Quan Zhou

List of Publications by Year
in descending order

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339 papers	24,101 citations	3933 88 h-index	9589 142 g-index
363 all docs	363 docs citations	363 times ranked	11058 citing authors

#	Article	IF	Citations
1	Security-Constrained Unit Commitment With Volatile Wind Power Generation. IEEE Transactions on Power Systems, 2008, 23, 1319-1327.	6.5	760
2	Stochastic Security-Constrained Unit Commitment. IEEE Transactions on Power Systems, 2007, 22, 800-811.	6.5	716
3	Combined Heat and Power Dispatch Considering Pipeline Energy Storage of District Heating Network. IEEE Transactions on Sustainable Energy, 2016, 7, 12-22.	8.8	534
4	Networked Microgrids for Enhancing the Power System Resilience. Proceedings of the IEEE, 2017, 105, 1289-1310.	21.3	422
5	Optimal Expansion Planning of Energy Hub With Multiple Energy Infrastructures. IEEE Transactions on Smart Grid, 2015, 6, 2302-2311.	9.0	413
6	Security-Constrained Unit Commitment With Natural Gas Transmission Constraints. IEEE Transactions on Power Systems, 2009, 24, 1523-1536.	6.5	355
7	Contingency-Constrained PMU Placement in Power Networks. IEEE Transactions on Power Systems, 2010, 25, 516-523.	6.5	343
8	Robust Co-Optimization Scheduling of Electricity and Natural Gas Systems via ADMM. IEEE Transactions on Sustainable Energy, 2017, 8, 658-670.	8.8	342
9	Hourly Coordination of Electric Vehicle Operation and Volatile Wind Power Generation in SCUC. IEEE Transactions on Smart Grid, 2012, 3, 1271-1279.	9.0	336
10	Hierarchical Coordination of a Community Microgrid With AC and DC Microgrids. IEEE Transactions on Smart Grid, 2015, 6, 3042-3051.	9.0	333
11	Optimal Demand Response Aggregation in Wholesale Electricity Markets. IEEE Transactions on Smart Grid, 2013, 4, 1957-1965.	9.0	330
12	DC Microgrids: Economic Operation and Enhancement of Resilience by Hierarchical Control. IEEE Transactions on Smart Grid, 2014, 5, 2517-2526.	9.0	308
13	Microgrid Planning Under Uncertainty. IEEE Transactions on Power Systems, 2015, 30, 2417-2425.	6.5	278
14	Comparison of Scenario-Based and Interval Optimization Approaches to Stochastic SCUC. IEEE Transactions on Power Systems, 2012, 27, 913-921.	6.5	271
15	Coordination of Interdependent Natural Gas and Electricity Infrastructures for Firming the Variability of Wind Energy in Stochastic Day-Ahead Scheduling. IEEE Transactions on Sustainable Energy, 2015, 6, 606-615.	8.8	271
16	Hourly Electricity Demand Response in the Stochastic Day-Ahead Scheduling of Coordinated Electricity and Natural Gas Networks. IEEE Transactions on Power Systems, 2016, 31, 592-601.	6.5	255
17	Market-Based Generation and Transmission Planning With Uncertainties. IEEE Transactions on Power Systems, 2009, 24, 1587-1598.	6.5	247
18	Integration of High Reliability Distribution System in Microgrid Operation. IEEE Transactions on Smart Grid, 2012, 3, 1997-2006.	9.0	246

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19	Microgrid Scheduling With Uncertainty: The Quest for Resilience. IEEE Transactions on Smart Grid, 2016, 7, 2849-2858.	9.0	236
20	Integrated Planning of Electricity and Natural Gas Transportation Systems for Enhancing the Power Grid Resilience. IEEE Transactions on Power Systems, 2017, 32, 4418-4429.	6.5	224
21	Microgrid-Based Co-Optimization of Generation and Transmission Planning in Power Systems. IEEE Transactions on Power Systems, 2013, 28, 1582-1590.	6.5	218
22	Synchrophasor Measurement Technology in Power Systems: Panorama and State-of-the-Art. IEEE Access, 2014, 2, 1607-1628.	4.2	216
23	Adaptive Protection System for Microgrids: Protection practices of a functional microgrid system. IEEE Electrification Magazine, 2014, 2, 66-80.	1.8	214
24	Optimal Interconnection Planning of Community Microgrids With Renewable Energy Sources. IEEE Transactions on Smart Grid, 2017, 8, 1054-1063.	9.0	214
25	SCUC With Hourly Demand Response Considering Intertemporal Load Characteristics. IEEE Transactions on Smart Grid, 2011, 2, 564-571.	9.0	211
26	An MILP-Based Optimal Power Flow in Multicarrier Energy Systems. IEEE Transactions on Sustainable Energy, 2017, 8, 239-248.	8.8	210
27	Optimal Stochastic Operation of Integrated Low-Carbon Electric Power, Natural Gas, and Heat Delivery System. IEEE Transactions on Sustainable Energy, 2018, 9, 273-283.	8.8	208
28	A Multi-Objective Framework for Transmission Expansion Planning in Deregulated Environments. IEEE Transactions on Power Systems, 2009, 24, 1051-1061.	6.5	195
29	A review of technologies and applications on versatile energy storage systems. Renewable and Sustainable Energy Reviews, 2021, 148, 111263.	16.4	192
30	Bilevel Model for Analyzing Coordinated Cyber-Physical Attacks on Power Systems. IEEE Transactions on Smart Grid, 2016, 7, 2260-2272.	9.0	185
31	Fuzzy-Logic Based Frequency Controller for Wind Farms Augmented With Energy Storage Systems. IEEE Transactions on Power Systems, 2016, 31, 1595-1603.	6.5	181
32	A Game Theoretic Approach to Risk-Based Optimal Bidding Strategies for Electric Vehicle Aggregators in Electricity Markets With Variable Wind Energy Resources. IEEE Transactions on Sustainable Energy, 2016, 7, 374-385.	8.8	172
33	Market-Based Coordination of Transmission and Generation Capacity Planning. IEEE Transactions on Power Systems, 2007, 22, 1406-1419.	6.5	171
34	Robust Constrained Operation of Integrated Electricity-Natural Gas System Considering Distributed Natural Gas Storage. IEEE Transactions on Sustainable Energy, 2018, 9, 1061-1071.	8.8	169
35	Front Lines Against the Darkness: Enhancing the Resilience of the Electricity Grid Through Microgrid Facilities. IEEE Electrification Magazine, 2016, 4, 18-24.	1.8	168
36	A Scenario-Based Multi-Objective Model for Multi-Stage Transmission Expansion Planning. IEEE Transactions on Power Systems, 2011, 26, 470-478.	6.5	167

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37	Enhancing the Dispatchability of Variable Wind Generation by Coordination With Pumped-Storage Hydro Units in Stochastic Power Systems. IEEE Transactions on Power Systems, 2013, 28, 2808-2818.	6.5	165
38	New Metrics for Assessing the Reliability and Economics of Microgrids in Distribution System. IEEE Transactions on Power Systems, 2013, 28, 2852-2861.	6.5	165
39	Optimal Traffic-Power Flow in Urban Electrified Transportation Networks. IEEE Transactions on Smart Grid, 2017, 8, 84-95.	9.0	158
40	Cost of Reliability Analysis Based on Stochastic Unit Commitment. IEEE Transactions on Power Systems, 2008, 23, 1364-1374.	6.5	155
41	Expansion Planning of Active Distribution Networks With Centralized and Distributed Energy Storage Systems. IEEE Transactions on Sustainable Energy, 2017, 8, 126-134.	8.8	153
42	Coordinated Planning Strategy for Electric Vehicle Charging Stations and Coupled Traffic-Electric Networks. IEEE Transactions on Power Systems, 2019, 34, 268-279.	6.5	152
43	Distributed Control and Communication Strategies in Networked Microgrids. IEEE Communications Surveys and Tutorials, 2020, 22, 2586-2633.	39.4	152
44	Accelerating the Global Adoption of Electric Vehicles: Barriers and Drivers. Electricity Journal, 2015, 28, 53-68.	2.5	151
45	Reliability-Based Optimal Planning of Electricity and Natural Gas Interconnections for Multiple Energy Hubs. IEEE Transactions on Smart Grid, 2017, 8, 1658-1667.	9.0	149
46	Event-Triggered Updating Method in Centralized and Distributed Secondary Controls for Islanded Microgrid Restoration. IEEE Transactions on Smart Grid, 2020, 11, 1387-1395.	9.0	148
47	Decentralized Optimization of Multi-Area Electricity-Natural Gas Flows Based on Cone Reformulation. IEEE Transactions on Power Systems, 2018, 33, 4531-4542.	6.5	147
48	Cybersecurity in Distributed Power Systems. Proceedings of the IEEE, 2017, 105, 1367-1388.	21.3	146
49	Electricity-Natural Gas Operation Planning With Hourly Demand Response for Deployment of Flexible Ramp. IEEE Transactions on Sustainable Energy, 2016, 7, 996-1004.	8.8	140
50	Multiperiod Distribution System Restoration With Routing Repair Crews, Mobile Electric Vehicles, and Soft-Open-Point Networked Microgrids. IEEE Transactions on Smart Grid, 2020, 11, 4795-4808.	9.0	136
51	A Hybrid Model for Day-Ahead Price Forecasting. IEEE Transactions on Power Systems, 2010, 25, 1519-1530.	6.5	135
52	Transmission Switching in Expansion Planning. IEEE Transactions on Power Systems, 2010, 25, 1722-1733.	6.5	134
53	Optimal Transactive Market Operations With Distribution System Operators. IEEE Transactions on Smart Grid, 2018, 9, 6692-6701.	9.0	134
54	Deep Reinforcement Learning for EV Charging Navigation by Coordinating Smart Grid and Intelligent Transportation System. IEEE Transactions on Smart Grid, 2020, 11, 1714-1723.	9.0	134

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55	Robust Two-Stage Regional-District Scheduling of Multi-carrier Energy Systems With a Large Penetration of Wind Power. IEEE Transactions on Sustainable Energy, 2019, 10, 1227-1239.	8.8	133
56	Coordinated Regional-District Operation of Integrated Energy Systems for Resilience Enhancement in Natural Disasters. IEEE Transactions on Smart Grid, 2019, 10, 4881-4892.	9.0	132
57	Fast SCUC for Large-Scale Power Systems. IEEE Transactions on Power Systems, 2007, 22, 2144-2151.	6.5	129
58	Distribution Network-Constrained Optimization of Peer-to-Peer Transactive Energy Trading Among Multi-Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 1033-1047.	9.0	127
59	Thermal Generation Flexibility With Ramping Costs and Hourly Demand Response in Stochastic Security-Constrained Scheduling of Variable Energy Sources. IEEE Transactions on Power Systems, 2015, 30, 2955-2964.	6.5	126
60	Robust Line Hardening Strategies for Improving the Resilience of Distribution Systems With Variable Renewable Resources. IEEE Transactions on Sustainable Energy, 2019, 10, 386-395.	8.8	126
61	Impact of WAMS Malfunction on Power System Reliability Assessment. IEEE Transactions on Smart Grid, 2012, 3, 1302-1309.	9.0	124
62	Flexible Voltage Control Strategy Considering Distributed Energy Storages for DC Distribution Network. IEEE Transactions on Smart Grid, 2019, 10, 163-172.	9.0	124
63	Decentralized Multiarea Robust Generation Unit and Tie-Line Scheduling Under Wind Power Uncertainty. IEEE Transactions on Sustainable Energy, 2015, 6, 1377-1388.	8.8	123
64	Microgrids for Enhancing the Power Grid Resilience in Extreme Conditions. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	122
65	Unit Commitment With Probabilistic Spinning Reserve and Interruptible Load Considerations. IEEE Transactions on Power Systems, 2009, 24, 388-397.	6.5	121
66	Direct Calculation of Line Outage Distribution Factors. IEEE Transactions on Power Systems, 2009, 24, 1633-1634.	6.5	120
67	Toward a Cyber Resilient and Secure Microgrid Using Software-Defined Networking. IEEE Transactions on Smart Grid, 2017, 8, 2494-2504.	9.0	119
68	Strategic Generation Capacity Expansion Planning With Incomplete Information. IEEE Transactions on Power Systems, 2009, 24, 1002-1010.	6.5	118
69	Small-Signal Modeling and Stability Analysis of Hybrid AC/DC Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 2080-2095.	9.0	118
70	Cutting Campus Energy Costs with Hierarchical Control: The Economical and Reliable Operation of a Microgrid. IEEE Electrification Magazine, 2013, 1, 40-56.	1.8	117
71	Enhanced Voltage Control of VSC-HVDC-Connected Offshore Wind Farms Based on Model Predictive Control. IEEE Transactions on Sustainable Energy, 2018, 9, 474-487.	8.8	117
72	Adaptive Formation of Microgrids With Mobile Emergency Resources for Critical Service Restoration in Extreme Conditions. IEEE Transactions on Power Systems, 2019, 34, 742-753.	6.5	117

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73	Security-Constrained Unit Commitment With Flexible Uncertainty Set for Variable Wind Power. IEEE Transactions on Sustainable Energy, 2017, 8, 1237-1246.	8.8	115
74	Reliability Modeling of PMUs Using Fuzzy Sets. IEEE Transactions on Power Delivery, 2010, 25, 2384-2391.	4.3	114
75	A Cyber-Attack Resilient Distributed Control Strategy in Islanded Microgrids. IEEE Transactions on Smart Grid, 2020, 11, 3690-3701.	9.0	111
76	Power System Dynamic State Estimation With Synchronized Phasor Measurements. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 352-363.	4.7	107
77	Decentralized Operation of Interdependent Power Distribution Network and District Heating Network: A Market-Driven Approach. IEEE Transactions on Smart Grid, 2019, 10, 5374-5385.	9.0	105
78	Power System Risk Assessment in Cyber Attacks Considering the Role of Protection Systems. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	103
79	Contingency-Constrained Reserve Requirements in Joint Energy and Ancillary Services Auction. IEEE Transactions on Power Systems, 2009, 24, 1457-1468.	6.5	101
80	Networked Microgrids: Exploring the Possibilities of the IIT-Bronzeville Grid. IEEE Power and Energy Magazine, 2017, 15, 63-71.	1.6	101
81	Hourly Demand Response in Day-Ahead Scheduling Considering Generating Unit Ramping Cost. IEEE Transactions on Power Systems, 2013, 28, 2446-2454.	6.5	100
82	ISO's Optimal Strategies for Scheduling the Hourly Demand Response in Day-Ahead Markets. IEEE Transactions on Power Systems, 2014, 29, 2636-2645.	6.5	98
83	Battery-Based Energy Storage Transportation for Enhancing Power System Economics and Security. IEEE Transactions on Smart Grid, 2015, 6, 2395-2402.	9.0	98
84	Co-optimization of electricity transmission and generation resources for planning and policy analysis: review of concepts and modeling approaches. Energy Systems, 2016, 7, 297-332.	3.0	95
85	Congestion-Driven Transmission Planning Considering the Impact of Generator Expansion. IEEE Transactions on Power Systems, 2008, 23, 781-789.	6.5	94
86	Stochastic Scheduling of Battery-Based Energy Storage Transportation System With the Penetration of Wind Power. IEEE Transactions on Sustainable Energy, 2017, 8, 135-144.	8.8	92
87	Hourly demand response in dayâ€ahead scheduling for managing the variability of renewable energy. IET Generation, Transmission and Distribution, 2013, 7, 226-234.	2.5	91
88	Security-Constrained Optimal Coordination of Generation and Transmission Maintenance Outage Scheduling. IEEE Transactions on Power Systems, 2007, 22, 1302-1313.	6.5	89
89	Coordination of Short-Term Operation Constraints in Multi-Area Expansion Planning. IEEE Transactions on Power Systems, 2012, 27, 2242-2250.	6.5	88
90	A Functional Microgrid for Enhancing Reliability, Sustainability, and Energy Efficiency. Electricity Journal, 2012, 25, 21-28.	2.5	88

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91	GENCO's Risk-Constrained Hydrothermal Scheduling. IEEE Transactions on Power Systems, 2008, 23, 1847-1858.	6.5	87
92	Robust coordination of interdependent electricity and natural gas systems in day-ahead scheduling for facilitating volatile renewable generations via power-to-gas technology. Journal of Modern Power Systems and Clean Energy, 2017, 5, 375-388.	5.4	87
93	Enhanced Coordinated Operations of Electric Power and Transportation Networks via EV Charging Services. IEEE Transactions on Smart Grid, 2020, 11, 3019-3030.	9.0	87
94	Power System Voltage Stability Evaluation Considering Renewable Energy With Correlated Variabilities. IEEE Transactions on Power Systems, 2018, 33, 3236-3245.	6.5	86
95	EV Charging Schedule in Coupled Constrained Networks of Transportation and Power System. IEEE Transactions on Smart Grid, 2019, 10, 4706-4716.	9.0	86
96	Comparative Hourly Scheduling of Centralized and Distributed Storage in Day-Ahead Markets. IEEE Transactions on Sustainable Energy, 2014, 5, 729-737.	8.8	82
97	Robust Short-Term Scheduling of Integrated Heat and Power Microgrids. IEEE Systems Journal, 2019, 13, 3295-3303.	4.6	82
98	Resilience-Promoting Proactive Scheduling Against Hurricanes in Multiple Energy Carrier Microgrids. IEEE Transactions on Power Systems, 2019, 34, 2160-2168.	6.5	81
99	Adaptive Robust Tie-Line Scheduling Considering Wind Power Uncertainty for Interconnected Power Systems. IEEE Transactions on Power Systems, 2016, 31, 2701-2713.	6.5	80
100	Optimal Planning of Loop-Based Microgrid Topology. IEEE Transactions on Smart Grid, 2017, 8, 1771-1781.	9.0	80
101	Combined Active and Reactive Power Control of Wind Farms Based on Model Predictive Control. IEEE Transactions on Energy Conversion, 2017, 32, 1177-1187.	5.2	80
102	Data-Driven Risk-Averse Two-Stage Optimal Stochastic Scheduling of Energy and Reserve With Correlated Wind Power. IEEE Transactions on Sustainable Energy, 2020, 11, 436-447.	8.8	80
103	Security-Constrained Generation and Transmission Outage Scheduling With Uncertainties. IEEE Transactions on Power Systems, 2010, 25, 1674-1685.	6.5	79
104	Risk-Constrained Coordination of Cascaded Hydro Units With Variable Wind Power Generation. IEEE Transactions on Sustainable Energy, 2012, 3, 359-368.	8.8	79
105	Integration of power-to-hydrogen in day-ahead security-constrained unit commitment with high wind penetration. Journal of Modern Power Systems and Clean Energy, 2017, 5, 337-349.	5.4	79
106	Microgrid Topology Planning for Enhancing the Reliability of Active Distribution Networks. IEEE Transactions on Smart Grid, 2018, 9, 6369-6377.	9.0	78
107	GENCO's Risk-Based Maintenance Outage Scheduling. IEEE Transactions on Power Systems, 2008, 23, 127-136.	6.5	77
108	Component and Mode Models for the Short-Term Scheduling of Combined-Cycle Units. IEEE Transactions on Power Systems, 2009, 24, 976-990.	6.5	77

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109	Security-Constrained Unit Commitment With AC/DC Transmission Systems. IEEE Transactions on Power Systems, 2010, 25, 531-542.	6.5	77
110	Minimax-Regret Robust Co-Optimization for Enhancing the Resilience of Integrated Power Distribution and Natural Gas Systems. IEEE Transactions on Sustainable Energy, 2020, 11, 61-71.	8.8	75
111	Market-Based Versus Price-Based Microgrid Optimal Scheduling. IEEE Transactions on Smart Grid, 2018, 9, 615-623.	9.0	74
112	Accelerating the Benders decomposition forÂnetwork-constrained unit commitment problems. Energy Systems, 2010, 1, 339-376.	3.0	73
113	Modeling Transmission Line Constraints in Two-Stage Robust Unit Commitment Problem. IEEE Transactions on Power Systems, 2014, 29, 1221-1231.	6.5	73
114	Multi-Stage Planning of Active Distribution Networks Considering the Co-Optimization of Operation Strategies. IEEE Transactions on Smart Grid, 2018, 9, 1425-1433.	9.0	73
115	Distributionally Robust Unit Commitment in Coordinated Electricity and District Heating Networks. IEEE Transactions on Power Systems, 2020, 35, 2155-2166.	6.5	73
116	Analyzing Locally Coordinated Cyber-Physical Attacks for Undetectable Line Outages. IEEE Transactions on Smart Grid, 2018, 9, 35-47.	9.0	71
117	Resilience Enhancement Strategies for Power Distribution Network Coupled With Urban Transportation System. IEEE Transactions on Smart Grid, 2019, 10, 4068-4079.	9.0	70
118	Optimal Planning of Islanded Integrated Energy System With Solar-Biogas Energy Supply. IEEE Transactions on Sustainable Energy, 2020, 11, 2437-2448.	8.8	70
119	Coalitional Game-Based Transactive Energy Management in Local Energy Communities. IEEE Transactions on Power Systems, 2020, 35, 1729-1740.	6.5	70
120	Optimal Consensus-Based Distributed Control Strategy for Coordinated Operation of Networked Microgrids. IEEE Transactions on Power Systems, 2020, 35, 2452-2462.	6.5	69
121	Decentralized Short-Term Voltage Control in Active Power Distribution Systems. IEEE Transactions on Smart Grid, 2018, 9, 4566-4576.	9.0	68
122	Reconfigurable Distribution Network for Managing Transactive Energy in a Multi-Microgrid System. IEEE Transactions on Smart Grid, 2020, 11, 1286-1295.	9.0	67
123	Optimizing Traffic Signal Settings in Smart Cities. IEEE Transactions on Smart Grid, 2017, 8, 2382-2393.	9.0	66
124	Partial Decomposition for Distributed Electric Vehicle Charging Control Considering Electric Power Grid Congestion. IEEE Transactions on Smart Grid, 2017, 8, 75-83.	9.0	64
125	Coordinated Planning of Transportation and Electric Power Networks With the Proliferation of Electric Vehicles. IEEE Transactions on Smart Grid, 2020, 11, 4005-4016.	9.0	63
126	Two-Stage Load Shedding for Secondary Control in Hierarchical Operation of Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 3103-3111.	9.0	61

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127	Fatigue Load Sensitivity-Based Optimal Active Power Dispatch For Wind Farms. IEEE Transactions on Sustainable Energy, 2017, 8, 1247-1259.	8.8	60
128	Grid Secondary Frequency Control by Optimized Fuzzy Control of Electric Vehicles. IEEE Transactions on Smart Grid, 2018, 9, 5613-5621.	9.0	60
129	Optimal Stochastic Operation of Integrated Electric Power and Renewable Energy With Vehicle-Based Hydrogen Energy System. IEEE Transactions on Power Systems, 2021, 36, 4310-4321.	6.5	60
130	Microgrid Risk Analysis Considering the Impact of Cyber Attacks on Solar PV and ESS Control Systems. IEEE Transactions on Smart Grid, 2017, 8, 1330-1339.	9.0	59
131	Hierarchical Scheduling of Aggregated TCL Flexibility for Transactive Energy in Power Systems. IEEE Transactions on Smart Grid, 2020, 11, 2452-2463.	9.0	59
132	Flexible Division and Unification Control Strategies for Resilience Enhancement in Networked Microgrids. IEEE Transactions on Power Systems, 2020, 35, 474-486.	6.5	58
133	A New Method for Spatial Power Network Planning in Complicated Environments. IEEE Transactions on Power Systems, 2012, 27, 381-389.	6.5	56
134	Stochastic Price-Based Coordination of Intrahour Wind Energy and Storage in a Generation Company. IEEE Transactions on Sustainable Energy, 2013, 4, 554-562.	8.8	56
135	Smart cities for a sustainable urbanization: Illuminating the need for establishing smart urban infrastructures. IEEE Electrification Magazine, 2018, 6, 16-33.	1.8	55
136	Cyber-secure decentralized energy management for IoT-enabled active distribution networks. Journal of Modern Power Systems and Clean Energy, 2018, 6, 900-917.	5.4	55
137	Enhancing the Transmission Grid Resilience in Ice Storms by Optimal Coordination of Power System Schedule With Pre-Positioning and Routing of Mobile DC De-Icing Devices. IEEE Transactions on Power Systems, 2019, 34, 2663-2674.	6.5	54
138	Distributed Robust Model Predictive Control-Based Energy Management Strategy for Islanded Multi-Microgrids Considering Uncertainty. IEEE Transactions on Smart Grid, 2022, 13, 2107-2120.	9.0	54
139	Coordination of Midterm Outage Scheduling With Short-Term Security-Constrained Unit Commitment. IEEE Transactions on Power Systems, 2009, 24, 1818-1830.	6.5	53
140	Two-Layer Control Scheme for Maintaining the Frequency and the Optimal Economic Operation of Hybrid AC/DC Microgrids. IEEE Transactions on Power Systems, 2019, 34, 64-75.	6.5	52
141	Distributionally Robust Co-Optimization of Energy and Reserve for Combined Distribution Networks of Power and District Heating. IEEE Transactions on Power Systems, 2020, 35, 2388-2398.	6.5	52
142	A Hybrid ac/dc Nanogrid: The Keating Hall Installation at the Illinois Institute of Technology. IEEE Electrification Magazine, 2017, 5, 36-46.	1.8	51
143	State Space Modeling and Control of Aggregated TCLs for Regulation Services in Power Grids. IEEE Transactions on Smart Grid, 2019, 10, 4095-4106.	9.0	51
144	Smart Deregulated Grid Frequency Control in Presence of Renewable Energy Resources by EVs Charging Control. IEEE Transactions on Smart Grid, 2018, 9, 1073-1085.	9.0	50

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145	An Overview of Non-Intrusive Load Monitoring: Approaches, Business Applications, and Challenges. , 2018, , .		50
146	Stochastic Midterm Coordination of Hydro and Natural Gas Flexibilities for Wind Energy Integration. IEEE Transactions on Sustainable Energy, 2014, 5, 1070-1079.	8.8	48
147	Decentralized Privacy-Preserving Operation of Multi-Area Integrated Electricity and Natural Gas Systems With Renewable Energy Resources. IEEE Transactions on Sustainable Energy, 2020, 11, 1785-1796.	8.8	48
148	Decentralized Contingency-Constrained Tie-Line Scheduling for Multi-Area Power Grids. IEEE Transactions on Power Systems, 2017, 32, 354-367.	6.5	47
149	Voltage Stability Analysis and Sliding-Mode Control Method for Rectifier in DC Systems With Constant Power Loads. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 1621-1630.	5.4	47
150	Multi-Stage Distributionally Robust Stochastic Dual Dynamic Programming to Multi-Period Economic Dispatch With Virtual Energy Storage. IEEE Transactions on Sustainable Energy, 2022, 13, 146-158.	8.8	47
151	Security-Constrained Resource Planning in Electricity Markets. IEEE Transactions on Power Systems, 2007, 22, 812-820.	6.5	46
152	Stochastic SCUC Solution With Variable Wind Energy Using Constrained Ordinal Optimization. IEEE Transactions on Sustainable Energy, 2014, 5, 379-388.	8.8	45
153	Protection Scheme for Loop-Based Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 1340-1349.	9.0	45
154	Decentralized AC Optimal Power Flow for Integrated Transmission and Distribution Grids. IEEE Transactions on Smart Grid, 2020, 11, 2531-2540.	9.0	45
155	Distributionally Robust Resilient Operation of Integrated Energy Systems Using Moment and Wasserstein Metric for Contingencies. IEEE Transactions on Power Systems, 2021, 36, 3574-3584.	6.5	45
156	Impact of Natural Gas System on Risk-Constrained Midterm Hydrothermal Scheduling. IEEE Transactions on Power Systems, 2011, 26, 520-531.	6.5	44
157	Distributed Secondary Control for Islanded Microgrids With Mobile Emergency Resources. IEEE Transactions on Power Systems, 2020, 35, 1389-1399.	6.5	44
158	A Lagrangian Decomposition Approach to Energy Storage Transportation Scheduling in Power Systems. IEEE Transactions on Power Systems, 2016, 31, 4348-4356.	6.5	42
159	A hybrid model for integrated dayâ€ahead electricity price and load forecasting in smart grid. IET Generation, Transmission and Distribution, 2014, 8, 1937-1950.	2.5	41
160	Effective Load Carrying Capability Evaluation of Renewable Energy via Stochastic Long-Term Hourly Based SCUC. IEEE Transactions on Sustainable Energy, 2015, 6, 188-197.	8.8	41
161	Reliability Modeling and Assessment of Cyber Space in Cyber-Physical Power Systems. IEEE Transactions on Smart Grid, 2020, 11, 3763-3773.	9.0	41
162	Convex Optimization of Integrated Power-Gas Energy Flow Model With Applications to Probabilistic Energy Flow. IEEE Transactions on Power Systems, 2021, 36, 1432-1441.	6.5	41

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163	A Poverty Severity Index-Based Protection Strategy for Ring-Bus Low-Voltage DC Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 6860-6869.	9.0	39
164	A Cyber-Physical Energy Management System for Optimal Sizing and Operation of Networked Nanogrids With Battery Swapping Stations. IEEE Transactions on Sustainable Energy, 2019, 10, 491-502.	8.8	39
165	Minimax-Regret Robust Defensive Strategy Against False Data Injection Attacks. IEEE Transactions on Smart Grid, 2019, 10, 2068-2079.	9.0	39
166	Multi-Time-Scale Modeling and Parameter Estimation of TCLs for Smoothing Out Wind Power Generation Variability. IEEE Transactions on Sustainable Energy, 2019, 10, 105-118.	8.8	39
167	Assessing and mitigating cybersecurity risks of traffic light systems in smart cities. IET Cyber-Physical Systems: Theory and Applications, 2016, 1, 60-69.	3.3	38
168	A review of machine learning applications in IoT-integrated modern power systems. Electricity Journal, 2021, 34, 106879.	2.5	38
169	Compartmentalization Strategy for the Optimal Economic Operation of a Hybrid AC/DC Microgrid. IEEE Transactions on Power Systems, 2020, 35, 1294-1304.	6.5	37
170	Security-Constrained Unit Commitment With Natural Gas Pipeline Transient Constraints. IEEE Transactions on Smart Grid, 2020, 11, 118-128.	9.0	36
171	Privacy-Preserving Collaborative Operation of Networked Microgrids With the Local Utility Grid Based on Enhanced Benders Decomposition. IEEE Transactions on Smart Grid, 2020, 11, 2638-2651.	9.0	36
172	Observer-Based Resilient Integrated Distributed Control Against Cyberattacks on Sensors and Actuators in Islanded AC Microgrids. IEEE Transactions on Smart Grid, 2021, 12, 1953-1963.	9.0	36
173	Review of Optimization Methods for Energy Hub Planning, Operation, Trading, and Control. IEEE Transactions on Sustainable Energy, 2022, 13, 1802-1818.	8.8	36
174	Singular Perturbation for the Dynamic Modeling of Integrated Energy Systems. IEEE Transactions on Power Systems, 2020, 35, 1718-1728.	6.5	35
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