Pengfei Tu

List of Publications by Year
in descending order

31 papers	888 citations	567144 15 h-index	887953 17 g-index
31 all docs	31 docs citations	31 times ranked	1100 citing authors

#	ARTICLE	IF	CITATIONS
1	A Decentralized Dynamic Power Sharing Strategy for Hybrid Energy Storage System in Autonomous DC Microgrid. IEEE Transactions on Industrial Electronics, 2017, 64, 5930-5941.	5.2	245
2	Reliability and Cost based Redundancy Design for Modular Multilevel Converter. IEEE Transactions on Industrial Electronics, 2018, , 1-1.	5.2	112
3	Reduced-Order Aggregate Model for Large-Scale Converters With Inhomogeneous Initial Conditions in DC Microgrids. IEEE Transactions on Energy Conversion, 2021, 36, 2473-2484.	3.7	84
4	Time-Delay Stability Analysis for Hybrid Energy Storage System With Hierarchical Control in DC Microgrids. IEEE Transactions on Smart Grid, 2018, 9, 6633-6645.	6.2	62
5	Multivector Model Predictive Power Control of Three-Phase Rectifiers With Reduced Power Ripples Under Nonideal Grid Conditions. IEEE Transactions on Industrial Electronics, 2018, 65, 6850-6859.	5.2	54
6	Cell-by-Cell-Based Finite-Control-Set Model Predictive Control for a Single-Phase Cascaded H-Bridge Rectifier. IEEE Transactions on Power Electronics, 2018, 33, 1654-1665.	5.4	48
7	Experimental Comparison of High‐Speed Gate Driver Design for 1.2‐kV/120‐A Si IGBT and SiC MOSFET Modules. IET Power Electronics, 2017, 10, 979-986.	1.5	38
8	An Accurate Subcircuit Model of SiC Half-Bridge Module for Switching-Loss Optimization. IEEE Transactions on Industry Applications, 2017, 53, 3840-3848.	3.3	32
9	Small Leak Location for Intelligent Pipeline System via Action-Dependent Heuristic Dynamic Programming. IEEE Transactions on Industrial Electronics, 2022, 69, 11723-11732.	5.2	27
10	Random nearest level modulation strategy of multilevel cascaded H‐bridge inverters. IET Power Electronics, 2016, 9, 2706-2713.	1.5	23
11	Finite-Control-Set Model Predictive Control of Modular Multilevel Converters With Cascaded Open-Circuit Fault Ride-Through. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 2943-2953.	3.7	23
12	Systematic Reliability Modeling and Evaluation for On-Board Power Systems of More Electric Aircrafts. IEEE Transactions on Power Systems, 2019, 34, 3264-3273.	4.6	22
13	Deadbeat control for a single‐phase cascaded H‐bridge rectifier with voltage balancing modulation. IET Power Electronics, 2018, 11, 610-617.	1.5	21
14	Device-Level Loss Balancing Control for Modular Multilevel Converters. IEEE Transactions on Power Electronics, 2021, 36, 4778-4790.	5.4	20
15	Self-Disciplined Large Signal Stabilizer Design for Hybrid Energy Storage System in Renewable DC Power Systems. IEEE Transactions on Sustainable Energy, 2020, 11, 2345-2355.	5.9	18
16	Design considerations and comparison of high-speed gate drivers for Si IGBT and SiC MOSFET modules. , 2016, , .		10
17	Analytical evaluation of IGBT turn-on loss with double pulse testing. , 2016, , .		10
18	Target Controllability in Multilayer Networks via Minimum-Cost Maximum-Flow Method. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1949-1962.	7.2	8

#	Article	IF	Citations
19	A fault-tolerant operation scheme for a modular multilevel converter with a distributed control architecture. , 2017, , .		7
20	Cascaded Open-Circuit Fault Ride-Through of Modular Multilevel Converters with Model Predictive Control. , 2018, , .		5
21	A global robust output regulation method for grid-connected inverter with LCL filter in weak grid condition. , 2017, , .		4
22	Hierarchical Reliability Modeling of an Islanded Hybrid AC/DC Microgrid. , 2018, , .		3
23	Impact of Motor Stator Winding Faults on Common-Mode Current. , 2021, , .		3
24	An accurate subcircuit model of SiC half bridge module for switching loss optimization. , 2016, , .		2
25	Predictive Current Control for Multilevel Cascaded H-Bridge Inverters Based on a Deadbeat Solution. Journal of Power Electronics, 2017, 17, 76-87.	0.9	2
26	An efficient FPGA-based implementation of predictive current control algorithms for an indirect matrix converter. , 2016, , .		1
27	Low-complexity two-voltage-based model predictive control for a single-phase cascaded H-bridge inverter. , 2017, , .		1
28	PoF based reliability prediction for cascaded H-bridge converter in drive application. , 2017, , .		1
29	Analytical averaged loss model of half-bridge Modular Multilevel Converters. , 2017, , .		1
30	Accuracy Improvement of High-Frequency Transmission Line Model of Induction Motor Through Multilayer Perceptron. , 2022, , .		1
31	A Constant Current and Constant Voltage Compensation Scheme for Wireless Charger. , 2019, , .		0