

Zhongyi Quan

List of Publications by Year in descending order

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43
papers

1,191
citations

471477

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43
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43
docs citations

43
times ranked

1053
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of energy efficient direct pump controlled cylinder electro-hydraulic technology. Renewable and Sustainable Energy Reviews, 2014, 35, 336-346.	16.4	154
2	Noise-Immune Model Identification and State-of-Charge Estimation for Lithium-Ion Battery Using Bilinear Parameterization. IEEE Transactions on Industrial Electronics, 2021, 68, 312-323.	7.9	140
3	Battery-Involved Energy Management for Hybrid Electric Bus Based on Expert-Assistance Deep Deterministic Policy Gradient Algorithm. IEEE Transactions on Vehicular Technology, 2020, 69, 12786-12796.	6.3	132
4	Deep Deterministic Policy Gradient-DRL Enabled Multiphysics-Constrained Fast Charging of Lithium-Ion Battery. IEEE Transactions on Industrial Electronics, 2022, 69, 2588-2598.	7.9	110
5	A Three-Level Space Vector Modulation Scheme for Paralleled Converters to Reduce Circulating Current and Common-Mode Voltage. IEEE Transactions on Power Electronics, 2017, 32, 703-714.	7.9	91
6	Suppressing Zero-Sequence Circulating Current of Modular Interleaved Three-Phase Converters Using Carrier Phase Shift PWM. IEEE Transactions on Industry Applications, 2017, 53, 3782-3792.	4.9	59
7	State of Health Estimation of Lithium-Ion Battery Based on Constant-Voltage Charging Reconstruction. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 4393-4402.	5.4	49
8	Signal-Disturbance Interfacing Elimination for Unbiased Model Parameter Identification of Lithium-Ion Battery. IEEE Transactions on Industrial Informatics, 2021, 17, 5887-5897.	11.3	43
9	Impact of PWM Schemes on the Common-Mode Voltage of Interleaved Three-Phase Two-Level Voltage Source Converters. IEEE Transactions on Industrial Electronics, 2019, 66, 852-864.	7.9	36
10	Vector Shifted Model Predictive Power Control of Three-Level Neutral-Point-Clamped Rectifiers. IEEE Transactions on Industrial Electronics, 2020, 67, 7157-7166.	7.9	35
11	Interface of Engineered Dendrite-Free Anode and Ultraconductive Cathode for Durable and High-Rate Fiber Zn Dual-Ion Microbattery. Advanced Functional Materials, 2021, 31, 2008894.	14.9	35
12	Common-Mode Voltage Reduction for Parallel CSC-Fed Motor Drives With Multilevel Modulation. IEEE Transactions on Power Electronics, 2018, 33, 6555-6566.	7.9	28
13	Phase-Disposition PWM Based 2DoF-Interleaving Scheme for Minimizing High Frequency ZSCC in Modular Parallel Three-Level Converters. IEEE Transactions on Power Electronics, 2019, 34, 10590-10599.	7.9	28
14	SVM Strategies for Common-Mode Current Reduction in Transformerless Current-Source Drives at Low Modulation Index. IEEE Transactions on Power Electronics, 2017, 32, 1312-1323.	7.9	26
15	A Survey of Powertrain Technologies for Energy-Efficient Heavy-Duty Machinery. Proceedings of the IEEE, 2021, 109, 279-308.	21.3	26
16	Multilevel Voltage-Source Converter Topologies With Internal Parallel Modularity. IEEE Transactions on Industry Applications, 2020, 56, 378-389.	4.9	22
17	A Centralized CB-MPC to Suppress Low-Frequency ZSCC in Modular Parallel Converters. IEEE Transactions on Industrial Electronics, 2021, 68, 2760-2771.	7.9	21
18	Hybrid Model Predictive Control of ANPC Converters With Decoupled Low-Frequency and High-Frequency Cells. IEEE Transactions on Power Electronics, 2020, 35, 8569-8580.	7.9	17

#	ARTICLE	IF	CITATIONS
19	A Simple Desaturation-Based Protection Circuit for GaN HEMT With Ultrafast Response. IEEE Transactions on Power Electronics, 2021, 36, 6978-6987.	7.9	16
20	A Hybrid-Driven Elevator System With Energy Regeneration and Safety Enhancement. IEEE Transactions on Industrial Electronics, 2020, 67, 7715-7726.	7.9	12
21	Model Predictive Control of a Nine-Level Internal Parallel Multilevel Converter With Phase-Shifted Pulsewidth Modulation. IEEE Transactions on Industrial Electronics, 2020, 67, 9073-9082.	7.9	12
22	A General Constant-Switching-Frequency Model-Predictive Control of Multilevel Converters With Quasi-PS-PWM/LS-PWM Output. IEEE Transactions on Power Electronics, 2020, 35, 12429-12441.	7.9	11
23	Reconsideration of Grid-Friendly Low-Order Filter Enabled by Parallel Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 3177-3188.	5.4	11
24	Harmonic analysis of interleaved voltage source converters and tri-carrier PWM strategies for three-level converters. , 2017, , .		10
25	Derivation of multilevel voltage source converter topologies for medium voltage drives. Chinese Journal of Electrical Engineering, 2017, 3, 24-31.	3.4	9
26	Systematic Synthesis and Derivation of Multilevel Converters Using Common Topological Structures With Unified Matrix Models. IEEE Transactions on Power Electronics, 2020, 35, 5639-5659.	7.9	8
27	Unified Fast-Dynamic Direct-Current Control Scheme for Intermediary Inductive AC-Link Isolated DC-DC Converters. IEEE Open Journal of Power Electronics, 2021, 2, 383-400.	5.7	7
28	General Bi-Tri Logic SPWM for Current Source Converter With Optimized Zero-State Replacement. IEEE Transactions on Power Electronics, 2021, 36, 11372-11382.	7.9	7
29	Suppression of common mode circulating current for modular paralleled three-phase converters based on interleaved carrier phase-shift PWM. , 2016, , .		6
30	Design of Interleaved Converters with Minimum Filtering Requirement. , 2019, , .		6
31	Impact of carrier phase shift PWM on the DC link current of single and interleaved three-phase voltage source converters. , 2017, , .		5
32	Internal paralleled active neutral point clamped converter with logic-based flying capacitor voltage balancing. , 2017, , .		5
33	Multilevel Converter Topologies with Internally Paralleled Power Stages. , 2018, , .		4
34	Passive Filter Design to Mitigate Dead-Time Effects in Three-Level T-Type NPC Transformerless PV Inverters Modulated with Zero CMV PWM. , 2018, , .		3
35	Simplified Predictive Duty Cycle Control of Multilevel Converters With Internal Identical Structure. IEEE Transactions on Power Electronics, 2020, 35, 12416-12428.	7.9	3
36	A three-level space vector modulation scheme for paralleled two converters to reduce zero-sequence circulating current and common mode voltage. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
37	Common-mode resonance suppression for parallel CSC-fed high power medium voltage drives with multilevel modulation. , 2017, , .		1
38	Design and Test of a GaN Flying Capacitor Power Module. , 2020, , .		1
39	Design of Parallel Converters with L-Filter and Reduced Filter Size. , 2019, , .		0
40	Hybrid Model Predictive Control of Active-Neutral-Point-Clamped Multilevel Converters. , 2019, , .		0
41	Model Predictive Control of 5L-ANPC Converters with Level-Shifted Pulse-Width-Modulation. , 2020, , .		0
42	Simplified Model Predictive Control of Multilevel Converters With Internal Identical Structure. , 2020, , .		0
43	Design Considerations of the GaN Power Stage for a GaN/Si Internal Parallel Multilevel Converter based 1500V PV String Inverter. , 2020, , .		0