# Jiangchao Qin

List of Publications by Year
in descending order

| 29 papers | 2,943 citations | 840776<br>11 h-index | 996975<br>15 g-index |
|---|---|---|---|
| 29 all docs | 29 docs citations | 29 times ranked | 2179 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Operation, Control, and Applications of the Modular Multilevel Converter: A Review. IEEE Transactions on Power Electronics, 2015, 30, 37-53. | 7.9 | 1,813 |
| 2 | 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 |
| 3 | Reduced Switching-Frequency Voltage-Balancing Strategies for Modular Multilevel HVDC Converters. IEEE Transactions on Power Delivery, 2013, 28, 2403-2410. | 4.3 | 176 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | A Postfault Strategy to Control the Modular Multilevel Converter Under Submodule Failure. IEEE Transactions on Power Delivery, 2016, 31, 2453-2463. | 4.3 | 48 |
| 8 | 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 |
| 9 | 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 |
| 10 | 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 |
| 11 | Impact of Low-Frequency Ripple on Lifetime of Battery in MMC-based Battery Storage Systems. , 2018, , . | | 22 |
| 12 | 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 |
| 13 | Design and Performance Evaluation of the Modular Multilevel Converter (MMC)-based Grid-tied PV-Battery Conversion System. , 2018, , . | | 17 |
| 14 | Harmonic circulation and DC voltage instability mechanism of parallel–SVG system. IET Renewable Power Generation, 2020, 14, 793-802. | 3.1 | 10 |
| 15 | Phase-Unsynchronized Power Decoupling Control of MMC Based on Feedback Linearization. IEEE Transactions on Power Electronics, 2022, 37, 2946-2958. | 7.9 | 10 |
| 16 | Precharging strategy for soft startup process of modular multilevel converters based on various SM circuits. , 2016, , . | | 9 |
| 17 | Optimization of Delay Time between Gate Signals for Si/SiC Hybrid Switch. , 2018, , . | | 9 |
| 18 | Efficiency optimization design of DC-DC solid state transformer based on modular multilevel converters. , 2017, , . | | 8 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | 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 |
| 20 | Component Sizing and Voltage Balancing of MMC-based Solid-State Transformers Under Various AC-Link Excitation Voltage Waveforms. , 2019, , . | | 7 |
| 21 | MATLAB/Simulink-Based Electromagnetic Transient-Transient Stability Hybrid Simulation for Electric Power Systems with Converter Interfaced Generation. , 2019, , . | | 6 |
| 22 | A distributed PWM strategy for modular multilevel converter. , 2014, , . | | 5 |
| 23 | SubModule failure detection methods for the modular multilevel converter. , 2015, , . | | 3 |
| 24 | Novel Control Approach for Modular Multilevel Converter Based on $\alpha \eta 0$ Reference Frame Without PLL. , 2018, , . | | 3 |
| 25 | Investigation of Optimal Excitation Waveforms for Medium Frequency Transformers. , 2018, , . | | 3 |
| 26 | Improved equivalent circuit model of MMC and influence analysis of simulation time step. IET Power Electronics, 2020, 13, 2212-2221. | 2.1 | 3 |
| 27 | Efficient modeling of hybrid MMCs for HVDC systems. , 2017, , . | | 2 |
| 28 | Analysis of Negative Influence of Harmonic Circulation between Parallel STATCOMs and Suppression Method. , 2019, , . | | 1 |
| 29 | A Simple Technique for In-circuit Core Loss Measurement of Medium Frequency Transformer. , 2019, , . | | 0 |