Mahrous Ahmed

List of Publications by Year
in descending order

34 papers	694 citations	623734 14 h-index	552781 26 g-index
35 all docs	35 docs citations	35 times ranked	601 citing authors

#	Article	IF	Citations
1	Three‐phase hybrid multilevel inverter with less power electronic components using space vector modulation. IET Power Electronics, 2014, 7, 1256-1265.	2.1	91
2	New Three-Phase Symmetrical Multilevel Voltage Source Inverter. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2015, 5, 430-442.	3.6	82
3	Real-Time Solution and Implementation of Selective Harmonic Elimination of Seven-Level Multilevel Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1700-1709.	5.4	69
4	A Single DC Source Nine-Level Switched-Capacitor Boost Inverter Topology With Reduced Switch Count. IEEE Access, 2020, 8, 5840-5851.	4.2	61
5	Study and Analysis of New Three-Phase Modular Multilevel Inverter. IEEE Transactions on Industrial Electronics, 2016, 63, 7804-7813.	7.9	39
6	A Single-stage High Boosting Ratio Converter for Grid-connected Photovoltaic Systems. Electric Power Components and Systems, 2013, 41, 896-911.	1.8	33
7	Current Status, Scenario, and Prospective of Renewable Energy in Algeria: A Review. Energies, 2021, 14, 2354.	3.1	33
8	General Mathematical Solution for Selective Harmonic Elimination. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 4440-4456.	5.4	32
9	Single-Phase Boost Switched-Capacitor-Based Multilevel Inverter Topology With Reduced Switching Devices. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4336-4346.	5.4	28
10	An Improved Heap-Based Optimizer for Optimal Reactive Power Dispatch. IEEE Access, 2021, 9, 58319-58336.	4.2	25
11	PWM Control Techniques for Single-Phase Multilevel Inverter Based Controlled DC Cells. Journal of Power Electronics, 2016, 16, 498-511.	1.5	18
12	Development of an Improved Bonobo Optimizer and Its Application for Solar Cell Parameter Estimation. Sustainability, 2021, 13, 3863.	3.2	17
13	Classification of Three-Phase Grid-Tied Microinverters in Photovoltaic Applications. Energies, 2020, 13, 2929.	3.1	15
14	Simple analytical solution for selective harmonic elimination technique. Electronics Letters, 2016, 52, 749-751.	1.0	14
15	Improved Proportional-Integral Coordinated MPPT Controller with Fast Tracking Speed for Grid-Tied PV Systems under Partially Shaded Conditions. Sustainability, 2021, 13, 830.	3.2	12
16	Transient Thermal Performance of Power Cable Ascertained Using Finite Element Analysis. Processes, 2021, 9, 438.	2.8	12
17	Energy Saving Maximization of Balanced and Unbalanced Distribution Power Systems via Network Reconfiguration and Optimum Capacitor Allocation Using a Hybrid Metaheuristic Algorithm. Energies, 2021, 14, 3205.	3.1	12
18	A Hybrid Optimization Algorithm for Solving of the Unit Commitment Problem Considering Uncertainty of the Load Demand. Energies, 2021, 14, 8014.	3.1	12

#	Article	IF	Citations
19	Three-phase multilevel inverter with high value of resolution per switch employing a space vector modulation control scheme. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 1993-2009.	1.4	11
20	The Impact of Coil Position and Number on Wireless System Performance for Electric Vehicle Recharging. Sensors, 2021, 21, 4343.	3.8	10
21	A Novel Machine Learning-Based Framework for Optimal and Secure Operation of Static VAR Compensators in EAFs. Sustainability, 2021, 13, 5777.	3.2	8
22	Reduced switches based three-phase multi-level inverter for grid integration. , 2015, , .		6
23	Selective harmonic elimination method for unequal DC sources of multilevel inverters. Automatika, 2019, 60, 378-384.	2.0	6
24	Design and Modeling of a Robust Sensorless Control System for a Linear Permanent Magnet Synchronous Motor. Electronics (Switzerland), 2021, 10, 966.	3.1	5
25	A novel approach for sizing battery storage system for enhancing resilience ability of a microgrid. International Transactions on Electrical Energy Systems, 2021, 31, e13142.	1.9	5
26	<scp>Selfâ€healing</scp> strategy to enhance microgrid resilience during faults occurrence. International Transactions on Electrical Energy Systems, 2021, 31, .	1.9	5
27	Reactive Power Management Based Hybrid GAEO. Sustainability, 2022, 14, 6933.	3.2	5
28	SMART HOME AUTOMATION AND SECURITY SYSTEM DESIGN BASED ON IOT APPLICATIONS. ASEAN Engineering Journal, 2019, 9, 57-71.	0.3	4
29	Analyses and simulation of three-phase MLI with high value of resolution per switch employing SVM control scheme. , 2012, , .		3
30	Deadbeat Current Controller Design for Multilevel Grid Connected Inverter. Energy Procedia, 2016, 100, 237-242.	1.8	3
31	Novel three phase multi-level inverter topology with symmetrical DC-voltage sources. , 2016, , .		3
32	Single-phase cascaded semi-Z-source inverter for photovoltaic applications. , 2018, , .		3
33	A New Single-Phase Asymmetrical Cascaded Multilevel DC-Link Inverter. Journal of Power Electronics, 2016, 16, 1504-1512.	1.5	3
34	Classical Control for Unequal DC Sources Five-Level Inverter-Based SHE Technique. Energies, 2020, 13, 4715.	3.1	1