

# Zian Qin

## List of Publications by Citations

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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.

68

papers

987

citations

15

h-index

29

g-index

90

ext. papers

1,444

ext. citations

5.4

avg, IF

4.92

L-index

#	Paper	IF	Citations
68	An Improved Second-Order Generalized Integrator Based Quadrature Signal Generator. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 8068-8073	7.2	138
67	Lifetime Estimation of MMC for Offshore Wind Power HVDC Application. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2016</b> , 4, 504-511	5.6	73
66	A Dual Voltage Control Strategy for Single-Phase PWM Converters With Power Decoupling Function. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 7060-7071	7.2	71
65	Benchmark of AC and DC Active Power Decoupling Circuits for Second-Order Harmonic Mitigation in Kilowatt-Scale Single-Phase Inverters. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2016</b> , 4, 15-25	5.6	69
64	. <i>IEEE Transactions on Sustainable Energy</i> , <b>2020</b> , 11, 1657-1668	8.2	42
63	A Bidirectional Resonant DCDC Converter Suitable for Wide Voltage Gain Range. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 2957-2975	7.2	41
62	A Dual Active Bridge Converter With an Extended High-Efficiency Range by DC Blocking Capacitor Voltage Control. <i>IEEE Transactions on Power Electronics</i> , <b>2018</b> , 33, 5949-5966	7.2	41
61	Estimating battery lifetimes in Solar Home System design using a practical modelling methodology. <i>Applied Energy</i> , <b>2018</b> , 228, 1629-1639	10.7	41
60	Grid Impact of Electric Vehicle Fast Charging Stations: Trends, Standards, Issues and Mitigation Measures - An Overview. <i>IEEE Open Journal of Power Electronics</i> , <b>2021</b> , 2, 56-74	2.5	34
59	Application Criteria for Nine-Switch Power Conversion Systems with Improved Thermal Performance. <i>IEEE Transactions on Power Electronics</i> , <b>2015</b> , 30, 4608-4620	7.2	31
58	An Improved Stray Capacitance Model for Inductors. <i>IEEE Transactions on Power Electronics</i> , <b>2019</b> , 34, 11153-11170	7.2	28
57	Exploring the boundaries of Solar Home Systems (SHS) for off-grid electrification: Optimal SHS sizing for the multi-tier framework for household electricity access. <i>Applied Energy</i> , <b>2019</b> , 240, 907-917	10.7	24
56	. <i>IEEE Transactions on Industry Applications</i> , <b>2019</b> , 55, 1752-1764	4.3	21
55	Stochastic load profile construction for the multi-tier framework for household electricity access using off-grid DC appliances. <i>Energy Efficiency</i> , <b>2020</b> , 13, 197-215	3	18
54	Investigation into the control methods to reduce the DC-link capacitor ripple current in a back-to-back converter <b>2014</b> ,		15
53	Zero Voltage Switching Criteria of Triple Active Bridge Converter. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 5425-5439	7.2	14
52	Quantifying the Benefits of a Solar Home System-Based DC Microgrid for Rural Electrification. <i>Energies</i> , <b>2019</b> , 12, 938	3.1	13

51	A Rotating Speed Controller Design Method for Power Leveling by Means of Inertia Energy in Wind Power Systems. <i>IEEE Transactions on Energy Conversion</i> , <b>2015</b> , 30, 1052-1060	5.4	13
50	Constructing Accurate Equivalent Electrical Circuit Models of Lithium Iron Phosphate and Lead-Acid Battery Cells for Solar Home System Applications. <i>Energies</i> , <b>2018</b> , 11, 2305	3.1	13
49	A dual voltage control strategy for single-phase PWM converters with power decoupling function <b>2014</b> ,		11
48	Evaluation of current stresses in nine-switch energy conversion systems. <i>IET Power Electronics</i> , <b>2014</b> , 7, 2877-2886	2.2	11
47	Modelling and analysis of the transformer current resonance in dual active bridge converters <b>2017</b> ,		10
46	DQ reference frame modeling and control of single-phase active power decoupling circuits <b>2015</b> ,		10
45	A Digitally Controlled Three-Phase Cycloconverter Type High Frequency AC Link Inverter Using Space Vector Modulation. <i>Journal of Power Electronics</i> , <b>2011</b> , 11, 28-36	0.9	10
44	A new second-order generalized integrator based quadrature signal generator with enhanced performance <b>2016</b> ,		10
43	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , <b>2020</b> , 8, 2430-2444	5.6	10
42	. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 36, 2231-2245	7.2	10
41	Benchmark of AC and DC active power decoupling circuits for second-order harmonic mitigation in kW-scale single-phase inverters <b>2015</b> ,		9
40	Modulation Schemes With Enhanced Switch Thermal Distribution for Single-Phase AC/DC/AC Reduced-Switch Converters. <i>IEEE Transactions on Power Electronics</i> , <b>2016</b> , 31, 3302-3313	7.2	8
39	A reconfigurable series resonant DC-DC converter for wide-input and wide-output voltages <b>2017</b> ,		8
38	The feasibility study on thermal loading control of wind power converters with a flexible switching frequency <b>2015</b> ,		8
37	Transformer Current Ringing in Dual Active Bridge Converters. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 1-1	8.9	8
36	Wind turbine drivetrains: state-of-the-art technologies and future development trends. <i>Wind Energy Science</i> , <b>2022</b> , 7, 387-411	3.2	8
35	The Long Road to Universal Electrification: A Critical Look at Present Pathways and Challenges. <i>Energies</i> , <b>2020</b> , 13, 508	3.1	7
34	Data-Driven Fault Diagnosis of Lithium-Ion Battery Overdischarge in Electric Vehicles. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 37, 4575-4588	7.2	7

33	On the Protection of the Power Flow Control Converter in Meshed Low Voltage DC Networks <b>2018,</b>		6
32	A partially rated DC-DC converter for power flow control in meshed LVDC distribution grids <b>2018,</b>		5
31	Evaluation of switch currents in nine-switch energy conversion systems <b>2013,</b>		5
30	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 11696-11706	8.9	5
29	A transformerless single-phase symmetrical Z-source HERIC inverter with reduced leakage currents for PV systems <b>2018,</b>		4
28	Winding design of series AC inductor for dual active bridge converters <b>2018,</b>		4
27	Power loss benchmark of nine-switch converters in three-phase online-UPS application <b>2014,</b>		4
26	Parallel-connected three-phase inverters for railway auxiliary power supply without sensing output currents <b>2012,</b>		4
25	. <i>IEEE Transactions on Power Electronics</i> , <b>2021</b> , 1-1	7.2	4
24	Design of a Power Flow Control Converter for Bipolar Meshed LVDC Distribution Grids <b>2018,</b>		4
23	Modelling, Analysis and Mitigation of the Transformer Current Ringing in Dual Active Bridge Converters <b>2018,</b>		4
22	Modeling and Optimization of Displacement Windings for Transformers in Dual Active Bridge Converters <b>2018,</b>		4
21	A modeling methodology to evaluate the impact of temperature on Solar Home Systems for rural electrification <b>2018,</b>		4
20	An Overview on Medium Voltage Grid Integration of Ultra-fast Charging Stations: Current Status and Future Trends. <i>IEEE Open Journal of the Industrial Electronics Society</i> , <b>2022</b> , 1-1	3.6	4
19	<b>2018,</b>		3
18	A family of cost-effective magnetically-coupled impedance source inverters <b>2017,</b>		3
17	<b>2020,</b>		3
16	Unbalanced Voltage/Power Control in Bipolar DC Distribution Grids Using Power Flow Controller <b>2020,</b>		3

15	Output Impedance Modelling and Sensitivity Study of Grid-Feeding Inverters with Dual Current Control <b>2019</b> ,		3
14	Decoupling Control of Multiactive Bridge Converters Using Linear Active Disturbance Rejection. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 68, 10688-10698	8.9	3
13	Reliability-oriented energy storage sizing in wind power systems <b>2014</b> ,		2
12	Design criteria of solid-state circuit breaker for low-voltage microgrids. <i>IET Power Electronics</i> , <b>2021</b> , 14, 1284-1299	2.2	2
11	Design, modelling and evaluation of a GaN based motor drive for a solar car <b>2019</b> ,		2
10	Suitable Submodule Switch Rating for Medium Voltage Modular Multilevel Converter Design <b>2018</b> ,		2
9	A voltage doubler circuit to extend the soft-switching range of dual active bridge converters <b>2017</b> ,		1
8	Modulation Schemes for Single-Phase B6 Converters With Two Asymmetrical Terminal Voltages. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 49-59	8.9	1
7	Modeling and Control of DC-DC Converters <b>2018</b> , 69-92		1
6	A three-phase boost-type grid-connected inverter based on synchronous reference frame control <b>2012</b> ,		1
5	Coordination Control of Power Flow Controller and Hybrid DC Circuit Breaker in MVDC Distribution Networks. <i>Journal of Modern Power Systems and Clean Energy</i> , <b>2021</b> , 9, 1257-1268	4	1
4	Modelling of Output Admittance Coupling Between Shunt Active Power Filters and Non-linear Loads <b>2019</b> ,		1
3	Low-Voltage dc System Building Blocks: Integrated Power Flow Control and Short Circuit Protection. <i>IEEE Industrial Electronics Magazine</i> , <b>2021</b> , 2-16	6.2	1
2	An online data driven fault diagnosis and thermal runaway early warning for electric vehicle batteries. <i>IEEE Transactions on Power Electronics</i> , <b>2022</b> , 1-1	7.2	1
1	Guidelines for Stability Analysis of the DDSRF-PLL Using LTI and LTP Modelling in the Presence of Imbalance. <i>IEEE Open Journal of the Industrial Electronics Society</i> , <b>2022</b> , 1-1	3.6	1