

Xiangyu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	SiC-Based 5-kV Universal Modular Soft-Switching Solid-State Transformer (M-S4T) for Medium-Voltage DC Microgrids and Distribution Grids. IEEE Transactions on Power Electronics, 2021, 36, 11326-11343.	7.9	49
2	Modular Universal Converter for MVDC Applications. , 2018, , .		34
3	7.2 kV Three-Port Single-Phase Single-Stage Modular Soft-Switching Solid-State Transformer with Active Power Decoupling and Reduced DC-Link. , 2020, , .		24
4	Characterization of 3.3-kV Reverse-Blocking SiC Modules for Use in Current-Source Zero-Voltage-Switching Converters. IEEE Transactions on Power Electronics, 2021, 36, 876-887.	7.9	19
5	7.2 kV Three-Port SiC Single-Stage Current-Source Solid-State Transformer With 90 kV Lightning Protection. IEEE Transactions on Power Electronics, 2022, 37, 12080-12094.	7.9	16
6	Insulation Coordination Design for Grid-Connected Solid-State Transformers. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 3746-3758.	5.4	9
7	A Tri-Port Current-Source Soft-Switching Medium-Voltage String Inverter for Large-Scale Solar-Plus-Storage Farms. IEEE Transactions on Power Electronics, 2022, 37, 13808-13823.	7.9	9
8	Analysis of thermal cycling stress on semiconductor devices of the Modular Multilevel Converter for drive applications. , 2016, , .		8
9	Junction temperature estimation of SiC MOSFETs based on Extended Kalman Filtering. , 2018, , .		8
10	Laminated Permanent Magnets Enable Compact Magnetic Components in Current-Source Converters. IEEE Transactions on Power Electronics, 2022, 37, 12391-12405.	7.9	6
11	DC-Link Current Minimization Control for Current Source Converter-Based Solid-State Transformer. IEEE Transactions on Power Electronics, 2022, 37, 11865-11875.	7.9	4
12	Soft-Switching Characterization of 3.3 kV Reverse-blocking SiC Devices. , 2018, , .		3
13	Real-Time Modeling and HIL Simulation of Stacked Low-Inertia Converters with Soft-Switching and Fast Dynamic Control. , 2019, , .		3
14	Estimation of Eddy Current Winding Losses in Soft-Switching Solid-State Transformer. , 2019, , .		2
15	Dynamic DC-Link Current Minimization Control to Improve Current-Source Solid-State Transformer Efficiency. , 2020, , .		2
16	Design of Control Architecture for Stacked Low-Inertia Converters with Fast Dynamic Control. , 2020, , .		2
17	Laminated Permanent Magnets Enable Compact Magnetic Components in Current Source Converters. , 2021, , .		1