

Goran Strbac

List of Publications by Year in descending order

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247
papers

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6539
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#	ARTICLE	IF	CITATIONS
1	Multi-Agent Deep Reinforcement Learning for Coordinated Energy Trading and Flexibility Services Provision in Local Electricity Markets. IEEE Transactions on Smart Grid, 2023, 14, 1541-1554.	9.0	21
2	Coordination for Multienergy Microgrids Using Multiagent Reinforcement Learning. IEEE Transactions on Industrial Informatics, 2023, 19, 5689-5700.	11.3	8
3	Transition to Digitalized Paradigms for Security Control and Decentralized Electricity Market. Proceedings of the IEEE, 2023, 111, 744-761.	21.3	5
4	Coordinated Electric Vehicle Active and Reactive Power Control for Active Distribution Networks. IEEE Transactions on Industrial Informatics, 2023, 19, 1611-1622.	11.3	17
5	Co-Optimizing Substation Hardening and Transmission Expansion Against Earthquakes: A Decision-Dependent Probability Approach. IEEE Transactions on Power Systems, 2023, 38, 2058-2070.	6.5	4
6	An Efficient LP-Based Approach for Spatial-Temporal Coordination of Electric Vehicles in Electricity-Transportation Nexus. IEEE Transactions on Power Systems, 2023, 38, 2914-2925.	6.5	8
7	Machine-learned security assessment for changing system topologies. International Journal of Electrical Power and Energy Systems, 2022, 134, 107380.	5.5	8
8	Probabilistic Scheduling of UFLS to Secure Credible Contingencies in Low Inertia Systems. IEEE Transactions on Power Systems, 2022, 37, 2693-2703.	6.5	10
9	Resilience-driven optimal sizing and pre-positioning of mobile energy storage systems in decentralized networked microgrids. Applied Energy, 2022, 305, 117921.	10.1	51
10	A Novel Preheating Coordination Approach in Electrified Heat Systems. IEEE Transactions on Power Systems, 2022, 37, 3092-3103.	6.5	2
11	Value of Interconnectors Operating in Simultaneous Energy-Frequency Response Markets. IEEE Transactions on Power Systems, 2022, 37, 3381-3393.	6.5	4
12	Optimal Offering of a Power Producer in Electricity Markets With Profile and Linked Block Orders. IEEE Transactions on Power Systems, 2022, 37, 2704-2719.	6.5	4
13	Resilience Oriented Planning of Urban Multi-Energy Systems With Generalized Energy Storage Sources. IEEE Transactions on Power Systems, 2022, 37, 2906-2918.	6.5	44
14	Consumer-centric decarbonization framework using Stackelberg game and Blockchain. Applied Energy, 2022, 309, 118384.	10.1	14
15	Safe reinforcement learning for real-time automatic control in a smart energy-hub. Applied Energy, 2022, 309, 118403.	10.1	38
16	Heterogeneous network flow and Petri nets characterize multilayer complex networks. Scientific Reports, 2022, 12, 3513.	3.3	0
17	Impact of Local Emergency Demand Response Programs on the Operation of Electricity and Gas Systems. Energies, 2022, 15, 2144.	3.1	3
18	Thermo-economic assessment of flexible nuclear power plants in future low-carbon electricity systems: Role of thermal energy storage. Energy Conversion and Management, 2022, 258, 115484.	9.2	32

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19	Values of latent heat and thermochemical energy storage technologies in low-carbon energy systems: Whole system approach. <i>Journal of Energy Storage</i> , 2022, 50, 104126.	8.1	5
20	Verifying Machine Learning conclusions for securing Low Inertia systems. <i>Sustainable Energy, Grids and Networks</i> , 2022, 30, 100656.	3.9	3
21	A novel deep-learning based surrogate modeling of stochastic electric vehicle traffic user equilibrium in low-carbon electricity-transportation nexus. <i>Applied Energy</i> , 2022, 315, 118961.	10.1	12
22	A Backwards Induction Framework for Quantifying the Option Value of Smart Charging of Electric Vehicles and the Risk of Stranded Assets under Uncertainty. <i>Energies</i> , 2022, 15, 3334.	3.1	11
23	Value of optimal trip and charging scheduling of commercial electric vehicle fleets with Vehicle-to-Grid in future low inertia systems. <i>Sustainable Energy, Grids and Networks</i> , 2022, 31, 100738.	3.9	9
24	Multi-model assessment of heat decarbonisation options in the UK using electricity and hydrogen. <i>Renewable Energy</i> , 2022, 194, 1261-1276.	8.9	14
25	Computationally Efficient Pricing and Benefit Distribution Mechanisms for Incentivizing Stable Peer-to-Peer Energy Trading. <i>IEEE Internet of Things Journal</i> , 2021, 8, 734-749.	8.7	41
26	Distributed Consensus-Based Coordination of Flexible Demand and Energy Storage Resources. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 3053-3069.	6.5	11
27	Co-optimization of resilient gas and electricity networks; a novel possibilistic chance-constrained programming approach. <i>Applied Energy</i> , 2021, 284, 116284.	10.1	26
28	Low-Complexity Decentralized Algorithm for Aggregate Load Control of Thermostatic Loads. <i>IEEE Transactions on Industry Applications</i> , 2021, 57, 987-998.	4.9	9
29	Provision of Voltage Ancillary Services Through Enhanced TSO-DSO Interaction and Aggregated Distributed Energy Resources. <i>IEEE Transactions on Sustainable Energy</i> , 2021, 12, 897-908.	8.8	23
30	A Scalable Privacy-Preserving Multi-Agent Deep Reinforcement Learning Approach for Large-Scale Peer-to-Peer Transactive Energy Trading. <i>IEEE Transactions on Smart Grid</i> , 2021, 12, 5185-5200.	9.0	58
31	Reliability and resiliency assessment in integrated gas and electricity systems in the presence of energy storage systems. , 2021, , 369-397.		3
32	Decarbonization of Electricity Systems in Europe: Market Design Challenges. <i>IEEE Power and Energy Magazine</i> , 2021, 19, 53-63.	1.6	47
33	Conditions for Regional Frequency Stability in Power System Scheduling-Part I: Theory. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 5558-5566.	6.5	31
34	A Three-Level Planning Model for Optimal Sizing of Networked Microgrids Considering a Trade-Off Between Resilience and Cost. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 5657-5669.	6.5	35
35	Conditions for Regional Frequency Stability in Power System Scheduling-Part II: Application to Unit Commitment. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 5567-5577.	6.5	18
36	Ancillary services in Great Britain during the COVID-19 lockdown: A glimpse of the carbon-free future. <i>Applied Energy</i> , 2021, 285, 116500.	10.1	23

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37	A machine-learning based probabilistic perspective on dynamic security assessment. International Journal of Electrical Power and Energy Systems, 2021, 128, 106571.	5.5	23
38	Importance of Linking Inertia and Frequency Response Procurement: The Great Britain Case. , 2021, , .		3
39	Scalable coordinated management of peer-to-peer energy trading: A multi-cluster deep reinforcement learning approach. Applied Energy, 2021, 292, 116940.	10.1	70
40	A Confidence-Aware Machine Learning Framework for Dynamic Security Assessment. IEEE Transactions on Power Systems, 2021, 36, 3907-3920.	6.5	22
41	Reliability and Vulnerability Assessment of Multi-Energy Systems: An Energy Hub Based Method. IEEE Transactions on Power Systems, 2021, 36, 3948-3959.	6.5	43
42	An iterative algorithm for regret minimization in flexible demand scheduling problems. Advanced Control for Applications, 2021, 3, e92.	1.7	1
43	Challenges and opportunities of inertia estimation and forecasting in low-inertia power systems. Renewable and Sustainable Energy Reviews, 2021, 147, 111176.	16.4	46
44	Selecting decision trees for power system security assessment. Energy and AI, 2021, 6, 100110.	10.6	9
45	Evaluation of benefits through coordinated control of numerous thermal energy storage in highly electrified heat systems. Energy, 2021, 237, 121600.	8.8	9
46	A causality based feature selection approach for data-driven dynamic security assessment. Electric Power Systems Research, 2021, 201, 107537.	3.6	14
47	Cost and low-carbon competitiveness of electrolytic hydrogen in China. Energy and Environmental Science, 2021, 14, 4868-4881.	30.8	34
48	Real-Time Autonomous Residential Demand Response Management Based on Twin Delayed Deep Deterministic Policy Gradient Learning. Energies, 2021, 14, 531.	3.1	30
49	Long-Term Expansion Planning of the Transmission Network in India under Multi-Dimensional Uncertainty. Energies, 2021, 14, 7813.	3.1	13
50	Local distribution network management through optimal flexibility scheduling: the Austrian pilot of the Horizon 2020 MERLON project. , 2021, , .		0
51	Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. IEEE Transactions on Power Systems, 2020, 35, 188-201.	6.5	144
52	Incorporating Non-Convex Operating Characteristics Into Bi-Level Optimization Electricity Market Models. IEEE Transactions on Power Systems, 2020, 35, 163-176.	6.5	30
53	A Planning Model for a Hybrid AC-DC Microgrid Using a Novel GA/AC OPF Algorithm. IEEE Transactions on Power Systems, 2020, 35, 227-237.	6.5	57
54	Deep Reinforcement Learning for Strategic Bidding in Electricity Markets. IEEE Transactions on Smart Grid, 2020, 11, 1343-1355.	9.0	149

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55	Fast Frequency Response From Smart Induction Motor Variable Speed Drives. IEEE Transactions on Power Systems, 2020, 35, 997-1008.	6.5	23
56	Secure Operation of Integrated Natural Gas and Electricity Transmission Networks. Energies, 2020, 13, 4954.	3.1	3
57	On microgrids and resilience: A comprehensive review on modeling and operational strategies. Renewable and Sustainable Energy Reviews, 2020, 134, 110313.	16.4	116
58	Modelling of national and local interactions between heat and electricity networks in low-carbon energy systems. Applied Energy, 2020, 276, 115522.	10.1	30
59	Resilience-Driven Modeling, Operation and Assessment for a Hybrid AC/DC Microgrid. IEEE Access, 2020, 8, 139756-139770.	4.2	13
60	Investing in flexibility in an integrated planning of natural gas and power systems. IET Energy Systems Integration, 2020, 2, 101-111.	1.8	20
61	Stabilizing peer-to-peer energy trading in prosumer coalition through computational efficient pricing. Electric Power Systems Research, 2020, 189, 106764.	3.6	14
62	Stochastic optimization model for coordinated operation of natural gas and electricity networks. Computers and Chemical Engineering, 2020, 142, 107060.	3.8	27
63	A Deep Reinforcement Learning Method for Pricing Electric Vehicles With Discrete Charging Levels. IEEE Transactions on Industry Applications, 2020, 56, 5901-5912.	4.9	58
64	Distributed Control of Clustered Populations of Thermostatic Loads in Multi-Area Systems: A Mean Field Game Approach. Energies, 2020, 13, 6483.	3.1	2
65	Integration of Hydrogen into Multi-Energy Systems Optimisation. Energies, 2020, 13, 1606.	3.1	23
66	Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. IEEE Transactions on Smart Grid, 2020, 11, 4938-4948.	9.0	4
67	Optimal Portfolio of Distinct Frequency Response Services in Low-Inertia Systems. IEEE Transactions on Power Systems, 2020, 35, 4459-4469.	6.5	40
68	Quantification and visualisation of extreme wind effects on transmission network outage probability and wind generation output. IET Smart Grid, 2020, 3, 112-122.	2.2	10
69	Coordinated Operation of Gas and Electricity Systems for Flexibility Study. Frontiers in Energy Research, 2020, 8, .	2.3	20
70	Model-Free Real-Time Autonomous Control for a Residential Multi-Energy System Using Deep Reinforcement Learning. IEEE Transactions on Smart Grid, 2020, 11, 3068-3082.	9.0	112
71	Quantification of the Energy Storage Contribution to Security of Supply through the F-Factor Methodology. Energies, 2020, 13, 826.	3.1	6
72	Investigating the impact of flexible demand on market-based generation investment planning. International Journal of Electrical Power and Energy Systems, 2020, 119, 105881.	5.5	8

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73	Investigating the effects of demand flexibility on electricity retailers' business through a tri-level optimisation model. IET Generation, Transmission and Distribution, 2020, 14, 1739-1750.	2.5	14
74	Role and value of flexibility in facilitating cost-effective energy system decarbonisation. Progress in Energy, 2020, 2, 042001.	10.9	35
75	Deep Reinforcement Learning for Strategic Bidding in Electricity Markets. , 2020, , .		0
76	Incorporating Non-Convex Operating Characteristics into Bi-Level Optimization Electricity Market Models. , 2020, , .		0
77	Value of Fleet Vehicle to Grid in Providing Transmission System Operator Services. , 2020, , .		3
78	Integration of power-to-gas and low-carbon road transport in Great Britain's future energy system. IET Renewable Power Generation, 2020, 14, 3393-3400.	3.1	4
79	Using Vine Copulas to Generate Representative System States for Machine Learning. IEEE Transactions on Power Systems, 2019, 34, 225-235.	6.5	31
80	Data-Driven Power System Operation: Exploring the Balance Between Cost and Risk. IEEE Transactions on Power Systems, 2019, 34, 791-801.	6.5	37
81	Transmission Network Investment With Distributed Energy Resources and Distributionally Robust Security. IEEE Transactions on Power Systems, 2019, 34, 5157-5168.	6.5	30
82	Simultaneous Scheduling of Multiple Frequency Services in Stochastic Unit Commitment. IEEE Transactions on Power Systems, 2019, 34, 3858-3868.	6.5	111
83	Distributed Coordination of Flexible Loads Using Locational Marginal Prices. IEEE Transactions on Control of Network Systems, 2019, 6, 1097-1110.	3.7	6
84	Evaluating grid-interactive electric bus operation and demand response with load management tariff. Applied Energy, 2019, 255, 113798.	10.1	28
85	A game-theoretic approach for price-based coordination of flexible devices operating in integrated energy-reserve markets. Energy, 2019, 189, 116153.	8.8	9
86	Low-complexity control algorithm for decentralised demand response using thermostatic loads. , 2019, , .		1
87	Operational Optimization of a Microgrid with Differential Algebraic Constraints. , 2019, , .		1
88	Value of Thermostatic Loads in Energy Frequency Response Markets: a Mean Field Game Approach. , 2019, , .		2
89	Evaluating Strategies for Decarbonising the Transport Sector in Great Britain. , 2019, , .		4
90	Multi-Period and Multi-Spatial Equilibrium Analysis in Imperfect Electricity Markets: A Novel Multi-Agent Deep Reinforcement Learning Approach. IEEE Access, 2019, 7, 130515-130529.	4.2	53

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91	Utilization of an Urban AC Microgrid for Improving Voltages Across a Distribution System. , 2019, , .		0
92	A Mean Field Game Approach for Distributed Control of Thermostatic Loads Acting in Simultaneous Energy-Frequency Response Markets. IEEE Transactions on Smart Grid, 2019, 10, 5987-5999.	9.0	43
93	Investigating the impacts of price-taking and price-making energy storage in electricity markets through an equilibrium programming model. IET Generation, Transmission and Distribution, 2019, 13, 305-315.	2.5	15
94	From Optimization-Based Machine Learning to Interpretable Security Rules for Operation. IEEE Transactions on Power Systems, 2019, 34, 3826-3836.	6.5	60
95	Benefits of smart control of hybrid heat pumps: An analysis of field trial data. Applied Energy, 2019, 247, 525-536.	10.1	29
96	Clustering-Based Residential Baseline Estimation: A Probabilistic Perspective. IEEE Transactions on Smart Grid, 2019, 10, 6014-6028.	9.0	62
97	Cost-Effective Decarbonization in a Decentralized Market: The Benefits of Using Flexible Technologies and Resources. IEEE Power and Energy Magazine, 2019, 17, 25-36.	1.6	32
98	Contribution of Energy Storage to System Adequacy and its Value in the Capacity Market. , 2019, , .		2
99	Coordinated operation strategies for natural gas and power systems in presence of gas-related flexibilities. IET Energy Systems Integration, 2019, 1, 3-13.	1.8	23
100	A Deep Q Network Approach for Optimizing Offering Strategies in Electricity Markets. , 2019, , .		3
101	Impact of Energy Storage on Market-Based Generation Investment Planning. , 2019, , .		2
102	An ambiguity averse approach for transmission expansion planning. , 2019, , .		7
103	Investment Model for Cost-effective Integration of Solar PV Capacity under Uncertainty using a Portfolio of Energy Storage and Soft Open Points. , 2019, , .		9
104	Consensus-Based Coordination of Time-Shiftable Flexible Demand. , 2019, , .		3
105	Impact of Uncertainties on Resilient Operation of Microgrids: A Data-Driven Approach. IEEE Access, 2019, 7, 14924-14937.	4.2	50
106	Preheating Quantification for Smart Hybrid Heat Pumps Considering Uncertainty. IEEE Transactions on Industrial Informatics, 2019, 15, 4753-4763.	11.3	9
107	Data-Driven Representative Day Selection for Investment Decisions: A Cost-Oriented Approach. IEEE Transactions on Power Systems, 2019, 34, 2925-2936.	6.5	40
108	A Deep Learning-Based Feature Extraction Framework for System Security Assessment. IEEE Transactions on Smart Grid, 2019, 10, 5007-5020.	9.0	92

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109	Whole-System Assessment of the Benefits of Integrated Electricity and Heat System. IEEE Transactions on Smart Grid, 2019, 10, 1132-1145.	9.0	59
110	Stochastic Dual Dynamic Programming for Operation of DER Aggregators Under Multi-Dimensional Uncertainty. IEEE Transactions on Sustainable Energy, 2019, 10, 459-469.	8.8	22
111	Probabilistic Peak Load Estimation in Smart Cities Using Smart Meter Data. IEEE Transactions on Industrial Electronics, 2019, 66, 1608-1618.	7.9	43
112	Risk-averse bidding of energy and spinning reserve by wind farms with on-site energy storage. IET Renewable Power Generation, 2018, 12, 165-173.	3.1	25
113	Economic assessment of alternative heat decarbonisation strategies through coordinated operation with electricity system – UK case study. Applied Energy, 2018, 222, 79-91.	10.1	38
114	Option Value of Demand-Side Response Schemes Under Decision-Dependent Uncertainty. IEEE Transactions on Power Systems, 2018, 33, 5103-5113.	6.5	23
115	An objective-based scenario selection method for transmission network expansion planning with multivariate stochasticity in load and renewable energy sources. Energy, 2018, 145, 871-885.	8.8	44
116	On Distributed Scheduling of Flexible Demand and Nash Equilibria in the Electricity Market. Dynamic Games and Applications, 2018, 8, 761-798.	1.9	4
117	An affine arithmetic-based multi-objective optimization method for energy storage systems operating in active distribution networks with uncertainties. Applied Energy, 2018, 223, 215-228.	10.1	39
118	Understanding the Benefits of Dynamic Line Rating Under Multiple Sources of Uncertainty. IEEE Transactions on Power Systems, 2018, 33, 3306-3314.	6.5	52
119	Quantifying the Potential Economic Benefits of Flexible Industrial Demand in the European Power System. IEEE Transactions on Industrial Informatics, 2018, 14, 5123-5132.	11.3	20
120	Investigating the Social Efficiency of Merchant Transmission Planning Through a Non-cooperative Game-Theoretic Framework. IEEE Transactions on Power Systems, 2018, 33, 4831-4841.	6.5	8
121	Investigating the Ability of Demand Shifting to Mitigate Electricity Producers' Market Power. IEEE Transactions on Power Systems, 2018, 33, 3800-3811.	6.5	51
122	Integration of Price-Responsive Appliances in the Energy Market Through Flexible Demand Saturation. IEEE Transactions on Control of Network Systems, 2018, 5, 154-166.	3.7	6
123	Role and Benefits of Flexible Thermostatically Controlled Loads in Future Low-Carbon Systems. IEEE Transactions on Smart Grid, 2018, 9, 5067-5079.	9.0	42
124	Planning With Multiple Transmission and Storage Investment Options Under Uncertainty: A Nested Decomposition Approach. IEEE Transactions on Power Systems, 2018, 33, 3559-3572.	6.5	21
125	Coordination of Micro-Storage Devices in Power Grids: A Multi-Agent System Approach for Energy Arbitrage. , 2018, , .		0
126	Distributed Coordination of Price-Responsive Electric Loads: A Receding Horizon Approach. , 2018, , .		4

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127	A Game-Theoretic Modeling Approach for Merchant Transmission Planning. , 2018, , .		0
128	A Distributed Price-based Strategy for Flexible Demand Coordination in Multi-area Systems. , 2018, , .		2
129	Sample-Derived Disjunctive Rules for Secure Power System Operation. , 2018, , .		5
130	Risk-based method to secure power systems against cyber-physical faults with cascading impacts: a system protection scheme application. Journal of Modern Power Systems and Clean Energy, 2018, 6, 930-943.	5.4	8
131	Optimal Scheduling of Frequency Services Considering a Variable Largest-Power-Infeed-Loss. , 2018, , .		3
132	Voltage Support from Distribution Level Resources in South-East England. , 2018, , .		3
133	Assessment of Future Whole-System Value of Large-Scale Pumped Storage Plants in Europe. Energies, 2018, 11, 246.	3.1	16
134	Incorporating Demand Flexibility in Strategic Generation Investment Planning. , 2018, , .		0
135	Investigating the Impact of Demand Flexibility on Electricity Retailers. , 2018, , .		1
136	Design of a Hybrid AC/DC Microgrid Using HOMER Pro: Case Study on an Islanded Residential Application. Inventions, 2018, 3, 55.	2.5	79
137	Option value of dynamic line rating and storage. , 2018, , .		9
138	Strategic Distribution Network Planning With Smart Grid Technologies. IEEE Transactions on Smart Grid, 2017, 8, 2656-2664.	9.0	51
139	Efficacy of options to address balancing challenges: Integrated gas and electricity perspectives. Applied Energy, 2017, 190, 181-190.	10.1	60
140	Full Stochastic Scheduling for Low-Carbon Electricity Systems. IEEE Transactions on Automation Science and Engineering, 2017, 14, 461-470.	5.2	34
141	Realising transition pathways for a more electric, low-carbon energy system in the United Kingdom: Challenges, insights and opportunities. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2017, 231, 440-477.	1.4	35
142	Price-Based Schemes for Distributed Coordination of Flexible Demand in the Electricity Market. IEEE Transactions on Smart Grid, 2017, 8, 3104-3116.	9.0	43
143	Value of gas network infrastructure flexibility in supporting cost effective operation of power systems. Applied Energy, 2017, 202, 571-580.	10.1	43
144	Integrated North Sea grids: The costs, the benefits and their distribution between countries. Energy Policy, 2017, 101, 28-41.	8.8	48

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145	Economic analysis of energy storage business models. , 2017, , .		13
146	Optimal multi-service business models for electric vehicles. , 2017, , .		4
147	A stochastic dual dynamic programming approach for optimal operation of DER aggregators. , 2017, , .		5
148	Robust estimation of risks from small samples. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160299.	3.4	2
149	A fuzzy-logic-based control methodology for secure operation of a microgrid in interconnected and isolated modes. International Transactions on Electrical Energy Systems, 2017, 27, e2389.	1.9	16
150	Implementation of a Massively Parallel Dynamic Security Assessment Platform for Large-Scale Grids. IEEE Transactions on Smart Grid, 2017, 8, 1417-1426.	9.0	60
151	C-Vine Copula Mixture Model for Clustering of Residential Electrical Load Pattern Data. IEEE Transactions on Power Systems, 2017, 32, 2382-2393.	6.5	80
152	Advanced Control of Thermostatic Loads for Rapid Frequency Response in Great Britain. IEEE Transactions on Power Systems, 2017, 32, 2106-2117.	6.5	85
153	A Semi-Decentralized Scheme for Integration of Price-Responsive Appliances in the Electricity Market. IFAC-PapersOnLine, 2017, 50, 6729-6736.	0.9	3
154	Assessing the value and impact of demand side response using whole-system approach. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2017, 231, 498-507.	1.4	10
155	Understanding the aggregate flexibility of thermostatically controlled loads. , 2017, , .		1
156	Optimal Allocation of ESSs for Mitigating Fluctuation in Active Distribution Network. Energy Procedia, 2017, 142, 3572-3577.	1.8	6
157	Optimization of Heat Sector Decarbonization Strategy through Coordinated Operation with Electricity System. Energy Procedia, 2017, 142, 2858-2863.	1.8	4
158	Coordinated operation of distributed energy storage in low carbon networks. , 2017, , .		3
159	Exploring the role of demand shifting in oligopolistic electricity markets. , 2017, , .		2
160	A new class of planning models for option valuation of storage technologies under decision-dependent innovation uncertainty. , 2017, , .		6
161	Convergence and optimality of a new iterative price-based scheme for distributed coordination of flexible loads in the electricity market. , 2017, , .		6
162	Economic value of inertia in low-carbon power systems. , 2017, , .		5

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163	Provision of ancillary services in future low-carbon UK electricity system. , 2017, , .		8
164	Evaluating composite approaches to modelling high-dimensional stochastic variables in power systems. , 2016, , .		4
165	Decentralized coordination of large populations of flexible electrical appliances through demand saturation. , 2016, , .		1
166	Reliability Standards for the Operation and Planning of Future Electricity Networks. Foundations and Trends in Electric Energy Systems, 2016, 1, 143-219.	1.0	20
167	Stochastic optimisation-based valuation of smart grid options under firm DG contracts. , 2016, , .		4
168	Transmission network expansion planning with stochastic multivariate load and wind modeling. , 2016, , .		1
169	A game theoretic modeling framework for decentralized transmission planning. , 2016, , .		2
170	Value of thermostatic loads in future low-carbon Great Britain system. , 2016, , .		10
171	Integrating customers' differentiated supply valuation in distribution network planning and charging. , 2016, , .		0
172	Distributed vs. concentrated rapid frequency response provision in future great britain system. , 2016, , .		6
173	Synergies and conflicts among energy storage services. , 2016, , .		8
174	Value of corrective network security for distributed energy storage applications. IET Generation, Transmission and Distribution, 2016, 10, 1758-1767.	2.5	7
175	An implicit switching model for distribution network reliability assessment. , 2016, , .		0
176	Corrective Control with Transient Assistive Measures: Value Assessment for Great Britain Transmission System. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	14
177	Strategic Valuation of Smart Grid Technology Options in Distribution Networks. IEEE Transactions on Power Systems, 2016, , 1-1.	6.5	30
178	Effect of Battery Degradation on Multi-Service Portfolios of Energy Storage. IEEE Transactions on Sustainable Energy, 2016, 7, 1718-1729.	8.8	90
179	Inertial response from offshore wind farms connected through DC grids. , 2016, , .		0
180	Coordinated corrective control for transient stability enhancement in future Great Britain transmission system. , 2016, , .		5

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181	Incorporating failures of System Protection Schemes into power system operation. Sustainable Energy, Grids and Networks, 2016, 8, 98-110.	3.9	13
182	An MPEC approach for analysing the impact of energy storage in imperfect electricity markets. , 2016, , .		15
183	Business cases for energy storage with multiple service provision. Journal of Modern Power Systems and Clean Energy, 2016, 4, 615-625.	5.4	32
184	Stochastic Scheduling With Inertia-Dependent Fast Frequency Response Requirements. IEEE Transactions on Power Systems, 2016, 31, 1557-1566.	6.5	235
185	Scheduling of Wind Farms for Optimal Frequency Response and Energy Recovery. IEEE Transactions on Control Systems Technology, 2016, 24, 1764-1778.	5.2	24
186	Assessment of the Role and Value of Frequency Response Support From Wind Plants. IEEE Transactions on Sustainable Energy, 2016, 7, 586-595.	8.8	123
187	Co-Optimization of Generation Expansion Planning and Electric Vehicles Flexibility. IEEE Transactions on Smart Grid, 2016, 7, 1609-1619.	9.0	51
188	Leaky storage model for optimal multi-service allocation of thermostatic loads. IET Generation, Transmission and Distribution, 2016, 10, 585-593.	2.5	53
189	Benefits of flexibility from smart electrified transportation and heating in the future UK electricity system. Applied Energy, 2016, 167, 420-431.	10.1	68
190	Nonlinear and Randomized Pricing for Distributed Management of Flexible Loads. IEEE Transactions on Smart Grid, 2016, 7, 1137-1146.	9.0	36
191	Evaluation of Synthetic Inertia Provision from Wind Plants. , 2015, , .		11
192	Potential value of energy storage in the UK electricity system. Proceedings of Institution of Civil Engineers: Energy, 2015, 168, 107-117.	0.6	10
193	Visualising risk in generating capacity adequacy studies using clustering and prototypes. , 2015, , .		1
194	Cost-benefit analysis of unreliable System Protection Scheme operation. , 2015, , .		2
195	Benefits of Demand-Side Response in Providing Frequency Response Service in the Future GB Power System. Frontiers in Energy Research, 2015, 3, .	2.3	41
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