

Dr M Premkumar

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.

51 papers	694 citations	14 h-index	24 g-index
64 ext. papers	1,256 ext. citations	2.5 avg, IF	5.43 L-index

#	Paper	IF	Citations
51	Renewable sources-based automatic load frequency control of interconnected systems using chaotic atom search optimization. <i>Applied Soft Computing Journal</i> , 2022 , 119, 108574	7.5	4
50	An efficient multi-thresholding based COVID-19 CT images segmentation approach using an improved equilibrium optimizer. <i>Biomedical Signal Processing and Control</i> , 2022 , 73, 103401	4.9	9
49	IRKO: An Improved Runge-Kutta Optimization Algorithm for Global Optimization Problems. <i>Computers, Materials and Continua</i> , 2022 , 70, 4803-4827	3.9	2
48	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
47	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
46	BHGSO: Binary Hunger Games Search Optimization Algorithm for Feature Selection Problem. <i>Computers, Materials and Continua</i> , 2022 , 70, 557-579	3.9	5
45	MOTEO: A novel physics-based multiobjective thermal exchange optimization algorithm to design truss structures. <i>Knowledge-Based Systems</i> , 2022 , 242, 108422	7.3	4
44	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
43	Many-Objective Gradient-Based Optimizer to Solve Optimal Power Flow Problems: Analysis and Validations. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 106, 104479	7.2	3
42	MOGBO: A new Multiobjective Gradient-Based Optimizer for real-world structural optimization problems. <i>Knowledge-Based Systems</i> , 2021 , 218, 106856	7.3	24
41	Stability assessment and performance analysis of new controller for power quality conditioning in microgrids. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e12891	2.2	3
40	A novel salp swarm assisted hybrid maximum power point tracking algorithm for the solar photovoltaic power generation systems. <i>Automatika</i> , 2021 , 62, 1-20	1.6	11
39	Improved Perturb and Observation Maximum Power Point Tracking Technique for Solar Photovoltaic Power Generation Systems. <i>IEEE Systems Journal</i> , 2021 , 15, 3024-3035	4.3	23
38	Extraction of uncertain parameters of single-diode photovoltaic module using hybrid particle swarm optimization and grey wolf optimization algorithm. <i>Materials Today: Proceedings</i> , 2021 , 46, 5315-5321	1.4	11
37	Design and development of low-cost photovoltaic module characterization educational demonstration tool. <i>Materials Today: Proceedings</i> , 2021 , 46, 5433-5440	1.4	1
36	Enhanced chaotic JAYA algorithm for parameter estimation of photovoltaic cell/modules. <i>ISA Transactions</i> , 2021 , 116, 139-166	5.5	33
35	A New Metaheuristic Optimization Algorithms for Brushless Direct Current Wheel Motor Design Problem. <i>Computers, Materials and Continua</i> , 2021 , 67, 2227-2242	3.9	12

34	A New Arithmetic Optimization Algorithm for Solving Real-World Multiobjective CEC-2021 Constrained Optimization Problems: Diversity Analysis and Validations. <i>IEEE Access</i> , 2021 , 9, 84263-84295	3.5	35
33	. <i>IEEE Access</i> , 2021 , 9, 84982-85016	3.5	17
32	Analysis of Fractional Order Sliding Mode Control in a D-STATCOM Integrated Power Distribution System. <i>IEEE Access</i> , 2021 , 9, 70337-70352	3.5	4
31	MOSMA: Multi-Objective Slime Mould Algorithm Based on Elitist Non-Dominated Sorting. <i>IEEE Access</i> , 2021 , 9, 3229-3248	3.5	42
30	A holistic review on the integration of heat pipes in solar thermal and photovoltaic systems. <i>Solar Energy</i> , 2021 , 227, 577-605	6.8	7
29	Orthogonal learning-based Gray Wolf Optimizer for identifying the uncertain parameters of various photovoltaic models. <i>Optik</i> , 2021 , 247, 167973	2.5	7
28	Identification of Solar Photovoltaic Model Parameters Using an Improved Gradient-Based Optimization Algorithm With Chaotic Drifts. <i>IEEE Access</i> , 2021 , 9, 62347-62379	3.5	24
27	An Effective Solar Photovoltaic Module Parameter Estimation Technique for Single-Diode Model. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 937, 012014	0.4	6
26	Mathematical Modelling of Solar Photovoltaic Cell/Panel/Array based on the Physical Parameters from the Manufacturer's Datasheet. <i>International Journal of Renewable Energy Development</i> , 2020 , 9, 7-22	1.5	25
25	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
24	A New and Reliable Objective Functions for Extracting the Unknown Parameters of Solar Photovoltaic Cell Using Political Optimizer Algorithm 2020 ,		5
23	Design of Nonlinear Uncertainty Controller for Grid-Tied Solar Photovoltaic System Using Sliding Mode Control. <i>Energy Engineering: Journal of the Association of Energy Engineers</i> , 2020 , 117, 481-495	0.6	4
22	AN APPROACH FOR IMPROVING THE LABELLING IN A TEXT CORPORA USING SENTIMENT ANALYSIS. <i>Advances in Mathematics: Scientific Journal (discontinued)</i> , 2020 , 9, 8165-8174	1.6	5
21	A novel non-isolated high step-up DC/DC boost converter using single switch for renewable energy systems. <i>Electrical Engineering</i> , 2020 , 102, 811-829	1.5	12
20	A new stochastic slime mould optimization algorithm for the estimation of solar photovoltaic cell parameters. <i>Optik</i> , 2020 , 223, 165277	2.5	73
19	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
18	Design and Development of Non-Isolated Modified SEPIC DC-DC Converter Topology for High-Step-Up Applications: Investigation and Hardware Implementation. <i>Energies</i> , 2020 , 13, 3960	3.1	8
17	A new metaphor-less algorithms for the photovoltaic cell parameter estimation. <i>Optik</i> , 2020 , 208, 164552	5.5	59

16	Design and Implementation of New Topology for Solar PV Based Transformerless Forward Microinverter. <i>Journal of Electrical Engineering and Technology</i> , 2019 , 14, 145-155	1.4	13
15	Design and Implementation of New Topology for Nonisolated DCDC Microconverter with Effective Clamping Circuit. <i>Journal of Circuits, Systems and Computers</i> , 2019 , 28, 1950082	0.9	10
14	Scheduling Task to Heterogeneous Processors by Modified ACO Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 565-576	0.4	0
13	An effective maximum power point tracker for partially shaded solar photovoltaic systems. <i>Energy Reports</i> , 2019 , 5, 1445-1462	4.6	27
12	Certain Study on MPPT Algorithms to track the Global MPP under Partial Shading on Solar PV Module/Array. <i>International Journal of Computing and Digital Systems</i> , 2019 , 8, 405-416	1.6	18
11	Analysis and Simulation of Bio-Inspired Intelligent Salp Swarm MPPT Method for the PV Systems under Partial Shaded Conditions. <i>International Journal of Computing and Digital Systems</i> , 2019 , 8, 489-496	1.6	5
10	Analysis and Implementation of High-Performance DC-DC Step-Up Converter for Multilevel Boost Structure. <i>Frontiers in Energy Research</i> , 2019 , 7,	3.8	10
9	A Comparative Study and Analysis on Conventional Solar PV Based DC-DC Converters and MPPT Techniques. <i>Indonesian Journal of Electrical Engineering and Computer Science</i> , 2018 , 11, 831	1.6	4
8	Modelling and Implementation of Cascaded Multilevel Inverter as Solar PV Based Microinverter Using FPGA. <i>International Journal of Intelligent Engineering and Systems</i> , 2018 , 11, 18-27	1.6	3
7	Survey of Image Processing Based Applications in AMR. <i>Review of Computer Engineering Research</i> , 2018 , 5, 12-19	1	4
6	A dataset of the study on design parameters for the solar photovoltaic charge controller. <i>Data in Brief</i> , 2018 , 21, 1954-1962	1.2	3
5	A Review on Solar PV Based Grid Connected Microinverter Control Schemes and Topologies. <i>International Journal of Renewable Energy Development</i> , 2018 , 7, 171-182	1.5	7
4	Opposition decided gradient-based optimizer with balance analysis and diversity maintenance for parameter identification of solar photovoltaic models. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 1	3.7	3
3	MOMPA: Multi-objective marine predator algorithm for solving multi-objective optimization problems. <i>Evolutionary Intelligence</i> , 1	1.7	4
2	A new maximum power point tracking technique based on whale optimisation algorithm for solar photovoltaic systems. <i>International Journal of Ambient Energy</i> , 1-11	2	1
1	Constraint estimation in three-diode solar photovoltaic model using Gaussian and Cauchy mutation-based hunger games search optimizer and enhanced NewtonRaphson method. <i>IET Renewable Power Generation</i> ,	2.9	2