Wenshan Hu

List of Publications by Year
in descending order

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65 papers	1,415 citations	331670 21 h-index	345221 36 g-index
66 all docs	66 docs citations	66 times ranked	1130 citing authors

#	Article	IF	Citations
1	Droop-Based Distributed Cooperative Control for Microgrids With Time-Varying Delays. IEEE Transactions on Smart Grid, 2016, 7, 1775-1789.	9.0	268
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.	7.9	100
3	NCSLab: A Web-Based Global-Scale Control Laboratory With Rich Interactive Features. IEEE Transactions on Industrial Electronics, 2010, 57, 3253-3265.	7.9	69
4	An Inductive Power Transfer System Supplied by a Multiphase Parallel Inverter. IEEE Transactions on Industrial Electronics, 2017, 64, 7039-7048.	7.9	63
5	Plug-in Free Web-Based 3-D Interactive Laboratory for Control Engineering Education. IEEE Transactions on Industrial Electronics, 2017, 64, 3808-3818.	7.9	63
6	Web-Based 3-D Control Laboratory for Remote Real-Time Experimentation. IEEE Transactions on Industrial Electronics, 2013, 60, 4673-4682.	7.9	60
7	Toward a Web-Based Digital Twin Thermal Power Plant. IEEE Transactions on Industrial Informatics, 2022, 18, 1716-1725.	11.3	57
8	Design and Implementation of Web-Based Control Laboratory for Test Rigs in Geographically Diverse Locations. IEEE Transactions on Industrial Electronics, 2008, 55, 2343-2354.	7.9	43
9	Modeling and Control of Inductive Power Transfer System Supplied by Multiphase Phase-Controlled Inverter. IEEE Transactions on Power Electronics, 2019, 34, 9303-9315.	7.9	40
10	Modular Parallel Multi-Inverter System for High-Power Inductive Power Transfer. IEEE Transactions on Power Electronics, 2019, 34, 9422-9434.	7.9	37
11	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.	7.9	37
12	HTML5-Based 3-D Online Control Laboratory With Virtual Interactive Wiring Practice. IEEE Transactions on Industrial Informatics, 2018, 14, 2473-2483.	11.3	30
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.	4.2	30
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.	7.9	29
15	edge position detection of on-line vehicles with segmental wireless power supply. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	28
16	Unified 3-D Interactive Human-Centered System for Online Experimentation: Current Deployment and Future Perspectives. IEEE Transactions on Industrial Informatics, 2021, 17, 4777-4787.	11.3	27
17	Modular Web-Based Interactive Hybrid Laboratory Framework for Research and Education. IEEE Access, 2018, 6, 20152-20163.	4.2	26
18	Unified and Flexible Online Experimental Framework for Control Engineering Education. IEEE Transactions on Industrial Electronics, 2022, 69, 835-844.	7.9	26

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19	Containment control for multiâ€agent systems via impulsive algorithms without velocity measurements. IET Control Theory and Applications, 2014, 8, 2033-2044.	2.1	25
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.	7.9	25
21	Natural Frequency Optimization of Wireless Power Systems on Power Transmission Lines. IEEE Access, 2018, 6, 14038-14047.	4.2	21
22	Modelling and Practical Implementation of 2-Coil Wireless Power Transfer Systems. Journal of Electrical and Computer Engineering, 2014, 2014, 1-8.	0.9	20
23	Online Learning Based Voltage and Power Regulator for AC Microgrids. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1318-1322.	3.0	18
24	Non-Intrusive Load Identification Method Based on Improved KM Algorithm. IEEE Access, 2019, 7, 151368-151377.	4.2	17
25	3-D Interactive Control Laboratory for Classroom Demonstration and Online Experimentation in Engineering Education. IEEE Transactions on Education, 2021, 64, 276-282.	2.4	17
26	Multi-Inverter Phase-Shifted Control for IPT With Overlapped Transmitters. IEEE Transactions on Power Electronics, 2021, 36, 8799-8811.	7.9	16
27	Sampled containment control for multi-agent systems with nonlinear dynamics. Neurocomputing, 2017, 219, 242-247.	5.9	15
28	Blockchain Protocol-Based Predictive Secure Control for Networked Systems. IEEE Transactions on Industrial Electronics, 2023, 70, 783-792.	7.9	15
29	Capacitive power transfer through virtual selfâ€capacitance route. IET Power Electronics, 2018, 11, 1110-1118.	2.1	14
30	Modeling and Synchronization Stability of Low-Voltage Active Distribution Networks With Large-Scale Distributed Generations. IEEE Access, 2018, 6, 70989-71002.	4.2	13
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.	6.3	13
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.	6.3	13
33	Security tracking control for discrete-time stochastic systems subject to cyber attacks. ISA Transactions, 2022, 127, 133-145.	5.7	13
34	Design of Wireless Individual-Drive System for Variable-Reluctance Stepping Motor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2141-2145.	3.0	11
35	A DC Motor Position Control System in a 3D Real-Time Virtual Laboratory Environment Based on NCSLab 3D. International Journal of Online and Biomedical Engineering, 2015, 11, 49.	1.4	10
36	Design of Networked Secure and Real-Time Control Based on Blockchain Techniques. IEEE Transactions on Industrial Electronics, 2022, 69, 4096-4106.	7.9	10

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37	Teaching and Comprehensive Learning With Remote Laboratories and MATLAB for an Undergraduate System Identification Course. IEEE Transactions on Education, 2022, 65, 402-408.	2.4	10
38	From Virtual Simulation to Digital Twins in Online Laboratories. , 2021, , .		9
39	Smart Demand Response Based on Smart Homes. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	8
40	Combining MOOL with MOOC to Promote Control Engineering Education: Experience with NCSLab. IFAC-PapersOnLine, 2019, 52, 236-241.	0.9	8
41	Front-end and Back-end Separation - React Based Framework for Networked Remote Control Laboratory. , 2018, , .		7
42	Protection Strategy for Wireless Charging Electrical Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 13510-13520.	6.3	7
43	Deployment of a Web-based Control Laboratory Using HTML5. International Journal of Online Engineering, 2016, 12, 18.	0.5	6
44	Design and implementation of C-MEX S-functions in an Android-based networked control system laboratory. Transactions of the Institute of Measurement and Control, 2022, 44, 188-197.	1.7	6
45	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.	2.5	6
46	Learning with remote laboratories: Designing control algorithms with both block diagrams and customized C codeÂschemes. Computer Applications in Engineering Education, 2022, 30, 1561-1576.	3.4	5
47	Integrating a Wireless Power Transfer System into Online Laboratory: Example with NCSLab. Lecture Notes in Networks and Systems, 2018, , 278-289.	0.7	4
48	On-site Smart Operation and Maintenance System for Substation Equipment Based on Mobile Network. International Journal of Online Engineering, 2018, 14, 66.	0.5	3
49	Design and implementation of a mobile terminal cloud supervisory control platform for networked control systems. Transactions of the Institute of Measurement and Control, 0, , 014233122110492.	1.7	3
50	Interactive and Visualized Online Experimentation System for Engineering Education and Research. Journal of Visualized Experiments, 2021, , .	0.3	3
51	Web-based digital twin online laboratories: Methodologies and implementation. Digital Twin, 0, 2, 3.	0.0	3
52	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.	1.7	1
53	Networked Closed-Loop Model for Smart On-Site Maintenance of Substation Equipment Using Mobile Networks. Journal of Control Science and Engineering, 2018, 2018, 1-8.	1.0	1
54	Frequency Stability of Active Distribution Networks with Large-scale DESUs. , 2019, , .		1

#	Article	IF	Citations
55	Design and Implementation of an Android-based Control Laboratory. , 2020, , .		1
56	Cost-Effective Server-side Re-deployment for Web-based Online Laboratories Using NGINX Reverse Proxy. IFAC-PapersOnLine, 2020, 53, 17204-17209.	0.9	1
57	Big Data Assessment Methods for Studentsâ€™ Online Laboratory Work Based on NCSLab. , 2021, , .		1
58	Design and Implementation of Cloud-based Networked Control Experimental Instrument for Control Engineering Education. , 2021, , .		1
59	A Method of Remote Experiment for Complex Energy System: An Example for Process Control Experiment of Thermal Power Plants. , 2020, , .		1
60	Application of CAN message timing analysis to system-level fault diagnostics and networked control in vehicles. , 2011, , .		0
61	Design of Networked Control System for Submersible Pump. , 2019, , .		0
62	Real-Time Data Transmission Method Based on Websocket Protocol for Networked Control System Laboratory. , 2019, , .		0
63	Power Forecasting of Wind Turbines Based on Multi-Input Predictors and Wind Speed Variation Trends. , 2021, , .		0
64	Seamless Transfer Control Strategy of Multi-Energy Complementary Microgrid. , 2020, , .		0
65	Network-Design of Virtual Drum Boiler Feedwater Control System. , 2020, , .		0