Peng Li

List of Publications by Year
in descending order

88 papers	2,338 citations	218677 26 h-index	223800 46 g-index
89 all docs	89 docs citations	89 times ranked	1495 citing authors

#	Article	IF	Citations
1	Multi-stage supply restoration of active distribution networks with SOP integration. Sustainable Energy, Grids and Networks, 2022, 29, 100562.	3.9	9
2	Peer-to-Peer Electricity Trading of Interconnected Flexible Distribution Networks Based on Distributed Ledger. IEEE Transactions on Industrial Informatics, 2022, 18, 5949-5960.	11.3	14
3	Optimal Planning of Community Integrated Energy Station Considering Frequency Regulation Service. Journal of Modern Power Systems and Clean Energy, 2021, 9, 264-273.	5.4	20
4	Editorial: Flexible and Active Distribution Networks. Frontiers in Energy Research, 2021, 9, .	2.3	3
5	Improved SVD-based data compression method for synchronous phasor measurement in distribution networks. International Journal of Electrical Power and Energy Systems, 2021, 129, 106877.	5.5	5
6	Operational flexibility of active distribution networks with the potential from data centers. Applied Energy, 2021, 293, 116935.	10.1	32
7	Data-Driven Adaptive Operation of Soft Open Points in Active Distribution Networks. IEEE Transactions on Industrial Informatics, 2021, 17, 8230-8242.	11.3	23
8	Multi-objective power supply capacity evaluation method for active distribution network in power market environment. International Journal of Electrical Power and Energy Systems, 2020, 115, 105467.	5.5	36
9	GPU-based power converter transient simulation with matrix exponential integration and memory management. International Journal of Electrical Power and Energy Systems, 2020, 122, 106186.	5.5	6
10	Interpolation for power electronic circuit simulation revisited with matrix exponential and dense outputs. Electric Power Systems Research, 2020, 189, 106714.	3.6	4
11	Analytical Calculation Method of Reliability Sensitivity Indexes for Distribution Systems Based on Fault Incidence Matrix. Journal of Modern Power Systems and Clean Energy, 2020, 8, 325-333.	5.4	13
12	MPC-Based Local Voltage Control Strategy of DGs in Active Distribution Networks. IEEE Transactions on Sustainable Energy, 2020, 11, 2911-2921.	8.8	48
13	Decentralized Voltage Control Strategy of Soft Open Points in Active Distribution Networks Based on Sensitivity Analysis. Electronics (Switzerland), 2020, 9, 295.	3.1	11
14	Optimal Operation Strategy of a Community Integrated Energy System Constrained by the Seasonal Balance of Ground Source Heat Pumps. Sustainability, 2020, 12, 4627.	3.2	2
15	Operational flexibility of active distribution networks: Definition, quantified calculation and application. International Journal of Electrical Power and Energy Systems, 2020, 119, 105872.	5.5	21
16	Self-healing oriented supply restoration method based on the coordination of multiple SOPs in active distribution networks. Energy, 2020, 195, 116968.	8.8	42
17	Coordinated Operation and Planning of Integrated Electricity and Gas Community Energy System With Enhanced Operational Resilience. IEEE Access, 2020, 8, 59257-59277.	4.2	34
18	Optimal Design of the Sectional Switch and Tie Line for the Distribution Network based on the Fault Incidence Matrix. , 2020, , .		0

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19	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
20	Optimal placement of PMUs and communication links for distributed state estimation in distribution networks. Applied Energy, 2019, 256, 113963.	10.1	40
21	Exponential integration algorithm for large-scale wind farm simulation with Krylov subspace acceleration. Applied Energy, 2019, 254, 113692.	10.1	10
22	A Combined Central and Local Voltage Control Strategy of Soft Open Points in Active Distribution Networks. Energy Procedia, 2019, 158, 2524-2529.	1.8	12
23	A Unified Energy Bus Based Multi-energy Flow Modeling Method of Integrated Energy System. Energy Procedia, 2019, 159, 418-423.	1.8	12
24	A Decentralized Voltage Control Strategy of Soft Open Points in Active Distribution Networks. Energy Procedia, 2019, 159, 412-417.	1.8	17
25	Extended MANA Formulation for Time-domain Simulations of Combined Power and Gas Networks. Energy Procedia, 2019, 158, 6576-6581.	1.8	3
26	Voltage Control Method of Distribution Networks Using PMU Based Sensitivity Estimation. Energy Procedia, 2019, 158, 2707-2712.	1.8	5
27	Parameterized Modeling and Planning of Distributed Energy Storage in Active Distribution Networks. Applied Sciences (Switzerland), 2019, 9, 1643.	2.5	3
28	Novel voltage-to-power sensitivity estimation for phasor measurement unit-unobservable distribution networks based on network equivalent. Applied Energy, 2019, 250, 302-312.	10.1	12
29	Optimal placement of phasor measurement unit in distribution networks considering the changes in topology. Applied Energy, 2019, 250, 313-322.	10.1	46
30	Optimal Design of the Sectional Switch and Tie Line for the Distribution Network Based on the Fault Incidence Matrix. IEEE Transactions on Power Systems, 2019, 34, 4869-4879.	6.5	28
31	Congestion Management Method of Low-Voltage Active Distribution Networks Based on Distribution Locational Marginal Price. IEEE Access, 2019, 7, 32240-32255.	4.2	50
32	An islanding partition method of active distribution networks based on chance-constrained programming. Applied Energy, 2019, 242, 78-91.	10.1	31
33	Combined decentralized and local voltage control strategy of soft open points in active distribution networks. Applied Energy, 2019, 241, 613-624.	10.1	74
34	Determination of Local Voltage Control Strategy of Distributed Generators in Active Distribution Networks Based on Kriging Metamodel. IEEE Access, 2019, 7, 34438-34450.	4.2	18
35	Model predictive control based robust scheduling of community integrated energy system with operational flexibility. Applied Energy, 2019, 243, 250-265.	10.1	83
36	Augmented Sensitivity Estimation Based Voltage Control Strategy of Active Distribution Networks With PMU Measurement. IEEE Access, 2019, 7, 44987-44997.	4.2	29

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37	Quantified analysis method for operational flexibility of active distribution networks with high penetration of distributed generators. Applied Energy, 2019, 239, 706-714.	10.1	57
38	Planning of Central Energy Station in Community Integrated Energy System with Electrical and Heat Storage Devices. , 2019, , .		2
39	A Universal Design of FPGA-Based Real-Time Simulator for Active Distribution Networks Based on Reconfigurable Computing. Energies, 2019, 12, 2086.	3.1	1
40	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
41	Quantified flexibility evaluation of soft open points to improve distributed generator penetration in active distribution networks based on difference-of-convex programming. Applied Energy, 2018, 218, 338-348.	10.1	58
42	A Projective Integration Method for Transient Stability Assessment of Power Systems With a High Penetration of Distributed Generation. IEEE Transactions on Smart Grid, 2018, 9, 386-395.	9.0	38
43	A Sequential Optimization Method for Soft Open Point Integrated with Energy Storage in Active Distribution Networks. Energy Procedia, 2018, 145, 528-533.	1.8	28
44	Modeling and optimal operation of community integrated energy systems: A case study from China. Applied Energy, 2018, 230, 1242-1254.	10.1	130
45	Extendable multirate real-time simulation of active distribution networks based on field programmable gate arrays. Applied Energy, 2018, 228, 2422-2436.	10.1	4
46	SOP-based islanding partition method of active distribution networks considering the characteristics of DG, energy storage system and load. Energy, 2018, 155, 312-325.	8.8	51
47	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
48	Fault Incidence Matrix Based Reliability Evaluation Method for Complex Distribution System. IEEE Transactions on Power Systems, 2018, 33, 6736-6745.	6.5	44
49	PMU-Based Estimation of Voltage-to-Power Sensitivity for Distribution Networks Considering the Sparsity of Jacobian Matrix. IEEE Access, 2018, 6, 31307-31316.	4.2	26
50	Kernel Solver Design of FPGA-Based Real-Time Simulator for Active Distribution Networks. IEEE Access, 2018, 6, 29146-29157.	4.2	12
51	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
52	Optimal siting and sizing of soft open points in active electrical distribution networks. Applied Energy, 2017, 189, 301-309.	10.1	142
53	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
54	Multiscale Simulation of Power System Transients Based on the Matrix Exponential Function. IEEE Transactions on Power Systems, 2017, 32, 1913-1926.	6.5	18

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55	Local voltage control strategy of active distribution network with PV reactive power optimization. , 2017, , .		18
56	A Strengthened SOCP-based Approach for Evaluating the Distributed Generation Hosting Capacity with Soft Open Points. Energy Procedia, 2017, 142, 1947-1952.	1.8	14
57	Synchronisation mechanism and interfaces design of multi‐FPGA‐based real‐time simulator for microgrids. IET Generation, Transmission and Distribution, 2017, 11, 3088-3096.	2.5	16
58	Robust operation strategy of soft open point for active distribution network with uncertainties. , 2017, , .		6
59	GPU based parallel matrix exponential algorithm for large scale power system electromagnetic transient simulation. , 2016, , .		2
60	A supply restoration method of distribution system based on Soft Open Point. , 2016, , .		24
61	A hybrid optimization algorithm for distribution network coordinated operation with SNOP based on simulated annealing and conic programming. , 2016, , .		4
62	Optimal Configuration of Soft Open Point for Active Distribution Network Based on Mixed-integer Second-order Cone Programming. Energy Procedia, 2016, 103, 70-75.	1.8	20
63	Research and application on operation and control technologies of smart distribution network. , 2016, , .		1
64	An interactive operation strategy for microgrid cooperated with distribution system based on demand response. , 2015, , .		1
65	A fast modeling method of distribution system reconfiguration based on mixed-integer second-order cone programming. , 2015, , .		5
66	A real-time transient simulator of grid-connected photovoltaic/battery system based on FPGA. , 2015, , .		2
67	EMTP-type program realization of Krylov subspace based model reduction methods for large-scale active distribution network. CSEE Journal of Power and Energy Systems, 2015, 1, 52-60.	1.1	8
68	Matrix exponential based algorithm for electromagnetic transient modeling and simulation of large-scale induction generator wind farms. , 2015, , .		1
69	Accurate dense output formula for exponential integrators using the scaling and squaring method. Applied Mathematics Letters, 2015, 43, 101-107.	2.7	8
70	Model order reduction for transient simulation of active distribution networks. IET Generation, Transmission and Distribution, 2015, 9, 457-467.	2.5	20
71	A design of grid-connected PV system for real-time transient simulation based on FPGA. , 2015, , .		4
72	Application of conic programming for optimal distributed generation allocation in distribution network. , 2014, , .		1

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73	Analysis on the impacts of distribution systems with large-scale grid-connected photovoltaic based on DIgSILENT. , 2014, , .		7
74	Research on the Structural Characteristics of Transmission Grid Based on Complex Network Theory. Journal of Applied Mathematics, 2014, 2014, 1-12.	0.9	10
75	A projective based dynamic simulation algorithm of active distribution networks. , 2014, , .		0
76	Matrix exponential based electromagnetic transients simulation algorithm with Krylov subspace approximation and accurate dense output. , 2014, , .		2
77	A fast optimization method for the distribution system with energy storage based on conic programming. , 2014, , .		0
78	EMTP-type realization of model reduction algorithms for transient simulation of distribution networks. , 2014, , .		2
79	An equivalent A-Stable dynamic simulation algorithm of active distribution networks based on the implicit projective method. , 2014, , .		0
80	Adaptive DAE solving algorithm for power system transient simulation via matrix exponential operator. , 2014, , .		0
81	Dynamic time-domain simulation and analysis of medium-low voltage microgrid. , 2013, , .		0
82	Krylov subspace based model reduction method for transient simulation of active distribution grid. , 2013, , .		3
83	State-space model generation of distribution networks for model order reduction application. , 2013, , .		1
84	Analysis of the impact of DG on distribution network reconfiguration using OpenDSS. , 2012, , .		15
85	The parallel algorithm of transient simulation for distributed generation powered micro-grid. , 2012, , .		1
86	Study on power system extended small signal stability region (DE-SSSR) in time delay space. , 2010, , .		7
87	Modeling and analysis of PEMFC in distributed generation system. , 2009, , .		0
88	A Voltage-Behind-Reactance Induction Machine Model for the EMTP-Type Solution. IEEE Transactions on Power Systems, 2008, 23, 1226-1238.	6.5	37