

Meraj Mohammad

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3370273/publications.pdf>

Version: 2024-02-01

57
papers

1,255
citations

361045

20
h-index

395343

33
g-index

57
all docs

57
docs citations

57
times ranked

714
citing authors

#	ARTICLE	IF	CITATIONS
1	A New Structure of High Voltage Gain SEPIC Converter for Renewable Energy Applications. IEEE Access, 2019, 7, 89857-89868.	2.6	99
2	High Gain Transformer-Less Double-Duty-Triple-Mode DC/DC Converter for DC Microgrid. IEEE Access, 2019, 7, 36353-36370.	2.6	97
3	A New Single Phase Single Switched-Capacitor Based Nine-Level Boost Inverter Topology With Reduced Switch Count and Voltage Stress. IEEE Access, 2019, 7, 174178-174188.	2.6	90
4	A Novel Modified Switched Inductor Boost Converter With Reduced Switch Voltage Stress. IEEE Transactions on Industrial Electronics, 2021, 68, 1275-1289.	5.2	86
5	Evaluation of Level-Shifted and Phase-Shifted PWM Schemes for Seven Level Single-Phase Packed U Cell Inverter. CPSS Transactions on Power Electronics and Applications, 2018, 3, 232-242.	2.9	59
6	Common Mode Voltage Reduction in a Single-Phase Quasi Z-Source Inverter for Transformerless Grid-Connected Solar PV Applications. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 1352-1363.	3.7	56
7	Interleaved Multilevel Boost Converter With Minimal Voltage Multiplier Components for High-Voltage Step-Up Applications. IEEE Transactions on Power Electronics, 2020, 35, 12816-12833.	5.4	46
8	Closed-Loop Control and Boundary for CCM and DCM of Nonisolated Inverting N -Level Boost Converter for High-Voltage Step-Up Applications. IEEE Transactions on Industrial Electronics, 2020, 67, 2863-2874.	5.2	44
9	A Comprehensive Review of Power Flow Controllers in Interconnected Power System Networks. IEEE Access, 2020, 8, 18036-18063.	2.6	43
10	A New Triple-Switch-Triple-Mode High Step-Up Converter With Wide Range of Duty Cycle for DC Microgrid Applications. IEEE Transactions on Industry Applications, 2019, 55, 7425-7441.	3.3	39
11	Nonisolated Symmetrical Interleaved Multilevel Boost Converter With Reduction in Voltage Rating of Capacitors for High-Voltage Microgrid Applications. IEEE Transactions on Industry Applications, 2019, 55, 7410-7424.	3.3	35
12	DC-Transformer Modelling, Analysis and Comparison of the Experimental Investigation of a Non-Inverting and Non-Isolated N Multilevel Boost Converter (N MBC) for Low to High DC Voltage Applications. IEEE Access, 2018, 6, 70935-70951.	2.6	34
13	New tri-state non-isolated high gain DC-DC boost converter for microgrid application. IET Power Electronics, 2019, 12, 2741-2750.	1.5	33
14	Novel Level Shifted PWM Technique for Unequal and Equal Power Sharing in Quasi Z-Source Cascaded Multilevel Inverter for PV Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 937-948.	3.7	32
15	A New Variable Frequency Control of 49-Level Cascaded Packed U-Cell Voltage Source Inverter. IEEE Transactions on Industry Applications, 2019, 55, 7537-7548.	3.3	30
16	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. IEEE Access, 2019, 7, 100605-100617.	2.6	29
17	Design and Implementation of Cascaded Multilevel qZSI Powered Single-Phase Induction Motor for Isolated Grid Water Pump Application. IEEE Transactions on Industry Applications, 2020, 56, 1907-1917.	3.3	29
18	High Gain Switched-Inductor-Double-Leg Converter With Wide Duty Range for DC Microgrid. IEEE Transactions on Industrial Electronics, 2021, 68, 9561-9573.	5.2	26

#	ARTICLE	IF	CITATIONS
19	High step-up single switch quadratic modified SEPIC converter for DC microgrid applications. IET Power Electronics, 2020, 13, 3717-3726.	1.5	23
20	Comparative analysis of carrier schemes for PWM in multilevel PUC inverter for PV applications. , 2016, , .		21
21	Novel Level-Shifted PWM Technique for Equal Power Sharing Among Quasi-Z-Source Modules in Cascaded Multilevel Inverter. IEEE Transactions on Power Electronics, 2021, 36, 4766-4777.	5.4	21
22	Modulation With Metaheuristic Approach for Cascaded-MPUC49 Asymmetrical Inverter With Boosted Output. IEEE Access, 2020, 8, 96867-96877.	2.6	20
23	High gain three-state switching hybrid boost converter for DC microgrid applications. IET Power Electronics, 2019, 12, 3656-3667.	1.5	19
24	Design of a proportional resonant controller for packed U cell 5 level inverter for grid-connected applications. , 2016, , .		17
25	Modified multilevel buck-boost converter with equal voltage across each capacitor: analysis and experimental investigations. IET Power Electronics, 2019, 12, 3318-3330.	1.5	17
26	Novel voltage balancing algorithm for single-phase cascaded multilevel inverter for post-module failure operation in solar photovoltaic applications. IET Renewable Power Generation, 2019, 13, 427-437.	1.7	16
27	Transformer-Less Boost Converter With Reduced Voltage Stress for High Voltage Step-Up Applications. IEEE Transactions on Industrial Electronics, 2022, 69, 1498-1508.	5.2	16
28	Non-Isolated DC-DC Power Converter With High Gain and Inverting Capability. IEEE Access, 2021, 9, 62084-62092.	2.6	15
29	A Hybrid Multilevel Inverter Scheme for Nine-Phase PPMIM Drive by Using Three-Phase Five-Leg Inverters. IEEE Transactions on Industrial Electronics, 2021, 68, 1895-1904.	5.2	13
30	High Brightness and High Voltage Dimmable LED Driver for Advanced Lighting System. IEEE Access, 2019, 7, 95643-95652.	2.6	12
31	Single-Phase Z _{AC} -Source AC-AC Converter With High Buck and Boost Voltage Conversion Capability. IEEE Transactions on Industrial Electronics, 2020, 67, 9251-9259.	5.2	11
32	A Single DC Source-Based Three-Level Inverter Topology for a Four-Pole Open-End Winding Nine-Phase PPMIM Drives. IEEE Transactions on Industrial Electronics, 2021, 68, 2750-2759.	5.2	11
33	Novel Level-Shifted PWM Technique for Cascaded Multilevel Quasi-Impedance Source Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5918-5928.	3.7	11
34	Improved power quality operation of symmetrical and asymmetrical multilevel inverter using invasive weed optimization technique. Energy Reports, 2022, 8, 3323-3336.	2.5	10
35	Failure mode analysis for single-phase Multi-level qZSI interfacing PV system to utility grid. , 2017, , .		9
36	Modelling, analysis, and implementation of a switched-inductor based DC/DC converter with reduced switch current stress. IET Power Electronics, 2021, 14, 1504-1514.	1.5	9

#	ARTICLE	IF	CITATIONS
37	A new high-level boost inverter topology with reduced device count. International Journal of Circuit Theory and Applications, 2022, 50, 2777-2792.	1.3	8
38	A hybrid active and reactive power control with Quasi Z-source inverter in single-phase grid-connected PV systems. , 2016, , .		7
39	Thyristor based SVC and multilevel qZSI for Active and Reactive power management in solar PV system. , 2017, , .		7
40	A high efficiency and high reliability single-phase modified quasi Z-Source inverter for non-isolated grid-connected applications. , 2015, , .		6
41	L-L Converter for Fuel Cell Vehicular Power Train Applications: Hardware Implementation of Primary Member of X-Y Converter Family. , 2018, , .		6
42	Hardware Implementation of a New Single Input Double Output L-L Converter for High Voltage Auxiliary Loads in Fuel-cell Vehicles. , 2019, , .		5
43	Optimized FPGA Implementation of PWAM-Based Control of Three-Phase Nine-Level Quasi Impedance Source Inverter. IEEE Access, 2019, 7, 137279-137290.	2.6	5
44	Cascaded multilevel qZSI powered single-phase induction motor for water pump application. , 2017, , .		4
45	Dynamic Modeling and Control of Pole-Phase Modulation-Based Multiphase Induction Motor Drives. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 3383-3394.	3.7	4
46	E ^K , multilevel inverter a minimal switch novel configuration for higher number of output voltage levels. IET Power Electronics, 2020, 13, 2804-2815.	1.5	4
47	Smart Grid Cybersecurity: Standards and Technical Countermeasures. , 2018, , .		3
48	New DC-DC Multilevel Configurations of 2L-Y Boost Converters with High Voltage Conversion Ratio for Renewable Energy Applications. , 2019, , .		3
49	Fault tolerant single-phase capacitor start capacitor run induction motor powered with cascaded multilevel quasi impedance source inverter. Journal of Engineering, 2019, 2019, 4036-4040.	0.6	3
50	A New Type of Boost Converter with Dual Duty and High Gain for DC Microgrid Applications. , 2022, , .		3
51	Novel Control Algorithm for V/f Control of PWAM Based Induction Motor Drive. , 2018, , .		2
52	New High Gain 2LC-Y Multilevel-Boost-Converter (2LC-Y MBC) Topologies for Renewable Energy Conversion: Members of X-Y Converter Family. , 2019, , .		2
53	Quasi Z Source Inverter Fed V/f Controlled Five Phase Induction Motor Drive Powered. , 2019, , .		2
54	Dynamic mitigation of EV charging stations impact on active Distribution Networks with Distributed BESSs. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	Novel PWM Technique for Quasi Switched Boost Converter for the Nano-grid Applications. , 2019, , .		1
56	Switched Inductor Quazi Switched boost Converter for Nano “ Grid Applications. , 2019, , .		1
57	Virtual Flux Oriented Sensorless Direct Power Control of QZS Inverter Connected to Grid for Solar PV Applications. , 2019, , .		0