Wencong Su

List of Publications by Year
in descending order

92 papers	4,520 citations	186209 28 h-index	123376 61 g-index
93 all docs	93 docs citations	93 times ranked	4494 citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on the Electrification of Transportation in a Smart Grid Environment. IEEE Transactions on Industrial Informatics, 2012, 8, 1-10.	7.2	642
2	Stochastic Energy Scheduling in Microgrids With Intermittent Renewable Energy Resources. IEEE Transactions on Smart Grid, 2014, 5, 1876-1883.	6.2	578
3	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
4	Energy Management Systems in Microgrid Operations. Electricity Journal, 2012, 25, 45-60.	1.3	213
5	Two-Stage Economic Operation of Microgrid-Like Electric Vehicle Parking Deck. IEEE Transactions on Smart Grid, 2016, 7, 1703-1712.	6.2	185
6	Computational intelligence-based energy management for a large-scale PHEV/PEV enabled municipal parking deck. Applied Energy, 2012, 96, 171-182.	5.1	148
7	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
8	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
9	A Dual-Coupled LCC-Compensated IPT System With a Compact Magnetic Coupler. IEEE Transactions on Power Electronics, 2018, 33, 6391-6402.	5.4	112
10	Indirect Customer-to-Customer Energy Trading With Reinforcement Learning. IEEE Transactions on Smart Grid, 2019, 10, 4338-4348.	6.2	108
11	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
12	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
13	Proactive Resilience of Power Systems Against Natural Disasters: A Literature Review. IEEE Access, 2019, 7, 163778-163795.	2.6	95
14	Performance evaluation of a PHEV parking station using Particle Swarm Optimization. , 2011, , .		92
15	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
16	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
17	An effective stochastic framework for smart coordinated operation of wind park and energy storage unit. Applied Energy, 2020, 272, 115228.	5.1	82
18	Multi-agent energy management of smart islands using primal-dual method of multipliers. Energy, 2020, 208, 118306.	4.5	80

#	ARTICLE	IF	CITATIONS
19	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
20	Local Energy Trading Behavior Modeling With Deep Reinforcement Learning. IEEE Access, 2018, 6, 62806-62814.	2.6	74
21	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
22	The Role of Customers in the U.S. Electricity Market: Past, Present and Future. Electricity Journal, 2014, 27, 112-125.	1.3	64
23	Unsupervised Fault Detection and Analysis for Large Photovoltaic Systems Using Drones and Machine Vision. Energies, 2018, 11, 2252.	1.6	60
24	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
25	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
26	The Next-Generation U.S. Retail Electricity Market with Customers and Prosumersâ€"A Bibliographical Survey. Energies, 2018, 11, 8.	1.6	54
27	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
28	Reliability Analysis of Power Systems Integrated With High-Penetration of Power Converters. IEEE Transactions on Power Systems, 2021, 36, 1998-2009.	4.6	32
29	An Integrated eVoucher Mechanism for Flexible Loads in Real-Time Retail Electricity Market. IEEE Access, 2017, 5, 2101-2110.	2.6	29
30	Large-Signal Stability Criteria in DC Power Grids With Distributed-Controlled Converters and Constant Power Loads. IEEE Transactions on Smart Grid, 2020, 11, 5273-5287.	6.2	28
31	Microgrid planning and operation: Solar energy and wind energy. , 2010, , .		27
32	A fog computing solution for advanced metering infrastructure. , 2016, , .		25
33	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
34	Grid-Forming Converters for Stability Issues in Future Power Grids. Energies, 2022, 15, 4937.	1.6	23
35	Consensus-based distributed control for economic operation of distribution grid with multiple consumers and prosumers. , 2016, , .		22
36	Control of battery charging based on reinforcement learning and long short-term memory networks. Computers and Electrical Engineering, 2020, 85, 106670.	3.0	22

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37	Day-Ahead Electricity Demand Forecasting Competition: Post-COVID Paradigm. IEEE Open Access Journal of Power and Energy, 2022, 9, 185-191.	2.5	22
38	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
39	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
40	An Evolutionary Deep Learning-Based Anomaly Detection Model for Securing Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4478-4486.	4.7	19
41	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
42	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
43	A Distributed Consensus-Based Algorithm for Optimal Power Flow in DC Distribution Grids. IEEE Transactions on Power Systems, 2020, 35, 3506-3515.	4.6	18
44	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
45	Proactive Resilient Scheduling for Networked Microgrids With Extreme Events. IEEE Access, 2019, 7, 112639-112652.	2.6	16
46	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
47	Economic analysis of plug-in electric vehicle parking deck with dynamic pricing. , 2014, , .		14
48	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
49	Centralized, decentralized, and distributed control for Energy Internet. , 2019, , 3-19.		13
50	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
51	Modeling and simulation of short-term energy storage: Flywheel. , 2010, , .		11
52	A distributed data storage and processing framework for next-generation residential distribution systems. Electric Power Systems Research, 2014, 116, 174-181.	2.1	11
53	Classification of electricity customer groups towards individualized price scheme design. , 2017, , .		11
54	Resilient microgrid system design for disaster impact mitigation. Sustainable and Resilient Infrastructure, 2021, 6, 56-72.	1.7	11

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55	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
56	Fully Distributed AC Optimal Power Flow. IEEE Access, 2019, 7, 97594-97603.	2.6	10
57	Planning, Control, and Management Strategies for Parking Lots for PEVs. Power Systems, 2015, , 61-98.	0.3	10
58	Evaluation on intelligent energy management system for PHEVs/PEVs using Monte Carlo method. , 2011, , .		9
59	Robust distributed energy resources management for microgrids in a retail electricity market. , 2017, , .		8
60	Charging Control of an Electric Vehicle Battery Based on Reinforcement Learning. , 2019, , .		8
61	Fully distributed AC power flow (ACPF) algorithm for distribution systems. IET Smart Grid, 2019, 2, 155-162.	1.5	8
62	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
63	Optimal DC Microgrid Operation with Model Predictive Control-Based Voltage-Dependent Demand Response and Optimal Battery Dispatch. Energies, 2022, 15, 2140.	1.6	8
64	Intelligent home energy management system for distributed renewable generators, dispatchable residential loads and distributed energy storage devices. , 2017, , .		6
65	An innovative localized retail electricity market based on energy broker and search theory. , 2017, , .		6
66	Modeling and Analysis of Residential Electricity Consumption Statistics: A Tracy-Widom Mixture Density Approximation. IEEE Access, 2020, 8, 163558-163567.	2.6	6
67	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
68	Real-time operation of distribution network: A deep reinforcement learning-based reconfiguration approach. Sustainable Energy Technologies and Assessments, 2022, 50, 101841.	1.7	6
69	Bit-energy: An innovative bitcoin-style distributed transactional model for a competitive electricity market. , 2017, , .		5
70	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
71	A game theoretic approach to analyze the dynamic interactions of multiple residential prosumers considering power flow constraints. , 2016, , .		4
72	Operating cost optimization of interconnected nanogrids considering bidirectional effect of V2G and V2H. , 2017, , .		4

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73	Electricity market reform. , 2019, , 97-121.		4
74	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
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	The application of distributed control algorithms using VOLTTRON-based software platform. , 2017, , .		3
77	Participation of electric vehicle parking lots into retail electricity market with evoucher mechanism. , 2017, , .		3
78	Emerging data encryption methods applicable to Energy Internet. , 2019, , 181-199.		3
79	Optimal Sizing of Energy Storage System for Operation of Wind Farms Considering Grid-Code Constraints. Energies, 2021, 14, 5478.	1.6	3
80	A risk assessment method based on multi-stage overloading in smart distribution network. , 2013, , .		2
81	Optimal routing and charging of an Uber-like electric vehicle considering dynamic electricity price and passenger satisfaction. , 2016, , .		2
82	Resilient Restoration for Distribution System Operators when Facing Extreme Events. , 2018, , .		2
83	Distanceâ€oriented hierarchical control and ecological driving strategy for HEVs. IET Electrical Systems in Transportation, 2019, 9, 44-52.	1.5	2
84	A simulation study of electric vehicle charging in microgrids. , 2013, , .		1
85	Twoâ€stage stochastic operation framework for optimal management of the waterâ€"energyâ€"hub. IET Generation, Transmission and Distribution, 2019, 13, 5218-5228.	1.4	1
86	Time-Sharing Duty Cycle-Based Concurrent Control for a Triple-Output Converter With Energy Storage. IEEE Access, 2019, 7, 182433-182443.	2.6	1
87	Reliability interdependencies and causality assessment for a converterâ€penetrated power system. IET Generation, Transmission and Distribution, 2022, 16, 2547-2558.	1.4	1
88	A proof-of-concept demonstration for the transportation electrification education. , 2014, , .		0
89	A simulation platform for energy-efficient dynamic commuter transit using electric vehicles. , 2016, , .		0
90	Two-stage economic operation of microgrid-like electric vehicle parking deck. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
91	Investigate the impacts of PEV charging facilities on integrated electric distribution system and electrified transportation system. , 2016, , .		0
92	Uncovering Hidden Factors in Electricity Consumption Based on Gaussian Mixture Estimation. Energies, 2022, 15, 319.	1.6	0