

Hong Zhou

List of Publications by Year in descending order

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83
papers

1,654
citations

313897

21
h-index

312420

38
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84
all docs

84
docs citations

84
times ranked

2013
citing authors

#	ARTICLE	IF	CITATIONS
1	Distributed Secondary Voltage and Frequency Control for Islanded Microgrids With Uncertain Communication Links. IEEE Transactions on Industrial Informatics, 2017, 13, 448-460.	12.1	246
2	Frequency-Dependent Resistance of Litz-Wire Square Solenoid Coils and Quality Factor Optimization for Wireless Power Transfer. IEEE Transactions on Industrial Electronics, 2016, 63, 2825-2837.	8.2	109
3	Distributed Voltage Regulation for Cyber-Physical Microgrids With Coupling Delays and Slow Switching Topologies. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 100-110.	9.7	83
4	An Inductive Power Transfer System Supplied by a Multiphase Parallel Inverter. IEEE Transactions on Industrial Electronics, 2017, 64, 7039-7048.	8.2	74
5	Plug-in Free Web-Based 3-D Interactive Laboratory for Control Engineering Education. IEEE Transactions on Industrial Electronics, 2017, 64, 3808-3818.	8.2	69
6	Toward a Web-Based Digital Twin Thermal Power Plant. IEEE Transactions on Industrial Informatics, 2022, 18, 1716-1725.	12.1	66
7	Web-Based 3-D Control Laboratory for Remote Real-Time Experimentation. IEEE Transactions on Industrial Electronics, 2013, 60, 4673-4682.	8.2	61
8	Hypolipidemic effect of the Chinese polyherbal Huanglian Jiedu decoction in type 2 diabetic rats and its possible mechanism. Phytomedicine, 2014, 21, 615-623.	5.4	57
9	Fault Location in Resonant Grounded Network by Adaptive Control of Neutral-to-Earth Complex Impedance. IEEE Transactions on Power Delivery, 2018, 33, 689-698.	4.6	56
10	Modeling and Control of Inductive Power Transfer System Supplied by Multiphase Phase-Controlled Inverter. IEEE Transactions on Power Electronics, 2019, 34, 9303-9315.	8.1	46
11	Modular Parallel Multi-Inverter System for High-Power Inductive Power Transfer. IEEE Transactions on Power Electronics, 2019, 34, 9422-9434.	8.1	44
12	Input-Series Output-Equivalent-Parallel Multi-Inverter System for High-Voltage and High-Power Wireless Power Transfer. IEEE Transactions on Power Electronics, 2021, 36, 228-238.	8.1	41
13	Modeling and Decoupled Control of Inductive Power Transfer to Implement Constant Current/Voltage Charging and ZVS Operating for Electric Vehicles. IEEE Access, 2018, 6, 59917-59928.	4.4	33
14	Design and Analysis of a New Hybrid Wireless Power Transfer System With a Space-Saving Coupler Structure. IEEE Transactions on Power Electronics, 2021, 36, 5069-5081.	8.1	33
15	HTML5-Based 3-D Online Control Laboratory With Virtual Interactive Wiring Practice. IEEE Transactions on Industrial Informatics, 2018, 14, 2473-2483.	12.1	31
16	Unified and Flexible Online Experimental Framework for Control Engineering Education. IEEE Transactions on Industrial Electronics, 2022, 69, 835-844.	8.2	30
17	Modular Web-Based Interactive Hybrid Laboratory Framework for Research and Education. IEEE Access, 2018, 6, 20152-20163.	4.4	29
18	Unified 3-D Interactive Human-Centered System for Online Experimentation: Current Deployment and Future Perspectives. IEEE Transactions on Industrial Informatics, 2021, 17, 4777-4787.	12.1	29

#	ARTICLE	IF	CITATIONS
19	Hierarchical Distributed Scheme for Demand Estimation and Power Reallocation in a Future Power Grid. IEEE Transactions on Industrial Informatics, 2017, 13, 2279-2290.	12.1	28
20	Frequency Optimization for Inductive Power Transfer Based on AC Resistance Evaluation in Litz-Wire Coil. IEEE Transactions on Power Electronics, 2019, 34, 2355-2363.	8.1	27
21	Containment control for multi-agent systems via impulsive algorithms without velocity measurements. IET Control Theory and Applications, 2014, 8, 2033-2044.	2.2	26
22	Natural Frequency Optimization of Wireless Power Systems on Power Transmission Lines. IEEE Access, 2018, 6, 14038-14047.	4.4	21
23	3-D Interactive Control Laboratory for Classroom Demonstration and Online Experimentation in Engineering Education. IEEE Transactions on Education, 2021, 64, 276-282.	2.8	21
24	Synchronization of Hybrid Microgrids with Communication Latency. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.2	20
25	A Novel Category-Specific Pricing Strategy for Demand Response in Microgrids. IEEE Transactions on Sustainable Energy, 2022, 13, 182-195.	9.5	20
26	Simplified parameters model of PCNN and its application to image segmentation. Pattern Analysis and Applications, 2016, 19, 939-951.	4.6	18
27	Optical technology for detecting the decomposition products of SF6: a review. Optical Engineering, 2018, 57, 1.	1.0	18
28	A modified strategy of fuzzy clustering algorithm for image segmentation. Soft Computing, 2015, 19, 3261-3272.	3.8	17
29	Multi-Inverter Phase-Shifted Control for IPT With Overlapped Transmitters. IEEE Transactions on Power Electronics, 2021, 36, 8799-8811.	8.1	17
30	Design of Wireless Individual-Drive System for Variable-Reluctance Stepping Motor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2141-2145.	3.2	16
31	Wired/Wireless Hybrid Charging System for Electrical Vehicles With Minimum Rated Power Requirement for DC Module. IEEE Transactions on Vehicular Technology, 2020, 69, 10889-10898.	6.7	15
32	Modeling and Phase Synchronization Control of High-Power Wireless Power Transfer System Supplied By Modular Parallel Multi-Inverters. IEEE Transactions on Vehicular Technology, 2021, 70, 6450-6462.	6.7	15
33	Distributed Optimal Synchronization Rate Control for AC Microgrids Under Event-Triggered Mechanism. IEEE Transactions on Power Systems, 2021, 36, 1780-1793.	7.0	15
34	Capacitive power transfer through virtual self-capacitance route. IET Power Electronics, 2018, 11, 1110-1118.	2.3	14
35	Modeling and Synchronization Stability of Low-Voltage Active Distribution Networks With Large-Scale Distributed Generations. IEEE Access, 2018, 6, 70989-71002.	4.4	13
36	Fault Location Method in Resonant Grounded Networks Based on Distributed Modulation and Compensation Adjustment. IEEE Transactions on Power Delivery, 2019, 34, 1938-1947.	4.6	13

#	ARTICLE	IF	CITATIONS
37	Teaching and Comprehensive Learning With Remote Laboratories and MATLAB for an Undergraduate System Identification Course. IEEE Transactions on Education, 2022, 65, 402-408.	2.8	13
38	Free-Positioning Wireless Power Transfer System Based on One-to-Multiple Topology. IEEE Transactions on Power Electronics, 2020, 35, 9959-9964.	8.1	12
39	Flipping Laboratories Toward Future Experimentation Systems: The Blended Use of Hands-On, Pocket, and Online Laboratories. IEEE Industrial Electronics Magazine, 2023, 17, 48-60.	3.0	10
40	Cluster formation for multi-agent systems under disturbances and unmodelled uncertainties. IET Control Theory and Applications, 2017, 11, 2630-2635.	2.2	9
41	Frequency Synchronization and Power Optimization for Microgrids With Battery Energy Storage Systems. IEEE Transactions on Control Systems Technology, 2021, 29, 2247-2254.	5.4	9
42	From Virtual Simulation to Digital Twins in Online Laboratories. , 2021, , .		9
43	The Research of Daily Total Solar-Radiation and Prediction Method of Photovoltaic Generation Based on Wavelet-Neural Network. , 2011, , .		8
44	Protection Strategy for Wireless Charging Electrical Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 13510-13520.	6.7	8
45	A Wireless DC Motor Drive Using LCCC-CCL Compensated Network With Bidirectional Motion Capability. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 4714-4725.	5.8	8
46	Manifestation of gravitational tides and planetary waves in long-term variations in geophysical parameters. Geomagnetism and Aeronomy, 2014, 54, 500-512.	0.8	7
47	Distributed cooperative control algorithm for optimal power sharing for AC microgrids using Cournot game theory. Neural Computing and Applications, 2021, 33, 973-983.	5.7	7
48	Design and implementation of virtual experiment for complex control system: A case study of thermal control process. IET Generation, Transmission and Distribution, 2021, 15, 3270-3283.	2.6	7
49	Minimisation of local within-class variance for image segmentation. IET Image Processing, 2016, 10, 608-615.	2.6	6
50	Optimal Strategy to Select Load Identification Features by Using a Particle Resampling Algorithm. Applied Sciences (Switzerland), 2019, 9, 2622.	2.6	6
51	Frequency Synchronization and SoC Balancing Control in AC Microgrids. , 2020, , .		6
52	A Multiscale Flow-Focused Geographically Weighted Regression Modelling Approach and Its Application for Transport Flows on Expressways. Applied Sciences (Switzerland), 2019, 9, 4673.	2.6	5
53	Field and inductance of coaxial circular coils shielded by cuboid of high permeability. Journal of Electromagnetic Waves and Applications, 2015, 29, 741-752.	1.7	4
54	Integrating a Wireless Power Transfer System into Online Laboratory: Example with NCSLab. Lecture Notes in Networks and Systems, 2018, , 278-289.	0.0	4

#	ARTICLE	IF	CITATIONS
55	Frequency control of droop-based low-voltage microgrids with cobweb network topologies. IET Generation, Transmission and Distribution, 2020, 14, 4310-4320.	2.6	4
56	Distributed Impulsive Consensus of the Multiagent System without Velocity Measurement. Abstract and Applied Analysis, 2013, 2013, 1-8.	0.6	3
57	Distributed Consensus-Based Optimization of Multiple Load Aggregators for Secondary Frequency Control. Asian Journal of Control, 2018, 20, 943-955.	2.9	3
58	An active frequency drift method for island problem of grid-connected photovoltaic power generation system. IEEE Transactions on Electrical and Electronic Engineering, 2019, 14, 1633-1638.	1.4	3
59	Interactive and Visualized Online Experimentation System for Engineering Education and Research. Journal of Visualized Experiments, 2021, , .	0.3	3
60	Web-based digital twin online laboratories: Methodologies and implementation. Digital Twin, 0, 2, 3.	0.0	3
61	Receding Horizon D-Optimal Input Design for Identification of Wireless Power Transfer Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2023, 11, 3597-3606.	5.6	3
62	Controller Effect in Online Laboratories—An Overview. IEEE Transactions on Learning Technologies, 2024, 17, 608-618.	3.4	3
63	A Nonintrusive Load Monitoring Method for Microgrid EMS Using Bi-LSTM Algorithm. Complexity, 2021, 2021, 1-11.	1.7	2
64	Analysis and validation of novel inverter and LCC-S topology-based WPT system. Journal of Power Electronics, 2022, 22, 503-512.	1.5	2
65	Design and Analysis of Flexible Capacitive Power Transfer With Stable Output Capability. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 4691-4701.	5.8	2
66	Prediction-Based Power Consumption Monitoring of Industrial Equipment Using Interpretable Data-Driven Models. IEEE Transactions on Automation Science and Engineering, 2024, 21, 1312-1322.	5.7	2
67	Web-Based Digital Twin Communication System of Power Systems for Training and Education. IEEE Transactions on Power Systems, 2024, 39, 3592-3602.	7.0	2
68	Pulse-modulated intermittent control for consensus of multi-agent systems with switching topology. , 2016, , .		1
69	Correlation between optical signals and partial discharge quantity at needle-plate electrode. , 2016, , .		1
70	Sampled intermittent control for consensus of multi-agent systems with variable activated intervals. Transactions of the Institute of Measurement and Control, 2018, 40, 1521-1528.	1.9	1
71	Frequency Stability of Active Distribution Networks with Large-scale DESUs. , 2019, , .		1
72	A Game Theoretic Approach for Multiple Microgrid Clusters under Stochastic Energy Demand and Behaviors. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
73	Affine Nonlinear Control of a Multivariate Inductive Power Transfer System With Exact Linearization. IEEE Transactions on Power Electronics, 2020, 35, 12728-12740.	8.1	1
74	Phase Synchronization Stability of Non-Homogeneous Low-Voltage Distribution Networks with Large-Scale Distributed Generations. Energies, 2020, 13, 1257.	3.2	1
75	Compact and Efficient Wireless Motor Drive With Bidirectional Motion Capability. IEEE Transactions on Power Electronics, 2023, 38, 15097-15101.	8.1	1
76	Multi-tracking with communication delay via quantization intermittent control. , 2017, , .		0
77	Distributed Cooperative Control for Frequency Synchronization and Economic Dispatch in Microgrids with Battery Energy Storage Systems. , 2019, , .		0
78	Design of Networked Control System for Submersible Pump. , 2019, , .		0
79	Human-Centered Design in Online Laboratories for Graduate Engineering Students. Lecture Notes in Networks and Systems, 2022, , 94-104.	0.0	0
80	Network-Design of Virtual Drum Boiler Feedwater Control System. , 2020, , .		0
81	Data-Driven Approach for the Short-Term Business Climate Forecasting Based on Power Consumption. Wireless Communications and Mobile Computing, 2022, 2022, 1-11.	1.4	0
82	Design and Analysis of a Dual-Channel Wireless Motor Drive With One Pair of Coupling Coils. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2024, 12, 1161-1172.	5.6	0
83	Access Data Based Analytics and Visualization for Web-Based Online Laboratories. IEEE Journal of Emerging and Selected Topics in Industrial Electronics, 2024, 5, 488-497.	4.0	0