

Meraj Mohammad

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

575
citations

15
h-index

21
g-index

57
ext. papers

986
ext. citations

4.3
avg, IF

4.72
L-index

#	Paper	IF	Citations
46	Improved power quality operation of symmetrical and asymmetrical multilevel inverter using invasive weed optimization technique. <i>Energy Reports</i> , 2022 , 8, 3323-3336	4.6	1
45	Modelling, analysis, and implementation of a switched-inductor based DC/DC converter with reduced switch current stress. <i>IET Power Electronics</i> , 2021 , 14, 1504-1514	2.2	1
44	A Hybrid Multilevel Inverter Scheme for Nine-Phase PPMIM Drive by Using Three-Phase Five-Leg Inverters. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1895-1904	8.9	6
43	A Single DC Source-Based Three-Level Inverter Topology for a Four-Pole Open-End Winding Nine-Phase PPMIM Drives. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 2750-2759	8.9	6
42	A Novel Modified Switched Inductor Boost Converter With Reduced Switch Voltage Stress. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 1275-1289	8.9	28
41	High Gain Switched-Inductor-Double-Leg Converter With Wide Duty Range for DC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 9561-9573	8.9	7
40	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 4766-4777	7.2	6
39	Novel Level Shifted PWM Technique for Unequal and Equal Power Sharing in Quasi Z-Source Cascaded Multilevel Inverter for PV Systems. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 937-948	5.6	12
38	Dynamic Modelling and Control of Pole-phase Modulation based Multiphase Induction Motor Drives. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	1
37	Transformer-less Boost Converter with Reduced Voltage Stress for High Voltage Step-Up Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	6
36	Non-Isolated DCDC Power Converter With High Gain and Inverting Capability. <i>IEEE Access</i> , 2021 , 9, 62084-62094	3.5	2094
35	Novel Level-Shifted PWM Technique for Cascaded Multilevel Quasi-Impedance Source Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 5918-5928	5.6	3
34	Modulation With Metaheuristic Approach for Cascaded-MPUC49 Asymmetrical Inverter With Boosted Output. <i>IEEE Access</i> , 2020 , 8, 96867-96877	3.5	12
33	Interleaved Multilevel Boost Converter With Minimal Voltage Multiplier Components for High-Voltage Step-Up Applications. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12816-12833	7.2	22
32	A Comprehensive Review of Power Flow Controllers in Interconnected Power System Networks. <i>IEEE Access</i> , 2020 , 8, 18036-18063	3.5	23
31	EK \square multilevel inverter \square minimal switch novel configuration for higher number of output voltage levels. <i>IET Power Electronics</i> , 2020 , 13, 2804-2815	2.2	3
30	High step-up single switch quadratic modified SEPIC converter for DC microgrid applications. <i>IET Power Electronics</i> , 2020 , 13, 3717-3726	2.2	7

29	Design and Implementation of Cascaded Multilevel qZSI Powered Single-Phase Induction Motor for Isolated Grid Water Pump Application. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 1907-1917	4.3	16
28	Single-Phase ZAC-Source AC/AC Converter With High Buck and Boost Voltage Conversion Capability. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9251-9259	8.9	5
27	Closed-Loop Control and Boundary for CCM and DCM of Nonisolated Inverting N ² Multilevel Boost Converter for High-Voltage Step-Up Applications. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 2863-2874	8.9	22
26	A New Variable Frequency Control of 49-Level Cascaded Packed U-Cell Voltage Source Inverter. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7537-7548	4.3	13
25	High Gain Transformer-Less Double-Duty-Triple-Mode DC/DC Converter for DC Microgrid. <i>IEEE Access</i> , 2019 , 7, 36353-36370	3.5	47
24	Novel voltage balancing algorithm for single-phase cascaded multilevel inverter for post-module failure operation in solar photovoltaic applications. <i>IET Renewable Power Generation</i> , 2019 , 13, 427-437	2.9	9
23	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 1352-1363	5.6	30
22	Nonisolated Symmetrical Interleaved Multilevel Boost Converter With Reduction in Voltage Rating of Capacitors for High-Voltage Microgrid Applications. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7410-7424	4.3	20
21	Experimental Investigation and Comparative Evaluation of Standard Level Shifted Multi-Carrier Modulation Schemes With a Constraint GA Based SHE Techniques for a Seven-Level PUC Inverter. <i>IEEE Access</i> , 2019 , 7, 100605-100617	3.5	11
20	High Brightness and High Voltage Dimmable LED Driver for Advanced Lighting System. <i>IEEE Access</i> , 2019 , 7, 95643-95652	3.5	5
19	A New Triple-Switch-Triple-Mode High Step-Up Converter With Wide Range of Duty Cycle for DC Microgrid Applications. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 7425-7441	4.3	21
18	Fault tolerant single-phase capacitor start capacitor run induction motor powered with cascaded multilevel quasi impedance source inverter. <i>Journal of Engineering</i> , 2019 , 2019, 4036-4040	0.7	0
17	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. <i>IEEE Access</i> , 2019 , 7, 89857-89868	3.5	36
16	New tri-switching state non-isolated high gain DC/DC boost converter for microgrid application. <i>IET Power Electronics</i> , 2019 , 12, 2741-2750	2.2	17
15	Modified multilevel buckBoost converter with equal voltage across each capacitor: analysis and experimental investigations. <i>IET Power Electronics</i> , 2019 , 12, 3318-3330	2.2	12
14	Optimized FPGA Implementation of PWM-Based Control of Three-Phase Nine-Level Quasi Impedance Source Inverter. <i>IEEE Access</i> , 2019 , 7, 137279-137290	3.5	3
13	High gain three-state switching hybrid boost converter for DC microgrid applications. <i>IET Power Electronics</i> , 2019 , 12, 3656-3667	2.2	6
12	A New Single Phase Single Switched-Capacitor Based Nine-Level Boost Inverter Topology With Reduced Switch Count and Voltage Stress. <i>IEEE Access</i> , 2019 , 7, 174178-174188	3.5	46

11	Dynamic mitigation of EV charging stations impact on active Distribution Networks with Distributed BESSs 2018,		1
10	2018,		2
9	DC-Transformer Modelling, Analysis and Comparison of the Experimental Investigation of a Non-Inverting and Non-Isolated Nx Multilevel Boost Converter (Nx MBC) for Low to High DC Voltage Applications. <i>IEEE Access</i> , 2018 , 6, 70935-70951	3.5	20
8	Evaluation of Level-Shifted and Phase-Shifted PWM Schemes for Seven Level Single-Phase Packed U Cell Inverter. <i>CPSS Transactions on Power Electronics and Applications</i> , 2018 , 3, 232-242	3.5	30
7	2017,		6
6	Thyristor based SVC and multilevel qZSI for Active and Reactive power management in solar PV system 2017,		4
5	Cascaded multilevel qZSI powered single-phase induction motor for water pump application 2017,		2
4	Design of a proportional resonant controller for packed U cell 5 level inverter for grid-connected applications 2016,		12
3	A hybrid active and reactive power control with Quasi Z-source inverter in single-phase grid-connected PV systems 2016,		5
2	Comparative analysis of carrier schemes for PWM in multilevel PUC inverter for PV applications 2016,		15
1	A high efficiency and high reliability single-phase modified quasi Z-Source inverter for non-isolated grid-connected applications 2015,		5