

# Jiangchao Qin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2301039/publications.pdf>

Version: 2024-02-01

29  
papers

2,943  
citations

840776

11  
h-index

996975

15  
g-index

29  
all docs

29  
docs citations

29  
times ranked

2179  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase-Unsynchronized Power Decoupling Control of MMC Based on Feedback Linearization. IEEE Transactions on Power Electronics, 2022, 37, 2946-2958.	7.9	10
2	Analysis of Capacitor Charging Characteristics and Low-Frequency Ripple Mitigation by Two New Voltage-Balancing Strategies for MMC-Based Solid-State Transformers. IEEE Transactions on Power Electronics, 2021, 36, 1004-1017.	7.9	19
3	Inequality Constraints Based Method for Fast Estimation of Droop Slope Stability Regions for MMC-Based MTDC Systems. IEEE Transactions on Power Delivery, 2021, 36, 3689-3700.	4.3	8
4	Improved equivalent circuit model of MMC and influence analysis of simulation time step. IET Power Electronics, 2020, 13, 2212-2221.	2.1	3
5	Harmonic circulation and DC voltage instability mechanism of parallel SVC system. IET Renewable Power Generation, 2020, 14, 793-802.	3.1	10
6	Component Sizing and Voltage Balancing of MMC-based Solid-State Transformers Under Various AC-Link Excitation Voltage Waveforms. , 2019, , .		7
7	Analysis of Negative Influence of Harmonic Circulation between Parallel STATCOMs and Suppression Method. , 2019, , .		1
8	A Simple Technique for In-circuit Core Loss Measurement of Medium Frequency Transformer. , 2019, , .		0
9	MATLAB/Simulink-Based Electromagnetic Transient-Transient Stability Hybrid Simulation for Electric Power Systems with Converter Interfaced Generation. , 2019, , .		6
10	Design and Performance Evaluation of the Modular Multilevel Converter (MMC)-based Grid-tied PV-Battery Conversion System. , 2018, , .		17
11	Novel Control Approach for Modular Multilevel Converter Based on $\alpha$ Reference Frame Without PLL. , 2018, , .		3
12	Impact of Low-Frequency Ripple on Lifetime of Battery in MMC-based Battery Storage Systems. , 2018, , .		22
13	Investigation of Optimal Excitation Waveforms for Medium Frequency Transformers. , 2018, , .		3
14	Optimization of Delay Time between Gate Signals for Si/SiC Hybrid Switch. , 2018, , .		9
15	A Generalized Precharging Strategy for Soft Startup Process of the Modular Multilevel Converter-Based HVDC Systems. IEEE Transactions on Industry Applications, 2017, 53, 5645-5657.	4.9	37
16	Efficiency optimization design of DC-DC solid state transformer based on modular multilevel converters. , 2017, , .		8
17	Modeling, control, and protection of modular multilevel converter-based multi-terminal HVDC systems: A review. CSEE Journal of Power and Energy Systems, 2017, 3, 340-352.	1.1	168
18	Efficient modeling of hybrid MMCs for HVDC systems. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	Precharging strategy for soft startup process of modular multilevel converters based on various SM circuits. , 2016, , .		9
20	Phasor Domain Steady-State Modeling and Design of the DC-DC Modular Multilevel Converter. IEEE Transactions on Power Delivery, 2016, 31, 2054-2063.	4.3	42
21	Analysis, Detection, and Location of Open-Switch Submodule Failures in a Modular Multilevel Converter. IEEE Transactions on Power Delivery, 2016, 31, 155-164.	4.3	111
22	A Postfault Strategy to Control the Modular Multilevel Converter Under Submodule Failure. IEEE Transactions on Power Delivery, 2016, 31, 2453-2463.	4.3	48
23	SubModule failure detection methods for the modular multilevel converter. , 2015, , .		3
24	Hybrid Design of Modular Multilevel Converters for HVDC Systems Based on Various Submodule Circuits. IEEE Transactions on Power Delivery, 2015, 30, 385-394.	4.3	311
25	A Zero-Sequence Voltage Injection-Based Control Strategy for a Parallel Hybrid Modular Multilevel HVDC Converter System. IEEE Transactions on Power Delivery, 2015, 30, 728-736.	4.3	35
26	Efficiency Evaluation of the Modular Multilevel Converter Based on Si and SiC Switching Devices for Medium/High-Voltage Applications. IEEE Transactions on Electron Devices, 2015, 62, 286-293.	3.0	57
27	Operation, Control, and Applications of the Modular Multilevel Converter: A Review. IEEE Transactions on Power Electronics, 2015, 30, 37-53.	7.9	1,813
28	A distributed PWM strategy for modular multilevel converter. , 2014, , .		5
29	Reduced Switching-Frequency Voltage-Balancing Strategies for Modular Multilevel HVDC Converters. IEEE Transactions on Power Delivery, 2013, 28, 2403-2410.	4.3	176