

Hua Zhang

List of Publications by Year in descending order

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78
papers

3,375
citations

279798

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175258

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78
all docs

78
docs citations

78
times ranked

5678
citing authors

#	ARTICLE	IF	CITATIONS
1	Dark Matter Results from First 98.7 Days of Data from the PandaX-II Experiment. Physical Review Letters, 2016, 117, 121303.	7.8	501
2	A Double-Sided <i>LCLC</i> -Compensated Capacitive Power Transfer System for Electric Vehicle Charging. IEEE Transactions on Power Electronics, 2015, 30, 6011-6014.	7.9	345
3	A 4-Plate Compact Capacitive Coupler Design and LCL-Compensated Topology for Capacitive Power Transfer in Electric Vehicle Charging Applications. IEEE Transactions on Power Electronics, 2016, , 1-1.	7.9	209
4	A Dynamic Charging System With Reduced Output Power Pulsation for Electric Vehicles. IEEE Transactions on Industrial Electronics, 2016, 63, 6580-6590.	7.9	208
5	A Review on the Recent Development of Capacitive Wireless Power Transfer Technology. Energies, 2017, 10, 1752.	3.1	190
6	A Double-Sided LC-Compensation Circuit for Loosely Coupled Capacitive Power Transfer. IEEE Transactions on Power Electronics, 2018, 33, 1633-1643.	7.9	166
7	An Inductive and Capacitive Combined Wireless Power Transfer System With <i>LC</i> -Compensated Topology. IEEE Transactions on Power Electronics, 2016, 31, 8471-8482.	7.9	164
8	A Two-Plate Capacitive Wireless Power Transfer System for Electric Vehicle Charging Applications. IEEE Transactions on Power Electronics, 2018, 33, 964-969.	7.9	134
9	Six-Plate Capacitive Coupler to Reduce Electric Field Emission in Large Air-Gap Capacitive Power Transfer. IEEE Transactions on Power Electronics, 2018, 33, 665-675.	7.9	128
10	A Dual-Coupled LCC-Compensated IPT System With a Compact Magnetic Coupler. IEEE Transactions on Power Electronics, 2018, 33, 6391-6402.	7.9	112
11	Load-Independent Wireless Power Transfer System for Multiple Loads Over a Long Distance. IEEE Transactions on Power Electronics, 2019, 34, 9279-9288.	7.9	109
12	PandaX: a liquid xenon dark matter experiment at CJPL. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1476-1494.	5.1	99
13	A CLLC-compensated high power and large air-gap capacitive power transfer system for electric vehicle charging applications. , 2016, , .		86
14	First dark matter search results from the PandaX-I experiment. Science China: Physics, Mechanics and Astronomy, 2014, 57, 2024-2030.	5.1	72
15	A Real-Time Battery Thermal Management Strategy for Connected and Automated Hybrid Electric Vehicles (CAHEVs) Based on Iterative Dynamic Programming. IEEE Transactions on Vehicular Technology, 2018, 67, 8077-8084.	6.3	66
16	A Tightly Coupled Inductive Power Transfer System for Low-Voltage and High-Current Charging of Automatic Guided Vehicles. IEEE Transactions on Industrial Electronics, 2019, 66, 6867-6875.	7.9	51
17	An Inductive and Capacitive Integrated Coupler and Its LCL Compensation Circuit Design for Wireless Power Transfer. IEEE Transactions on Industry Applications, 2017, 53, 4903-4913.	4.9	46
18	A high efficiency 3.3 kW loosely-coupled wireless power transfer system without magnetic material. , 2015, , .		45

#	ARTICLE	IF	CITATIONS
19	A Low-Voltage and High-Current Inductive Power Transfer System With Low Harmonics for Automatic Guided Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 3351-3360.	6.3	36
20	A loosely coupled capacitive power transfer system with LC compensation circuit topology. , 2016, , .		33
21	Robust Predictive Battery Thermal Management Strategy for Connected and Automated Hybrid Electric Vehicles Based on Thermoelectric Parameter Uncertainty. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2018, 6, 1796-1805.	5.4	33
22	A High-Efficiency and Long-Distance Power-Relay System With Equal Power Distribution. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2020, 8, 1419-1427.	5.4	33
23	Review, Analysis, and Design of Four Basic CPT Topologies and the Application of High-Order Compensation Networks. IEEE Transactions on Power Electronics, 2022, 37, 6181-6193.	7.9	32
24	An LC-Compensated Electric Field Repeater for Long-Distance Capacitive Power Transfer. IEEE Transactions on Industry Applications, 2017, 53, 4914-4922.	4.9	30
25	Implementing Symmetrical Structure in MOV-RCD Snubber-Based DC Solid-State Circuit Breakers. IEEE Transactions on Power Electronics, 2022, 37, 6051-6061.	7.9	28
26	An Electric Roadway System Leveraging Dynamic Capacitive Wireless Charging: Furthering the Continuous Charging of Electric Vehicles. IEEE Electrification Magazine, 2020, 8, 52-60.	1.8	26
27	Insulated Coupler Structure Design for the Long-Distance Freshwater Capacitive Power Transfer. IEEE Transactions on Industrial Informatics, 2020, 16, 5191-5201.	11.3	24
28	Review of Load-Independent Constant-Current and Constant-Voltage Topologies for Domino-Type Multiple-Load Inductive Power Relay System. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 199-210.	3.9	21
29	An Improved Design Methodology of the Double-Sided LC-Compensated CPT System Considering the Inductance Detuning. IEEE Transactions on Power Electronics, 2019, 34, 11396-11406.	7.9	20
30	A Domino-Type Load-Independent Inductive Power Transfer System With Hybrid Constant-Current and Constant-Voltage Outputs. IEEE Transactions on Power Electronics, 2021, 36, 8824-8834.	7.9	18
31	Feasibility Study of the High-Power Underwater Capacitive Wireless Power Transfer for the Electric Ship Charging Application. , 2019, , .		17
32	A 4 kV/120 A SiC Solid-State DC Circuit Breaker Powered By a Load-Independent IPT System. IEEE Transactions on Industry Applications, 2022, 58, 1115-1125.	4.9	17
33	A DC Solid-State Circuit Breaker Based on Transient Current Commutation. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4614-4625.	5.4	17
34	A dual-coupled LCC-compensated IPT system to improve misalignment performance. , 2017, , .		15
35	Innovated Approach of Predictive Thermal Management for High-Speed Propulsion Electric Machines in More Electric Aircraft. IEEE Transactions on Transportation Electrification, 2020, 6, 1551-1561.	7.8	15
36	Coordination of Ultrafast Solid-State Circuit Breakers in Radial DC Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2022, 10, 4690-4702.	5.4	15

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37	Comprehensive Design and Optimization of an Onboard Resonant Self-Heater for EV Battery. IEEE Transactions on Transportation Electrification, 2021, 7, 452-463.	7.8	13
38	Capacitive Power Transfer With Series-Parallel Compensation for Step-Up Voltage Output. IEEE Transactions on Industrial Electronics, 2022, 69, 5604-5614.	7.9	13
39	An S-CLC Compensated Load-Independent Inductive Power Relay System With Constant Voltage Outputs. IEEE Transactions on Power Electronics, 2021, 36, 5157-5168.	7.9	12
40	Modeling and Control of an Integrated Self-Heater for Automotive Batteries Based on Traction Motor Drive Reconfiguration. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 384-395.	5.4	11
41	Investigation of Limitations in Passive Voltage Clamping-Based Solid-State DC Circuit Breakers. IEEE Open Journal of Power Electronics, 2022, 3, 209-221.	5.7	11
42	Long-Distance and High-Power Capacitive Power Transfer based on the Double-Sided LC Compensation: Analysis and Design. , 2019, , .		10
43	Ultrafast Solid-State Circuit Breaker With a Modular Active Injection Circuit. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 733-743.	3.9	10
44	Capacitive Couple-Based Transient Current Commutation in Solid-State Circuit Breakers. IEEE Transactions on Power Electronics, 2022, 37, 4973-4978.	7.9	10
45	Fault Current Bypass-Based DC SSCB Using TIM-Pack Switch. IEEE Transactions on Industrial Electronics, 2023, 70, 4300-4304.	7.9	9
46	Study on Parasitic Capacitance Effect in High Power Inductive Power Transfer System. , 2019, , .		8
47	Current-Fed Capacitive Power Transfer With Parallel Series Compensation for Voltage Step-Down. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 454-464.	3.9	8
48	High-Efficiency Bilateral SP Compensated Multiload IPT System With Constant-Voltage Outputs. IEEE Transactions on Industrial Informatics, 2022, 18, 901-910.	11.3	8
49	PREDICTION OF PRESSURE GRADIENT AND HOLDUP IN HORIZONTAL LIQUID-LIQUID SEGREGATED FLOW WITH SMALL EÅ-TVÅ-S NUMBER. Chemical Engineering Communications, 2009, 196, 697-714.	2.6	7
50	An Ultra-Fast Wireless Charging System with a Hull-Compatible Coil Structure for Autonomous Underwater Vehicles (AUVs). , 2022, , .		7
51	A Compact and Low-Distortion Inductive Charging System for Automatic Guided Vehicles Based on LCC Compensation and Integrated Magnetic Coupler. , 2019, , .		6
52	Development of a Dielectric-Gas-Based Single-Phase Electrostatic Motor. IEEE Transactions on Industry Applications, 2019, 55, 2592-2600.	4.9	6
53	Design and optimization of a dielectric-gas-based single-phase electrostatic motor. , 2018, , .		5
54	Challenges in the Z-Class Compatible Inductive Power Transfer System Considering the Wide Varying Range of the Coupling Coefficient. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
55	Output Power Regulation of a Series-Series Inductive Power Transfer System Based on Hybrid Voltage and Frequency Tuning Method for Electric Vehicle Charging. IEEE Transactions on Industrial Electronics, 2022, 69, 9927-9937.	7.9	5
56	High Power Capacitive Power Transfer for Electric Aircraft Charging Application. , 2019, , .		4
57	Sensitivity Investigation and Mitigation on Power and Efficiency to Resonant Parameters in an LCC Network for Inductive Power Transfer. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 443-453.	3.9	4
58	A 4kV/100A SiC MOSFETs-based solid state DC circuit breaker with low stray inductances and powered by a load-independent wireless power transfer system. , 2020, , .		4
59	High-Frequency High Step-Up Inductive Power Transfer-Based Capacitor Charger in Active Injection DC Circuit Breakers. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 572-582.	3.9	4
60	Estimation of Liquid Wall and Interfacial Shear Stress in Horizontal Stratified Gas-liquid Pipe Flow. AIP Conference Proceedings, 2007, , .	0.4	3
61	Visualisation research on characteristics of the cryogenic slug flow in vertical and inclined tubes. Canadian Journal of Chemical Engineering, 2012, 90, 1588-1601.	1.7	3
62	Optimized Design of an Onboard Resonant Self-Heater for Automotive Lithium-Ion Batteries at Cold Climates. , 2019, , .		3
63	The High Order Harmonic Distortion Phenomenon in the Strongly Coupled IPT System and Its Reduction Method. , 2019, , .		3
64	Output Power Control of an S-S IPT System Based on Voltage and Frequency Tuning for EV Charging. , 2021, , .		3
65	Wireless Series-Parallel Capacitor Charger for DC Circuit Breaker Applications. , 2021, , .		3
66	Compact Z-Impedance Compensation for Inductive Power Transfer and its Capacitance Tuning Method. IEEE Transactions on Industrial Electronics, 2023, 70, 3627-3640.	7.9	3
67	Experimental Study on Rising Velocity of Different Nitrogen Bubbles in of Circular Pipe. AIP Conference Proceedings, 2007, , .	0.4	2
68	A Double-sided Z-Impedance Compensated Inductive Power Transfer System. , 2021, , .		2
69	A ĩ€-type Compensated Ferrite-Free Domino IPT System for DC Circuit Breakers. IEEE Transactions on Power Electronics, 2022, 37, 7518-7527.	7.9	2
70	Multiphase Interleaved IPT Based Current-Source Converter for High-Current Application. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2022, 3, 583-593.	3.9	2
71	A 4kV/100A DC Solid-State Circuit Breaker with Soft Turn-off Operation. , 2022, , .		2
72	Experimental study on the liquid slug of cryogenic slug flow in inclined tubes. Journal of Shanghai Jiaotong University (Science), 2010, 15, 372-376.	0.9	1

#	ARTICLE	IF	CITATIONS
73	A Compact Onboard Battery Self-Heater for All-Electric Aircraft Applications at Cold Climates. , 2019, , .		1
74	A Diode-Free MOV ² -RC Snubber for Solid-State Circuit Breaker. , 2022, , .		1
75	Impacts of the Detuning of Compensation Inductances to the Performance of a Double-Sided LC-Compensated CPT System. , 2019, , .		0
76	A Z-Class LCC-P Compensated IPT System with a Reverse Coupled Compensation Inductor. , 2021, , .		0
77	A Load-independent Domino IPT System with ĩ€-type Compensation Network. , 2021, , .		0
78	Compact PCB Coil-based Bilateral Inductive Power Relay System Powering Multiple Gate Drivers with Reliable Voltage Isolation. , 2022, , .		0