

# Shiqi Ji

## List of Publications by Year in descending order

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44  
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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	10 kV SiC MOSFET Based Medium Voltage Power Conditioning System for Asynchronous Microgrids. IEEE Access, 2022, 10, 73294-73308.	4.2	5
4	Modular Multilevel Converter (MMC) Modeling Considering Submodule Voltage Sensor Noise. IEEE Transactions on Power Electronics, 2021, 36, 1215-1219.	7.9	11
5	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
6	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
7	A 13.8 kV, 100 kVA Multi-functional MMC-Based Asynchronous Microgrid Power Conditioning System with 10 kV SiC MOSFETs. , 2021, , .		4
8	Paralleling Operation of 10 kV SiC MOSFET-Based Modular Multi-Level Converters (MMCs) for Scalable Asynchronous Microgrid Power Conditioning System. , 2021, , .		5
9	Noise Immunity of Desat Protection Circuitry for High Voltage SiC MOSFETs with High dv/dt. , 2021, , .		4
10	A Robust 10 kV SiC MOSFET Gate Driver with Fast Overcurrent Protection Demonstrated in a MMC Submodule. , 2020, , .		8
11	Controller Development of an Asynchronous Microgrid Power Conditioning System (PCS) Converter Considering Grid Requirements. , 2020, , .		9
12	Controller Design and Implementation of a Medium Voltage (13.8 kV) Modular Multi-Level Converter for Asynchronous Microgrids. , 2020, , .		8
13	A Novel Voltage Balancing Control With $\langle i \rangle dv/dt \langle /i \rangle$ Reduction for 10-kV SiC MOSFET-Based Medium Voltage Modular Multilevel Converter. IEEE Transactions on Power Electronics, 2020, 35, 12533-12543.	7.9	24
14	Improving Voltage Sensor Noise Immunity in a High Voltage and High dv/dt Environment. , 2020, , .		5
15	Impact of Submodule Voltage Sensor Noise in 10 kV SiC MOSFET Modular Multilevel Converters (MMCs) under High dv/dt Environment. , 2020, , .		9
16	A Test Scheme for the Comprehensive Qualification of MMC Submodule Based on 10 kV SiC MOSFETs under High dv/dt. , 2020, , .		3
17	Analysis and Gate Driver Design Considerations of 10 kV SiC MOSFETs under Flashover Fault due to Insulation Failure. , 2020, , .		1
18	Evaluation of Primary-Side-Regulated and Secondary-Side-Regulated High-Insulated Gate Drive Power Supply for 10-kV SiC MOSFET. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Short-Circuit Characterization and Protection of 10-kV SiC <math>\text{MOSFET}</math>, IEEE Transactions on Power Electronics, 2019, 34, 1755-1764.	7.9	62
20	Design Considerations of High-Voltage-Insulated Gate Drive Power Supply for 10 kV SiC MOSFET in Medium-Voltage Application. , 2019, , .		13
21	Medium Voltage (13.8 kV) Transformer-less Grid-Connected DC/AC Converter Design and Demonstration Using 10 kV SiC MOSFETs. , 2019, , .		21
22	Design and Testing of a Modular Multilevel Converter Submodule Based on 10 kV SiC MOSFETs. , 2019, , .		13
23	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
24	Impact of Body Diode and Anti-parallel JBS Diode on Switching Performance of 3 <sup>rd</sup> Generation 10 kV SiC MOSFET. , 2018, , .		9
25	Parasitic Capacitors' Impact on Switching Performance in a 10 kV SiC MOSFET Based Converter. , 2018, , .		19
26	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
27	Short circuit characterization of 3 <sup>rd</sup> generation 10 kV SiC MOSFET. , 2018, , .		15
28	Protection and temperature-dependent switching characterization of latest generation 10 kV SiC MOSFETs. , 2017, , .		10
29	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
30	Active voltage balancing control for 10kV three-level converter using series-connected HV-IGBTs. , 2016, , .		7
31	Physical model with parameter extraction method for Fuji Electric 1.7kV IGBT. , 2015, , .		3
32	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
33	Laminated busbar design and stray parameter analysis of three-level converter based on HVIGBT series connection. , 2015, , .		7
34	Series-connected HV-IGBTs using active voltage control with status feedback circuit. , 2014, , .		2
35	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
36	Behavior model for series connected high voltage IGBTs. , 2014, , .		3

#	ARTICLE	IF	CITATIONS
37	Physical Model Analysis During Transient for Series-Connected HVIGBTs. IEEE Transactions on Power Electronics, 2014, 29, 5727-5737.	7.9	25
38	Active Clamping Circuit With Status Feedback for Series-Connected HV-IGBTs. IEEE Transactions on Industry Applications, 2014, 50, 3579-3590.	4.9	60
39	HVIGBT Physical Model Analysis During Transient. IEEE Transactions on Power Electronics, 2013, 28, 2616-2624.	7.9	33
40	Design of voltage balancing control circuit for series connected HV-IGBTs. , 2013, , .		3
41	Modelling of high voltage IGBT with easy parameter extraction. , 2012, , .		0
42	Structure design and analysis of high voltage IGBTs series connection experimental platform. , 2012, , .		2
43	Parameter design of voltage balancing circuit for series connected HV-IGBTs. , 2012, , .		16
44	HVIGBT physical model analysis during transient. , 2011, , .		1