

Ratil Ashique

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79
papers

2,416
citations

23
h-index

48
g-index

87
ext. papers

3,171
ext. citations

5.3
avg, IF

5.98
L-index

#	Paper	IF	Citations
79	A review of maximum power point tracking techniques of PV system for uniform insolation and partial shading condition. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 19, 475-488	16.2	363
78	A Maximum Power Point Tracking (MPPT) for PV system using Cuckoo Search with partial shading capability. <i>Applied Energy</i> , 2014 , 119, 118-130	10.7	337
77	The application of soft computing methods for MPPT of PV system: A technological and status review. <i>Applied Energy</i> , 2013 , 107, 135-148	10.7	243
76	A Modified P&O Maximum Power Point Tracking Method With Reduced Steady-State Oscillation and Improved Tracking Efficiency. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1506-1515	8.2	197
75	Electric vehicles charging using photovoltaic: Status and technological review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 34-47	16.2	115
74	. <i>IEEE Transactions on Industrial Informatics</i> , 2015 , 11, 1378-1387	11.9	84
73	Integrated photovoltaic-grid dc fast charging system for electric vehicle: A review of the architecture and control. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 69, 1243-1257	16.2	78
72	. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 2151-2161	11.9	72
71	An Effective Hybrid Maximum Power Point Tracker of Photovoltaic Arrays for Complex Partial Shading Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6990-7000	8.9	62
70	A rule-based energy management scheme for uninterrupted electric vehicles charging at constant price using photovoltaic-grid system. <i>Renewable Energy</i> , 2018 , 125, 384-400	8.1	54
69	A critical review of electric vehicle charging using solar photovoltaic. <i>International Journal of Energy Research</i> , 2016 , 40, 439-461	4.5	51
68	An Accurate and Fast Computational Algorithm for the Two-diode Model of PV Module Based on a Hybrid Method. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6212-6222	8.9	50
67	Modified phyto-waste Terminalia catappa fruit shells: a reusable adsorbent for the removal of micropollutant diclofenac. <i>RSC Advances</i> , 2015 , 5, 30950-30962	3.7	49
66	A modified differential evolution based maximum power point tracker for photovoltaic system under partial shading condition. <i>Energy and Buildings</i> , 2015 , 103, 175-184	7	43
65	Optimized sizing of photovoltaic grid-connected electric vehicle charging system using particle swarm optimization. <i>International Journal of Energy Research</i> , 2019 , 43, 500-522	4.5	42
64	Design and implementation of 15-level cascaded multi-level voltage source inverter with harmonics elimination pulse-width modulation using differential evolution method. <i>IET Power Electronics</i> , 2015 , 8, 1740-1748	2.2	36
63	Design and Implementation of New Multilevel Inverter Topology for Trinary Sequence Using Unipolar Pulsewidth Modulation. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3573-3582	8.9	32

62	A High-Performance Global Maximum Power Point Tracker of PV System for Rapidly Changing Partial Shading Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2236-2245	8.9	30
61	A soft computing MPPT for PV system based on Cuckoo Search algorithm 2013 ,		29
60	Analysis and design of a high efficiency bidirectional DCDC converter for battery and ultracapacitor applications. <i>Simulation Modelling Practice and Theory</i> , 2011 , 19, 1651-1667	3.9	29
59	Maximum Power Point Tracking for PV system under partial shading condition via particle swarm optimization 2011 ,		28
58	A Simple and Effective Method to Estimate the Model Parameters of Dielectric Barrier Discharge Ozone Chamber. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 1676-1683	5.2	26
57	A study on large scale cultivation of <i>Microcystis aeruginosa</i> under open raceway pond at semi-continuous mode for biodiesel production. <i>Bioresource Technology</i> , 2014 , 172, 186-193	11	24
56	Electric Vehicle Charging Using Photovoltaic based Microgrid for Remote Islands. <i>Energy Procedia</i> , 2016 , 103, 213-218	2.3	22
55	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 5416-5427	8.9	20
54	A High-Gain, High-Efficiency Nonisolated Bidirectional DCDC Converter With Sustained ZVS Operation. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 7829-7840	8.9	18
53	A Comprehensive Overview of Electric Vehicle Charging using Renewable Energy. <i>International Journal of Power Electronics and Drive Systems</i> , 2016 , 7, 114	1.5	15
52	Risk Assessment of Polluted Glass Insulator Using Leakage Current Index Under Different Operating Conditions. <i>IEEE Access</i> , 2020 , 8, 175827-175839	3.5	14
51	Application of particle swarm optimization for maximum power point tracking of PV system with direct control method 2011 ,		13
50	Parameter extraction of photovoltaic cell using differential evolution method 2011 ,		13
49	The Leakage Current Components as a Diagnostic Tool to Estimate Contamination Level on High Voltage Insulators. <i>IEEE Access</i> , 2020 , 1-1	3.5	12
48	Design and implementation of a high-frequency LC-based half-bridge resonant converter for dielectric barrier discharge ozone generator. <i>IET Power Electronics</i> , 2014 , 7, 2403-2411	2.2	12
47	Recent developments of MPPT techniques for PV systems under partial shading conditions: a critical review and performance evaluation. <i>IET Renewable Power Generation</i> , 2020 , 14, 3401-3417	2.9	12
46	A New Hybrid Multilevel Inverter Topology with Reduced Switch Count and dc Voltage Sources. <i>Energies</i> , 2019 , 12, 977	3.1	10
45	Critical evaluation of soft computing methods for maximum power point tracking algorithms of photovoltaic systems. <i>International Journal of Power Electronics and Drive Systems</i> , 2019 , 10, 548	1.5	9

44	Study on the effectiveness of lightning rod tips in capturing lightning leaders. <i>Electrical Engineering</i> , 2013 , 95, 367-381	1.5	7
43	A high power density soft switching bidirectional converter using unified resonant circuit 2015 ,		7
42	Comprehensive Design and Propagation Study of a Compact Dual Band Antenna for Healthcare Applications. <i>Journal of Sensor and Actuator Networks</i> , 2015 , 4, 50-66	3.8	7
41	Space vector PWM technique for a novel three-to-seven phase matrix converter 2013 ,		7
40	Design and implementation of a low cost, high yield dielectric barrier discharge ozone generator based on the single switch resonant converter. <i>IET Power Electronics</i> , 2013 , 6, 1583-1591	2.2	7
39	Image based surface damage detection of renewable energy installations using a unified deep learning approach. <i>Energy Reports</i> , 2021 , 7, 4566-4576	4.6	7
38	Analysis and experimental validation of partial shading mitigation in photovoltaic system using integrated dc/dc converter with maximum power point tracker. <i>IET Renewable Power Generation</i> , 2019 , 13, 2356-2366	2.9	6
37	Asymmetrical multilevel inverter topology with reduced power semiconductor devices 2016 ,		6
36	Common-mode voltage elimination in a three-to-seven phase dual matrix converter feeding a seven phase open-end induction motor drive 2014 ,		6
35	Assessment of maximum power point trackers performance using direct and indirect control methods. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12565	2.2	6
34	A skipping adaptive P&O MPPT for fast and efficient tracking under partial shading in PV arrays. <i>International Transactions on Electrical Energy Systems</i> , 2021 , 31, e13017	2.2	6
33	The effect of soil ionization on transient grounding electrode resistance in non-homogeneous soil conditions. <i>International Transactions on Electrical Energy Systems</i> , 2016 , 26, 1462-1475	2.2	6
32	An accurate two diode model computation for CIS thin film PV module using the hybrid approach 2015 ,		5
31	Dielectric Barrier Discharge Ozonizer Using the Transformerless Single-Switch Resonant Converter for Portable Applications. <i>IEEE Transactions on Industry Applications</i> , 2014 , 50, 2197-2206	4.3	5
30	Analysis of Online Lyapunov-Based Adaptive State of Charge Observer for Lithium-Ion Batteries Under Low Excitation Level. <i>IEEE Access</i> , 2020 , 8, 178805-178815	3.5	5
29	Charging of Electric Vehicle with Constant Price Using Photovoltaic Based Grid-connected System 2016 ,		5
28	Exergy based evaluation of power plants for sustainability and economic performance identification. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101393	5.6	5
27	An adaptive P&O MPPT using a sectionalized piece-wise linear P-V curve 2015 ,		4

26	HEPWM implementation for fifteen level cascaded inverter using field programmable gate array 2014,		4
25	An improved asymmetrical multi-level inverter topology with boosted output voltage and reduced components count. <i>IET Power Electronics</i> , 2021 , 14, 2052-2066	2.2	4
24	A high gain soft switching non-isolated bidirectional DC-DC converter 2016,		4
23	Modifications to Accelerate the Iterative Algorithm for the Two-diode Model of PV Module 2018,		4
22	A Simple yet Fully Adaptive PSO Algorithm for Global Peak Tracking of Photovoltaic Array Under Partial Shading Conditions. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	4
21	Hardware Approach to Mitigate the Effects of Module Mismatch in a Grid-connected Photovoltaic System: A Review. <i>Energies</i> , 2019 , 12, 4321	3.1	3
20	SiC power devices and applications in quasi-z-source converters/inverters 2015,		3
19	Two-diode model for parameters extraction of photovoltaic module under temperature variation. <i>IEICE Electronics Express</i> , 2015 , 12, 20150492-20150492	0.5	3
18	Efficiency for photovoltaic inverter: A technological review 2014,		3
17	Hardware Implementation of the High Frequency Link Inverter Using the dSPACE DS1104 Digital Signal Processing Board 2006,		3
16	A Rule-based Power Management Controller using Stateflow for Grid-Connected PV-Battery Energy System supplying Household load 2018,		3
15	A review on machine learning and deep learning for various antenna design applications.. <i>Heliyon</i> , 2022 , 8, e09317	3.6	3
14	An adaptive sliding mode control technique applied in grid-connected PV system with reduced chattering effect 2017,		2
13	A fast MPPT technique based on I-V curve characteristics under partial shading 2017,		2
12	Soft computing-based harmonic elimination PWM techniques for multi-level voltage source inverter 2014,		2
11	Using Differential Evolution to Solve the Harmonic Elimination Pulse Width Modulation for Five Level Cascaded Multilevel Voltage Source Inverter 2013,		2
10	An Analysis and Modeling of the Class-E Inverter for ZVS/ZVDS at Any Duty Ratio with High Input Ripple Current. <i>Electronics (Switzerland)</i> , 2021 , 10, 1312	2.6	2
9	Intelligent Machine Learning With Evolutionary Algorithm Based Short Term Load Forecasting in Power Systems. <i>IEEE Access</i> , 2021 , 9, 100113-100124	3.5	2

8	A Comparative Performance Analysis of Zero Voltage Switching Class E and Selected Enhanced Class E Inverters. <i>Electronics (Switzerland)</i> , 2021 , 10, 2226	2.6	2
7	Methodology to Determine Photovoltaic Inverter Conversion Efficiency for the Equatorial Region. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 201	2.6	1
6	Real time implementation of space vector pulse width modulation for three level neutral point clamped (NPC) inverter using Arduino DUE board 2017 ,		1
5	Dual matrix converters based seven-phase open-end winding drive 2014 ,		1
4	An Improved Approach to Enhance Training Performance of ANN and the Prediction of PV Power for Any Time-Span without the Presence of Real-Time Weather Data. <i>Sustainability</i> , 2021 , 13, 11893	3.6	1
3	A Comparative Analysis of Soft Switching Techniques in Reducing the Energy Loss and Improving the Soft Switching Range in Power Converters. <i>Electronics (Switzerland)</i> , 2022 , 11, 1062	2.6	1
2	Solution of Economic Dispatch Problem Using Hybrid Multi-Verse Optimizer. <i>Electric Power Systems Research</i> , 2022 , 208, 107912	3.5	1
1	Mitigation of mismatch power loss in aged photovoltaic arrays following a comparative investigation into module rearrangement techniques. <i>Energy Reports</i> , 2022 , 8, 1896-1906	4.6	0