

Shiqi Ji

List of Publications by Year in descending order

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44
papers

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g-index

44
all docs

44
docs citations

44
times ranked

709
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of high voltage sic power semiconductor devices: development and application. CES Transactions on Electrical Machines and Systems, 2017, 1, 254-264.	3.5	133
2	Temperature-Dependent Characterization, Modeling, and Switching Speed-Limitation Analysis of Third-Generation 10-kV SiC MOSFET. IEEE Transactions on Power Electronics, 2018, 33, 4317-4327.	7.9	107
3	Series-Connected HV-IGBTs Using Active Voltage Balancing Control With Status Feedback Circuit. IEEE Transactions on Power Electronics, 2015, 30, 4165-4174.	7.9	95
4	Short-Circuit Characterization and Protection of 10-kV SiC MOSFET. IEEE Transactions on Power Electronics, 2019, 34, 1755-1764.	7.9	62
5	Active Clamping Circuit With Status Feedback for Series-Connected HV-IGBTs. IEEE Transactions on Industry Applications, 2014, 50, 3579-3590.	4.9	60
6	Design Considerations for High-Voltage Insulated Gate Drive Power Supply for 10-kV SiC MOSFET Applied in Medium-Voltage Converter. IEEE Transactions on Industrial Electronics, 2021, 68, 5712-5724.	7.9	52
7	HVIGBT Physical Model Analysis During Transient. IEEE Transactions on Power Electronics, 2013, 28, 2616-2624.	7.9	33
8	An FPGA-Based Voltage Balancing Control for Multi-HV-IGBTs in Series Connection. IEEE Transactions on Industry Applications, 2018, 54, 4640-4649.	4.9	28
9	Physical Model Analysis During Transient for Series-Connected HVIGBTs. IEEE Transactions on Power Electronics, 2014, 29, 5727-5737.	7.9	25
10	A Novel Voltage Balancing Control With $\frac{dv}{dt}$ Reduction for 10-kV SiC MOSFET-Based Medium Voltage Modular Multilevel Converter. IEEE Transactions on Power Electronics, 2020, 35, 12533-12543.	7.9	24
11	Medium Voltage (13.8 kV) Transformer-less Grid-Connected DC/AC Converter Design and Demonstration Using 10 kV SiC MOSFETs. , 2019, , .		21
12	Parasitic Capacitors' Impact on Switching Performance in a 10 kV SiC MOSFET Based Converter. , 2018, , .		19
13	Parameter design of voltage balancing circuit for series connected HV-IGBTs. , 2012, , .		16
14	Short circuit characterization of 3 rd generation 10 kV SiC MOSFET. , 2018, , .		15
15	Design Considerations of High-Voltage-Insulated Gate Drive Power Supply for 10 kV SiC MOSFET in Medium-Voltage Application. , 2019, , .		13
16	Design and Testing of a Modular Multilevel Converter Submodule Based on 10 kV SiC MOSFETs. , 2019, , .		13
17	Parameter Design of a Three-Level Converter Based on Series-Connected HV-IGBTs. IEEE Transactions on Industry Applications, 2014, 50, 3943-3954.	4.9	12
18	Modular Multilevel Converter (MMC) Modeling Considering Submodule Voltage Sensor Noise. IEEE Transactions on Power Electronics, 2021, 36, 1215-1219.	7.9	11

#	ARTICLE	IF	CITATIONS
19	Comprehensive Analysis and Improvement Methods of Noise Immunity of Desat Protection for High Voltage SiC MOSFETs With High DV/DT. IEEE Open Journal of Power Electronics, 2022, 3, 36-50.	5.7	11
20	Protection and temperature-dependent switching characterization of latest generation 10 kV SiC MOSFETs. , 2017, , .		10
21	An Inrush Current Limiting Method for Grid-Connected Converters Considering Grid Voltage Disturbances. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 2608-2618.	5.4	10
22	Impact of Body Diode and Anti-parallel JBS Diode on Switching Performance of 3 rd Generation 10 kV SiC MOSFET. , 2018, , .		9
23	Controller Development of an Asynchronous Microgrid Power Conditioning System (PCS) Converter Considering Grid Requirements. , 2020, , .		9
24	Impact of Submodule Voltage Sensor Noise in 10 kV SiC MOSFET Modular Multilevel Converters (MMCs) under High dv/dt Environment. , 2020, , .		9
25	A Robust 10 kV SiC MOSFET Gate Driver with Fast Overcurrent Protection Demonstrated in a MMC Submodule. , 2020, , .		8
26	Controller Design and Implementation of a Medium Voltage (13.8 kV) Modular Multi-Level Converter for Asynchronous Microgrids. , 2020, , .		8
27	Laminated busbar design and stray parameter analysis of three-level converter based on HVIGBT series connection. , 2015, , .		7
28	Active voltage balancing control for 10kV three-level converter using series-connected HV-IGBTs. , 2016, , .		7
29	Improving Voltage Sensor Noise Immunity in a High Voltage and High dv/dt Environment. , 2020, , .		5
30	Paralleling Operation of 10 kV SiC MOSFET-Based Modular Multi-Level Converters (MMCs) for Scalable Asynchronous Microgrid Power Conditioning System. , 2021, , .		5
31	10 kV SiC MOSFET Based Medium Voltage Power Conditioning System for Asynchronous Microgrids. IEEE Access, 2022, 10, 73294-73308.	4.2	5
32	A 13.8 kV, 100 kVA Multi-functional MMC-Based Asynchronous Microgrid Power Conditioning System with 10 kV SiC MOSFETs. , 2021, , .		4
33	Noise Immunity of Desat Protection Circuitry for High Voltage SiC MOSFETs with High dv/dt. , 2021, , .		4
34	Design of voltage balancing control circuit for series connected HV-IGBTs. , 2013, , .		3
35	Behavior model for series connected high voltage IGBTs. , 2014, , .		3
36	Physical model with parameter extraction method for Fuji Electric 1.7kV IGBT. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
37	A Test Scheme for the Comprehensive Qualification of MMC Submodule Based on 10 kV SiC MOSFETs under High dv/dt. , 2020, , .		3
38	Structure design and analysis of high voltage IGBTs series connection experimental platform. , 2012, , .		2
39	Series-connected HV-IGBTs using active voltage control with status feedback circuit. , 2014, , .		2
40	HVIGBT physical model analysis during transient. , 2011, , .		1
41	Analysis and Gate Driver Design Considerations of 10 kV SiC MOSFETs under Flashover Fault due to Insulation Failure. , 2020, , .		1
42	Evaluation of Primary-Side-Regulated and Secondary-Side-Regulated High-Insulated Gate Drive Power Supply for 10-kV SiC MOSFET. , 2020, , .		1
43	Modelling of high voltage IGBT with easy parameter extraction. , 2012, , .		0
44	Discrete-State Event-Driven Numerical Prototyping of Megawatt Solid-State Transformers and AC/DC Hybrid Microgrids. IEEE Access, 2021, 9, 108329-108339.	4.2	0