

Fei Ding

List of Publications by Year in descending order

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59
papers

1,607
citations

471509

17
h-index

526287

27
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59
all docs

59
docs citations

59
times ranked

985
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordinated Control Method of Voltage and Reactive Power for Active Distribution Networks Based on Soft Open Point. IEEE Transactions on Sustainable Energy, 2017, 8, 1430-1442.	8.8	250
2	On Distributed PV Hosting Capacity Estimation, Sensitivity Study, and Improvement. IEEE Transactions on Sustainable Energy, 2017, 8, 1010-1020.	8.8	194
3	Robust Operation of Soft Open Points in Active Distribution Networks With High Penetration of Photovoltaic Integration. IEEE Transactions on Sustainable Energy, 2019, 10, 280-289.	8.8	155
4	Optimal Operation of Soft Open Points in Active Distribution Networks Under Three-Phase Unbalanced Conditions. IEEE Transactions on Smart Grid, 2019, 10, 380-391.	9.0	121
5	An enhanced SOCP-based method for feeder load balancing using the multi-terminal soft open point in active distribution networks. Applied Energy, 2017, 208, 986-995.	10.1	95
6	A centralized-based method to determine the local voltage control strategies of distributed generator operation in active distribution networks. Applied Energy, 2018, 228, 2024-2036.	10.1	70
7	Attention Enabled Multi-Agent DRL for Decentralized Volt-VAR Control of Active Distribution System Using PV Inverters and SVCs. IEEE Transactions on Sustainable Energy, 2021, 12, 1582-1592.	8.8	68
8	MPC-Based Local Voltage Control Strategy of DGs in Active Distribution Networks. IEEE Transactions on Sustainable Energy, 2020, 11, 2911-2921.	8.8	48
9	Leveraging Standards to Create an Open Platform for the Development of Advanced Distribution Applications. IEEE Access, 2018, 6, 37361-37370.	4.2	36
10	Deep Reinforcement Learning Enabled Physical-Model-Free Two-Timescale Voltage Control Method for Active Distribution Systems. IEEE Transactions on Smart Grid, 2022, 13, 149-165.	9.0	36
11	Technologies to increase PV hosting capacity in distribution feeders. , 2016, , .		34
12	Coordinated Use of Smart Inverters With Legacy Voltage Regulating Devices in Distribution Systems With High Distributed PV Penetrationâ€”Increase CVR Energy Savings. IEEE Transactions on Smart Grid, 2023, 14, 1804-1813.	9.0	30
13	Model-free voltage control of active distribution system with PVs using surrogate model-based deep reinforcement learning. Applied Energy, 2022, 306, 117982.	10.1	30
14	On Vulnerability and Resilience of Cyber-Physical Power Systems: A Review. IEEE Systems Journal, 2022, 16, 2367-2378.	4.6	25
15	Methods to determine recommended feeder-wide advanced inverter settings for improving distribution system performance. , 2016, , .		24
16	Voltage support study of smart PV inverters on a high-photovoltaic penetration utility distribution feeder. , 2016, , .		24
17	A techno-economic comparison of traditional upgrades, volt-var controls, and coordinated distributed energy resource management systems for integration of distributed photovoltaic resources. International Journal of Electrical Power and Energy Systems, 2020, 123, 106222.	5.5	24
18	Application of autonomous smart inverter Volt-VAR function for voltage reduction energy savings and power quality in electric distribution systems. , 2017, , .		23

#	ARTICLE	IF	CITATIONS
19	Quasi-Static Time-Series PV Hosting Capacity Methodology and Metrics. , 2019, , .		22
20	Optimal Energy Dispatch of Distributed PVs for the Next Generation of Distribution Management Systems. IEEE Open Access Journal of Power and Energy, 2020, 7, 287-295.	3.4	22
21	Performance Evaluation of Distributed Energy Resource Management via Advanced Hardware-in-the-Loop Simulation. , 2020, , .		22
22	Integration of Utility Distributed Energy Resource Management System and Aggregators for Evolving Distribution System Operators. Journal of Modern Power Systems and Clean Energy, 2022, 10, 277-285.	5.4	22
23	Hierarchical Distribution System Adaptive Restoration With Diverse Distributed Energy Resources. IEEE Transactions on Sustainable Energy, 2021, 12, 1347-1359.	8.8	21
24	Collaborative Distribution System Restoration Planning and Real-Time Dispatch Considering Behind-the-Meter DERS. IEEE Transactions on Power Systems, 2021, 36, 3629-3644.	6.5	21
25	Hidden Moving Target Defense against False Data Injection in Distribution Network Reconfiguration. , 2018, , .		18
26	Voltage Regulation Performance Evaluation of Distributed Energy Resource Management via Advanced Hardware-in-the-Loop Simulation. Energies, 2021, 14, 6734.	3.1	17
27	Locational sensitivity investigation on PV hosting capacity and fast track PV screening. , 2016, , .		14
28	Hierarchical Distributed Voltage Regulation in Networked Autonomous Grids. , 2019, , .		14
29	Self-Organizing Map-Based Resilience Quantification and Resilient Control of Distribution Systems Under Extreme Events. IEEE Transactions on Smart Grid, 2022, 13, 1923-1937.	9.0	14
30	A Network-Aware Distributed Energy Resource Aggregation Framework for Flexible, Cost-Optimal, and Resilient Operation. IEEE Transactions on Smart Grid, 2022, 13, 1213-1224.	9.0	12
31	Coordinated Inverter Control to Increase Dynamic PV Hosting Capacity: A Real-Time Optimal Power Flow Approach. IEEE Systems Journal, 2022, 16, 1933-1944.	4.6	11
32	Quantification of Load Flexibility in Residential Buildings Using Home Energy Management Systems. , 2020, , .		9
33	Distribution-connected PV's response to voltage sags at transmission-scale. , 2016, , .		7
34	On Per-Phase Topology Control and Switching in Emerging Distribution Systems. IEEE Transactions on Power Delivery, 2018, 33, 2373-2383.	4.3	7
35	Beyond Hosting Capacity: Using Shortest-Path Methods to Minimize Upgrade Cost Pathways. IEEE Journal of Photovoltaics, 2019, 9, 1051-1056.	2.5	6
36	Data-Enhanced Hierarchical Control to Improve Distribution Voltage with Extremely High PV Penetration. , 2019, , .		6

#	ARTICLE	IF	CITATIONS
37	Q-Learning-Based Impact Assessment of Propagating Extreme Weather on Distribution Grids. , 2020, , .		6
38	Sequential Mitigation Solutions to Enable Distributed PV Grid Integration. , 2018, , .		5
39	Dynamic Restoration Strategy for Distribution System Resilience Enhancement. , 2020, , .		5
40	Identification of Worst Impact Zones for Power Grids During Extreme Weather Events Using Q-learning. , 2020, , .		4
41	Global Sensitivity Analysis of Large Distribution System With PVs Using Deep Gaussian Process. IEEE Transactions on Power Systems, 2021, 36, 4888-4891.	6.5	4
42	Improving advanced inverter control convergence in distribution power flow. , 2016, , .		3
43	A Transparent Translation from Legacy System Model into Common Information Model. , 2018, , .		3
44	Coordinated Use of Smart Inverters with Legacy Voltage Regulating Devices in Distribution Systems with High Distributed PV Penetrationâ€”Increase CVR Energy Savings. , 2019, , .		3
45	An Analysis of Post Attack Impacts and Effects of Learning Parameters on Vulnerability Assessment of Power Grid. , 2020, , .		3
46	The Impact of Behind-the-Meter Heterogeneous Distributed Energy Resources on Distribution Grids. , 2020, , .		3
47	On Distributed PV Hosting Capacity Estimation, Sensitivity Study and Improvement. , 2018, , .		2
48	A Model-Predictive Hierarchical-Control Framework for Aggregating Residential DERs to Provide Grid Regulation Services. , 2020, , .		2
49	Evaluating the Curtailment Risk of Non-Firm Utility-Scale Solar Photovoltaic Plants under a Novel Last-In First-Out Principle of Access Interconnection Agreement. Energies, 2021, 14, 1463.	3.1	2
50	Distributed generator-based distribution system service restoration strategy and model-free control methods. Global Energy Interconnection, 2021, 4, 126-135.	2.3	2
51	Post-Disturbance Dynamic Distribution System Restoration with DGs and Mobile Resources. , 2020, , .		2
52	Modeling the Strategic Behavior of an Active Distribution Network in the ISO Markets. , 2021, , .		2
53	DERMS Online: A New Voltage Sensitivity-Enabled Feedback Optimization Framework. , 2022, , .		2
54	Understanding the Impact of Electric Water Heater Control on the Grid. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	Data-Driven Distribution System Coordinated PV Inverter Control Using Deep Reinforcement Learning. , 2021, , .		1
56	On Per-Phase Topology Control and Switching in Emerging Distribution Systems. , 2019, , .		0
57	Data-driven Global Sensitivity Analysis of Three- Phase Distribution System with PVs. , 2021, , .		0
58	Decentralized Voltage Control of Large-Scale Distribution System with PVs Based on MADRL. , 2021, , .		0
59	A Hybrid Data-Driven and Model-Based Anomaly Detection Scheme for DER Operation. , 2022, , .		0