

Mahrous Ahmed

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Single-Phase Boost Switched-Capacitor-Based Multilevel Inverter Topology With Reduced Switching Devices. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022, 10, 4336-4346.	5.4	28
2	Reactive Power Management Based Hybrid GAEO. <i>Sustainability</i> , 2022, 14, 6933.	3.2	5
3	Improved Proportional-Integral Coordinated MPPT Controller with Fast Tracking Speed for Grid-Tied PV Systems under Partially Shaded Conditions. <i>Sustainability</i> , 2021, 13, 830.	3.2	12
4	An Improved Heap-Based Optimizer for Optimal Reactive Power Dispatch. <i>IEEE Access</i> , 2021, 9, 58319-58336.	4.2	25
5	Transient Thermal Performance of Power Cable Ascertained Using Finite Element Analysis. <i>Processes</i> , 2021, 9, 438.	2.8	12
6	Development of an Improved Bonobo Optimizer and Its Application for Solar Cell Parameter Estimation. <i>Sustainability</i> , 2021, 13, 3863.	3.2	17
7	Design and Modeling of a Robust Sensorless Control System for a Linear Permanent Magnet Synchronous Motor. <i>Electronics (Switzerland)</i> , 2021, 10, 966.	3.1	5
8	Current Status, Scenario, and Prospective of Renewable Energy in Algeria: A Review. <i>Energies</i> , 2021, 14, 2354.	3.1	33
9	Energy Saving Maximization of Balanced and Unbalanced Distribution Power Systems via Network Reconfiguration and Optimum Capacitor Allocation Using a Hybrid Metaheuristic Algorithm. <i>Energies</i> , 2021, 14, 3205.	3.1	12
10	A Novel Machine Learning-Based Framework for Optimal and Secure Operation of Static VAR Compensators in EAFs. <i>Sustainability</i> , 2021, 13, 5777.	3.2	8
11	The Impact of Coil Position and Number on Wireless System Performance for Electric Vehicle Recharging. <i>Sensors</i> , 2021, 21, 4343.	3.8	10
12	A novel approach for sizing battery storage system for enhancing resilience ability of a microgrid. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e13142.	1.9	5
13	A Hybrid Optimization Algorithm for Solving of the Unit Commitment Problem Considering Uncertainty of the Load Demand. <i>Energies</i> , 2021, 14, 8014.	3.1	12
14	<sc>Self-Healing</sc> strategy to enhance microgrid resilience during faults occurrence. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, .	1.9	5
15	General Mathematical Solution for Selective Harmonic Elimination. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2020, 8, 4440-4456.	5.4	32
16	A Single DC Source Nine-Level Switched-Capacitor Boost Inverter Topology With Reduced Switch Count. <i>IEEE Access</i> , 2020, 8, 5840-5851.	4.2	61
17	Classical Control for Unequal DC Sources Five-Level Inverter-Based SHE Technique. <i>Energies</i> , 2020, 13, 4715.	3.1	1
18	Classification of Three-Phase Grid-Tied Microinverters in Photovoltaic Applications. <i>Energies</i> , 2020, 13, 2929.	3.1	15

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19	Selective harmonic elimination method for unequal DC sources of multilevel inverters. <i>Automatika</i> , 2019, 60, 378-384.	2.0	6
20	SMART HOME AUTOMATION AND SECURITY SYSTEM DESIGN BASED ON IOT APPLICATIONS. <i>ASEAN Engineering Journal</i> , 2019, 9, 57-71.	0.3	4
21	Single-phase cascaded semi-Z-source inverter for photovoltaic applications. , 2018, , .		3
22	Real-Time Solution and Implementation of Selective Harmonic Elimination of Seven-Level Multilevel Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017, 5, 1700-1709.	5.4	69
23	Three-phase multilevel inverter with high value of resolution per switch employing a space vector modulation control scheme. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2016, 24, 1993-2009.	1.4	11
24	Deadbeat Current Controller Design for Multilevel Grid Connected Inverter. <i>Energy Procedia</i> , 2016, 100, 237-242.	1.8	3
25	Study and Analysis of New Three-Phase Modular Multilevel Inverter. <i>IEEE Transactions on Industrial Electronics</i> , 2016, 63, 7804-7813.	7.9	39
26	Simple analytical solution for selective harmonic elimination technique. <i>Electronics Letters</i> , 2016, 52, 749-751.	1.0	14
27	Novel three phase multi-level inverter topology with symmetrical DC-voltage sources. , 2016, , .		3
28	PWM Control Techniques for Single-Phase Multilevel Inverter Based Controlled DC Cells. <i>Journal of Power Electronics</i> , 2016, 16, 498-511.	1.5	18
29	A New Single-Phase Asymmetrical Cascaded Multilevel DC-Link Inverter. <i>Journal of Power Electronics</i> , 2016, 16, 1504-1512.	1.5	3
30	Reduced switches based three-phase multi-level inverter for grid integration. , 2015, , .		6
31	New Three-Phase Symmetrical Multilevel Voltage Source Inverter. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2015, 5, 430-442.	3.6	82
32	Three-phase hybrid multilevel inverter with less power electronic components using space vector modulation. <i>IET Power Electronics</i> , 2014, 7, 1256-1265.	2.1	91
33	A Single-stage High Boosting Ratio Converter for Grid-connected Photovoltaic Systems. <i>Electric Power Components and Systems</i> , 2013, 41, 896-911.	1.8	33
34	Analyses and simulation of three-phase MLI with high value of resolution per switch employing SVM control scheme. , 2012, , .		3