

Guidong Zhang

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.

64

papers

616

citations

14

h-index

23

g-index

69

ext. papers

924

ext. citations

4.9

avg, IF

4.49

L-index

#	Paper	IF	Citations
64	A multi-timescale smart grid energy management system based on adaptive dynamic programming and Multi-NN Fusion prediction method. <i>Knowledge-Based Systems</i> , 2022 , 241, 108284	7.3	0
63	Four Novel Embedded Z-Source DCDC Converters. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 607-616	7.2	4
62	Replacing All ECs With NECs in Step-Up Converters A Systematic Approach. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 31-36	7.2	1
61	A Graph-Modeling Approach to Topology Simplification in Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 8248-8261	7.2	0
60	A General Polynomial Reverse Design of Step-up Converters for EV Battery Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	0
59	Analytical Determination of Fast-Scale Instability Boundaries for Current Mode Controlled DCDC Converters With CPL and Closed Voltage Loop. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2021 , 11, 39-48	5.2	2
58	Performance evaluation for an hourglass-shaped impedance-network-based high step-up converter in a photovoltaic system using PSIM simulation. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 2670-2685	2	0
57	Non-electrolytic-capacitor boost converter with non-pulsating ripple-free output current. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 2719-2735	2	0
56	A Self-Protected Single-Stage LLC Resonant Rectifier. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 3361-3372	5.6	5
55	Generalized Flexible Voltage Pumping Module for Extra High Voltage Gain Converters in Electric Vehicles. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 6463-6471	6.8	0
54	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 1891-1904	5.6	3
53	Novel method to operation conditions identification of high-order power converters. <i>Journal of Advanced Research</i> , 2021 , 28, 175-181	13	2
52	Hourglass-shaped impedance network based nonelectrolytic capacitors high step-up converter with low voltage stress. <i>International Journal of Circuit Theory and Applications</i> , 2021 , 49, 1147-1163	2	3
51	Controllability Analysis and Verification for High-Order DCDC Converters Using Switched Linear Systems Theory. <i>IEEE Transactions on Power Electronics</i> , 2021 , 1-1	7.2	3
50	Novel Cuk-Based Bridgeless Rectifier of WPT System with Wide Power Modulation Range and Low Current Ripple. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	0
49	An X-shaped-switching-network high-step-up converter for grid integration of renewable energy sources. <i>AEU - International Journal of Electronics and Communications</i> , 2021 , 136, 153776	2.8	1
48	Impedance Strengthening and Weakening Networks for Power Converter Analysis and Design. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 9717-9721	7.2	4

47	Sneak Circuit Theory Based Approach to Avoiding Short-Circuit Paths in Reconfigurable Battery Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 12353-12363	8.9	3
46	Design and HIL Realization of an Online Adaptive Dynamic Programming Approach for Real-time Economic Operations of Household Energy Systems. <i>IEEE Transactions on Smart Grid</i> , 2021 , 1-1	10.7	3
45	Enhanced One-Cycle Control for Multicell Power Converters. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 8846-8856	7.2	6
44	Boost-type pushpull converter with reduced switches. <i>Journal of Power Electronics</i> , 2020 , 20, 645-656	0.9	0
43	Adaptive Modulation Strategy for Modular Multilevel High-Frequency DC Transformer in DC Distribution Networks. <i>IEEE Access</i> , 2020 , 8, 16397-16408	3.5	4
42	Forming a Reliable Hybrid Microgrid Using Electric Spring Coupled With Non-Sensitive Loads and ESS. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 2867-2879	10.7	8
41	A Multiple Modular Isolated DC/DC Converter With Bidirectional Fault Handling and Efficient Energy Conversion for DC Distribution Network. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 11502-11517	7.2	8
40	Control Design and Performance Analysis of a Double-Switched LLC Resonant Rectifier for Unity Power Factor and Soft-Switching. <i>IEEE Access</i> , 2020 , 8, 44511-44521	3.5	12
39	An extendable single-switch n-cell boost converter with high voltage gain and low components stress for renewable energy. <i>International Journal of Circuit Theory and Applications</i> , 2020 , 48, 817-831	2	3
38	LLC resonant converter topologies and industrial applications [A review]. <i>Chinese Journal of Electrical Engineering</i> , 2020 , 6, 73-84	4	24
37	Fast Voltage-Based MPPT Control for High Gain Switched Inductor DC-DC Boost Converters 2020 ,		1
36	Advanced four-mode-modulation-based four-switch non-inverting buckBoost converter with extra operation zone. <i>IET Power Electronics</i> , 2020 , 13, 2049-2059	2.2	7
35	. <i>IEEE Access</i> , 2020 , 8, 140293-140302	3.5	4
34	A Novel Impedance-Network-Based Electric Spring. <i>IEEE Access</i> , 2020 , 8, 129123-129135	3.5	1
33	4-kW 3-phase rectifier with high efficiency and wide operational range via 3-mode SVPWM. <i>Journal of Power Electronics</i> , 2020 , 20, 1433-1444	0.9	0
32	A Waveform-Subtraction Based Single-Stage Ripple-Suppression Converter Family for Multiple Waveform Generation. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1890-1898	8.9	
31	. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 1330-1338	4.3	8
30	A Novel Alternative to Traditional n -HSLC: An n -Switched-Cell Based Approach to High-Step-up Converters. <i>IEEE Access</i> , 2019 , 7, 114529-114538	3.5	2

29	A Fractional-Order Element (FOE)-Based Approach to Wireless Power Transmission for Frequency Reduction and Output Power Quality Improvement. <i>Electronics (Switzerland)</i> , 2019 , 8, 1029	2.6	4
28	Improvement of Stability in a PCM-Controlled Boost Converter with the Target Period Orbit-Tracking Method. <i>Electronics (Switzerland)</i> , 2019 , 8, 1432	2.6	1
27	A Family of Y-Impedance-Network Half-Bridge Converters with Additional Voltage Adjustment Function. <i>Energies</i> , 2019 , 12, 3430	3.1	1
26	Advanced small-signal-based analytical approach to modelling high-order power converters. <i>IET Power Electronics</i> , 2019 , 12, 228-236	2.2	3
25	Sneak Circuit Identification of an Improved Boost Converter With Soft-Switching Realization. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2019 , 7, 2394-2402	5.6	3
24	A Generalized Additional Voltage Pumping Solution for High-Step-Up Converters. <i>IEEE Transactions on Power Electronics</i> , 2019 , 34, 6456-6467	7.2	16
23	A Simplified Modulation Strategy of Nine-Switch Inverter to Cut Off Half of Switching Modes. <i>IEEE Access</i> , 2018 , 6, 7254-7261	3.5	21
22	Unique Modular Structure of Multicell High-Boost Converters With Reduced Component Currents. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 7795-7804	7.2	14
21	Power electronics converters: Past, present and future. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 2028-2044	16.2	72
20	A Single-Switch Quadratic BuckBoost Converter With Continuous Input Port Current and Continuous Output Port Current. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 4157-4166	7.2	63
19	Systematic Derivation of Dead-Zone Elimination Strategies for the Noninverting Synchronous BuckBoost Converter. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 3497-3508	7.2	15
18	A Hybrid Impedance Network Boost Converter With Reduced Input Current Ripple. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 2803-2808	7.2	6
17	A critical topology review of power electronic transformers: In view of efficiency. <i>Chinese Journal of Electrical Engineering</i> , 2018 , 4, 90-95	4	10
16	An Investigation into Cascading Failure in Large-Scale Electric Grids: A Load-Redistribution Approach. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1033	2.6	2
15	. <i>IEEE Access</i> , 2018 , 6, 44351-44361	3.5	5
14	3-Z-Network Boost Converter. <i>Studies in Systems, Decision and Control</i> , 2018 , 55-82	0.8	4
13	Z-source Half-Bridge Converter. <i>Studies in Systems, Decision and Control</i> , 2018 , 83-105	0.8	
12	Hybrid modulation method combining variable frequency and double phase-shift for a 10kW LLC resonant converter. <i>IET Power Electronics</i> , 2018 , 11, 2161-2169	2.2	16

11	A Simplified Minimum DC-Link Voltage Control Strategy for Shunt Active Power Filters. <i>Energies</i> , 2018 , 11, 2407	3.1	4
10	A DSE-Based SMC Method of Sensorless DFIG Wind Turbines Connected to Power Grids for Energy Extraction and Power Quality Enhancement. <i>IEEE Access</i> , 2018 , 6, 76596-76605	3.5	9
9	A Five-Terminal Impedance Network Based Three-Port Converter. <i>IEEE Access</i> , 2018 , 6, 29474-29485	3.5	1
8	A Novel Single-InputDual-Output Impedance Network Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2017 , 5, 1133-1141	5.6	6
7	An Impedance Network Boost Converter With a High-Voltage Gain. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 6661-6665	7.2	37
6	Sneak Circuit Phenomena in a DCM Boost Converter Considering Parasitic Parameters. <i>IEEE Transactions on Power Electronics</i> , 2017 , 32, 3946-3958	7.2	15
5	High-performance quasi-Z-source inverter with low capacitor voltage stress and small inductance. <i>IET Power Electronics</i> , 2015 , 8, 1061-1067	2.2	20
4	A 3-Z-Network Boost Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 278-288	8.9	51
3	Cascading failures of power grids caused by line breakdown. <i>International Journal of Circuit Theory and Applications</i> , 2015 , 43, 1807-1814	2	10
2	A Z-Source Half-Bridge Converter. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 1269-1279	8.9	37
1	Understanding the cascading failures in Indian power grids with complex networks theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013 , 392, 3273-3280	3.3	44