, 107721	5.1	1
78	A novel Sustainable Development Goal 7 composite index as the paradigm for energy sustainability assessment: A case study from Europe. <i>Applied Energy</i> , 2021 , 118173	10.7	15
77	. <i>IEEE Access</i> , 2021 , 1-1	3.5	3
76	A Novel Energy-Safe Algorithm for Enhancing the Battery Life for IoT Sensors[Applications. <i>Energies</i> , 2021 , 14, 6613	3.1	2

75	Mitigation of circulating current with effective energy management in low-power PV-FC-battery-microgrid. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12899	2.2	1
74	Neutral Point Clamped Transformer-Less Multilevel Converter for Grid-Connected Photovoltaic System. <i>Electronics (Switzerland)</i> , 2021 , 10, 977	2.6	4
73	Reinforced Demand Side Management for Educational Institution with Incorporation of User Comfort. <i>Energies</i> , 2021 , 14, 2855	3.1	2
72	Hybrid Multicarrier Random Space Vector PWM for the Mitigation of Acoustic Noise. <i>Electronics (Switzerland)</i> , 2021 , 10, 1483	2.6	0
71	A Novel Control Approach to Hybrid Multilevel Inverter for High-Power Applications. <i>Energies</i> , 2021 , 14, 4563	3.1	1
70	. <i>IEEE Access</i> , 2021 , 9, 9481-9492	3.5	0
69	AI4People. <i>International Journal of Technoethics</i> , 2021 , 12, 101-125	0.9	3
68	Review on Inductive Wireless Power Transfer Charging for Electric vehicles A Review. <i>IEEE Access</i> , 2021 , 1-1	3.5	28
67	Controller Parameters Optimization for Multi-Terminal DC Power System Using Ant Colony Optimization. <i>IEEE Access</i> , 2021 , 9, 59910-59919	3.5	2
66	A Comprehensive Survey on Different Control Strategies and Applications of Active Power Filters for Power Quality Improvement. <i>Energies</i> , 2021 , 14, 4589	3.1	11
65	Solar-Based DG Allocation Using Harris Hawks Optimization While Considering Practical Aspects. <i>Energies</i> , 2021 , 14, 5206	3.1	4
64	Electric Vehicles Charging Stations Architectures, Criteria, Power Converters, and Control Strategies in Microgrids. <i>Electronics (Switzerland)</i> , 2021 , 10, 1895	2.6	12
63	. <i>IEEE Access</i> , 2021 , 9, 69235-69266	3.5	30
62	. <i>IEEE Access</i> , 2021 , 9, 125658-125677	3.5	2
61	An Evaluation on Wind Energy Potential Using Multi-Objective Optimization Based Non-Dominated Sorting Genetic Algorithm III. <i>Sustainability</i> , 2021 , 13, 410	3.6	13
60	A Robust Multilevel Inverter Topology for Operation under Fault Conditions. <i>Electronics (Switzerland)</i> , 2021 , 10, 3099	2.6	1
59	Incorporation of Microgrid Technology Solutions to Reduce Power Loss in a Distribution Network with Elimination of Inefficient Power Conversion Strategies. <i>Sustainability</i> , 2021 , 13, 13882	3.6	
58	A Novel Hybrid Feature Selection Method for Day-Ahead Electricity Price Forecasting. <i>Energies</i> , 2021 , 14, 8455	3.1	2

57	The Motivation for Incorporation of Microgrid Technology in Rooftop Solar Photovoltaic Deployment to Enhance Energy Economics. <i>Sustainability</i> , 2020 , 12, 10365	3.6	2
56	A Hybridization of Cuk and Boost Converter Using Single Switch with Higher Voltage Gain Compatibility. <i>Energies</i> , 2020 , 13, 2312	3.1	14
55	An Assessment of Onshore and Offshore Wind Energy Potential in India Using Moth Flame Optimization. <i>Energies</i> , 2020 , 13, 3063	3.1	24
54	Technical and Economic Analysis of One-Stop Charging Stations for Battery and Fuel Cell EV with Renewable Energy Sources. <i>Energies</i> , 2020 , 13, 2855	3.1	14
53	Evaluation of Mathematical Model to Characterize the Performance of Conventional and Hybrid PV Array Topologies under Static and Dynamic Shading Patterns. <i>Energies</i> , 2020 , 13, 3216	3.1	40
52	A Modified High Voltage Gain Quasi-Impedance Source Coupled Inductor Multilevel Inverter for Photovoltaic Application. <i>Energies</i> , 2020 , 13, 874	3.1	16
51	Infrared Thermography Based Defects Testing of Solar Photovoltaic Panel with Fuzzy Rule-Based Evaluation. <i>Energies</i> , 2020 , 13, 1343	3.1	14
50	Thermal Analysis of Power Rectifiers in Steady-State Conditions. <i>Energies</i> , 2020 , 13, 1942	3.1	4
49	Closed-Loop Control and Performance Evaluation of Reduced Part Count Multilevel Inverter Interfacing Grid-Connected PV System. <i>IEEE Access</i> , 2020 , 8, 75691-75701	3.5	18
48	Exhaustive Modeling of Electric Vehicle Dynamics, Powertrain and Energy Storage/Conversion for Electrical Component Sizing and Diagnostic. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 433-440	0.2	
47	A Modified Topology of a High Efficiency Bidirectional Type DCDC Converter by Synchronous Rectification. <i>Electronics (Switzerland)</i> , 2020 , 9, 1555	2.6	2
46	Cyber-Physical Power System (CPPS): A Review on Modeling, Simulation, and Analysis With Cyber Security Applications. <i>IEEE Access</i> , 2020 , 8, 151019-151064	3.5	44
45	. <i>IEEE Access</i> , 2020 , 8, 175788-175804	3.5	10
44	. <i>IEEE Access</i> , 2020 , 8, 74432-74457	3.5	118
43	A Review on Optimization and Control Methods Used to Provide Transient Stability in Microgrids. <i>Energies</i> , 2019 , 12, 3582	3.1	22
42	Considerations Regarding the Design of a Minimum Variance Control System for an Induction Generator. <i>Electronics (Switzerland)</i> , 2019 , 8, 532	2.6	3
41	Hybrid Micro-Grids Exploiting Renewables Sources, Battery Energy Storages, and Bi-Directional Converters. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4973	2.6	12
40	Frequency Splitting Elimination and Cross-Coupling Rejection of Wireless Power Transfer to Multiple Dynamic Receivers. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 179	2.6	9

39	Energy Management Strategy for Rural CommunitiesDC Micro Grid Power System Structure with Maximum Penetration of Renewable Energy Sources. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 585	2.6	30
38	Maximum Power Point Tracking for Brushless DC Motor-Driven Photovoltaic Pumping Systems Using a Hybrid ANFIS-FLOWER Pollination Optimization Algorithm. <i>Energies</i> , 2018 , 11, 1067	3.1	32
37	Analysis of 132kV/33kV 15MVA power transformer dissolved gas using transport-X Kelman Kit through Duval's triangle and Roger's Ratio prediction 2018 ,		2
36	Modified SEPIC boost converter with constant switching frequency modulation using sliding mode controller 2018 ,		2
35	Three-stage control architecture for cascaded H-Bridge inverters in large-scale PV systems Real time simulation validation. <i>Applied Energy</i> , 2018 , 229, 1111-1127	10.7	7
34	Reconfiguration of a Multilevel Inverter with Trapezoidal Pulse Width Modulation. <i>Energies</i> , 2018 , 11, 2148	3.1	5
33	Hybrid PV-Wind, Micro-Grid Development Using Quasi-Z-Source Inverter Modeling and ControlExperimental Investigation. <i>Energies</i> , 2018 , 11, 2277	3.1	15
32	A Buck-Chopper Based Energy Storage System for the Cascaded H-Bridge Inverters in PV Applications. <i>Energy Procedia</i> , 2018 , 145, 534-541	2.3	3
31	Control Architecture for Cascaded H-Bridge Inverters in Large-Scale PV Systems. <i>Energy Procedia</i> , 2018 , 145, 549-557	2.3	6
30	Power Quality Performance Analysis of grid tied PV fed Parallel Pumping System under Normal and Vibrating Condition. <i>Energy Procedia</i> , 2018 , 145, 497-503	2.3	7
29	Investigations of power quality disturbances in a variable speed parallel pumping system with grid tied solar PV. <i>Energy Procedia</i> , 2018 , 145, 490-496	2.3	3
28	Toward Green Vehicles Digitalization for the Next Generation of Connected and Electrified Transport Systems. <i>Energies</i> , 2018 , 11, 3124	3.1	16
27	An Overview of Energy Scenarios, Storage Systems and the Infrastructure for Vehicle-to-Grid Technology. <i>Energies</i> , 2018 , 11, 2174	3.1	19
26	Wind energy integration via residential appliances. <i>Energy Efficiency</i> , 2017 , 10, 319-329	3	8
25	Power Balancing Control for Grid Energy Storage System in Photovoltaic ApplicationsReal Time Digital Simulation Implementation. <i>Energies</i> , 2017 , 10, 928	3.1	29
24	Hardware Implementation and a New Adaptation in the Winding Scheme of Standard Three Phase Induction Machine to Utilize for Multifunctional Operation: A New Multifunctional Induction Machine. <i>Energies</i> , 2017 , 10, 1757	3.1	0
23	Potential Energy Flexibility for a Hot-Water Based Heating System in Smart Buildings via Economic Model Predictive Control 2017 ,		1
22	A Hybrid RES Distributed Generation System for Autonomous Islands: A DER-CAM and Storage-Based Economic and Optimal Dispatch Analysis. <i>Sustainability</i> , 2017 , 9, 2010	3.6	12

21	Sliding Mode Controller and Lyapunov Redesign Controller to Improve Microgrid Stability: A Comparative Analysis with CPL Power Variation. <i>Energies</i> , 2017 , 10, 1959	3.1	15
20	Grid Synchronization of a Seven-Phase Wind Electric Generator Using d-q PLL. <i>Energies</i> , 2017 , 10, 926	3.1	15
19	Control Strategy for a Grid-Connected Inverter under Unbalanced Network Conditions: A Disturbance Observer-Based Decoupled Current Approach. <i>Energies</i> , 2017 , 10, 1067	3.1	16
18	Real-Time Analysis of a Modified State Observer for Sensorless Induction Motor Drive Used in Electric Vehicle Applications. <i>Energies</i> , 2017 , 10, 1077	3.1	7
17	A Comprehensive Study of Key Electric Vehicle (EV) Components, Technologies, Challenges, Impacts, and Future Direction of Development. <i>Energies</i> , 2017 , 10, 1217	3.1	234
16	Study and Analysis of an Intelligent Microgrid Energy Management Solution with Distributed Energy Sources. <i>Energies</i> , 2017 , 10, 1419	3.1	26
15	Constant Power Loads (CPL) with Microgrids: Problem Definition, Stability Analysis and Compensation Techniques. <i>Energies</i> , 2017 , 10, 1656	3.1	53
14	Minimization of Load Variance in Power Grids: Investigation on Optimal Vehicle-to-Grid Scheduling. <i>Energies</i> , 2017 , 10, 1880	3.1	24
13	Grid-Tied Photovoltaic and Battery Storage Systems with Malaysian Electricity Tariff: A Review on Maximum Demand Shaving. <i>Energies</i> , 2017 , 10, 1884	3.1	27
12	Fast Charging and Smart Charging Tests for Electric Vehicles Batteries Using Renewable Energy. <i>Oil and Gas Science and Technology</i> , 2016 , 71, 13	1.9	12
11	Battery management system test platform developed for electric vehicle applications 2015 ,		4
10	Electrical Vehicle Batteries Testing in a Distribution Network Using Sustainable Energy. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 1033-1042	10.7	23
9	Simulation models developed for voltage control in a distribution network using energy storage systems for PV penetration 2013 ,		1
8	Charging and discharging tests for obtaining an accurate dynamic electro-thermal model of high power lithium-ion pack system for hybrid and EV applications 2013 ,		4
7	Model Predictive Controller for Active Demand Side Management with PV self-consumption in an intelligent building 2012 ,		30
6	Modeling and Simulation of a 12 MW Wind Farm. <i>Advances in Electrical and Computer Engineering</i> , 2010 , 10, 141-144	1.3	3
5	Analysis by numerical simulation regarding the stability of the synchronous generator operating in autonomous or grid connected regime 2009 ,		1
4	Issues regarding the modeling and simulation of wind energy conversion system: components 2008 ,		2

3	Fault Detection Methods for Frequency Converters Fed Induction Machines 2007 ,		1
2	Wind turbine Generator modeling and Simulation where rotational speed is the controlled variable. <i>IEEE Transactions on Industry Applications</i> , 2004 , 40, 3-10	4-3	76
1	A Comprehensive Study of Key Electric Vehicle (EV) Components, Technologies, Challenges, Impacts, and Future Direction of Development		12