Zian Qin

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An Improved Second-Order Generalized Integrator Based Quadrature Signal Generator. IEEE Transactions on Power Electronics, 2016, 31, 8068-8073.	5.4	213
2	Grid Impact of Electric Vehicle Fast Charging Stations: Trends, Standards, Issues and Mitigation Measures - An Overview. IEEE Open Journal of Power Electronics, 2021, 2, 56-74.	4.0	175
3	A Dual Voltage Control Strategy for Single-Phase PWM Converters With Power Decoupling Function. IEEE Transactions on Power Electronics, 2015, 30, 7060-7071.	5.4	128
4	Lifetime Estimation of MMC for Offshore Wind Power HVDC Application. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 504-511.	3.7	107
5	Techno-Economical Model Based Optimal Sizing of PV-Battery Systems for Microgrids. IEEE Transactions on Sustainable Energy, 2020, 11, 1657-1668.	5.9	104
6	Benchmark of AC and DC Active Power Decoupling Circuits for Second-Order Harmonic Mitigation in Kilowatt-Scale Single-Phase Inverters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2016, 4, 15-25.	3.7	102
7	A Dual Active Bridge Converter With an Extended High-Efficiency Range by DC Blocking Capacitor Voltage Control. IEEE Transactions on Power Electronics, 2018, 33, 5949-5966.	5.4	71
8	Estimating battery lifetimes in Solar Home System design using a practical modelling methodology. Applied Energy, 2018, 228, 1629-1639.	5.1	69
9	A Bidirectional Resonant DC–DC Converter Suitable for Wide Voltage Gain Range. IEEE Transactions on Power Electronics, 2018, 33, 2957-2975.	5.4	63
10	An Improved Stray Capacitance Model for Inductors. IEEE Transactions on Power Electronics, 2019, 34, 11153-11170.	5.4	61
11	A Structure-Reconfigurable Series Resonant DC–DC Converter With Wide-Input and Configurable-Output Voltages. IEEE Transactions on Industry Applications, 2019, 55, 1752-1764.	3.3	49
12	Zero Voltage Switching Criteria of Triple Active Bridge Converter. IEEE Transactions on Power Electronics, 2021, 36, 5425-5439.	5.4	48
13	An Overview on Medium Voltage Grid Integration of Ultra-Fast Charging Stations: Current Status and Future Trends. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 420-447.	4.8	48
14	Wind turbine drivetrains: state-of-the-art technologies and future development trends. Wind Energy Science, 2022, 7, 387-411.	1.2	44
15	Application Criteria for Nine-Switch Power Conversion Systems with Improved Thermal Performance. IEEE Transactions on Power Electronics, 2015, 30, 4608-4620.	5.4	43
16	A Multiactive Bridge Converter With Inherently Decoupled Power Flows. IEEE Transactions on Power Electronics, 2021, 36, 2231-2245.	5.4	43
17	Data-Driven Fault Diagnosis of Lithium-Ion Battery Overdischarge in Electric Vehicles. IEEE Transactions on Power Electronics, 2022, 37, 4575-4588.	5.4	43
18	Exploring the boundaries of Solar Home Systems (SHS) for off-grid electrification: Optimal SHS sizing for the multi-tier framework for household electricity access. Applied Energy, 2019, 240, 907-917.	5.1	40

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19	Stochastic load profile construction for the multi-tier framework for household electricity access using off-grid DC appliances. Energy Efficiency, 2020, 13, 197-215.	1.3	35
20	An Online Data-Driven Fault Diagnosis and Thermal Runaway Early Warning for Electric Vehicle Batteries. IEEE Transactions on Power Electronics, 2022, 37, 12636-12646.	5.4	29
21	Investigation into the control methods to reduce the DC-link capacitor ripple current in a back-to-back converter. , 2014, , .		24
22	Constructing Accurate Equivalent Electrical Circuit Models of Lithium Iron Phosphate and Lead–Acid Battery Cells for Solar Home System Applications. Energies, 2018, 11, 2305.	1.6	24
23	Modelling and analysis of the transformer current resonance in dual active bridge converters. , 2017, , .		21
24	Quantifying the Benefits of a Solar Home System-Based DC Microgrid for Rural Electrification. Energies, 2019, 12, 938.	1.6	20
25	A Rotating Speed Controller Design Method for Power Leveling by Means of Inertia Energy in Wind Power Systems. IEEE Transactions on Energy Conversion, 2015, 30, 1052-1060.	3.7	19
26	Transformer Current Ringing in Dual Active Bridge Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 12130-12140.	5.2	19
27	Stability Region Exploring of Shunt Active Power Filters Based on Output Admittance Modeling. IEEE Transactions on Industrial Electronics, 2021, 68, 11696-11706.	5.2	19
28	A new second-order generalized integrator based quadrature signal generator with enhanced performance. , 2016, , .		18
29	Decoupling Control of Multiactive Bridge Converters Using Linear Active Disturbance Rejection. IEEE Transactions on Industrial Electronics, 2021, 68, 10688-10698.	5.2	17
30	A dual voltage control strategy for single-phase PWM converters with power decoupling function. , 2014, , .		16
31	Partially Rated Power Flow Control Converter Modeling for Low-Voltage DC Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2430-2444.	3.7	16
32	Modulation Schemes With Enhanced Switch Thermal Distribution for Single-Phase AC–DC–AC Reduced-Switch Converters. IEEE Transactions on Power Electronics, 2016, 31, 3302-3313.	5.4	15
33	A reconfigurable series resonant DC-DC converter for wide-input and wide-output voltages. , 2017, , .		15
34	A Digitally Controlled Three-Phase Cycloconverter Type High Frequency AC Link Inverter Using Space Vector Modulation. Journal of Power Electronics, 2011, 11, 28-36.	0.9	15
35	Evaluation of current stresses in nineâ€switch energy conversion systems. IET Power Electronics, 2014, 7, 2877-2886	1.5	14
36	DQ reference frame modeling and control of single-phase active power decoupling circuits. , 2015, , .		13

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37	Benchmark of AC and DC active power decoupling circuits for second-order harmonic mitigation in kW-scale single-phase inverters. , 2015, , .		13
38	A transformerless single-phase symmetrical Z-source HERIC inverter with reduced leakage currents for PV systems. , 2018, , .		12
39	The Long Road to Universal Electrification: A Critical Look at Present Pathways and Challenges. Energies, 2020, 13, 508.	1.6	12
40	Impedance Modelling for Three-Phase Inverters with Double Synchronous Reference Frame Current Controller in the Presence of Imbalance. IEEE Transactions on Power Electronics, 2021, , 1-1.	5.4	12
41	Design of a Power Flow Control Converter for Bipolar Meshed LVDC Distribution Grids. , 2018, , .		11
42	Suitable Submodule Switch Rating for Medium Voltage Modular Multilevel Converter Design. , 2018, , .		10
43	On the Protection of the Power Flow Control Converter in Meshed Low Voltage DC Networks. , 2018, , .		10
44	Modelling, Analysis and Mitigation of the Transformer Current Ringing in Dual Active Bridge Converters. , 2018, , .		9
45	Evaluation of switch currents in nine-switch energy conversion systems. , 2013, , .		8
46	The feasibility study on thermal loading control of wind power converters with a flexible switching frequency. , 2015, , .		8
47	A partially rated DC-DC converter for power flow control in meshed LVDC distribution grids. , 2018, , .		8
48	Continuous Full Order Model of Triple Active Bridge Converter. , 2019, , .		8
49	Python supervised co-simulation for a day-long harmonic evaluation of EV charging. Chinese Journal of Electrical Engineering, 2021, 7, 15-24.	2.3	8
50	Power loss benchmark of nine-switch converters in three-phase online-UPS application. , 2014, , .		7
51	An analytical turn-on power loss model for 650-V GaN eHEMTs. , 2018, , .		7
52	Design criteria of solidâ€state circuit breaker for lowâ€voltage microgrids. IET Power Electronics, 2021, 14, 1284-1299.	1.5	7
53	On the Importance of Tracking the Negative-Sequence Phase-Angle in Three-Phase Inverters with Double Synchronous Reference Frame Current Control. , 2020, , .		7
54	A three-phase boost-type grid-connected inverter based on synchronous reference frame control. ,		6

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55	Low-Voltage dc System Building Blocks: Integrated Power Flow Control and Short Circuit Protection. IEEE Industrial Electronics Magazine, 2023, 17, 6-20.	2.3	6
56	Parallel-connected three-phase inverters for railway auxiliary power supply without sensing output currents. , 2012, , .		5
57	Energy storage system by means of improved thermal performance of a 3 MW grid side wind power converter. , 2013, , .		5
58	A modeling methodology to evaluate the impact of temperature on Solar Home Systems for rural electrification. , 2018, , .		5
59	Modeling and Control of DC-DC Converters. , 2018, , 69-92.		5
60	Winding design of series AC inductor for dual active bridge converters. , 2018, , .		5
61	Output Impedance Modelling and Sensitivity Study of Grid-Feeding Inverters with Dual Current Control. , 2019, , .		5
62	Power Flow Decoupling Controller for Triple Active Bridge Based on Fourier Decomposition of Transformer Currents. , 2020, , .		5
63	Coordination Control of Power Flow Controller and Hybrid DC Circuit Breaker in MVDC Distribution Networks. Journal of Modern Power Systems and Clean Energy, 2021, 9, 1257-1268.	3.3	5
64	Modular Multilevel Converter Performance with Dynamic MVDC Distribution Link Voltage Rating. , 2018, , .		4
65	Modeling and Optimization of Displacement Windings for Transformers in Dual Active Bridge Converters. , 2018, , .		4
66	Design, modelling and evaluation of a GaN based motor drive for a solar car. , 2019, , .		4
67	Unbalanced Voltage/Power Control in Bipolar DC Distribution Grids Using Power Flow Controller. , 2020, , .		4
68	Guidelines for Stability Analysis of the DDSRF-PLL Using LTI and LTP Modelling in the Presence of Imbalance. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 339-352.	4.8	4
69	Reliability-oriented energy storage sizing in wind power systems. , 2014, , .		3
70	Modulation Schemes for Single-Phase B6 Converters With Two Asymmetrical Terminal Voltages. IEEE Transactions on Industrial Electronics, 2016, 63, 49-59.	5.2	3
71	A family of cost-effective magnetically-coupled impedance source inverters. , 2017, , .		3
72	Introduction to the Analysis of Harmonics and Resonances in Large Offshore Wind Power Plants. , 2018, , .		3

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73	Modelling of Output Admittance Coupling Between Shunt Active Power Filters and Non-linear Loads. , 2019, , .		3
74	Multi-timescale Modeling of Fast Charging Stations for Power Quality Analysis. , 2021, , .		3
75	Loss comparison of different nine-switch and twelve-switch energy conversion systems. , 2014, , .		2
76	A voltage doubler circuit to extend the soft-switching range of dual active bridge converters. , 2017, ,		2
77	Comparison of Battery Technologies for DC Microgrids with Integrated PV. , 2019, , .		2
78	Modular Multilevel Photovoltaic Interfaced Converter with Low Voltage Energy Integration for DC Systems. , 2019, , .		1
79	Fault Protection and Coordinated Controls of Power Flow Controller in a Flexible DC Grid. , 2021, , .		1
80	Comparison of Optimized Chargepads for Wireless EV Charging Application. , 2019, , .		1
81	Power Disequilibrium Suppression in Bipolar DC Distribution Grids by Using a Series-Parallel Power Flow Controller. IEEE Transactions on Power Delivery, 2023, 38, 117-132.	2.9	1
82	Thermal analysis of multi-MW two-level generator side converters with reduced common-mode-voltage modulation methods for wind turbines. , 2013, , .		0
83	Generation of random wind speed profiles for evaluation of stress in WT power converters. , 2013, , .		0
84	Modulation schemes with enhanced switch thermal distribution for single-phase AC-DC-AC reduced-switch converters. , 2015, , .		0
85	Line-to-line voltage based modulation scheme for single-phase reduced switch ac-dc-ac converters to achieve improved performance. , 2015, , .		0
86	A component-reduced Zero-Voltage Switching three-level DC-DC converter. , 2016, , .		0
87	Analysis of magnetically-coupled impedance source three-phase four-switch inverters. , 2017, , .		0
88	Modular Multilevel DC Cascaded Converter with Battery Electrical Storage Integration. , 2019, , .		0