

Jiacheng Wang

List of Publications by Year in descending order

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673
citing authors

#	ARTICLE	IF	CITATIONS
1	A Multiport DC Power Flow Controller Embedded in Modular Multilevel DC Transformer. IEEE Transactions on Industrial Electronics, 2023, 70, 4831-4841.	7.9	8
2	A Multiport Embedded DC Power Flow Controller for Meshed DC Distribution Grids. IEEE Transactions on Industrial Electronics, 2022, 69, 11304-11313.	7.9	7
3	Operation and Control of Bipolar-Type Modular Solid State Transformer With Active Circulating Current Injection and Arm Voltage Adjusting Method. IEEE Transactions on Power Electronics, 2022, 37, 9663-9673.	7.9	5
4	An Isolated Modular Multi-level DC Transformer with Embedded Multi-port Current Flow Controller for Meshed DC Distribution Grids. , 2022, , .		1
5	A Multiple-AC-Ports Power Electronic Transformer. , 2022, , .		2
6	Design and Control of Power Fluctuation Delivery for Cell Capacitance Optimization in Multiport Modular Solid-State Transformers. IEEE Transactions on Power Electronics, 2021, 36, 1412-1427.	7.9	36
7	Overview of grounding schemes for solid-state transformers in distribution networks. IET Generation, Transmission and Distribution, 2021, 15, 3081-3099.	2.5	5
8	Stability Analysis of a Remote DC Subgrid/Microgrid Connected to a Very Weak AC Grid. , 2021, , .		0
9	Converter-Based Electrochemical Impedance Spectroscopy for High-Power Fuel Cell Stacks With Resonant Controllers. IEEE Transactions on Industrial Electronics, 2021, 68, 8819-8828.	7.9	10
10	Performance analysis of high-power three-phase current source inverters in photovoltaic applications. IET Circuits, Devices and Systems, 2021, 15, 79-87.	1.4	0
11	Dual Active Compensation for Voltage Source Rectifiers Under Very Weak Grid Conditions. IEEE Access, 2021, , 1-1.	4.2	0
12	Residual Power Transfer Capability Analysis of an MMC-SST under Submodule IGBT Open-Circuit Fault. , 2021, , .		1
13	Active Voltage Controlled Switching of the Power GaN HEMT. , 2020, , .		1
14	Buck-Plus-Unfolder as the Superior Active Power Decoupling Solution for 400 Vdc/kW-Level Applications. IEEE Open Journal of Power Electronics, 2020, 1, 260-272.	5.7	3
15	Analysis of dc link oscillations in a hybrid fuel cell powertrain brought by in situ converter based electrochemical impedance spectroscopy. International Journal of Hydrogen Energy, 2020, 45, 31080-31090.	7.1	1
16	Assessment of Dynamic Instabilities in Weak Grids with High Penetration of Power Electronic Loads. , 2020, , .		0
17	Voltage Source Converters Connected to Very Weak Grids: Accurate Dynamic Modeling, Small-Signal Analysis, and Stability Improvement. IEEE Access, 2020, 8, 201120-201133.	4.2	20
18	Analysis and Design of an Isolated Converter with Embedded EIS Function for Fuel Cell Stack Considering Low-Frequency Oscillations. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	An Auxiliary Converter for Fuel Cell Stack EIS using a Switched-Capacitor Converter Interfaced Supercapacitor as a Bidirectional Energy Buffer. , 2020, , .		0
20	A Global Redundancy Scheme for Medium-Voltage Modular Multilevel Converter Based Solid-State Transformer. , 2019, , .		9
21	An Online Impedance Processing Method for Fuel Cell EIS Measurements Enabling Degradation Information Extraction. , 2019, , .		1
22	Dynamic Modeling and Stability Analysis of Converter-based Three-phase AC Microgrids with Active Loads. , 2019, , .		4
23	Design and Analysis of Flexible Multi-Microgrid Interconnection Scheme for Mitigating Power Fluctuation and Optimizing Storage Capacity. Energies, 2019, 12, 2132.	3.1	10
24	Voltage Reduction Technique for Use With Electrochemical Impedance Spectroscopy in High-Voltage Fuel Cell and Battery Systems. IEEE Transactions on Transportation Electrification, 2018, 4, 418-431.	7.8	13
25	Active Thermal Control-Based Anticondensation Strategy in Paralleled Wind Power Converters by Adjusting Reactive Circulating Current. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 277-291.	5.4	12
26	Space Vector Modulation Technique for High Power Five-Level PCSI7 with DC Current Balance Control and Common-Mode Voltage Suppression. , 2018, , .		0
27	Grounding Design and Fault Analysis of MMC Based Flexible Interconnection Device in Future Distribution Networks. , 2018, , .		10
28	High performance 3D printed electronics using electroless plated copper. AIP Advances, 2017, 7, .	1.3	24
29	DC bus current optimization control strategy in DFIG wind power systems with current source converter. , 2017, , .		1
30	Multi-bus flexible interconnection scheme for balancing power transformers in low-voltage distribution systems. , 2017, , .		3
31	A new design method for the dc inductance in current source converters. , 2016, , .		1
32	High-efficiency RB-IGBT based low-voltage PWM current-source converter for PMSG wind energy conversion systems. , 2016, , .		6
33	A Virtual Space Vector Modulation Technique for the Reduction of Common-Mode Voltages in Both Magnitude and Third-Order Component. IEEE Transactions on Power Electronics, 2016, 31, 839-848.	7.9	89
34	Electric Vehicle Charging Station Using a Neutral Point Clamped Converter With Bipolar DC Bus. IEEE Transactions on Industrial Electronics, 2015, 62, 1999-2009.	7.9	225
35	Reference-Trajectory-Optimized SVM for High-Power Current-Source Converters to Improve Harmonic Performance and Reduce Common-Mode Voltage. IEEE Transactions on Power Electronics, 2015, 30, 3488-3498.	7.9	21
36	A new space vector modulation technique for common-mode voltage reduction in both magnitude and third-order component. , 2014, , .		6