

Zhaoyu Wang

List of Publications by Year in descending order

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110
papers

6,405
citations

81900

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all docs

110
docs citations

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times ranked

3922
citing authors

#	ARTICLE	IF	CITATIONS
1	Switching Device-Cognizant Sequential Distribution System Restoration. IEEE Transactions on Power Systems, 2022, 37, 317-329.	6.5	14
2	Hybrid Imitation Learning for Real-Time Service Restoration in Resilient Distribution Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 2089-2099.	11.3	16
3	Cyber-Resilient Multi-Energy Management for Complex Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 2144-2159.	11.3	17
4	Distribution Grid Modeling Using Smart Meter Data. IEEE Transactions on Power Systems, 2022, 37, 1995-2004.	6.5	12
5	Multisource Data Fusion Outage Location in Distribution Systems via Probabilistic Graphical Models. IEEE Transactions on Smart Grid, 2022, 13, 1357-1371.	9.0	8
6	A Bilevel Voltage Regulation Operation for Distribution Systems With Self-Operated Microgrids. IEEE Transactions on Smart Grid, 2022, 13, 1238-1248.	9.0	5
7	A Sequential Black-Start Restoration Model for Resilient Active Distribution Networks. IEEE Transactions on Power Systems, 2022, 37, 3133-3136.	6.5	20
8	Bayesian Estimates of Transmission Line Outage Rates That Consider Line Dependencies. IEEE Transactions on Power Systems, 2021, 36, 1095-1106.	6.5	7
9	Imitation and Transfer Q-Learning-Based Parameter Identification for Composite Load Modeling. IEEE Transactions on Smart Grid, 2021, 12, 1674-1684.	9.0	18
10	Nonlinear Multiple Models Adaptive Secondary Voltage Control of Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 227-238.	9.0	21
11	Disaggregating Customer-Level Behind-the-Meter PV Generation Using Smart Meter Data and Solar Exemplars. IEEE Transactions on Power Systems, 2021, 36, 5417-5427.	6.5	25
12	Cooperative Peak Shaving and Voltage Regulation in Unbalanced Distribution Feeders. IEEE Transactions on Power Systems, 2021, 36, 5235-5244.	6.5	24
13	Extracting Resilience Metrics From Distribution Utility Data Using Outage and Restore Process Statistics. IEEE Transactions on Power Systems, 2021, 36, 5814-5823.	6.5	20
14	Learning-Based Real-Time Event Identification Using Rich Real PMU Data. IEEE Transactions on Power Systems, 2021, 36, 5044-5055.	6.5	17
15	Parameter Reduction of Composite Load Model Using Active Subspace Method. IEEE Transactions on Power Systems, 2021, 36, 5441-5452.	6.5	10
16	Enriching Load Data Using Micro-PMUs and Smart Meters. IEEE Transactions on Smart Grid, 2021, 12, 5084-5094.	9.0	9
17	Multi-Agent Safe Policy Learning for Power Management of Networked Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 1048-1062.	9.0	64
18	Smart Meter Data Compression and Reconstruction Using Deep Convolutional Autoencoders. , 2021, , .		1

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19	Distributed Optimal Conservation Voltage Reduction in Integrated Primary-Secondary Distribution Systems. IEEE Transactions on Smart Grid, 2021, 12, 3889-3900.	9.0	38
20	A Two-Level Simulation-Assisted Sequential Distribution System Restoration Model With Frequency Dynamics Constraints. IEEE Transactions on Smart Grid, 2021, 12, 3835-3846.	9.0	40
21	Mining Smart Meter Data to Enhance Distribution Grid Observability for Behind-the-Meter Load Control: Significantly improving system situational awareness and providing valuable insights. IEEE Electrification Magazine, 2021, 9, 92-103.	1.8	11
22	Mitigating Smart Meter Asynchrony Error Via Multi-Objective Low Rank Matrix Recovery. IEEE Transactions on Smart Grid, 2021, 12, 4308-4317.	9.0	5
23	Stochastic pre-event preparation for enhancing resilience of distribution systems. Renewable and Sustainable Energy Reviews, 2021, 152, 111636.	16.4	34
24	Transmission grid outage statistics extracted from a web page logging outages in Northeast America. , 2021, , .		4
25	Analyzing Photovoltaic's Impact on Conservation Voltage Reduction in Distribution Networks. , 2021, , .		3
26	A Stochastic Multi-Commodity Logistic Model for Disaster Preparation in Distribution Systems. IEEE Transactions on Smart Grid, 2020, 11, 565-576.	9.0	30
27	Energy Disaggregation via Deep Temporal Dictionary Learning. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1696-1709.	11.3	51
28	Repair and Resource Scheduling in Unbalanced Distribution Systems Using Neighborhood Search. IEEE Transactions on Smart Grid, 2020, 11, 673-685.	9.0	48
29	A Learning-Based Power Management Method for Networked Microgrids Under Incomplete Information. IEEE Transactions on Smart Grid, 2020, 11, 1193-1204.	9.0	85
30	Markov Decision Process-Based Resilience Enhancement for Distribution Systems: An Approximate Dynamic Programming Approach. IEEE Transactions on Smart Grid, 2020, 11, 2498-2510.	9.0	46
31	Applying Bayesian estimates of individual transmission line outage rates. , 2020, , .		1
32	WECC Composite Load Model Parameter Identification Using Evolutionary Deep Reinforcement Learning. IEEE Transactions on Smart Grid, 2020, 11, 5407-5417.	9.0	32
33	Outage Detection in Partially Observable Distribution Systems Using Smart Meters and Generative Adversarial Networks. IEEE Transactions on Smart Grid, 2020, 11, 5418-5430.	9.0	24
34	Optimal Bidding of Li-ion BESS in Regulation Markets Considering Capacity Degradation. , 2020, , .		1
35	Can the Markovian influence graph simulate cascading resilience from historical outage data?. , 2020, , .		4
36	A Hybrid Machine Learning Model for Battery Cycle Life Prediction with Early Cycle Data. , 2020, , .		9

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37	Distributed Online Voltage Control for Wind Farms Using Generalized Fast Dual Ascent. IEEE Transactions on Power Systems, 2020, 35, 4505-4517.	6.5	19
38	Mobile Emergency Generator Planning in Resilient Distribution Systems: A Three-Stage Stochastic Model With Nonanticipativity Constraints. IEEE Transactions on Smart Grid, 2020, 11, 4847-4859.	9.0	60
39	A Data-Driven Customer Segmentation Strategy Based on Contribution to System Peak Demand. IEEE Transactions on Power Systems, 2020, 35, 4026-4035.	6.5	15
40	A Data-Driven Game-Theoretic Approach for Behind-the-Meter PV Generation Disaggregation. IEEE Transactions on Power Systems, 2020, 35, 3133-3144.	6.5	66
41	Statistical Modeling of Networked Solar Resources for Assessing and Mitigating Risk of Interdependent Inverter Tripping Events in Distribution Grids. IEEE Transactions on Power Systems, 2020, 35, 3835-3846.	6.5	2
42	A Customer-Centric Approach to Bid-Based Transactive Energy System Design. IEEE Transactions on Smart Grid, 2020, 11, 4996-5008.	9.0	7
43	A Markovian Influence Graph Formed From Utility Line Outage Data to Mitigate Large Cascades. IEEE Transactions on Power Systems, 2020, 35, 3224-3235.	6.5	48
44	Mathematical Representation of WECC Composite Load Model. Journal of Modern Power Systems and Clean Energy, 2020, 8, 1015-1023.	5.4	19
45	High-fidelity large-signal order reduction approach for composite load model. IET Generation, Transmission and Distribution, 2020, 14, 4888-4897.	2.5	2
46	Quantifying Load Uncertainty Using Real Smart Meter Data. , 2020, , .		1
47	Swing Contracts With Dynamic Reserves for Flexible Service Management. IEEE Transactions on Power Systems, 2019, 34, 4024-4037.	6.5	2
48	SVM-Based Parameter Identification for Composite ZIP and Electronic Load Modeling. IEEE Transactions on Power Systems, 2019, 34, 182-193.	6.5	39
49	Model-based control addition to prescribe DFIG wind turbine fast frequency response. Wind Energy, 2019, 22, 1343-1355.	4.2	1
50	A Data-Driven Framework for Assessing Cold Load Pick-Up Demand in Service Restoration. IEEE Transactions on Power Systems, 2019, 34, 4739-4750.	6.5	18
51	A Game-Theoretic Data-Driven Approach for Pseudo-Measurement Generation in Distribution System State Estimation. IEEE Transactions on Smart Grid, 2019, 10, 5942-5951.	9.0	38
52	Resilience-Oriented Design of Distribution Systems. IEEE Transactions on Power Systems, 2019, 34, 2880-2891.	6.5	86
53	Coordinated Restoration of Transmission and Distribution System Using Decentralized Scheme. IEEE Transactions on Power Systems, 2019, 34, 3428-3442.	6.5	63
54	Chance-constrained maintenance scheduling for interdependent power and natural gas grids considering wind power uncertainty. IET Generation, Transmission and Distribution, 2019, 13, 686-694.	2.5	12

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55	An integrated transmission and distribution test system for evaluation of transactive energy designs. Applied Energy, 2019, 240, 666-679.	10.1	28
56	SDP-Based Optimal Power Flow With Steady-State Voltage Stability Constraints. IEEE Transactions on Smart Grid, 2019, 10, 4637-4647.	9.0	27
57	A Time-Series Distribution Test System Based on Real Utility Data. , 2019, , .		61
58	Resilience Assessment of Self-healing Distribution Systems Under Extreme Weather Events. , 2019, , .		8
59	A Survey on State Estimation Techniques and Challenges in Smart Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 2312-2322.	9.0	274
60	Distributed CVR in Unbalanced Distribution Systems With PV Penetration. IEEE Transactions on Smart Grid, 2019, 10, 5308-5319.	9.0	75
61	A Statistical Approach to Estimate Imbalance-Induced Energy Losses for Data-Scarce Low Voltage Networks. IEEE Transactions on Power Systems, 2019, 34, 2825-2835.	6.5	18
62	A Multi-Timescale Data-Driven Approach to Enhance Distribution System Observability. IEEE Transactions on Power Systems, 2019, 34, 3168-3177.	6.5	18
63	Robust Time-Varying Parameter Identification for Composite Load Modeling. IEEE Transactions on Smart Grid, 2019, 10, 967-979.	9.0	50
64	A Data-Driven Stackelberg Market Strategy for Demand Response-Enabled Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 2345-2357.	9.0	62
65	A Bidding Strategy for Virtual Power Plants With the Intraday Demand Response Exchange Market Using the Stochastic Programming. IEEE Transactions on Industry Applications, 2018, 54, 3044-3055.	4.9	111
66	Dynamic Game-Based Maintenance Scheduling of Integrated Electric and Natural Gas Grids With a Bilevel Approach. IEEE Transactions on Power Systems, 2018, 33, 4958-4971.	6.5	25
67	LMP-Based Pricing for Energy Storage in Local Market to Facilitate PV Penetration. IEEE Transactions on Power Systems, 2018, 33, 3373-3382.	6.5	47
68	Resilience Enhancement Strategy for Distribution Systems Under Extreme Weather Events. IEEE Transactions on Smart Grid, 2018, 9, 1442-1451.	9.0	299
69	Robust Time-Varying Load Modeling for Conservation Voltage Reduction Assessment. IEEE Transactions on Smart Grid, 2018, 9, 3304-3312.	9.0	68
70	Load Modeling—A Review. IEEE Transactions on Smart Grid, 2018, 9, 5986-5999.	9.0	289
71	Power Distribution System Outage Management With Co-Optimization of Repairs, Reconfiguration, and DG Dispatch. IEEE Transactions on Smart Grid, 2018, 9, 4109-4118.	9.0	206
72	A Novel MILP Formulation for Fault Isolation and Network Reconfiguration in Active Distribution Systems. , 2018, , .		7

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73	Dynamic Reconfiguration and Fault Isolation for a Self-Healing Distribution System. , 2018, , .		6
74	Analysis of Solvability Boundary for Droop-Controlled Microgrids. IEEE Transactions on Power Systems, 2018, 33, 5799-5802.	6.5	14
75	Optimizing Service Restoration in Distribution Systems With Uncertain Repair Time and Demand. IEEE Transactions on Power Systems, 2018, 33, 6828-6838.	6.5	124
76	Resilience Enhancement of Distribution Grids Against Extreme Weather Events. IEEE Transactions on Power Systems, 2018, 33, 4842-4853.	6.5	171
77	A Linear Solution Method of Generalized Robust Chance Constrained Real-Time Dispatch. IEEE Transactions on Power Systems, 2018, 33, 7313-7316.	6.5	23
78	SVM-Based Parameter Identification for Static Load Modeling. , 2018, , .		3
79	Interactive Model for Energy Management of Clustered Microgrids. IEEE Transactions on Industry Applications, 2017, 53, 1739-1750.	4.9	84
80	Enhanced Robustness of State Estimator to Bad Data Processing Through Multi-innovation Analysis. IEEE Transactions on Industrial Informatics, 2017, 13, 1610-1619.	11.3	49
81	Voltage stability assessment based on improved coupled singleâ€port method. IET Generation, Transmission and Distribution, 2017, 11, 2703-2711.	2.5	23
82	Networked microgrids for service restoration in resilient distribution systems. IET Generation, Transmission and Distribution, 2017, 11, 3612-3619.	2.5	106
83	Service restoration based on AMI and networked MGs under extreme weather events. IET Generation, Transmission and Distribution, 2017, 11, 401-408.	2.5	51
84	A Necessary Condition for Power Flow Insolvability in Power Distribution Systems With Distributed Generators. IEEE Transactions on Power Systems, 2017, 32, 1440-1450.	6.5	38
85	Physical rotor inertia of DFIG wind turbines for short-term frequency regulation in low-inertia grids. , 2017, , .		9
86	Participation factor based CVR for enhanced voltage stability using integrated transmission and distributed system. , 2017, , .		3
87	Comparison of CVR impact on transmission system load margin with aggregated and de-aggregated distribution system. , 2017, , .		3
88	Short-term transmission line maintenance scheduling with wind energy integration. , 2017, , .		3
89	Online decomposed optimal outage management after natural disasters. , 2017, , .		2
90	Optimization of transmission system repair and restoration with crew routing. , 2016, , .		13

#	ARTICLE	IF	CITATIONS
91	Assessment of Conservation Voltage Reduction by Unscented Kalman Filter based load modeling. , 2016, , .		1
92	Decentralized voltage/VAR control based on PV inverters. , 2016, , .		1
93	Data-Driven Power Outage Detection by Social Sensors. IEEE Transactions on Smart Grid, 2016, 7, 2516-2524.	9.0	71
94	Two-stage optimal demand response with battery energy storage systems. IET Generation, Transmission and Distribution, 2016, 10, 1286-1293.	2.5	41
95	Service restoration in resilient power distribution systems with networked microgrid. , 2016, , .		14
96	Robust Voltage Instability Predictor. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	11
97	Decentralized Energy Management System for Networked Microgrids in Grid-Connected and Islanded Modes. IEEE Transactions on Smart Grid, 2016, 7, 1097-1105.	9.0	309
98	Networked Microgrids for Self-Healing Power Systems. IEEE Transactions on Smart Grid, 2016, 7, 310-319.	9.0	305
99	Analysis of Performance and Efficiency of Conservation Voltage Optimization Considering Load Model Uncertainty. Journal of Energy Engineering - ASCE, 2015, 141, .	1.9	1
100	Self-Healing Resilient Distribution Systems Based on Sectionalization Into Microgrids. IEEE Transactions on Power Systems, 2015, 30, 3139-3149.	6.5	481
101	Stochastic DG Placement for Conservation Voltage Reduction Based on Multiple Replications Procedure. IEEE Transactions on Power Delivery, 2015, 30, 1039-1047.	4.3	61
102	Coordinated energy management of networked Microgrids in distribution systems. , 2015, , .		5
103	PMU Uncertainty Quantification in Voltage Stability Analysis. IEEE Transactions on Power Systems, 2015, 30, 2196-2197.	6.5	23
104	Coordinated Energy Management of Networked Microgrids in Distribution Systems. IEEE Transactions on Smart Grid, 2015, 6, 45-53.	9.0	474
105	Time-Varying Stochastic Assessment of Conservation Voltage Reduction Based on Load Modeling. IEEE Transactions on Power Systems, 2014, 29, 2321-2328.	6.5	69
106	Review on Implementation and Assessment of Conservation Voltage Reduction. IEEE Transactions on Power Systems, 2014, 29, 1306-1315.	6.5	229
107	Analysis of Conservation Voltage Reduction Effects Based on Multistage SVR and Stochastic Process. IEEE Transactions on Smart Grid, 2014, 5, 431-439.	9.0	54
108	MPC-Based Voltage/Var Optimization for Distribution Circuits With Distributed Generators and Exponential Load Models. IEEE Transactions on Smart Grid, 2014, 5, 2412-2420.	9.0	142

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109	Robust Optimization Based Optimal DG Placement in Microgrids. IEEE Transactions on Smart Grid, 2014, 5, 2173-2182.	9.0	300
110	Robust Optimization for Transmission Expansion Planning: Minimax Cost vs. Minimax Regret. IEEE Transactions on Power Systems, 2014, 29, 3069-3077.	6.5	143