

Shengyuan Liu

List of Publications by Year in descending order

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56
papers

987
citations

516710

16
h-index

477307

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56
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docs citations

56
times ranked

535
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal GWCSO-based home appliances scheduling for demand response considering end-users comfort. <i>Electric Power Systems Research</i> , 2020, 187, 106477.	3.6	89
2	Data-Driven Event Detection of Power Systems Based on Unequal-Interval Reduction of PMU Data and Local Outlier Factor. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 1630-1643.	9.0	70
3	Robust System Separation Strategy Considering Online Wide-Area Coherency Identification and Uncertainties of Renewable Energy Sources. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 3574-3587.	6.5	68
4	Practical Method for Mitigating Three-Phase Unbalance Based on Data-Driven User Phase Identification. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 1653-1656.	6.5	67
5	Model-Free Data Authentication for Cyber Security in Power Systems. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 4565-4568.	9.0	58
6	Fuzzy compromised solution-based novel home appliances scheduling and demand response with optimal dispatch of distributed energy resources. <i>Applied Energy</i> , 2021, 290, 116761.	10.1	58
7	WAMS-Based Coherency Detection for Situational Awareness in Power Systems With Renewables. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 5410-5426.	6.5	49
8	Data-Driven Event Identification in the U.S. Power Systems Based on 2D-OLPP and RUSBoosted Trees. <i>IEEE Transactions on Power Systems</i> , 2022, 37, 94-105.	6.5	42
9	Optimal day-ahead scheduling of multiple integrated energy systems considering integrated demand response, cooperative game and virtual energy storage. <i>IET Generation, Transmission and Distribution</i> , 2021, 15, 1657-1673.	2.5	41
10	Review on optimization methodologies in transmission network reconfiguration of power systems for grid resilience. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e12704.	1.9	36
11	Technologies and Practical Implementations of Air-conditioner Based Demand Response. <i>Journal of Modern Power Systems and Clean Energy</i> , 2021, 9, 1395-1413.	5.4	27
12	Optimal coordinative operation strategy of the electric-thermal-gas integrated energy system considering CSP plant. <i>IET Energy Systems Integration</i> , 2020, 2, 187-195.	1.8	25
13	A Review of Clean Electricity Policies—From Countries to Utilities. <i>Sustainability</i> , 2020, 12, 7946.	3.2	22
14	Two-Step Electricity Theft Detection Strategy Considering Economic Return Based on Convolutional Autoencoder and Improved Regression Algorithm. <i>IEEE Transactions on Power Systems</i> , 2022, 37, 2346-2359.	6.5	21
15	Controlled Islanding Strategy Considering Uncertainty of Renewable Energy Sources Based on Chance-constrained Model. <i>Journal of Modern Power Systems and Clean Energy</i> , 2022, 10, 471-481.	5.4	21
16	Electricity Theft Detection Based on Stacked Autoencoder and the Undersampling and Resampling Based Random Forest Algorithm. <i>IEEE Access</i> , 2021, 9, 124044-124058.	4.2	19
17	Optimal BRA based electric demand prediction strategy considering instance-based learning of the forecast factors. <i>International Transactions on Electrical Energy Systems</i> , 2021, 31, e12967.	1.9	17
18	Wasserstein distance-based distributionally robust optimal scheduling in rural microgrid considering the coordinated interaction among source-grid-load-storage. <i>Energy Reports</i> , 2021, 7, 60-66.	5.1	16

#	ARTICLE	IF	CITATIONS
19	Optimal low-carbon scheduling of integrated local energy system considering oxygen-enriched combustion plant and generalized energy storages. IET Renewable Power Generation, 2022, 16, 671-687.	3.1	16
20	Optimal operation of integrated energy system considering virtual heating energy storage. Energy Reports, 2021, 7, 419-425.	5.1	13
21	Data source authentication of synchrophasor measurement devices based on 1D-CNN and GRU. Electric Power Systems Research, 2021, 196, 107207.	3.6	13
22	Early warning method for power supply service quality based on three-way decision theory and LSTM neural network. Energy Reports, 2022, 8, 537-543.	5.1	13
23	A Mixed CVaR-Based Stochastic Information Gap Approach for Building Optimal Offering Strategies of a CSP Plant in Electricity Markets. IEEE Access, 2020, 8, 85772-85783.	4.2	12
24	Multi-objective optimization strategy of multi-sources power system operation based on fuzzy chance constraint programming and improved analytic hierarchy process. Energy Reports, 2021, 7, 268-274.	5.1	12
25	Bi-Level Coordinated Power System Restoration Model Considering the Support of Multiple Flexible Resources. IEEE Transactions on Power Systems, 2023, 38, 1583-1595.	6.5	12
26	Data-Driven Condition Monitoring of Data Acquisition for Consumers' Transformers in Actual Distribution Systems Using t -Statistics. IEEE Transactions on Power Delivery, 2019, 34, 1578-1587.	4.3	10
27	The optimal emergency demand response (EDR) mechanism for rural power grid considering consumers' satisfaction. Energy Reports, 2021, 7, 118-125.	5.1	10
28	Charging Load Forecasting of Electric Vehicle Based on Monte Carlo and Deep Learning. , 2019, , .		9
29	Data-Driven Abnormity Assessment for Low-Voltage Power Consumption and Supplies Based on CRITIC and Improved Radar Chart Algorithms. IEEE Access, 2020, 8, 27139-27151.	4.2	9
30	Bi-layer portfolio selection model for electricity retailers based on behavioural portfolio theory under quota obligation of RPS. IET Generation, Transmission and Distribution, 2020, 14, 2857-2868.	2.5	9
31	Two-Stage MILP Model for Optimal Skeleton-Network Reconfiguration of Power System for Grid-Resilience Enhancement. Journal of Energy Engineering - ASCE, 2022, 148, .	1.9	9
32	Identification of distribution network topology parameters based on multidimensional operation data. Energy Reports, 2021, 7, 304-311.	5.1	8
33	Identification of critical lines for enhancing disaster resilience of power systems with renewables based on complex network theory. IET Generation, Transmission and Distribution, 2020, 14, 4459-4467.	2.5	7
34	Demand response ability evaluation based on seasonal and trend decomposition using LOESS and S-G filtering algorithms. Energy Reports, 2022, 8, 292-299.	5.1	7
35	A Joint Planning Method for Substations and Lines in Distribution Systems Based on the Parallel Bird Swarm Algorithm. Energies, 2018, 11, 2669.	3.1	6
36	Energy-saving rating of green Bed and Breakfast based on the fuzzy comprehensive evaluation. Energy Reports, 2021, 7, 197-203.	5.1	6

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37	Two-dimensional evaluation model of electrical equipment based on combined weighting and rating algorithm. <i>Energy Reports</i> , 2021, 7, 443-448.	5.1	6
38	Fuzzy Equivalence Relation Clustering-Based Algorithm for Coherency Identification among Generators. <i>Journal of Energy Engineering - ASCE</i> , 2019, 145, .	1.9	5
39	An operation health status monitoring algorithm of special transformers based on BIRCH and Gaussian cloud methods. <i>Energy Reports</i> , 2021, 7, 253-260.	5.1	5
40	Adding power of artificial intelligence to situational awareness of large interconnections dominated by inverter-based resources. <i>High Voltage</i> , 2021, 6, 924-937.	4.7	5
41	Data source authentication for wide-area synchrophasor measurements based on spatial signature extraction and quadratic kernel SVM. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 140, 108083.	5.5	5
42	Bi-level Optimal Placement Model of Phase Switch Devices for Mitigating Three-Phase Unbalance in Low-Voltage Areas. <i>IEEE Transactions on Power Systems</i> , 2022, 37, 3149-3152.	6.5	4
43	Optimization of distribution network reconfiguration based on Markov chain Monte Carlo method. <i>Energy Reports</i> , 2022, 8, 679-685.	5.1	4
44	A New Indicator of Transient Stability for Controlled Islanding of Power Systems: Critical Islanding Time. <i>Energies</i> , 2018, 11, 2975.	3.1	3
45	Combination Weight and Radar Chart Based Evaluation Method for Utility Tunnel Planning in Multiple Energy Systems. , 2018, , .		3
46	Investment Benefit Evaluation of Incremental Distribution Network Considering Regional Power Supply Growth. , 2019, , .		3
47	Multi-objective optimization model of electricity consumption for customers considering equipment consumption correlation. <i>Energy Reports</i> , 2021, 7, 209-215.	5.1	3
48	Medium-long term load forecasting method considering industry correlation for power management. <i>Energy Reports</i> , 2021, 7, 1231-1238.	5.1	3
49	Deep Learning Algorithm for Preliminary Siting of Substations Considering Various Features in Distribution Network Planning. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 192, 012032.	0.3	2
50	Two-stage restoration strategies for power systems considering coordinated dispatch between plug-in electric vehicles and wind power units. <i>IET Smart Grid</i> , 2020, 3, 123-132.	2.2	2
51	Maximum openable capacity optimization method of active distribution network considering multiple users access. <i>Energy Reports</i> , 2022, 8, 43-50.	5.1	2
52	Practical Event Location Estimation Algorithm for Power Transmission System Based on Triangulation and Oscillation Intensity. <i>IEEE Transactions on Power Delivery</i> , 2022, 37, 5190-5202.	4.3	2
53	Comprehensive Quality Assessment Algorithm for Smart Meters. <i>Energies</i> , 2019, 12, 3690.	3.1	1
54	Optimal Scheduling in Active Distribution Network Considering Coordinated Interactions among Source-Network-Load-Storage. , 2020, , .		1

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55	Evaluation and Replacement of Smart Meters. , 2020, , .		1
56	A Strategy for judging real-time and active reporting outage based on the power consumption information acquisition system. Energy Reports, 2021, 7, 380-388.	5.1	0