

# Tiefu Zhao

## List of Publications by Year in descending order

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34  
papers

802  
citations

1478505

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1372567

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g-index

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34  
docs citations

34  
times ranked

781  
citing authors

#	ARTICLE	IF	CITATIONS
1	Voltage and Power Balance Control for a Cascaded H-Bridge Converter-Based Solid-State Transformer. IEEE Transactions on Power Electronics, 2013, 28, 1523-1532.	7.9	505
2	Recent Advances of Wind-Solar Hybrid Renewable Energy Systems for Power Generation: A Review. IEEE Open Journal of the Industrial Electronics Society, 2022, 3, 81-104.	6.8	72
3	ArcNet: Series AC Arc Fault Detection Based on Raw Current and Convolutional Neural Network. IEEE Transactions on Industrial Informatics, 2022, 18, 77-86.	11.3	53
4	An optimal switching pattern for SiC/Si hybrid device based Voltage Source Converters. , 2015, , .		44
5	Finite Control Set Model Predictive Control with Secondary Problem Formulation for Power Loss and Thermal Stress Reductions. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	21
6	An Improved Multiport DC Power Flow Controller for VSC-MTDC Grids. IEEE Access, 2020, 8, 7573-7586.	4.2	15
7	Performance Evaluation of Si/SiC Hybrid Switch-Based Three-Level Active Neutral-Point-Clamped Inverter. IEEE Open Journal of Industry Applications, 2022, 3, 90-103.	6.5	11
8	Characterization and Performance of 600V 100A Solid-State Circuit Breaker. , 2018, , .		7
9	A hybrid AC and DC distribution architecture in data centers. , 2017, , .		6
10	Active Damping Control of Multiport DC Power Flow Controller for MMC-MTDC With Unbalanced AC Grid. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 7395-7407.	5.4	6
11	Development of Isolated SenseGaN current monitoring for boundary conduction mode control of power converters. , 2018, , .		5
12	Efficiency Improvement Evaluation and Loss Modeling of a Hybrid Switch-Based T-NPC Inverter. , 2019, , .		5
13	Optimal Gate Driving Strategy for Si/SiC Hybrid Switch-Based 3L-ANPC Inverter with Improved Output Capacity. , 2021, , .		5
14	An Arcless Voltage Regulator Based on Hybrid Tap Changing Topology. , 2018, , .		4
15	Model Predictive Control with Secondary Objective Functions for Power Module Loss Reduction. , 2019, , .		4
16	An Arcless Step Voltage Regulator Based on Series-Connected Converter for Branch Current Suppression. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 5272-5281.	5.4	4
17	Investigation of Variable Switching Frequency in Finite Control Set Model Predictive Control on Grid-Connected Inverters. IEEE Open Journal of Industry Applications, 2021, 2, 178-193.	6.5	4
18	Centralized Thermal Stress Oriented Dispatch Strategy for Paralleled Grid-Connected Inverters Considering Mission Profiles. IEEE Open Journal of Power Electronics, 2021, 2, 368-382.	5.7	4

#	ARTICLE	IF	CITATIONS
19	Design of a 1500V Si IGBT/SiC MOSFET Hybrid Switch-Based Three-Level Active NPC Inverter. , 2021, , .		4
20	Modeling and Simulation of a 20kV Ultra-Fast DC Circuit Breaker for Electric Shipboard Applications. , 2020, , .		3
21	Performance Evaluation of Si/SiC Hybrid Switch-Based Three-Level Active NPC Converter. , 2021, , .		3
22	Design Considerations of An Inductive Power Transfer System for Rail Application. , 2021, , .		3
23	A Hybrid Voltage Regulator with Arcless Tap Change and Stepless Voltage Regulation Functions. , 2020, , .		3
24	A Hybrid Voltage Regulation Transformer Based on Interline Power Converters. , 2022, , .		3
25	A Hybrid Switch based Arcless Voltage Regulator. , 2018, , .		2
26	An Inductive Power Transfer System Design for Rail Applications. , 2018, , .		2
27	Model Predictive Speed Control with Dynamic Reference for Electric Drive of Permanent Magnet Synchronous Machine. , 2019, , .		1
28	An Arcless Step Voltage Regulator based on Paralleled Power Electronics Converter Configuration. , 2020, , .		1
29	Power Electronics Assisted Voltage Regulator: An Effective Solution for Mitigating Voltage Variations Caused by High Penetration PV on a Distribution System. , 2021, , .		1
30	Var Control Capability Analysis for a Hybrid Voltage Regulation Transformer. , 2022, , .		1
31	Thermal Stress Oriented Dispatch Strategy for Paralleled Grid-Connected Converters in Electric Vehicle Charging Stations. , 2021, , .		0
32	Evaluation of Wireless Communication Networks on Secondary Control in Underwater Microgrid. , 2020, , .		0
33	Passive Shielding Design of an Inductive Power Transfer System for Railway Applications. , 2022, , .		0
34	A Frequency Modulated Maximum Power Point Tracking Method for Wireless Charging Systems. , 2022, , .		0