

Ratil Ashique

List of Publications by Year in descending order

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papers

3,759
citations

186265

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155660

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87
docs citations

87
times ranked

3084
citing authors

#	ARTICLE	IF	CITATIONS
1	A Simple Yet Fully Adaptive PSO Algorithm for Global Peak Tracking of Photovoltaic Array Under Partial Shading Conditions. IEEE Transactions on Industrial Electronics, 2022, 69, 5922-5930.	7.9	18
2	Mitigation of mismatch power loss in aged photovoltaic arrays following a comparative investigation into module rearrangement techniques. Energy Reports, 2022, 8, 1896-1906.	5.1	8
3	A Comparative Analysis of Soft Switching Techniques in Reducing the Energy Loss and Improving the Soft Switching Range in Power Converters. Electronics (Switzerland), 2022, 11, 1062.	3.1	7
4	Solution of Economic Dispatch Problem Using Hybrid Multi-Verse Optimizer. Electric Power Systems Research, 2022, 208, 107912.	3.6	10
5	A review on machine learning and deep learning for various antenna design applications. Heliyon, 2022, 8, e09317.	3.2	28
6	A High-Performance Global Maximum Power Point Tracker of PV System for Rapidly Changing Partial Shading Conditions. IEEE Transactions on Industrial Electronics, 2021, 68, 2236-2245.	7.9	53
7	Intelligent Machine Learning With Evolutionary Algorithm Based Short Term Load Forecasting in Power Systems. IEEE Access, 2021, 9, 100113-100124.	4.2	10
8	An improved asymmetrical multi-level inverter topology with boosted output voltage and reduced components count. IET Power Electronics, 2021, 14, 2052-2066.	2.1	21
9	An Analysis and Modeling of the Class-E Inverter for ZVS/ZVDS at Any Duty Ratio with High Input Ripple Current. Electronics (Switzerland), 2021, 10, 1312.	3.1	5
10	Adaptive P&O MPPT for fast and efficient tracking under partial shading in PV arrays. International Transactions on Electrical Energy Systems, 2021, 31, e13017.	1.9	14
11	A Comparative Performance Analysis of Zero Voltage Switching Class E and Selected Enhanced Class E Inverters. Electronics (Switzerland), 2021, 10, 2226.	3.1	2
12	Image based surface damage detection of renewable energy installations using a unified deep learning approach. Energy Reports, 2021, 7, 4566-4576.	5.1	33
13	Exergy based evaluation of power plants for sustainability and economic performance identification. Case Studies in Thermal Engineering, 2021, 28, 101393.	5.7	12
14	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. Sustainability, 2021, 13, 11893.	3.2	5
15	Q Slot Terahertz (THz) Novel Antenna Design for Wireless Communication. , 2021, , .		1
16	Review of Market Clearing Method for Blockchain-Based P2P Energy Trading in Microgrid. , 2021, , .		1
17	Cascaded 3-Stage Nuclei Segmentation Using U-net, Faster-RCNN and SegNet for Higher Precision. , 2021, , .		2
18	Design and Implementation of New Multilevel Inverter Topology for Trinary Sequence Using Unipolar Pulsewidth Modulation. IEEE Transactions on Industrial Electronics, 2020, 67, 3573-3582.	7.9	55

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19	Risk Assessment of Polluted Glass Insulator Using Leakage Current Index Under Different Operating Conditions. IEEE Access, 2020, 8, 175827-175839.	4.2	36
20	Analysis of Online Lyapunov-Based Adaptive State of Charge Observer for Lithium-Ion Batteries Under Low Excitation Level. IEEE Access, 2020, 8, 178805-178815.	4.2	7
21	Assessment of maximum power point trackers performance using direct and indirect control methods. International Transactions on Electrical Energy Systems, 2020, 30, e12565.	1.9	17
22	The Leakage Current Components as a Diagnostic Tool to Estimate Contamination Level on High Voltage Insulators. IEEE Access, 2020, , 1-1.	4.2	37
23	Methodology to Determine Photovoltaic Inverter Conversion Efficiency for the Equatorial Region. Applied Sciences (Switzerland), 2020, 10, 201.	2.5	2
24	Recent developments of MPPT techniques for PV systems under partial shading conditions: a critical review and performance evaluation. IET Renewable Power Generation, 2020, 14, 3401-3417.	3.1	46
25	Hardware Approach to Mitigate the Effects of Module Mismatch in a Grid-connected Photovoltaic System: A Review. Energies, 2019, 12, 4321.	3.1	7
26	Analysis and experimental validation of partial shading mitigation in photovoltaic system using integrated dc-dc converter with maximum power point tracker. IET Renewable Power Generation, 2019, 13, 2356-2366.	3.1	12
27	A New Hybrid Multilevel Inverter Topology with Reduced Switch Count and dc Voltage Sources. Energies, 2019, 12, 977.	3.1	16
28	An Improved Evolutionary Programming (IEP) Method Under the EN 50530 Dynamic MPPT Efficiency Test. , 2019, , .		2
29	Optimized sizing of photovoltaic grid-connected electric vehicle charging system using particle swarm optimization. International Journal of Energy Research, 2019, 43, 500-522.	4.5	69
30	An Effective Hybrid Maximum Power Point Tracker of Photovoltaic Arrays for Complex Partial Shading Conditions. IEEE Transactions on Industrial Electronics, 2019, 66, 6990-7000.	7.9	118
31	Critical evaluation of soft computing methods for maximum power point tracking algorithms of photovoltaic systems. International Journal of Power Electronics and Drive Systems, 2019, 10, 548.	0.6	14
32	A rule-based energy management scheme for uninterrupted electric vehicles charging at constant price using photovoltaic-grid system. Renewable Energy, 2018, 125, 384-400.	8.9	96
33	A High-Gain, High-Efficiency Nonisolated Bidirectional DC-DC Converter With Sustained ZVS Operation. IEEE Transactions on Industrial Electronics, 2018, 65, 7829-7840.	7.9	37
34	INVESTIGATION AND MODELLING OF LOAD SHEDDING AND ITS MITIGATION USING HYBRID RENEWABLE ENERGY SYSTEM. , 2018, , .		3
35	Modifications to Accelerate the Iterative Algorithm for the Two-diode Model of PV Module. , 2018, , .		5
36	A Rule-based Power Management Controller using Stateflow for Grid-Connected PV-Battery Energy System supplying Household load. , 2018, , .		8

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37	A Family of True Zero Voltage Zero Current Switching (ZVZCS) Nonisolated Bidirectional DC-DC Converter With Wide Soft Switching Range. IEEE Transactions on Industrial Electronics, 2017, 64, 5416-5427.	7.9	39
38	An Accurate Method for MPPT to Detect the Partial Shading Occurrence in a PV System. IEEE Transactions on Industrial Informatics, 2017, 13, 2151-2161.	11.3	105
39	An Accurate and Fast Computational Algorithm for the Two-diode Model of PV Module Based on a Hybrid Method. IEEE Transactions on Industrial Electronics, 2017, 64, 6212-6222.	7.9	70
40	Integrated photovoltaic-grid dc fast charging system for electric vehicle: A review of the architecture and control. Renewable and Sustainable Energy Reviews, 2017, 69, 1243-1257.	16.4	117
41	An adaptive sliding mode control technique applied in grid-connected PV system with reduced chattering effect. , 2017, , .		4
42	A fast MPPT technique based on I-V curve characteristics under partial shading. , 2017, , .		4
43	Real time implementation of space vector pulse width modulation for three level neutral point clamped (NPC) inverter using Arduino DUE board. , 2017, , .		2
44	The effect of soil ionization on transient grounding electrode resistance in non-homogeneous soil conditions. International Transactions on Electrical Energy Systems, 2016, 26, 1462-1475.	1.9	9
45	Charging of Electric Vehicle with Constant Price Using Photovoltaic Based Grid-connected System. , 2016, , .		10
46	A high gain soft switching non-isolated bidirectional DC-DC converter. , 2016, , .		6
47	Electric Vehicle Charging Using Photovoltaic based Microgrid for Remote Islands. Energy Procedia, 2016, 103, 213-218.	1.8	37
48	A Modified P&O Maximum Power Point Tracking Method With Reduced Steady-State Oscillation and Improved Tracking Efficiency. IEEE Transactions on Sustainable Energy, 2016, 7, 1506-1515.	8.8	304
49	Asymmetrical multilevel inverter topology with reduced power semiconductor devices. , 2016, , .		8
50	A critical review of electric vehicle charging using solar photovoltaic. International Journal of Energy Research, 2016, 40, 439-461.	4.5	83
51	Electric vehicles charging using photovoltaic: Status and technological review. Renewable and Sustainable Energy Reviews, 2016, 54, 34-47.	16.4	189
52	A Comprehensive Overview of Electric Vehicle Charging using Renewable Energy. International Journal of Power Electronics and Drive Systems, 2016, 7, 114.	0.6	27
53	SiC power devices and applications in quasi-z-source converters/inverters. , 2015, , .		8
54	Two-diode model for parameters extraction of photovoltaic module under temperature variation. IEICE Electronics Express, 2015, 12, 20150492-20150492.	0.8	3

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55	A high power density soft switching bidirectional converter using unified resonant circuit. , 2015, , .		9
56	Comprehensive Design and Propagation Study of a Compact Dual Band Antenna for Healthcare Applications. Journal of Sensor and Actuator Networks, 2015, 4, 50-66.	3.9	10
57	An adaptive P&O MPPT using a sectionalized piece-wise linear P-V curve. , 2015, , .		10
58	An Improved Method to Predict the Position of Maximum Power Point During Partial Shading for PV Arrays. IEEE Transactions on Industrial Informatics, 2015, 11, 1378-1387.	11.3	108
59	An accurate two diode model computation for CIS thin film PV module using the hybrid approach. , 2015, , .		8
60	A modified differential evolution based maximum power point tracker for photovoltaic system under partial shading condition. Energy and Buildings, 2015, 103, 175-184.	6.7	54
61	Modified phyto-waste Terminalia catappa fruit shells: a reusable adsorbent for the removal of micropollutant diclofenac. RSC Advances, 2015, 5, 30950-30962.	3.6	61
62	Design and implementation of 15-level cascaded multi-level voltage source inverter with harmonics elimination pulse-width modulation using differential evolution method. IET Power Electronics, 2015, 8, 1740-1748.	2.1	53
63	Dual matrix converters based seven-phase open-end winding drive. , 2014, , .		2
64	Efficiency for photovoltaic inverter: A technological review. , 2014, , .		8
65	Model predictive control of a direct three-to-seven phase matrix converter. , 2014, , .		2
66	Dielectric Barrier Discharge Ozonizer Using the Transformerless Single-Switch Resonant Converter for Portable Applications. IEEE Transactions on Industry Applications, 2014, 50, 2197-2206.	4.9	10
67	Common-mode voltage elimination in a three-to-seven phase dual matrix converter feeding a seven phase open-end induction motor drive. , 2014, , .		8
68	Space vector control of dual matrix converters based five-phase open-end winding drive. , 2014, , .		3
69	HEPWM implementation for fifteen level cascaded inverter using field programmable gate array. , 2014, , .		4
70	Soft computing-based harmonic elimination PWM techniques for multi-level voltage source inverter. , 2014, , .		3
71	Design and implementation of a high-frequency LC-based half-bridge resonant converter for dielectric barrier discharge ozone generator. IET Power Electronics, 2014, 7, 2403-2411.	2.1	15
72	A Maximum Power Point Tracking (MPPT) for PV system using Cuckoo Search with partial shading capability. Applied Energy, 2014, 119, 118-130.	10.1	471

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73	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.	9.6	28
74	Study on the effectiveness of lightning rod tips in capturing lightning leaders. <i>Electrical Engineering</i> , 2013, 95, 367-381.	2.0	14
75	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.	16.4	488
76	A soft computing MPPT for PV system based on Cuckoo Search algorithm. , 2013, , .		48
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.	10.1	320
78	Space vector PWM technique for a direct five-to-three-phase matrix converter. , 2013, , .		5
79	Space vector PWM technique for a novel three-to-seven phase matrix converter. , 2013, , .		10
80	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.	2.1	11
81	Using Differential Evolution to Solve the Harmonic Elimination Pulse Width Modulation for Five Level Cascaded Multilevel Voltage Source Inverter. , 2013, , .		6
82	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.	4.7	33
83	Parameter extraction of photovoltaic cell using differential evolution method. , 2011, , .		20
84	Application of particle swarm optimization for maximum power point tracking of PV system with direct control method. , 2011, , .		18
85	Maximum Power Point Tracking for PV system under partial shading condition via particle swarm optimization. , 2011, , .		35
86	Analysis and design of a high efficiency bidirectional DC-DC converter for battery and ultracapacitor applications. <i>Simulation Modelling Practice and Theory</i> , 2011, 19, 1651-1667.	3.8	35
87	Hardware Implementation of the High Frequency Link Inverter Using the dSPACE DS1104 Digital Signal Processing Board. , 2006, , .		7