

# Wencong Su

## List of Publications by Year in descending order

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Version: 2024-02-01

92  
papers

4,520  
citations

212478

28  
h-index

139680

61  
g-index

93  
all docs

93  
docs citations

93  
times ranked

5196  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time operation of distribution network: A deep reinforcement learning-based reconfiguration approach. Sustainable Energy Technologies and Assessments, 2022, 50, 101841.	1.7	6
2	Potential-Based Large-Signal Stability Analysis in DC Power Grids With Multiple Constant Power Loads. IEEE Open Access Journal of Power and Energy, 2022, 9, 16-28.	2.5	5
3	Uncovering Hidden Factors in Electricity Consumption Based on Gaussian Mixture Estimation. Energies, 2022, 15, 319.	1.6	0
4	Day-Ahead Electricity Demand Forecasting Competition: Post-COVID Paradigm. IEEE Open Access Journal of Power and Energy, 2022, 9, 185-191.	2.5	22
5	Optimal DC Microgrid Operation with Model Predictive Control-Based Voltage-Dependent Demand Response and Optimal Battery Dispatch. Energies, 2022, 15, 2140.	1.6	8
6	Reliability interdependencies and causality assessment for a converterâ€­penetrated power system. IET Generation, Transmission and Distribution, 2022, 16, 2547-2558.	1.4	1
7	A Dynamic Internal Trading Price Strategy for Networked Microgrids: A Deep Reinforcement Learning-Based Game-Theoretic Approach. IEEE Transactions on Smart Grid, 2022, 13, 3408-3421.	6.2	21
8	DAG-Based Smart Contract for Dynamic 6G Wireless EVs Charging System. IEEE Transactions on Green Communications and Networking, 2022, 6, 1459-1467.	3.5	4
9	Grid-Forming Converters for Stability Issues in Future Power Grids. Energies, 2022, 15, 4937.	1.6	23
10	Reliability Analysis of Power Systems Integrated With High-Penetration of Power Converters. IEEE Transactions on Power Systems, 2021, 36, 1998-2009.	4.6	32
11	Resilient microgrid system design for disaster impact mitigation. Sustainable and Resilient Infrastructure, 2021, 6, 56-72.	1.7	11
12	Risk-Aware Bilevel Optimal Offering Strategy of a Joint Wind/Storage Unit Based on Information Gap Decision Theory. IEEE Systems Journal, 2021, 15, 1939-1949.	2.9	6
13	Ultra-Lightweight Mutual Authentication in the Vehicle Based on Smart Contract Blockchain: Case of MITM Attack. IEEE Sensors Journal, 2021, 21, 15839-15848.	2.4	11
14	An Evolutionary Deep Learning-Based Anomaly Detection Model for Securing Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4478-4486.	4.7	19
15	A Machine-Learning-Based Cyber Attack Detection Model for Wireless Sensor Networks in Microgrids. IEEE Transactions on Industrial Informatics, 2021, 17, 650-658.	7.2	68
16	Safe Reinforcement Learning-Based Resilient Proactive Scheduling for a Commercial Building Considering Correlated Demand Response. IEEE Open Access Journal of Power and Energy, 2021, 8, 85-96.	2.5	16
17	Reliability Assessment of Converter- Dominated Power Systems Using Variance-Based Global Sensitivity Analysis. IEEE Open Access Journal of Power and Energy, 2021, 8, 248-257.	2.5	12
18	Region of Attraction Estimation for DC Microgrids With Constant Power Loads Using Potential Theory. IEEE Transactions on Smart Grid, 2021, 12, 3793-3808.	6.2	17

#	ARTICLE	IF	CITATIONS
19	Optimal Sizing of Energy Storage System for Operation of Wind Farms Considering Grid-Code Constraints. <i>Energies</i> , 2021, 14, 5478.	1.6	3
20	Multi-agent energy management of smart islands using primal-dual method of multipliers. <i>Energy</i> , 2020, 208, 118306.	4.5	80
21	Modeling and Analysis of Residential Electricity Consumption Statistics: A Tracy-Widom Mixture Density Approximation. <i>IEEE Access</i> , 2020, 8, 163558-163567.	2.6	6
22	An effective stochastic framework for smart coordinated operation of wind park and energy storage unit. <i>Applied Energy</i> , 2020, 272, 115228.	5.1	82
23	Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 5273-5287.	6.2	28
24	Control of battery charging based on reinforcement learning and long short-term memory networks. <i>Computers and Electrical Engineering</i> , 2020, 85, 106670.	3.0	22
25	A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 3506-3515.	4.6	18
26	Indirect Customer-to-Customer Energy Trading With Reinforcement Learning. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 4338-4348.	6.2	108
27	Distance-oriented hierarchical control and ecological driving strategy for HEVs. <i>IET Electrical Systems in Transportation</i> , 2019, 9, 44-52.	1.5	2
28	Charging Control of an Electric Vehicle Battery Based on Reinforcement Learning. , 2019, , .		8
29	Fully Distributed AC Optimal Power Flow. <i>IEEE Access</i> , 2019, 7, 97594-97603.	2.6	10
30	Proactive Resilient Scheduling for Networked Microgrids With Extreme Events. <i>IEEE Access</i> , 2019, 7, 112639-112652.	2.6	16
31	Two-stage stochastic operation framework for optimal management of the water-energy hub. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 5218-5228.	1.4	1
32	Fully distributed AC power flow (ACPF) algorithm for distribution systems. <i>IET Smart Grid</i> , 2019, 2, 155-162.	1.5	8
33	Time-Sharing Duty Cycle-Based Concurrent Control for a Triple-Output Converter With Energy Storage. <i>IEEE Access</i> , 2019, 7, 182433-182443.	2.6	1
34	Proactive Resilience of Power Systems Against Natural Disasters: A Literature Review. <i>IEEE Access</i> , 2019, 7, 163778-163795.	2.6	95
35	Centralized, decentralized, and distributed control for Energy Internet. , 2019, , 3-19.		13
36	Electricity market reform. , 2019, , 97-121.		4

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37	Emerging data encryption methods applicable to Energy Internet. , 2019, , 181-199.		3
38	A Predictive KH-Based Model to Enhance the Performance of Industrial Electric Arc Furnaces. IEEE Transactions on Industrial Electronics, 2019, 66, 7976-7985.	5.2	8
39	Risk-Constrained Optimal Energy Management for Virtual Power Plants Considering Correlated Demand Response. IEEE Transactions on Smart Grid, 2019, 10, 1577-1587.	6.2	92
40	A Dual-Coupled LCC-Compensated IPT System With a Compact Magnetic Coupler. IEEE Transactions on Power Electronics, 2018, 33, 6391-6402.	5.4	112
41	Optimal Routing and Charging of an Electric Vehicle Fleet for High-Efficiency Dynamic Transit Systems. IEEE Transactions on Smart Grid, 2018, 9, 3563-3572.	6.2	141
42	A Novel Consensus-Based Distributed Algorithm for Economic Dispatch Based on Local Estimation of Power Mismatch. IEEE Transactions on Smart Grid, 2018, 9, 5930-5942.	6.2	96
43	Resilient Restoration for Distribution System Operators when Facing Extreme Events. , 2018, , .		2
44	Local Energy Trading Behavior Modeling With Deep Reinforcement Learning. IEEE Access, 2018, 6, 62806-62814.	2.6	74
45	Stochastic Resilient Post-Hurricane Power System Recovery Based on Mobile Emergency Resources and Reconfigurable Networked Microgrids. IEEE Access, 2018, 6, 72311-72326.	2.6	79
46	Game theory based bidding strategy for prosumers in a distribution system with a retail electricity market. IET Smart Grid, 2018, 1, 104-111.	1.5	25
47	Unsupervised Fault Detection and Analysis for Large Photovoltaic Systems Using Drones and Machine Vision. Energies, 2018, 11, 2252.	1.6	60
48	Hierarchical Energy Management for Power-Split Plug-In HEVs Using Distance-Based Optimized Speed and SOC Profiles. IEEE Transactions on Vehicular Technology, 2018, 67, 9312-9323.	3.9	18
49	The Next-Generation U.S. Retail Electricity Market with Customers and Prosumersâ€”A Bibliographical Survey. Energies, 2018, 11, 8.	1.6	54
50	An Integrated eVoucher Mechanism for Flexible Loads in Real-Time Retail Electricity Market. IEEE Access, 2017, 5, 2101-2110.	2.6	29
51	Distributed cooperative control for economic operation of multiple plug-in electric vehicle parking decks. International Transactions on Electrical Energy Systems, 2017, 27, e2348.	1.2	18
52	A Distance-Based Two-Stage Ecological Driving System Using an Estimation of Distribution Algorithm and Model Predictive Control. IEEE Transactions on Vehicular Technology, 2017, 66, 6663-6675.	3.9	20
53	Intelligent home energy management system for distributed renewable generators, dispatchable residential loads and distributed energy storage devices. , 2017, , .		6
54	A Combined Prognostic Model Based on Machine Learning for Tidal Current Prediction. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3108-3114.	2.7	37

#	ARTICLE	IF	CITATIONS
55	The application of distributed control algorithms using VOLTRON-based software platform. , 2017, , .		3
56	Bit-energy: An innovative bitcoin-style distributed transactional model for a competitive electricity market. , 2017, , .		5
57	Classification of electricity customer groups towards individualized price scheme design. , 2017, , .		11
58	An innovative localized retail electricity market based on energy broker and search theory. , 2017, , .		6
59	Robust distributed energy resources management for microgrids in a retail electricity market. , 2017, , .		8
60	Operating cost optimization of interconnected nanogrids considering bidirectional effect of V2G and V2H. , 2017, , .		4
61	Participation of electric vehicle parking lots into retail electricity market with evoucher mechanism. , 2017, , .		3
62	A game theoretic approach to analyze the dynamic interactions of multiple residential prosumers considering power flow constraints. , 2016, , .		4
63	A simulation platform for energy-efficient dynamic commuter transit using electric vehicles. , 2016, , .		0
64	A fog computing solution for advanced metering infrastructure. , 2016, , .		25
65	Optimal routing and charging of an Uber-like electric vehicle considering dynamic electricity price and passenger satisfaction. , 2016, , .		2
66	Two-stage economic operation of microgrid-like electric vehicle parking deck. , 2016, , .		0
67	Investigate the impacts of PEV charging facilities on integrated electric distribution system and electrified transportation system. , 2016, , .		0
68	Consensus-based distributed control for economic operation of distribution grid with multiple consumers and prosumers. , 2016, , .		22
69	Real-Time Distributed Control of Battery Energy Storage Systems for Security Constrained DC-OPF. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	54
70	Two-Stage Economic Operation of Microgrid-Like Electric Vehicle Parking Deck. IEEE Transactions on Smart Grid, 2016, 7, 1703-1712.	6.2	185
71	A game-theoretic economic operation of residential distribution system with high participation of distributed electricity prosumers. Applied Energy, 2015, 154, 471-479.	5.1	89
72	Investigate the Impacts of PEV Charging Facilities on Integrated Electric Distribution System and Electrified Transportation System. IEEE Transactions on Transportation Electrification, 2015, 1, 178-187.	5.3	57

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73	Planning, Control, and Management Strategies for Parking Lots for PEVs. Power Systems, 2015, , 61-98.	0.3	10
74	Economic analysis of plug-in electric vehicle parking deck with dynamic pricing. , 2014, , .		14
75	Investigating the impact of plug-in electric vehicle charging on power distribution systems with the integrated modeling and simulation of transportation network. , 2014, , .		3
76	A proof-of-concept demonstration for the transportation electrification education. , 2014, , .		0
77	Model predictive control-based power dispatch for distribution system considering plug-in electric vehicle uncertainty. Electric Power Systems Research, 2014, 106, 29-35.	2.1	103
78	Stochastic Energy Scheduling in Microgrids With Intermittent Renewable Energy Resources. IEEE Transactions on Smart Grid, 2014, 5, 1876-1883.	6.2	578
79	Stochastic optimization for economic operation of plug-in electric vehicle charging stations at a municipal parking deck integrated with on-site renewable energy generation. , 2014, , .		14
80	A distributed data storage and processing framework for next-generation residential distribution systems. Electric Power Systems Research, 2014, 116, 174-181.	2.1	11
81	A game theoretic framework for a next-generation retail electricity market with high penetration of distributed residential electricity suppliers. Applied Energy, 2014, 119, 341-350.	5.1	118
82	The Role of Customers in the U.S. Electricity Market: Past, Present and Future. Electricity Journal, 2014, 27, 112-125.	1.3	64
83	A risk assessment method based on multi-stage overloading in smart distribution network. , 2013, , .		2
84	A simulation study of electric vehicle charging in microgrids. , 2013, , .		1
85	Computational intelligence-based energy management for a large-scale PHEV/PEV enabled municipal parking deck. Applied Energy, 2012, 96, 171-182.	5.1	148
86	A Survey on the Electrification of Transportation in a Smart Grid Environment. IEEE Transactions on Industrial Informatics, 2012, 8, 1-10.	7.2	642
87	Energy Management Systems in Microgrid Operations. Electricity Journal, 2012, 25, 45-60.	1.3	213
88	Performance Evaluation of an EDA-Based Large-Scale Plug-In Hybrid Electric Vehicle Charging Algorithm. IEEE Transactions on Smart Grid, 2012, 3, 308-315.	6.2	316
89	Performance evaluation of a PHEV parking station using Particle Swarm Optimization. , 2011, , .		92
90	Evaluation on intelligent energy management system for PHEVs/PEVs using Monte Carlo method. , 2011, , .		9

#	ARTICLE	IF	CITATIONS
91	Microgrid planning and operation: Solar energy and wind energy. , 2010, , .		27
92	Modeling and simulation of short-term energy storage: Flywheel. , 2010, , .		11