Junyong Liu

List of Publications by Year
in descending order

182 papers	1,955 citations	304743 22 h-index	302126 39 g-index
182 all docs	182 docs citations	182 times ranked	1680 citing authors

#	Article	IF	Citations
1	Decentralized Energy Management for Networked Microgrids in Future Distribution Systems. IEEE Transactions on Power Systems, 2018, 33, 3599-3610.	6.5	147
2	Robust Coordinated Optimization of Active and Reactive Power in Active Distribution Systems. IEEE Transactions on Smart Grid, 2018, 9, 4436-4447.	9.0	136
3	Robust Energy Management of Microgrid With Uncertain Renewable Generation and Load. IEEE Transactions on Smart Grid, 2015, , 1-1.	9.0	135
4	Flexible transmission expansion planning associated with large-scale wind farms integration considering demand response. IET Generation, Transmission and Distribution, 2015, 9, 2276-2283.	2.5	76
5	Distributed Voltage Control in Active Distribution Network Considering Renewable Energy: A Novel Network Partitioning Method. IEEE Transactions on Power Systems, 2020, 35, 4220-4231.	6.5	58
6	Review and prospect of active distribution system planning. Journal of Modern Power Systems and Clean Energy, 2015, 3, 457-467.	5.4	56
7	Incentive-based demand response model for maximizing benefits of electricity retailers. Journal of Modern Power Systems and Clean Energy, 2019, 7, 1644-1650.	5.4	54
8	Price Incentive-Based Charging Navigation Strategy for Electric Vehicles. IEEE Transactions on Industry Applications, 2020, 56, 5762-5774.	4.9	52
9	Optimal Active Distribution Network Planning: A Review. Electric Power Components and Systems, 2016, 44, 1075-1094.	1.8	51
10	Parallel Detrended Fluctuation Analysis for Fast Event Detection on Massive PMU Data. IEEE Transactions on Smart Grid, 2015, 6, 360-368.	9.0	43
11	Agent-Based Modeling for Scale Evolution of Plug-in Electric Vehicles and Charging Demand. IEEE Transactions on Power Systems, 2018, 33, 1915-1925.	6.5	43
12	Agent-Based Coordinated Operation Strategy for Active Distribution Network With Distributed Energy Resources. IEEE Transactions on Industry Applications, 2019, 55, 3310-3320.	4.9	43
13	Optimal Sizing of Energy Storage System in Active Distribution Networks Using Fourier–Legendre Series Based State of Energy Function. IEEE Transactions on Power Systems, 2018, 33, 2313-2315.	6.5	42
14	Operational Reliability Assessment for Gas-Electric Integrated Distribution Feeders. IEEE Transactions on Smart Grid, 2019, 10, 1091-1100.	9.0	42
15	Integrated Day-Ahead Scheduling Considering Active Management in Future Smart Distribution System. IEEE Transactions on Power Systems, 2018, 33, 6049-6061.	6.5	37
16	Online TTC Estimation Using Nonparametric Analytics Considering Wind Power Integration. IEEE Transactions on Power Systems, 2019, 34, 494-505.	6.5	37
17	Optimal Allocation Model for EV Charging Stations Coordinating Investor and User Benefits. IEEE Access, 2018, 6, 36039-36049.	4.2	35
18	A Bayesian Learning Based Scheme for Online Dynamic Security Assessment and Preventive Control. IEEE Transactions on Power Systems, 2020, 35, 4088-4099.	6.5	34

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19	Electric vehicles in smart grid: a survey on charging load modelling. IET Smart Grid, 2019, 2, 25-33.	2.2	32
20	Multi-Objective Distribution Network Expansion Incorporating Electric Vehicle Charging Stations. Energies, 2016, 9, 909.	3.1	27
21	Deep Belief Network Enabled Surrogate Modeling for Fast Preventive Control of Power System Transient Stability. IEEE Transactions on Industrial Informatics, 2022, 18, 315-326.	11.3	27
22	DDPG-Based Multi-Agent Framework for SVC Tuning in Urban Power Grid With Renewable Energy Resources. IEEE Transactions on Power Systems, 2021, 36, 5465-5475.	6.5	26
23	A Personalized Fast-Charging Navigation Strategy Based on Mutual Effect of Dynamic Queuing. IEEE Transactions on Industry Applications, 2020, 56, 5729-5740.	4.9	25
24	Big data analytics on PMU measurements. , 2014, , .		23
25	Probabilistic Stacked Denoising Autoencoder for Power System Transient Stability Prediction With Wind Farms. IEEE Transactions on Power Systems, 2021, 36, 3786-3789.	6.5	23
26	Prioritized Replay Dueling DDQN Based Grid-Edge Control of Community Energy Storage System. IEEE Transactions on Smart Grid, 2021, 12, 4950-4961.	9.0	23
27	Active energy management strategies for active distribution system. Journal of Modern Power Systems and Clean Energy, 2015, 3, 533-543.	5.4	21
28	Electrical Vehicle Charging Services Planning and Operation with Interdependent Power Networks and Transportation Networks: A Review of the Current Scenario and Future Trends. Energies, 2020, 13, 3371.	3.1	21
29	Optimal Prosumersâ€™ Peer-to-Peer Energy Trading and Scheduling in Distribution Networks. IEEE Transactions on Industry Applications, 2022, 58, 1466-1477.	4.9	20
30	Nonâ€parametric statisticsâ€based predictor enabling online transient stability assessment. IET Generation, Transmission and Distribution, 2018, 12, 5761-5769.	2.5	19
31	A Bi-Level Corrective Line Switching Model for Urban Power Grid Congestion Mitigation. IEEE Transactions on Power Systems, 2020, 35, 2959-2970.	6.5	18
32	Dataâ€driven distributionally robust joint planning of distributed energy resources in active distribution network. IET Generation, Transmission and Distribution, 2020, 14, 1653-1662.	2.5	18
33	Twoâ€stage optimal MPC for hybrid energy storage operation to enable smooth wind power integration. IET Renewable Power Generation, 2020, 14, 2477-2486.	3.1	18
34	Analytic Deep Learning-Based Surrogate Model for Operational Planning With Dynamic TTC Constraints. IEEE Transactions on Power Systems, 2021, 36, 3507-3519.	6.5	17
35	LSTM autoâ€encoder based representative scenario generation method for hybrid hydroâ€PV power system. IET Generation, Transmission and Distribution, 2020, 14, 5935-5943.	2.5	16
36	High-performance predictor for critical unstable generators based on scalable parallelized neural networks. Journal of Modern Power Systems and Clean Energy, 2016, 4, 414-426.	5.4	15

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37	Multi-stage sizing approach for development of utility-scale BESS considering dynamic growth of distributed photovoltaic connection. Journal of Modern Power Systems and Clean Energy, 2016, 4, 554-565.	5.4	15
38	Novel pair‐wise relative energy function for transient stability analysis and real‐time emergency control. IET Generation, Transmission and Distribution, 2017, 11, 4565-4575.	2.5	15
39	Reactive power operability of distributed energy resources for voltage stability of distribution networks. Journal of Modern Power Systems and Clean Energy, 2019, 7, 851-861.	5.4	15
40	Applying multiple types of demand response to optimal day‐ahead stochastic scheduling in the distribution network. IET Generation, Transmission and Distribution, 2020, 14, 4509-4519.	2.5	14
41	An Improved ADMM-Based Distributed Optimal Operation Model of AC/DC Hybrid Distribution Network Considering Wind Power Uncertainties. IEEE Systems Journal, 2021, 15, 2201-2211.	4.6	13
42	Resilience Assessment of Hydrogen-Integrated Energy System for Airport Electrification. IEEE Transactions on Industry Applications, 2022, 58, 2812-2824.	4.9	13
43	Time-Segmented Multi-Level Reconfiguration in Distribution Network: A Novel Cloud-Edge Collaboration Framework. IEEE Transactions on Smart Grid, 2022, 13, 3319-3322.	9.0	13
44	Integrated Planning of Cyber-Physical Active Distribution System Considering Multidimensional Uncertainties. IEEE Transactions on Smart Grid, 2022, 13, 3145-3159.	9.0	13
45	Wind power interval forecasting based on adaptive decomposition and probabilistic regularised extreme learning machine. IET Renewable Power Generation, 2020, 14, 3181-3191.	3.1	12
46	Electric vehicle charging station planning based on weighted Voronoi diagram. , 2011, , .		11
47	Power Grid Reliability Evaluation Considering Wind Farm Cyber Security and Ramping Events. Applied Sciences (Switzerland), 2019, 9, 3003.	2.5	10
48	Hybrid Deep Learning for Dynamic Total Transfer Capability Control. IEEE Transactions on Power Systems, 2021, 36, 2733-2736.	6.5	10
49	A MapReduce‐based parallel *K‐means* clustering for large‐scale CIM data verification. Concurrency Computation Practice and Experience, 2016, 28, 3096-3114.	2.2	9
50	A sliding window‐based dynamic load balancing for heterogeneous Hadoop clusters. Concurrency Computation Practice and Experience, 2017, 29, e3763.	2.2	9
51	Development of EV charging templates: an improved K‐prototypes method. IET Generation, Transmission and Distribution, 2018, 12, 4361-4367.	2.5	9
52	Ensemble Learning for Power Systems TTC Prediction With Wind Farms. IEEE Access, 2019, 7, 16572-16583.	4.2	9
53	Integrated traffic-power simulation framework for electric vehicle charging stations based on cellular automaton. Journal of Modern Power Systems and Clean Energy, 2018, 6, 816-820.	5.4	8
54	Distributionally Robust Optimal DG Allocation Model Considering Flexible Adjustment of Demand Response. , 2019, , .		8

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55	Operational Reliability Assessment of Distribution Network With Energy Storage Systems. IEEE Systems Journal, 2023, 17, 629-639.	4.6	8
56	Cloud computing based high-performance platform in enabling scalable services in power system. , 2016, , .		7
57	A MapReduce Based High Performance Neural Network in Enabling Fast Stability Assessment of Power Systems. Mathematical Problems in Engineering, 2017, 2017, 1-12.	1.1	7
58	Risk awareness enabled sizing approach for hybrid energy storage system in distribution network. IET Generation, Transmission and Distribution, 2019, 13, 3814-3822.	2.5	7
59	Determining deep peak-regulation reserve for power system with high-share of renewable energy based on virtual energy storage. , 2019, , .		7
60	Fog-Computing-Based Short-Circuit Diagnosis Scheme. IEEE Transactions on Smart Grid, 2020, 11, 3359-3371.	9.0	7
61	Investment decision optimization for distribution network planning with correlation constraint. International Transactions on Electrical Energy Systems, 2020, 30, e12323.	1.9	7
62	Mitigating Downward Reserve Deficiency of Power System via Coordinating EV Demand Response at Valley Period. IEEE Access, 2020, 8, 112368-112378.	4.2	7
63	Surrogateâ€assisted optimal reâ€dispatch control for riskâ€aware regulation of dynamic total transfer capability. IET Generation, Transmission and Distribution, 2021, 15, 1949-1961.	2.5	7
64	Planning of New Distribution Network Considering Green Power Certificate Trading and Carbon Emissions Trading. Energies, 2022, 15, 2435.	3.1	7
65	A new method of enhancing reliability for transmission expansion planning. Journal of Modern Power Systems and Clean Energy, 2014, 2, 341-349.	5.4	6
66	A Chance-constrained Optimization Model for Determining Renewables Penetration Limit in Power Systems. Electric Power Components and Systems, 2016, 44, 701-712.	1.8	6
67	A risk-evasion TOU pricing method for distribution utility in deregulated market environment. , 0, , .		5
68	Research on the electric power grid vulnerability under the directed-weighted topological model based on Complex Network Theory. , 2010, , .		5
69	Big Data Management in Digital Forensics. , 2014, , .		5
70	Investigation on Impacts of Alternative Generation Siting in Power Grids from the View of Complex Network Theory. Electric Power Components and Systems, 2016, 44, 820-831.	1.8	5
71	A coordinated charging strategy for electric vehicle considering three-phase load unbalance. , 2017, , .		5
72	Coordinating voltage regulation for an ACâ€"DC hybrid distribution network with multiple SSTs. Journal of Engineering, 2019, 2019, 1368-1372.	1.1	5

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73	A Hybrid Agent-based Model Predictive Control Scheme for Smart Community Energy System with Uncertain DGs and Loads. Journal of Modern Power Systems and Clean Energy, 2021, 9, 573-584.	5.4	5
74	CVaRâ€based generation expansion planning of cascaded hydroâ€photovoltaicâ€pumped storage system with uncertain solar power considering flexibility constraints. IET Generation, Transmission and Distribution, 2021, 15, 2953.	2.5	5
75	Urban energy internet: Concept and key technology. , 2016, , .		4
76	Gain scheduling based backstepping control for motion balance adjusting of a power-line inspection robot. , 2016, , .		4
77	Day-Ahead Scheduling of Combined Natural Gas and Electricity System with Mid-and Long-Term Electricity Contract Decomposition. , 2018, , .		4
78	An Improved Fuzzy Method for Characterizing Wind Power. Journal of Modern Power Systems and Clean Energy, 2021, 9, 459-462.	5.4	4
79	Multi-area Peer-to-Peer Energy Trading. , 2020, , .		4
80	Shortâ€circuit current constrained unit commitment and transmission switching model for improving renewable integration: An MILP formulation. IET Generation, Transmission and Distribution, 2022, 16, 1743-1755.	2.5	4
81	Learning-Aided Optimal Power Flow Based Fast Total Transfer Capability Calculation. Energies, 2022, 15, 1320.	3.1	4
82	A new method to compute reactive power margin. , 2008, , .		3
83	A new vulnerability evaluation model to electric power grid. , 2009, , .		3
84	A novel congestion management method in high-voltage distribution network based on logic constrains of functional units. , 2015, , .		3
85	An Explicit Formula Based Estimation Method for Distribution Network Reliability. IEEE Transactions on Power Delivery, 2020, 35, 2109-2112.	4.3	3
86	Deep-Q-Network-Based Intelligent Reschedule for Power System Operational Planning. , 2020, , .		3
87	Probabilistic Chronological Production Simulation-Based Coordinated Dispatching for Cascaded Hydro-PV-PSH Combined Power Generation System. Mathematical Problems in Engineering, 2020, 2020, 1-14.	1.1	3
88	The Application of Blockchain for the Management of Engineering Projects in Power System. , 2020, , .		3
89	Dynamic Dispatch Of Hybrid Hydro/PV/PHS Complementary Power Generation System Based On Deep Reinforcement Learning. , 2021, , .		3
90	Prosumerâ€centric energy storage system and high voltage distribution network topology Coâ€optimisation for urban grid congestion management. IET Smart Grid, 2022, 5, 297-307.	2.2	3

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91	Configure vulnerability assessment based on potential energy model. , 2009, , .		2
92	Notice of Retraction: Power System Reliability Assessment Considering the Effect of Freezing Weather. , 2010, , .		2
93	A GA based optimized PMU-location-decision algorithm considering WAMS reliability. , 2014, , .		2
94	Complexity analysis of power system energy flow. , 2014, , .		2
95	Network model of bilateral power markets based on complex networks. International Journal of Modern Physics B, 2014, 28, 1450144.	2.0	2
96	The power system risk assessment under rainfall weather and subsequent geological disasters. , 2016, , .		2
97	An Economic Criterion for Distributed Renewable Generation Planning. Electric Power Components and Systems, 2017, 45, 1298-1304.	1.8	2
98	Tight Mixed-Integer Linear Programming Formulation for Energy Storage Assets in NCUC Problem. , 2019, , .		2
99	Mobile Energy Storage Scheduling for AC-DC Microgrids Enabling Low-carbon Airport. , 2019, , .		2
100	Voltage Regulation Based on Deep Reinforcement Learning Algorithm in Distribution Network with Energy Storage System. , 2021, , .		2
101	Evaluating Connectable Capacity of Distributed Wind Generation in Distribution Networks Through a Bayesian Integrated Optimization Method. IEEE Systems Journal, 2022, 16, 2110-2120.	4.6	2
102	Energy Management for Coordinated Energy Hubs: From a Transaction Perspective. , 2020, , .		2
103	Agent-Based Optimal Cooperative Operation of Multi-energy System. , 2021, , .		2
104	Bi-level Collaborative Expansion Planning for Power Grid and Plants Considering Operational Flexibility. , 2020, , .		2
105	Robust Joint Planning of Electric Vehicle Charging Infrastructures and Distribution Networks. , 2022, , .		2
106	Knowledge Graph Construction Method for Power Grid Infrastructure. , 2022, , .		2
107	Risk evasion contract design for distribution utility based on incentives theory. , 0, , .		1
108	Line reconnection strategies considering dynamic processes during load restoration period. , 2009, , .		1

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109	Notice of Retraction: The Classification Method of Price Response Sensitivity Based on Time Delay. , 2010, , .		1
110	Notice of Retraction: A Matching Model of the Direct Power Transaction Based on the Bilateral Patterns. , 2010, , .		1
111	Hybrid simulation of generation and transmission planning in market environment. , 2011, , .		1
112	Analysis of sympathetic inrush using network analysis approach in initial period of power symtem restoration. , 2012, , .		1
113	Researches on Electric Vehicles Access in Demonstration District Considering Network Losses. , 2012, , .		1
114	A Research on Power System Adaptive Load Shedding Based on WAMS Assisted Prediction. , 2012, , .		1
115	Power system reliability evaluation considering substation interior under protection failure impact. , 2014, , .		1
116	Two-stage Control Strategy for Structure Optimization of Faulted Distribution System with Distributed Generation. Electric Power Components and Systems, 2014, 42, 595-604.	1.8	1
117	A lower sideband EMD and its application in power systems. , 2015, , .		1
118	AVC testing platform design and implementation for the regional power grid based on advanced digital power system simulator. , 2015, , .		1
119	Generation and transmission investment decision framework under the global energy Internet. , 2016, , .		1
120	Bi-level programming based optimal reactive power allocation for hierarchical voltage/var control in partitioned distribution network. , 2016, , .		1
121	A novel demand transition procedure for outage risk reduction in distribution networks. , 2017, , .		1
122	A Fast Screen and Shape Recognition Algorithm for Multiple Change-Point Detection. Mathematical Problems in Engineering, 2018, 2018, 1-10.	1.1	1
123	A Power Exchange Strategy for Multiple Areas with Hydro Power and Flexible Loads. Energies, 2019, 12, 1160.	3.1	1
124	Alleviating congestion of hybrid urban grid by VSCâ€control and ACâ€line switching. Journal of Engineering, 2019, 2019, 1763-1766.	1.1	1
125	Optimal Planning of AC/DC hybrid system with Renewable Generations: An Expansion Planning Modle. , 2019, , .		1
126	Approach to Identifying Behind-The-Meter Wind Power: A Case Study in Northern Ireland. , 2019, , .		1

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127	A regional protection scheme for dynamic distribution network with multiple branches and DG. , 2019, , .		1
128	Optimal Investment Planning of Distribution Network Considering Customersâ€™ Reliability Requirements. , 2019, , .		1
129	Coordinated Operation of Active Distribution Network Considering Customers' Reliability Requirements. , 2019, , .		1
130	Optimal Planning of Distribution Network Based on K-means Clustering. , 2020, , .		1
131	Development and Application of Planning Software for Cascaded Hydro-Photovoltaic-Pumped Storage Hybrid Power Stations. , 2020, , .		1
132	Joint Optimal Deep Peak Regulation of Renewable-rich Power System with Responsive Load Heating Storage Enabled CHP and Flexible Thermal Llants. , 2020, , .		1
133	Data-Driven Load Pattern Identification. , 2021, , .		1
134	A Bi-level transmission expansion planning model considering the electricity market. , 2021, , .		1
135	Blockchain Technology Based Digital Document Management System Design. , 2022, , .		1
136	Control strategies of load considering dynamic processes after blackout. , 2009, , .		0
137	Steady-state security assessment based on online learning k-nearest neighbor classifier. , 2009, , .		0
138	A game-based study of regional virtual electricity trade of small hydro-power. , 2009, , .		0
139	Ultra-Real time Short Circuit Current Computing Based on Ultra-Short term Load Forecasting. , 2010, , .		0
140	The research of hydro-thermal exchange based on virtual electricity trade. , 2011, , .		0
141	Improving of PAB Bidding Mechanism in Electricity Market Based on the Signal Transmission. , 2011, , .		0
142	A location method research of electricity emergency material storage. , 2011, , .		0
143	Modeling and Analysis of Stage Difference Coordination of Protective Devices in DC System. , 2012, , .		0
144	The research for distribution of reserve with large scale wind power connecting into system. , 2013, , .		0

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145	An extendable markup language based intelligent electrical consumption information verification and self-error-recovery system. , 2013, , .		0
146	A cloud computing framework for cascading failure simulation and analysis of large-scale transmission systems. , 2014, , .		0
147	A critical evaluation of the application of HVDC supplementary control for system stability improvement. , 2014, , .		0
148	Multi-agent based simulation architecture for distribution system regarding PEVs. , 2014, , .		0
149	Index system and methods for sub-transmission grid AVC assessment. , 2015, , .		0
150	A framework to evaluate the Power Application Software of the dispatching automatic system. , 2016, , .		0
151	Estimating TTC for wind farm integrated power systems based on nonparametric regression analytics. , 2016, , .		0
152	Short-term PV generation forecasting based on a multi-object AVC strategy assessment system based on modified radar chart method. , 2016, , .		0
153	Load transfer optimizer for high-voltage distribution network enabling high penetration of wind energy. , 2017, , .		0
154	Long-term charging demand modeling and analysis. , 2017, , .		0
155	Investment Decision for Distribution Network: A Correlation-Based Optimization Method. , 2018, , .		0
156	Correlation Mining for Reconstruction Measures and Performance Indexes of Distribution Network Planning Based on BP Neural Network. , 2018, , .		0
157	Optimal Energy Resource Allocation Model in Provincial Electricity Market. , 2019, , .		0
158	Tech-economic Evaluation of Typical Distribution Network Structures for Planning. , 2019, , .		0
159	Optimal Capacity Allocation and Investment Analysis of Energy Storage System Considering Multi-investors. , 2019, , .		0
160	Quality Evaluation Method for Coordination of Power Grid Development Considering Diversity of Generation-Demand Pattern. , 2019, , .		0
161	Elastic Operation of High Voltage Distribution Network for Urban Power Grid Robust Restoration Under Physical Attacks. , 2019, , .		0
162	Long-term Demand Forecasting in Sichuan Province in the Presence of Electricity Transaction. , 2019, , .		0

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163	Expansion Planning of Transmission Grid Considering Congestion Surplus. , 2019, , .		0
164	Investment Model and its Multi-year Rolling Deduction Based on a Data-driven Method for Distribution Network. , 2020, , .		0
165	Data Driven Surrogate Model Based Operation Quality Optimization Algorithm of Urban Transmission Network. , 2020, , .		0
166	Deep Learning Based TTC Predictor for Power Systems with Wind Energy Integration. , 2020, , .		0
167	Interactive Trading Model Among Multiple Market Participants Based on Hierarchical Game Frame in Distribution Network. , 2021, , .		0
168	Collaborative expansion planning for power grid and generators enabling flexibility enhancement. , 2021, , .		0
169	Research on Source-Load Coordination Improving the Flexibility of Power System with High Proportional Wind Power. , 2021, , .		0
170	Coordinated Energy Trading Model for Cooperative Microgrids Considering Uncertainties. , 2021, , .		0
171	A learning-assisted dynamic security enabled operational planning with transferable load. , 2021, , .		0
172	A Data-Driven Approach for Fast Reliability Calculation Under a Given Investment Strategy. , 2020, , .		0
173	Optimal Configuration for Power Electronic Transformer Ports Considering the Optimization of Transfer Paths. , 2020, , .		0
174	Distributed Optimal Operation of AC/DC Hybrid Distribution Network Considering Wind Power Uncertainty. , 2020, , .		0
175	Dynamic Bidding Strategy for Electricity Retailers Considering Multi-type Demand Response. , 2020, , .		0
176	Peak Regulation Market Design for End-users in the Presence of Load Aggregators. , 2020, , .		0
177	A Battery Experiment Design for Electrical Engineering Course Extension Education. , 2020, , .		0
178	Study on the Configuration of Clean Energy Substitution for APU in Green Airport. , 2020, , .		0
179	Decentralized P2P Energy Trading of Multiple Microgrids with Hydrogen Refueling Stations. , 2022, , .		0
180	2022 The 4th Asia Energy and Electrical Engineering Symposium A Novel Ensemble Learning Scheme for Online Transient Stability Assessment Considering Feature Interdependency. , 2022, , .		0

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181	Market-oriented transmission network expansion planning with consideration of wet and dry characteristics of hydropower. , 2022, , .		0
182	Optimized configuration of video surveillance layout for substation construction site for full coverage surveillance. , 2022, , .		0