

# Meraj Mohammad

## List of Publications by Citations

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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	High Gain Transformer-Less Double-Duty-Triple-Mode DC/DC Converter for DC Microgrid. <i>IEEE Access</i> , <b>2019</b> , 7, 36353-36370	3.5	47
45	A New Single Phase Single Switched-Capacitor Based Nine-Level Boost Inverter Topology With Reduced Switch Count and Voltage Stress. <i>IEEE Access</i> , <b>2019</b> , 7, 174178-174188	3.5	46
44	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. <i>IEEE Access</i> , <b>2019</b> , 7, 89857-89868	3.5	36
43	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2019</b> , 7, 1352-1363	5.6	30
42	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> , <b>2018</b> , 3, 232-242	3.5	30
41	A Novel Modified Switched Inductor Boost Converter With Reduced Switch Voltage Stress. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 1275-1289	8.9	28
40	A Comprehensive Review of Power Flow Controllers in Interconnected Power System Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 18036-18063	3.5	23
39	Interleaved Multilevel Boost Converter With Minimal Voltage Multiplier Components for High-Voltage Step-Up Applications. <i>IEEE Transactions on Power Electronics</i> , <b>2020</b> , 35, 12816-12833	7.2	22
38	Closed-Loop Control and Boundary for CCM and DCM of Nonisolated Inverting N-Multilevel Boost Converter for High-Voltage Step-Up Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 2863-2874	8.9	22
37	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> , <b>2019</b> , 55, 7425-7441	4.3	21
36	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> , <b>2019</b> , 55, 7410-7424	4.3	20
35	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> , <b>2018</b> , 6, 70935-70951	3.5	20
34	New tri-switching state non-isolated high gain DCDC boost converter for microgrid application. <i>IET Power Electronics</i> , <b>2019</b> , 12, 2741-2750	2.2	17
33	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> , <b>2020</b> , 56, 1907-1917	4.3	16
32	Comparative analysis of carrier schemes for PWM in multilevel PUC inverter for PV applications <b>2016</b> ,		15
31	A New Variable Frequency Control of 49-Level Cascaded Packed U-Cell Voltage Source Inverter. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 7537-7548	4.3	13
30	Modulation With Metaheuristic Approach for Cascaded-MPUC49 Asymmetrical Inverter With Boosted Output. <i>IEEE Access</i> , <b>2020</b> , 8, 96867-96877	3.5	12

29	Modified multilevel buckBoost converter with equal voltage across each capacitor: analysis and experimental investigations. <i>IET Power Electronics</i> , <b>2019</b> , 12, 3318-3330	2.2	12
28	Design of a proportional resonant controller for packed U cell 5 level inverter for grid-connected applications <b>2016</b> ,		12
27	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> , <b>2021</b> , 9, 937-948	5.6	12
26	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> , <b>2019</b> , 7, 100605-100617	3.5	11
25	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> , <b>2019</b> , 13, 427-437	2.9	9
24	High step-up single switch quadratic modified SEPIC converter for DC microgrid applications. <i>IET Power Electronics</i> , <b>2020</b> , 13, 3717-3726	2.2	7
23	High Gain Switched-Inductor-Double-Leg Converter With Wide Duty Range for DC Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 9561-9573	8.9	7
22	<b>2017</b> ,		6
21	High gain three-state switching hybrid boost converter for DC microgrid applications. <i>IET Power Electronics</i> , <b>2019</b> , 12, 3656-3667	2.2	6
20	A Hybrid Multilevel Inverter Scheme for Nine-Phase PPMIM Drive by Using Three-Phase Five-Leg Inverters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 1895-1904	8.9	6
19	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> , <b>2021</b> , 68, 2750-2759	8.9	6
18	. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 4766-4777	7.2	6
17	Transformer-less Boost Converter with Reduced Voltage Stress for High Voltage Step-Up Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	6
16	High Brightness and High Voltage Dimmable LED Driver for Advanced Lighting System. <i>IEEE Access</i> , <b>2019</b> , 7, 95643-95652	3.5	5
15	A high efficiency and high reliability single-phase modified quasi Z-Source inverter for non-isolated grid-connected applications <b>2015</b> ,		5
14	Single-Phase ZAC-Source AC/AC Converter With High Buck and Boost Voltage Conversion Capability. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 9251-9259	8.9	5
13	A hybrid active and reactive power control with Quasi Z-source inverter in single-phase grid-connected PV systems <b>2016</b> ,		5
12	Thyristor based SVC and multilevel qZSI for Active and Reactive power management in solar PV system <b>2017</b> ,		4

11	Non-Isolated DCDC Power Converter With High Gain and Inverting Capability. <i>IEEE Access</i> , <b>2021</b> , 9, 62084-62092	3.5	3
10	Optimized FPGA Implementation of PWAM-Based Control of ThreePhase NineLevel Quasi Impedance Source Inverter. <i>IEEE Access</i> , <b>2019</b> , 7, 137279-137290	3.5	3
9	EK [multilevel inverter ] a minimal switch novel configuration for higher number of output voltage levels. <i>IET Power Electronics</i> , <b>2020</b> , 13, 2804-2815	2.2	3
8	Novel Level-Shifted PWM Technique for Cascaded Multilevel Quasi-Impedance Source Inverter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2021</b> , 9, 5918-5928	5.6	3
7	Cascaded multilevel qZSI powered single-phase induction motor for water pump application <b>2017</b> ,		2
6	<b>2018</b> ,		2
5	Dynamic mitigation of EV charging stations impact on active Distribution Networks with Distributed BESSs <b>2018</b> ,		1
4	Modelling, analysis, and implementation of a switched-inductor based DC/DC converter with reduced switch current stress. <i>IET Power Electronics</i> , <b>2021</b> , 14, 1504-1514	2.2	1
3	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> , <b>2021</b> , 1-1	5.6	1
2	Improved power quality operation of symmetrical and asymmetrical multilevel inverter using invasive weed optimization technique. <i>Energy Reports</i> , <b>2022</b> , 8, 3323-3336	4.6	1
1	Fault tolerant single-phase capacitor start capacitor run induction motor powered with cascaded multilevel quasi impedance source inverter. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 4036-4040	0.7	0