Shufeng Dong

List of Publications by Year
in descending order

133 papers	1,476 citations	411340 20 h-index	388640 36 g-index
133 all docs	133 docs citations	133 times ranked	1478 citing authors

#	Article	IF	Citations
1	A Quadratic Convergent Iteration-Variable-Correction-Based Method for Optimal Power Flow of Transmission-Distribution-Coupled Systems. IEEE Systems Journal, 2022, 16, 3360-3371.	2.9	3
2	Smart grid dispatch powered by deep learning: a survey. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 763-776.	1.5	7
3	A robust active distribution network defensive strategy against cyberâ€attack considering multiâ€uncertainties. IET Generation, Transmission and Distribution, 2022, 16, 1476-1488.	1.4	2
4	Multi-energy Microgrid Group Planning Hierarchical Collaborative Optimization Configuration. , 2022, , .		0
5	A parallel and asynchronous state estimation for coupled transmission-distribution networks. International Journal of Electrical Power and Energy Systems, 2022, 141, 108163.	3.3	2
6	Two-stage Robust Optimization Dispatching with Ultra-high Proportion of Electricity-receiving Based on Economic Operation Region Model. , 2022, , .		0
7	Resistance Strategy of Power Cyber-Physical System under Large-Scale and Complex Faults. , 2022, , .		0
8	Enhancing the Flexibility of Storage Integrated Power System by Multi-Stage Robust Dispatch. IEEE Transactions on Power Systems, 2021, 36, 2314-2322.	4.6	27
9	Fully Distributed Robust Reserve Scheduling for Coupled Transmission and Distribution Systems. IEEE Transactions on Power Systems, 2021, 36, 169-182.	4.6	46
10	Chance-Constrained Optimal Power Flow of Integrated Transmission and Distribution Networks With Limited Information Interaction. IEEE Transactions on Smart Grid, 2021, 12, 821-833.	6.2	15
11	An Asynchronous Forward-Backward-Splitting Power Flow Algorithm of Coupled Transmission and Active Distribution Systems. IEEE Transactions on Smart Grid, 2021, 12, 5457-5471.	6.2	5
12	An integrated multi-energy flow calculation method for electricity-gas-thermal integrated energy systems. Protection and Control of Modern Power Systems, 2021, 6, .	4.3	36
13	Real-time Estimation of Distributed 380V/220V Photovoltaics Based on Deep Learning. , 2021, , .		0
14	Optimal Configuration of the User Side Energy Storage With Multiple Values Considering Frequency Regulation. , 2021, , .		0
15	Optimal Siting and Sizing of Distributed Generation Considering Voltage Stability Fluctuation. , 2021, , .		1
16	Fast Calculation of Saddle-Node Bifurcation Point in Islanded Microgrid Based on Levenberg-Marquardt Algorithm. , 2021, , .		1
17	Distributed Robust Dynamic Economic Dispatch of Integrated Transmission and Distribution Systems. IEEE Transactions on Industry Applications, 2021, 57, 4500-4512.	3.3	19
18	Cross-space Risk Assessment of Cyber-physical Distribution System under Integrated Attack. IEEE Access, 2021, , 1-1.	2.6	3

#	ARTICLE	IF	CITATIONS
19	Anderson-Acceleration-Based Power Flow Method for Integrated Transmission and Distribution Networks. , 2021, , .		0
20	Parallel-Levenberg-Marquardt-Method-Based Power Flow Algorithm for Large-scale Ill-conditioned Systems With GPU-CPU Framework. , 2021, , .		0
21	Distributed Demand Response of the Integrated Energy System in an Industrial Park. , 2021, , .		1
22	Modeling Carbon Capture Plants (CCP) as Responsive Demands. , 2021, , .		0
23	A Two-Stage Maintenance-Operation Robust Optimization Model Considering Line Forced Outage. , 2021, , .		0
24	Review on the Development of Carbon Transaction in China and Analysis on the Participation Strategy of Electric Power Industry. , 2021, , .		0
25	Design of Intelligent Dispatching System Based on Human Voice Adaptive Speech Recognition. , 2021, , .		0
26	Research on optimization operation strategy of distributed energy system based on $\hat{I}\mu$-constraint method. , 2021, , .		0
27	Design of Multi-source Message Big Data Platform for Power Grid Dispatching Based on Improved Ontology Aggregation. , 2021, , .		0
28	Robust Dispatch with Temporal Decomposition of Integrated Electrical-Heating System Considering Dynamic Reserve Domain. , 2021, , .		2
29	Analysis of Commercial Model of Park-level Integrated Energy System Participating in Carbon Trading Considering Electric Vehicles. , 2021, , .		0
30	Distributed Storage System for Dispatch Information Supported by Blockchain Technology. , 2021, , .		0
31	Virtual Power Plant Alliance Risk Mitigation Model and Bidding Optimization Strategy Considering the Uncertainty of Renewable Energy. , 2021, , .		0
32	Optimal Configuration of Multi-energy Storage for Load Aggregators Considering User Behavior. , 2020, , .		1
33	Enhancing the Flexibility of Integrated Heat and Electricity System with Multi-stage Robust Programming Considering Thermal Inertia of Buildings. , 2020, , .		0
34	Non-anticipative Multi-stage Distributionally Robust Unit Commitment Based on the Operational Region of Generators. , 2020, , .		0
35	A Data-Driven Robust Unit Commitment Model of Electricity-Natural Gas System Considering Wind Power Uncertainty. , 2020, , .		0
36	Data€driven transient frequency stability assessment: A deep learning method with combined estimation€correction framework. Energy Conversion and Economics, 2020, 1, 198-209.	1.9	18

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37	Distributed Robust Dynamic Economic Dispatch of Integrated Transmission and Distribution Systems. , 2020, , .		1
38	Planning for Distribution System with Grey Wolf Optimization Method. Journal of Electrical Engineering and Technology, 2020, 15, 1485-1499.	1.2	33
39	Affine Arithmetic-Based Coordinated Interval Power Flow of Integrated Transmission and Distribution Networks. IEEE Transactions on Smart Grid, 2020, 11, 4116-4132.	6.2	17
40	Successive-Intersection-Approximation-Based Power Flow Method for Integrated Transmission and Distribution Networks. IEEE Transactions on Power Systems, 2020, 35, 4836-4846.	4.6	20
41	Risk-Based Coordination of Maintenance Scheduling and Unit Commitment in Power Systems. IEEE Access, 2020, 8, 58788-58799.	2.6	12
42	Asynchronous distributed global power flow method for transmission–distribution coordinated analysis considering communication conditions. Electric Power Systems Research, 2020, 182, 106256.	2.1	9
43	Synthesised–objective collaborative model and its solution algorithm for transmission–distribution coordinated optimisation. IET Generation, Transmission and Distribution, 2020, 14, 752-761.	1.4	6
44	Two–stage chance–constrained unit commitment based on optimal wind power consumption point considering battery energy storage. IET Generation, Transmission and Distribution, 2020, 14, 3738-3749.	1.4	10
45	Heterogeneous–decomposition–based coordinated optimisation for integrated transmission and distribution networks considering communication conditions. IET Generation, Transmission and Distribution, 2020, 14, 2558-2565.	1.4	6
46	Unified data–driven stochastic and robust service restoration method using non–parametric estimation in distribution networks with soft open points. IET Generation, Transmission and Distribution, 2020, 14, 3433-3443.	1.4	9
47	A Multilevel Edge Computing Architecture and Edge Generation Method of Distribution Networks. , 2020, , .		0
48	A Multi-Dimensional Information Integration Method for Power Transmission and Transformation Equipment Based on CIM and REST. , 2020, , .		0
49	Static Voltage Stability Margin Prediction of Island Microgrid Based on Tri-Training-Lasso-BP Network. , 2020, , .		2
50	Continuous Power Flow of Islanded Microgrids Based on Factored Load Flow and Step Size Control. , 2020, , .		0
51	Analysis of Radial Constraint Representation Methods for Distribution Networks. , 2020, , .		2
52	Comprehensive Identification of Critical Line in Power System with Large-Scale Wind Farms Integration. , 2020, , .		2
53	Synergistic Risk-Based Robust Scheduling for Hybrid AC-DC Systems via Analytical Target Cascading. , 2020, , .		0
54	Optimal Configuration of Hydrogen Storage System and Hydrogen Supply Chain Equipment for Regional Integrated Energy System. , 2020, , .		4

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55	Transmission Contingency Analysis Based on Data-Driven Equivalencing of Radial Distribution Networks Considering Uncertainties. IEEE Access, 2020, 8, 227247-227254.	2.6	4
56	Integrated Energy Coordinated Control System of Industrial Park and Its Application. , 2020, , .		0
57	Research on optimization operation strategy of building-type distributed energy system based on Ebsilon. , 2020, , .		0
58	Electric-thermal energy storage configuration of regional integrated energy system based on wind power prediction. , 2020, , .		0
59	A Robust Formulation Model for Multi-Period Failure Restoration Problems in Integrated Energy Systems. Energies, 2019, 12, 3673.	1.6	3
60	A Robust and Efficient Two-Stage Algorithm for Power Flow Calculation of Large-Scale Systems. IEEE Transactions on Power Systems, 2019, 34, 5012-5022.	4.6	22
61	A Review of Technical Methods for Distributed Systems with Distributed Generation (DG). , 2019, , .		13
62	Mass Expression Evaluation Parallel Algorithm Based on 'Expression Forest' and Its Application in Power System Calculation. , 2019, , .		2
63	Multi-stage Security Constrained OPF Using Dynamic Thermal Rating. , 2019, , .		0
64	Framework Design and Software Implementation of Whole Process Risk Coordination Control for Power System. , 2019, , .		0
65	Adaptive Damping Coefficient Control of Virtual Synchronous Generator of Microgrid Inverter. , 2019, , .		4
66	Modeling and Analysis of Electric Vehicle Charging Load in Residential Area. , 2019, , .		1
67	Robust Islanded Restoration Coordinating Multiple Distributed Resources to Enhance Resilience of Active Distribution System. , 2019, , .		3
68	An Oil-Immersed Transformer Fault Diagnosis Method Based on Data Preprocessing and Gradient Boosting. , 2019, , .		1
69	A Day-ahead Adjustable Robust Dispatching Model of Integrated Energy Systems Considering Renewables Penetration. , 2019, , .		1
70	Risk Assessment for Hybrid AC/DC System with Large-Scale Wind Power Integration. , 2019, , .		2
71	A Free and Open Source Toolbox based on Mathematica for Power System Analysis. , 2019, , .		1
72	Cyber-Constrained Optimal Power Flow Model for Smart Grid Resilience Enhancement. IEEE Transactions on Smart Grid, 2019, 10, 5547-5555.	6.2	44

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73	Decentralized Optimization of Multi-Area Electricity-Natural Gas Flows Based on Cone Reformulation. IEEE Transactions on Power Systems, 2018, 33, 4531-4542.	4.6	147
74	Impact analysis of human factors on power system operation reliability. Journal of Modern Power Systems and Clean Energy, 2018, 6, 27-39.	3.3	35
75	Robust Constrained Operation of Integrated Electricity-Natural Gas System Considering Distributed Natural Gas Storage. IEEE Transactions on Sustainable Energy, 2018, 9, 1061-1071.	5.9	169
76	Synergistic Integrated Electricity-Natural Gas System Operation with Demand Response. , 2018, , .		4
77	Design of Weak Link Identification System for Power Grid Based on Topology Analysis and Association Set Decomposition. , 2018, , .		1
78	GPU-Based Real-time N-1 AC Power Flow Algorithm With Preconditioned Iterative Method. , 2018, , .		3
79	Optimal Dispatch of Microgrid Based on Situation Awareness. , 2018, , .		2
80	Optimization Model and Algorithm of Unit Commitment Considering Operational Flexibility. , 2018, , .		0
81	Linearized Stochastic Scheduling of Interconnected Energy Hubs Considering Integrated Demand Response and Wind Uncertainty. Energies, 2018, 11, 2448.	1.6	26
82	Modeling cascading failures and mitigation strategies in PMU based cyber-physical power systems. Journal of Modern Power Systems and Clean Energy, 2018, 6, 944-957.	3.3	39
83	Probabilistic Load Flow Based on Generalized Polynomial Chaos. IEEE Transactions on Power Systems, 2017, 32, 820-821.	4.6	70
84	Fault diagnosis method for power distribution systems based on multi-source information. , 2017, , .		4
85	Accurate fault location of complex distribution network with distributed generators. Journal of Engineering, 2017, 2017, 1901-1905.	0.6	0
86	Applications of survival functions to continuous semi-Markov processes for measuring reliability of power transformers. Journal of Modern Power Systems and Clean Energy, 2017, 5, 959-969.	3.3	9
87	Analysis method of feeder partition capacity considering power supply security and distributed generation. Journal of Engineering, 2017, 2017, 2466-2470.	0.6	0
88	A path-based method for feeder partition available capability evaluation under N-1 security criterion. , 2017, , .		1
89	A transformer fault diagnosis method based on sub-clustering reduction and multiclass multi-kernel support vector machine. , 2017, , .		3
90	Modeling and Vulnerability Analysis of Cyber-Physical Power Systems Considering Network Topology and Power Flow Properties. Energies, 2017, 10, 87.	1.6	43

#	ARTICLE	IF	CITATIONS
91	Optimized positioning of IDU at active medium and high voltage distribution networks using DPSO algorithm. , 2017, , .		0
92	Optimal Expansion Co-Planning of Reconfigurable Electricity and Natural Gas Distribution Systems Incorporating Energy Hubs. Energies, 2017, 10, 124.	1.6	14
93	Identification of power grid critical lines based on comprehensive transmission betweenness. , 2017, , .		7
94	A Multi-Period Framework for Coordinated Dispatch of Plug-in Electric Vehicles. Energies, 2016, 9, 370.	1.6	5
95	Probabilistic load flow by generalized polynomial chaos method. , 2016, , .		2
96	A two-stage pattern recognition method for electric customer classification in smart grid. , 2016, , .		5
97	An adaptive harmony search algorithm based on positive feedback for network reconfiguration. , 2016, , .		0
98	Power supply capability analytical method based on sensitivity analysis for HV distribution networks. , 2016, , .		1
99	Critical Components for Maintenance Outage Scheduling Considering Weather Conditions and Common Mode Outages in Reconfigurable Distribution Systems. IEEE Transactions on Smart Grid, 2016, 7, 2807-2816.	6.2	24
100	Failure probability model of transmission and transformation equipment for risk assessment. , 2016, , .		2
101	Decentralized synergetic dispatch considering operating risk of interconnected power systems. , 2016, , .		1
102	Improved percolation theory incorporating power flow analysis to model cascading failures in Cyber-Physical Power System. , 2016, , .		6
103	Cyber-Physical Power System (CPPS) reliability assessment considering cyber attacks against monitoring functions. , 2016, , .		4
104	Operating Reliability Analysis of Peaking Generating Units Considering Start-Up Failures and Degradation. , 2016, , .		5
105	Enhanced Security-Constrained Unit Commitment With Emerging Utility-Scale Energy Storage. IEEE Transactions on Power Systems, 2016, 31, 652-662.	4.6	120
106	Adjustable risk-based direct current optimal power flow. International Transactions on Electrical Energy Systems, 2015, 25, 3212-3226.	1.2	1
107	Incorporating Cyber Layer Failures in Composite Power System Reliability Evaluations. Energies, 2015, 8, 9064-9086.	1.6	34
108	Development and design of dispatcher training simulation evaluation system based on IDAC. , 2015, , .		6

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109	Multi-objective distribution network reconfiguration based on system homogeneity. , 2015, , .		5
110	Decentralized synergetic dispatch of prosumer-based interconnected microgrids. , 2015, , .		1
111	Enhanced Security-Constrained OPF With Distributed Battery Energy Storage. IEEE Transactions on Power Systems, 2015, 30, 98-108.	4.6	65
112	Economic Dispatch With Non-Smooth Objectivesâ€"Part II: Dimensional Steepest Decline Method. IEEE Transactions on Power Systems, 2015, 30, 722-733.	4.6	36
113	Economic Dispatch With Non-Smooth Objectivesâ€"Part I: Local Minimum Analysis. IEEE Transactions on Power Systems, 2015, 30, 710-721.	4.6	32
114	Analysis of power system operation reliability incorporating human errors. , 2014, , .		9
115	Adaptive sequential importance sampling technique for shortâ€term composite power system adequacy evaluation. IET Generation, Transmission and Distribution, 2014, 8, 730-741.	1.4	25
116	Overload strategy of transmission and transformation equipment for safety operation. , 2014, , .		6
117	Quantification of human error probability in power system based on SLIM. , 2014, , .		3
118	An economic evaluation model of transformers considering outage consequence. , 2014, , .		0
119	Discussion on â€œSolving Preventive-Corrective SCOPF by a Hybrid Computational Strategyâ€. IEEE Transactions on Power Systems, 2014, 29, 3124-3124.	4.6	2
120	Analysis of human reliability in power system switching operation considering dependency of operators. , 2013, , .		3
121	The study on effect of random maintenance quality of components on composite power system reliability. , 2013, , .		3
122	A Bayesian network approach for human reliability analysis of power system. , 2013, , .		7
123	Software implementation of risk-based dispatch. , 2013, , .		3
124	Photovoltaic plant metering monitoring model and its calibration and parameter assessment. , 2012, , .		1
125	A new model of phase shifter for its efficient integration in interior point optimal power flow. European Transactions on Electrical Power, 2010, 20, 505-517.	1.0	2
126	An Efficient Implementation of Automatic Differentiation in Interior Point Optimal Power Flow. IEEE Transactions on Power Systems, 2010, 25, 147-155.	4.6	41

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127	A fault diagnosis method for power system based on multilayer information fusion structure. , 2010, , .		4
128	CIM-based information model for wide area measurement system. , 2009, , .		3
129	The information integration mode research of 500kV unattended-operation substation. , 2008, , .		0
130	The design of an Object-Oriented Embedded Platform for Substation Data Integration. , 2008, , .		0
131	Design and Implementation of Power System Integrated Information Platform Based on Agent Technology. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	2
132	Identification of fuzzy model using evolutionary programming and least squares estimate. , 0, , .		3
133	Short-term load forecasting using a new fuzzy modeling strategy. , 0, , .		4