

Yitao Liu

List of Publications by Year in descending order

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73
papers

2,542
citations

331538

21
h-index

243529

44
g-index

73
all docs

73
docs citations

73
times ranked

2540
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning based ensemble approach for probabilistic wind power forecasting. Applied Energy, 2017, 188, 56-70.	5.1	560
2	Deep belief network based deterministic and probabilistic wind speed forecasting approach. Applied Energy, 2016, 182, 80-93.	5.1	417
3	Deterministic and probabilistic forecasting of photovoltaic power based on deep convolutional neural network. Energy Conversion and Management, 2017, 153, 409-422.	4.4	262
4	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
5	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
6	Design and Demonstration of High Power Density Inverter for Aircraft Applications. IEEE Transactions on Industry Applications, 2017, 53, 1168-1176.	3.3	79
7	Comparison of SiC Voltage Source Inverters Using Synchronous Rectification and Freewheeling Diode. IEEE Transactions on Industrial Electronics, 2018, 65, 1051-1061.	5.2	62
8	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
9	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
10	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
11	Variable Universe Fuzzy Logic-Based Hybrid LFC Control With Real-Time Implementation. IEEE Access, 2019, 7, 25535-25546.	2.6	40
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	Probabilistic wind power forecasting based on spiking neural network. Energy, 2020, 196, 117072.	4.5	40
14	Robust Planning of Electric Vehicle Charging Facilities With an Advanced Evaluation Method. IEEE Transactions on Industrial Informatics, 2018, 14, 866-876.	7.2	38
15	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
16	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
17	GPNBI-inspired MOSFA for Pareto operation optimization of integrated energy system. Energy Conversion and Management, 2017, 151, 524-537.	4.4	32
18	Gate driver optimization to mitigate shoot-through in high-speed switching SiC half bridge module. , 2015, , .		29

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Design of high power density converter for aircraft applications. , 2015, , .		28
22	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
23	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
24	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
25	Unscented Kalman Filter based interval state estimation of cyber physical energy system for detection of dynamic attack. Energy, 2019, 188, 116036.	4.5	21
26	An Active Damping Control Method for the <i>LLCL</i> Filter-Based SiC MOSFET Grid-Connected Inverter in Vehicle-to-Grid Application. IEEE Transactions on Vehicular Technology, 2019, 68, 3411-3423.	3.9	19
27	LCL Filter Design with EMI Noise Consideration for Grid-Connected Inverter. Energies, 2018, 11, 1646.	1.6	17
28	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
29	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
30	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
31	FEM modelling of three-phase common mode choke for performance evaluation. , 2016, , .		14
32	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
33	Comparative Design of Gate Drivers with Short-Circuit Protection Scheme for SiC MOSFET and Si IGBT. Energies, 2019, 12, 4546.	1.6	12
34	Challenges in switching waveforms measurement for a high-speed switching module. , 2015, , .		11
35	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
36	GPNBI inspired MOSDE for electric power dispatch considering wind energy penetration. Energy, 2018, 144, 404-419.	4.5	10

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37	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
38	Evaluation on filter topologies in high power density converter design for power quality and EMI control. , 2015, , .		8
39	Study of a Bidirectional Power Converter Integrated with Battery/Ultracapacitor Dual-Energy Storage. Energies, 2020, 13, 1234.	1.6	8
40	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
41	Effect of Nonlinear Inductor Behavior on the Performance of Interleaved Power Factor Correction. IEEE Transactions on Magnetics, 2012, 48, 4143-4147.	1.2	6
42	Conducted electromagnetic interference simulation model with nonlinear behaviour of transformer. IET Power Electronics, 2015, 8, 602-609.	1.5	6
43	Heatsink design for high power density converter in aircraft applications: Parameter sensitivity analysis. , 2015, , .		6
44	An Approach to Kinetic Energy Recovery System for Electric Vehicle Considering SC and Bi-directional Converters. , 2018, , .		6
45	Modulation Strategy for Optimized Transient Performance of Dual Active Bridge Converter under Reverse of Power Flow Direction. , 2019, , .		6
46	Consumer-Driven Demand-Side Management Using K-Mean Clustering and Integer Programming in Standalone Renewable Grid. Energies, 2022, 15, 1006.	1.6	6
47	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
48	Comparative evaluation of WBG and Si power devices for the flyback converter. , 2017, , .		5
49	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
50	Magnetic Integration of EMI filter for Grid-Connected Voltage-Source Inverters. , 2019, , .		5
51	Double closed-loop control strategy of LCL three-phase grid-connected inverter. , 2017, , .		4
52	Effective EMI Filter Design Method of Single-phase Inverter Based on Noise Source Impedance. , 2018, , .		4
53	Effects of Nonlinearity in Input Filter on the Dynamic Behavior of an Interleaved Boost PFC Converter. Energies, 2017, 10, 1530.	1.6	3
54	LCL Filter Design with the Inductor Nonlinear Behavior Consideration in the Three Phase Grid-Connected Inverter. , 2018, , .		3

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55	Study of the Hierarchical Control System for DC Micro-grid. , 2019, , .		3
56	EMI filter design for single-phase grid-connected inverter with noise source impedance consideration. IET Power Electronics, 2020, 13, 3963-3974.	1.5	3
57	A high frequency isolated current-fed bidirectional DC/AC converter for grid-tied energy storage system. , 2013, , .		2
58	THD and EMI performance study of foil-wound inductor of LCL filter for high power density converter. , 2016, , .		2
59	LCL filter design and analysis of grid-connected converter for power quality and EMI compliance. , 2016, , .		2
60	Dual Closed-Loop Control Strategy of LCL Filter Grid-Connected Inverter Based on the $\hat{i}\pm\hat{i}^2$ Coordinate System. , 2018, , .		2
61	Automatic V - I Alignment for Switching Characterization of Wide Band Gap Power Devices. , 2018, , .		2
62	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
63	MRAS Sensorless Control Strategy of PMSM based on SiC-MOSFET Three-Phase Inverter. , 2020, , .		2
64	Demonstration of 6kW/kg 50kW grid facing power converter for future aircraft. , 2016, , .		1
65	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
66	Investigation of an STATCOM-based Energy Stored Quasi-Z Source Cascaded H-bridge Inverter Photovoltaic Power System. , 2019, , .		1
67	Modeling the dynamics of a circuit containing saturable magnetic cores based on J-A model. , 2010, , .		0
68	Study of effect of the nonlinear inductor behavior on the performance of resonant tank for driving fluorescent lamp. , 2011, , .		0
69	Comparative THD Analysis of Different Resonant Tanks for Driving Fluorescent Lamp. , 2011, , .		0
70	Magnetic components design of LCL filter in the grid connected power converter. , 2017, , .		0
71	SiC MOSFET Based LCL Grid-Connected Inverter with Double Closed-Loop Control. , 2018, , .		0
72	Extraction of Noise Source Impedance Under Operating Conditions Using a Two-Probe Approach. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	Virtual Inertia Implemented by PV Quasi-Z-Source Inverter for Distributed Power System. , 2020, , .		0