

Ratil Ashique

List of Publications by Year in descending order

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87
papers

3,759
citations

186254

28
h-index

155644

55
g-index

87
all docs

87
docs citations

87
times ranked

3084
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A Maximum Power Point Tracking (MPPT) for PV system using Cuckoo Search with partial shading capability. <i>Applied Energy</i> , 2014, 119, 118-130.	10.1	471
3	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
4	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.	8.8	304
5	Electric vehicles charging using photovoltaic: Status and technological review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 34-47.	16.4	189
6	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.	7.9	118
7	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.	16.4	117
8	An Improved Method to Predict the Position of Maximum Power Point During Partial Shading for PV Arrays. <i>IEEE Transactions on Industrial Informatics</i> , 2015, 11, 1378-1387.	11.3	108
9	An Accurate Method for MPPT to Detect the Partial Shading Occurrence in a PV System. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 2151-2161.	11.3	105
10	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.	8.9	96
11	A critical review of electric vehicle charging using solar photovoltaic. <i>International Journal of Energy Research</i> , 2016, 40, 439-461.	4.5	83
12	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.	7.9	70
13	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	69
14	Modified phyto-waste <i>Terminalia catappa</i> fruit shells: a reusable adsorbent for the removal of micropollutant diclofenac. <i>RSC Advances</i> , 2015, 5, 30950-30962.	3.6	61
15	Design and Implementation of New Multilevel Inverter Topology for Ternary Sequence Using Unipolar Pulsewidth Modulation. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 3573-3582.	7.9	55
16	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.	6.7	54
17	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.	2.1	53
18	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.	7.9	53

#	ARTICLE	IF	CITATIONS
19	A soft computing MPPT for PV system based on Cuckoo Search algorithm. , 2013, , .		48
20	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
21	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
22	Electric Vehicle Charging Using Photovoltaic based Microgrid for Remote Islands. Energy Procedia, 2016, 103, 213-218.	1.8	37
23	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
24	The Leakage Current Components as a Diagnostic Tool to Estimate Contamination Level on High Voltage Insulators. IEEE Access, 2020, , 1-1.	4.2	37
25	Risk Assessment of Polluted Glass Insulator Using Leakage Current Index Under Different Operating Conditions. IEEE Access, 2020, 8, 175827-175839.	4.2	36
26	Maximum Power Point Tracking for PV system under partial shading condition via particle swarm optimization. , 2011, , .		35
27	Analysis and design of a high efficiency bidirectional DC-DC converter for battery and ultracapacitor applications. Simulation Modelling Practice and Theory, 2011, 19, 1651-1667.	3.8	35
28	A Simple and Effective Method to Estimate the Model Parameters of Dielectric Barrier Discharge Ozone Chamber. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1676-1683.	4.7	33
29	Image based surface damage detection of renewable energy installations using a unified deep learning approach. Energy Reports, 2021, 7, 4566-4576.	5.1	33
30	A study on large scale cultivation of Microcystis aeruginosa under open raceway pond at semi-continuous mode for biodiesel production. Bioresource Technology, 2014, 172, 186-193.	9.6	28
31	A review on machine learning and deep learning for various antenna design applications. Heliyon, 2022, 8, e09317.	3.2	28
32	A Comprehensive Overview of Electric Vehicle Charging using Renewable Energy. International Journal of Power Electronics and Drive Systems, 2016, 7, 114.	0.6	27
33	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
34	Parameter extraction of photovoltaic cell using differential evolution method. , 2011, , .		20
35	Application of particle swarm optimization for maximum power point tracking of PV system with direct control method. , 2011, , .		18
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	A New Hybrid Multilevel Inverter Topology with Reduced Switch Count and dc Voltage Sources. Energies, 2019, 12, 977.	3.1	16
39	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
40	Study on the effectiveness of lightning rod tips in capturing lightning leaders. Electrical Engineering, 2013, 95, 367-381.	2.0	14
41	<sc>A</sc> skipping adaptive P&O MPPT for fast and efficient tracking under partial shading in <sc>PV</sc> arrays. International Transactions on Electrical Energy Systems, 2021, 31, e13017.	1.9	14
42	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
43	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
44	Exergy based evaluation of power plants for sustainability and economic performance identification. Case Studies in Thermal Engineering, 2021, 28, 101393.	5.7	12
45	Design and implementation of a low cost, high yield dielectric barrier discharge ozone generator based on the single switch resonant converter. IET Power Electronics, 2013, 6, 1583-1591.	2.1	11
46	Space vector PWM technique for a novel three-to-seven phase matrix converter. , 2013, , .		10
47	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
48	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
49	An adaptive P&O MPPT using a sectionalized piece-wise linear P-V curve. , 2015, , .		10
50	Charging of Electric Vehicle with Constant Price Using Photovoltaic Based Grid-connected System. , 2016, , .		10
51	Intelligent Machine Learning With Evolutionary Algorithm Based Short Term Load Forecasting in Power Systems. IEEE Access, 2021, 9, 100113-100124.	4.2	10
52	Solution of Economic Dispatch Problem Using Hybrid Multi-Verse Optimizer. Electric Power Systems Research, 2022, 208, 107912.	3.6	10
53	A high power density soft switching bidirectional converter using unified resonant circuit. , 2015, , .		9
54	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

#	ARTICLE	IF	CITATIONS
55	Efficiency for photovoltaic inverter: A technological review. , 2014, , .		8
56	Common-mode voltage elimination in a three-to-seven phase dual matrix converter feeding a seven phase open-end induction motor drive. , 2014, , .		8
57	SiC power devices and applications in quasi-z-source converters/inverters. , 2015, , .		8
58	An accurate two diode model computation for CIS thin film PV module using the hybrid approach. , 2015, , .		8
59	Asymmetrical multilevel inverter topology with reduced power semiconductor devices. , 2016, , .		8
60	A Rule-based Power Management Controller using Stateflow for Grid-Connected PV-Battery Energy System supplying Household load. , 2018, , .		8
61	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
62	Hardware Implementation of the High Frequency Link Inverter Using the dSPACE DS1104 Digital Signal Processing Board. , 2006, , .		7
63	Hardware Approach to Mitigate the Effects of Module Mismatch in a Grid-connected Photovoltaic System: A Review. Energies, 2019, 12, 4321.	3.1	7
64	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
65	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
66	Using Differential Evolution to Solve the Harmonic Elimination Pulse Width Modulation for Five Level Cascaded Multilevel Voltage Source Inverter. , 2013, , .		6
67	A high gain soft switching non-isolated bidirectional DC-DC converter. , 2016, , .		6
68	Space vector PWM technique for a direct five-to-three-phase matrix converter. , 2013, , .		5
69	Modifications to Accelerate the Iterative Algorithm for the Two-diode Model of PV Module. , 2018, , .		5
70	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
71	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
72	HEPWM implementation for fifteen level cascaded inverter using field programmable gate array. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
73	An adaptive sliding mode control technique applied in grid-connected PV system with reduced chattering effect. , 2017, , .		4
74	A fast MPPT technique based on I-V curve characteristics under partial shading. , 2017, , .		4
75	Space vector control of dual matrix converters based five-phase open-end winding drive. , 2014, , .		3
76	Soft computing-based harmonic elimination PWM techniques for multi-level voltage source inverter. , 2014, , .		3
77	Two-diode model for parameters extraction of photovoltaic module under temperature variation. IEICE Electronics Express, 2015, 12, 20150492-20150492.	0.8	3
78	INVESTIGATION AND MODELLING OF LOAD SHEDDING AND ITS MITIGATION USING HYBRID RENEWABLE ENERGY SYSTEM. , 2018, , .		3
79	Dual matrix converters based seven-phase open-end winding drive. , 2014, , .		2
80	Model predictive control of a direct three-to-seven phase matrix converter. , 2014, , .		2
81	Real time implementation of space vector pulse width modulation for three level neutral point clamped (NPC) inverter using Arduino DUE board. , 2017, , .		2
82	An Improved Evolutionary Programming (IEP) Method Under the EN 50530 Dynamic MPPT Efficiency Test. , 2019, , .		2
83	Methodology to Determine Photovoltaic Inverter Conversion Efficiency for the Equatorial Region. Applied Sciences (Switzerland), 2020, 10, 201.	2.5	2
84	A Comparative Performance Analysis of Zero Voltage Switching Class E and Selected Enhanced Class E Inverters. Electronics (Switzerland), 2021, 10, 2226.	3.1	2
85	Cascaded 3-Stage Nuclei Segmentation Using U-net, Faster-RCNN and SegNet for Higher Precision. , 2021, , .		2
86	Q Slot Terahertz (THz) Novel Antenna Design for Wireless Communication. , 2021, , .		1
87	Review of Market Clearing Method for Blockchain-Based P2P Energy Trading in Microgrid. , 2021, , .		1