

Zishun Peng

List of Publications by Year in descending order

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27
papers

479
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687363

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g-index

27
all docs

27
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27
times ranked

398
citing authors

#	ARTICLE	IF	CITATIONS
1	Review and analysis of SiC MOSFETs™ ruggedness and reliability. IET Power Electronics, 2020, 13, 445-455.	2.1	78
2	Gate Control Optimization of Si/SiC Hybrid Switch for Junction Temperature Balance and Power Loss Reduction. IEEE Transactions on Power Electronics, 2019, 34, 1744-1754.	7.9	56
3	Droop Control Strategy Incorporating Coupling Compensation and Virtual Impedance for Microgrid Application. IEEE Transactions on Energy Conversion, 2019, , 1-1.	5.2	39
4	Enhanced particle swarm optimization with multi-swarm and multi-velocity for optimizing high-dimensional problems. Applied Intelligence, 2019, 49, 335-351.	5.3	39
5	Short-Circuit Ruggedness and Failure Mechanisms of Si/SiC Hybrid Switch. IEEE Transactions on Power Electronics, 2019, 34, 2771-2780.	7.9	37
6	Failure modes and mechanism analysis of SiC MOSFET under short-circuit conditions. Microelectronics Reliability, 2018, 88-90, 593-597.	1.7	32
7	Active Gate Delay Time Control of Si/SiC Hybrid Switch for Junction Temperature Balance Over a Wide Power Range. IEEE Transactions on Power Electronics, 2020, 35, 5354-5365.	7.9	31
8	Performance Comparison of Two Hybrid Si/SiC Device Concepts. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 42-53.	5.4	25
9	The Application of Microgrids Based on Droop Control with Coupling Compensation and Inertia. IEEE Transactions on Sustainable Energy, 2017, , 1-1.	8.8	20
10	A Variable-Frequency Current-Dependent Switching Strategy to Improve Tradeoff Between Efficiency and SiC MOSFET Overcurrent Stress in Si/SiC-Hybrid-Switch-Based Inverters. IEEE Transactions on Power Electronics, 2021, 36, 4877-4886.	7.9	20
11	Fault-Tolerant Inverter Operation Based on Si/SiC Hybrid Switches. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 545-556.	5.4	18
12	Detection and Identification of Power Switch Failures Using Discrete Fourier Transform for DC-DC Flying Capacitor Buck Converters. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 4062-4071.	5.4	15
13	Adaptive Gate Delay-Time Control of Si/SiC Hybrid Switch for Efficiency Improvement in Inverters. IEEE Transactions on Power Electronics, 2021, 36, 3437-3449.	7.9	15
14	A New Proportional Base Drive Technique for SiC Bipolar Junction Transistor. IEEE Transactions on Power Electronics, 2017, 32, 4600-4606.	7.9	14
15	An Improved SPICE Model of SiC BJT Incorporating Surface Recombination Effect. IEEE Transactions on Power Electronics, 2019, 34, 6794-6802.	7.9	9
16	Active Thermal Control of SiC/Si Hybrid Switch. , 2018, , .		7
17	Detection and identification of power switch failures for fault-tolerant operation of flying capacitor Buck-boost converters. Microelectronics Reliability, 2018, 88-90, 1236-1241.	1.7	7
18	An Improved VSG control strategy for Microgrid. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
19	Improved droop control strategy based on improved PSO algorithm. , 2017, , .		3
20	A modified behavior spice model for SiC BJT. , 2018, , .		3
21	Characteristics Simulation Method of Megawatt Three-Blade Horizontal Axis Wind Turbine Based on Laboratory Kilowatt Low-Power Motor System. IEEE Transactions on Industry Applications, 2022, 58, 645-655.	4.9	3
22	Improved particle swarm optimization algorithm and its application in power electronic controller. , 2017, , .		2
23	Design of Energy Router Based on SiC MOSFET/ SI IGBT Hybrid Device. , 2021, , .		1
24	A CM EMI Suppression Strategy for the Single-Phase Inverter Based on the Si/SiC Hybrid Switch. , 2020, , .		0
25	Parallel type based on Si-IGBT and SiC-MOSFET inverter Research on Multifunctional Power Supply. , 2021, , .		0
26	Redundancy Management Strategy for a Silicon/Silicon-Carbide Hybrid Switch-Based Modular Inverter System. Frontiers in Energy Research, 2022, 9, .	2.3	0
27	Study on the CM EMI Generation Characteristics of the Si/SiC Hybrid Switch at Different Switching Patterns and Gate Resistors. Frontiers in Electronics, 2022, 2, .	3.2	0