

Yitao Liu

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Active Power Control Integrated With Reactive Power Compensation of Battery Energy Stored Quasi-Z Source Inverter PV Power System Operating in VSG Mode. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 339-350.	3.7	13
2	Investigation on Amplitude-Domain Modulation for Three-Phase Energy-Stored Quasi-Z Source Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2764-2775.	3.7	2
3	Consumer-Driven Demand-Side Management Using K-Mean Clustering and Integer Programming in Standalone Renewable Grid. Energies, 2022, 15, 1006.	1.6	6
4	A Day and Night Operational Quasi-Z Source Multilevel Grid-Tied PV Power System to Achieve Active and Reactive Power Control. IEEE Transactions on Power Electronics, 2021, 36, 474-492.	5.4	44
5	Novel Phase-Shift Method for Fast Power Reversal With Transient Zero Voltage Switching in a Bidirectional Dual Active Bridge DC-DC Converter. IEEE Transactions on Industrial Electronics, 2021, 68, 8028-8038.	5.2	11
6	EMI Noise Reduction for the Single-Phase Grid-Connected Inverter With A Modified Harmonic Filter Design. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 739-751.	1.4	10
7	Design of a Fully Integrated EMI Filter for a Single-Phase Grid-Connected Inverter. IEEE Transactions on Industrial Electronics, 2021, 68, 12296-12309.	5.2	15
8	Modified Phase-Shift Scheme for Optimal Transient Response of Dual-Active-Bridge DC/DC Converters Considering the Resistive Impact. IEEE Access, 2021, 9, 87706-87714.	2.6	5
9	Enhanced-Boost Bidirectional Quasi-Z-Source Inverter With Novel Active Switched Inductor Cells. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 3041-3055.	3.7	22
10	A Magnetic Integrated LCL-EMI Filter for a Single-Phase SiC-MOSFET Grid-Connected Inverter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 601-617.	3.7	36
11	An Overview and Comprehensive Comparative Evaluation of Current-Fed-Isolated-Bidirectional DC/DC Converter. IEEE Transactions on Power Electronics, 2020, 35, 2737-2763.	5.4	101
12	Modeling and Design of the Magnetic Integration of Single- and Multi-Stage EMI Filters. IEEE Transactions on Power Electronics, 2020, 35, 276-288.	5.4	40
13	Study of a Bidirectional Power Converter Integrated with Battery/Ultracapacitor Dual-Energy Storage. Energies, 2020, 13, 1234.	1.6	8
14	Probabilistic wind power forecasting based on spiking neural network. Energy, 2020, 196, 117072.	4.5	40
15	EMI filter design for single-phase grid-connected inverter with noise source impedance consideration. IET Power Electronics, 2020, 13, 3963-3974.	1.5	3
16	Conducted common-mode electromagnetic interference suppression in the AC and DC sides of a grid-connected inverter. IET Power Electronics, 2020, 13, 2926-2934.	1.5	8
17	MRAS Sensorless Control Strategy of PMSM based on SiC-MOSFET Three-Phase Inverter. , 2020, , .		2
18	Extraction of Noise Source Impedance Under Operating Conditions Using a Two-Probe Approach. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Virtual Inertia Implemented by PV Quasi-Z-Source Inverter for Distributed Power System. , 2020, , .		0
20	Active EMI Filter Design With a Modified LCL-LC Filter for Single-Phase Grid-Connected Inverter in Vehicle-to-Grid Application. IEEE Transactions on Vehicular Technology, 2019, 68, 10639-10650.	3.9	40
21	Unscented Kalman Filter based interval state estimation of cyber physical energy system for detection of dynamic attack. Energy, 2019, 188, 116036.	4.5	21
22	Modulation Strategy for Optimized Transient Performance of Dual Active Bridge Converter under Reverse of Power Flow Direction. , 2019, , .		6
23	Bidirectional Three-Level Cascaded Converter With Deadbeat Control for HESS in Solar-Assisted Electric Vehicles. IEEE Transactions on Transportation Electrification, 2019, 5, 1190-1201.	5.3	29
24	Joint Control of Three-Level DC-DC Converter Interfaced Hybrid Energy Storage System in DC Microgrids. IEEE Transactions on Energy Conversion, 2019, 34, 2248-2257.	3.7	33
25	Energy Management and Control Strategy of Photovoltaic/Battery Hybrid Distributed Power Generation Systems With an Integrated Three-Port Power Converter. IEEE Access, 2019, 7, 82838-82847.	2.6	54
26	EMI filter design of single-phase SiC MOSFET inverter with extracted noise source impedance. IEEE Electromagnetic Compatibility Magazine, 2019, 8, 45-53.	0.1	17
27	Performance comparison of Si IGBT and SiC MOSFET power devices based LCL three-phase inverter with double closed-loop control. IET Power Electronics, 2019, 12, 322-329.	1.5	17
28	Variable Universe Fuzzy Logic-Based Hybrid LFC Control With Real-Time Implementation. IEEE Access, 2019, 7, 25535-25546.	2.6	40
29	An Active Damping Control Method for the LCL Filter-Based SiC MOSFET Grid-Connected Inverter in Vehicle-to-Grid Application. IEEE Transactions on Vehicular Technology, 2019, 68, 3411-3423.	3.9	19
30	Comparative Design of Gate Drivers with Short-Circuit Protection Scheme for SiC MOSFET and Si IGBT. Energies, 2019, 12, 4546.	1.6	12
31	Study of the Hierarchical Control System for DC Micro-grid. , 2019, , .		3
32	Investigation of an STATCOM-based Energy Stored Quasi-Z Source Cascaded H-bridge Inverter Photovoltaic Power System. , 2019, , .		1
33	Magnetic Integration of EMI filter for Grid-Connected Voltage-Source Inverters. , 2019, , .		5
34	Deep Learning-Based Interval State Estimation of AC Smart Grids Against Sparse Cyber Attacks. IEEE Transactions on Industrial Informatics, 2018, 14, 4766-4778.	7.2	177
35	GPNBI inspired MOSDE for electric power dispatch considering wind energy penetration. Energy, 2018, 144, 404-419.	4.5	10
36	Hybrid-Modulation-Based Bidirectional Electrolytic Capacitor-Less Three-Phase Inverter for Fuel Cell Vehicles: Analysis, Design, and Experimental Results. IEEE Transactions on Power Electronics, 2018, 33, 4167-4180.	5.4	23

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37	Robust Planning of Electric Vehicle Charging Facilities With an Advanced Evaluation Method. IEEE Transactions on Industrial Informatics, 2018, 14, 866-876.	7.2	38
38	Comparison of SiC Voltage Source Inverters Using Synchronous Rectification and Freewheeling Diode. IEEE Transactions on Industrial Electronics, 2018, 65, 1051-1061.	5.2	62
39	Power Decoupling of a Single Phase DC-AC Dual Active Bridge Converter Based on an Integrated Bidirectional Buck/Boost Stage. Energies, 2018, 11, 2746.	1.6	1
40	Effective EMI Filter Design Method of Single-phase Inverter Based on Noise Source Impedance. , 2018, , .		4
41	Dual Closed-Loop Control Strategy of LCL Filter Grid-Connected Inverter Based on the $\hat{I}_{\pm} \hat{I}^2$ Coordinate System. , 2018, , .		2
42	LCL Filter Design with the Inductor Nonlinear Behavior Consideration in the Three Phase Grid-Connected Inverter. , 2018, , .		3
43	Automatic V - I Alignment for Switching Characterization of Wide Band Gap Power Devices. , 2018, , .		2
44	An Approach to Kinetic Energy Recovery System for Electric Vehicle Considering SC and Bi-directional Converters. , 2018, , .		6
45	SiC MOSFET Based LCL Grid-Connected Inverter with Double Closed-Loop Control. , 2018, , .		0
46	LCL Filter Design with EMI Noise Consideration for Grid-Connected Inverter. Energies, 2018, 11, 1646.	1.6	17
47	Deep learning based ensemble approach for probabilistic wind power forecasting. Applied Energy, 2017, 188, 56-70.	5.1	560
48	Deterministic and probabilistic forecasting of photovoltaic power based on deep convolutional neural network. Energy Conversion and Management, 2017, 153, 409-422.	4.4	262
49	GPNBI-inspired MOSFA for Pareto operation optimization of integrated energy system. Energy Conversion and Management, 2017, 151, 524-537.	4.4	32
50	Magnetic components design of LCL filter in the grid connected power converter. , 2017, , .		0
51	Design and Demonstration of High Power Density Inverter for Aircraft Applications. IEEE Transactions on Industry Applications, 2017, 53, 1168-1176.	3.3	79
52	Double closed-loop control strategy of LCL three-phase grid-connected inverter. , 2017, , .		4
53	Comparative evaluation of WBG and Si power devices for the flyback converter. , 2017, , .		5
54	Effects of Nonlinearity in Input Filter on the Dynamic Behavior of an Interleaved Boost PFC Converter. Energies, 2017, 10, 1530.	1.6	3

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55	FEM modelling of three-phase common mode choke for performance evaluation. , 2016, , .		14
56	Deep belief network based deterministic and probabilistic wind speed forecasting approach. Applied Energy, 2016, 182, 80-93.	5.1	417
57	THD and EMI performance study of foil-wound inductor of LCL filter for high power density converter. , 2016, , .		2
58	LCL filter design and analysis of grid-connected converter for power quality and EMI compliance. , 2016, , .		2
59	Demonstration of 6kW/kg 50kW grid facing power converter for future aircraft. , 2016, , .		1
60	Conducted electromagnetic interference simulation model with non-linear behaviour of transformer. IET Power Electronics, 2015, 8, 602-609.	1.5	6
61	Gate driver optimization to mitigate shoot-through in high-speed switching SiC half bridge module. , 2015, , .		29
62	Design of high power density converter for aircraft applications. , 2015, , .		28
63	Challenges in switching waveforms measurement for a high-speed switching module. , 2015, , .		11
64	Evaluation on filter topologies in high power density converter design for power quality and EMI control. , 2015, , .		8
65	Heatsink design for high power density converter in aircraft applications: Parameter sensitivity analysis. , 2015, , .		6
66	A high frequency isolated current-fed bidirectional DC/AC converter for grid-tied energy storage system. , 2013, , .		2
67	Conducted EMI Prediction of the PFC Converter Including Nonlinear Behavior of Boost Inductor. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 1107-1114.	1.4	24
68	Effect of Nonlinear Inductor Behavior on the Performance of Interleaved Power Factor Correction. IEEE Transactions on Magnetics, 2012, 48, 4143-4147.	1.2	6
69	Differential Evolution Based Parameter Identification of Static and Dynamic J-A Models and Its Application to Inrush Current Study in Power Converters. IEEE Transactions on Magnetics, 2012, 48, 3482-3485.	1.2	28
70	Study of effect of the nonlinear inductor behavior on the performance of resonant tank for driving fluorescent lamp. , 2011, , .		0
71	Comparative THD Analysis of Different Resonant Tanks for Driving Fluorescent Lamp. , 2011, , .		0
72	Comprehensive Modeling of Resonant Inverter for Driving Fluorescent Lamp With the Consideration of Nonlinear Magnetization of Inductor. IEEE Transactions on Magnetics, 2011, 47, 4318-4321.	1.2	5

#	ARTICLE	IF	CITATIONS
73	Modeling the dynamics of a circuit containing saturable magnetic cores based on J-A model. , 2010, , .		0