

Julia Zhang

List of Publications by Year in descending order

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379
citing authors

#	ARTICLE	IF	CITATIONS
1	7-kV 1-MVA SiC-Based Modular Multilevel Converter Prototype for Medium-Voltage Electric Machine Drives. IEEE Transactions on Power Electronics, 2020, 35, 10137-10149.	5.4	62
2	Modeling and Verification of Electrical Stress in Inverter-Driven Electric Machine Windings. IEEE Transactions on Industry Applications, 2019, 55, 5818-5829.	3.3	39
3	Hardware design of a 1.7 kV SiC MOSFET based MMC for medium voltage motor drives. , 2018, , .		36
4	Analytical Analysis and Performance Characterization of Brushless Doubly Fed Machines With Multibarrier Rotors. IEEE Transactions on Industry Applications, 2019, 55, 5758-5767.	3.3	32
5	Permanent-Magnet Demagnetization Design and Validation. IEEE Transactions on Industry Applications, 2016, 52, 2961-2970.	3.3	25
6	Capacitor Voltage Ripple Estimation and Optimal Sizing of Modular Multi-Level Converters for Variable-Speed Drives. IEEE Transactions on Power Electronics, 2020, 35, 12544-12554.	5.4	22
7	Voltage Stress Modeling and Measurement for Random-Wound Machine Windings Driven by Inverters. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	20
8	DC Bus Capacitor Discharge of Permanent-Magnet Synchronous Machine Drive Systems for Hybrid Electric Vehicles. IEEE Transactions on Industry Applications, 2017, 53, 1399-1405.	3.3	19
9	A Partial Discharge Study of Medium-Voltage Motor Winding Insulation Under Two-Level Voltage Pulses With High Dv/Dt. IEEE Open Journal of Power Electronics, 2021, 2, 225-235.	4.0	16
10	Optimal submodule capacitor sizing for modular multilevel converters with common mode voltage injection and circulating current control. , 2017, , .		12
11	Voltage Stress Modeling and Measurement for Random-Wound Windings Driven by Inverters. , 2019, , .		10
12	Single-Submodule Open-Circuit Fault Diagnosis for a Modular Multi-level Converter Using Artificial Intelligent-based Techniques. , 2019, , .		10
13	Zero-Cost Closed-Loop Discharging Method for Modular Multilevel Converter Submodules Without External Circuits. IEEE Transactions on Industry Applications, 2019, 55, 4846-4854.	3.3	10
14	High-speed and High-dynamic Variable Frequency Drive Using Modular Multilevel Converter and SiC Devices. , 2019, , .		9
15	Modeling and Verification of Electrical Stress in Inverter-Driven Electric Machine Windings. , 2018, , .		8
16	Control of Variable Frequency Drive PWM to Mitigate Motor Overvoltage Due to Double Pulsing in Reflected Wave Phenomenon. , 2018, , .		8
17	Finite element analysis modeling and experimental verification of reflected wave phenomena in variable speed machine drive cables. , 2017, , .		7
18	Circulating Current Resonant Oscillation in Modular Multilevel Converters for Variable Frequency Operation and Its Suppression Method. , 2018, , .		7

#	ARTICLE	IF	CITATIONS
19	DC bus capacitor discharge of permanent magnet synchronous machine drive systems for hybrid electric vehicles. , 2016, , .		5
20	Time-Dependent Demagnetization of NdFeB Magnets Under DC and Pulsed Magnetic Fields. IEEE Transactions on Magnetics, 2020, 56, 1-10.	1.2	5
21	Design of a Brushless Doubly-Fed Machine for Aviation Electric Propulsion. IEEE Transactions on Industry Applications, 2022, 58, 6057-6068.	3.3	5
22	Effects of external field orientation on permanent magnet demagnetization. , 2016, , .		4
23	Modeling power system buses using performance based earthquake engineering methods. , 2017, , .		4
24	Theoretical and Experimental Investigation of the Brushless Doubly-Fed Machine with a Multi-Barrier Rotor. , 2018, , .		4
25	Subharmonic reduction for six step operation of three-phase inverter. , 2015, , .		3
26	A Novel Discharging Control Strategy for Modular Multilevel Converter Submodules without Using External Circuit. , 2018, , .		3
27	Integrated Control and Performance Analysis of High-Speed Medium-Voltage Drive Using Modular Multilevel Converter. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 3692-3704.	3.7	3
28	Asymmetric stator teeth for torque ripple reduction of permanent magnet synchronous machines for hybrid electric vehicles. , 2014, , .		2
29	Permanet magnet demagnetization test fixture design and validation. , 2015, , .		2
30	Common Mode Votage Compensation for Capacitor Voltage Ripple Reduction of 7-kV SiC-based Modular Multilevel Converter. , 2018, , .		2
31	Design of a Variable-Flux Permanent Magnet Machine using Alnico 9 and Comparison with a Baseline Interior Permanent Magnet Machine. , 2019, , .		1
32	Rapid grid state estimation using Singular Value Decomposition similarity matching. , 2015, , .		0
33	Partial Discharge in Medium-voltage Motor Winding Insulation Exposed to Two-level PWM Waveforms. , 2019, , .		0