

Goran Strbac

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

225
papers

5,972
citations

37
h-index

71
g-index

249
ext. papers

7,724
ext. citations

6.5
avg, IF

6.84
L-index

#	Paper	IF	Citations
225	Demand side management: Benefits and challenges. <i>Energy Policy</i> , 2008 , 36, 4419-4426	7.2	1093
224	Multi-time period combined gas and electricity network optimisation. <i>Electric Power Systems Research</i> , 2008 , 78, 1265-1279	3.5	206
223	Value of Bulk Energy Storage for Managing Wind Power Fluctuations. <i>IEEE Transactions on Energy Conversion</i> , 2007 , 22, 197-205	5.4	197
222	Whole-Systems Assessment of the Value of Energy Storage in Low-Carbon Electricity Systems. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 1098-1109	10.7	175
221	Distribution System State Estimation Using an Artificial Neural Network Approach for Pseudo Measurement Modeling. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 1888-1896	7	171
220	Impact of wind generation on the operation and development of the UK electricity systems. <i>Electric Power Systems Research</i> , 2007 , 77, 1214-1227	3.5	163
219	Decentralized Control of Thermostatic Loads for Flexible Demand Response. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 1685-1700	4.8	143
218	Stochastic Scheduling With Inertia-Dependent Fast Frequency Response Requirements. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1557-1566	7	137
217	Decentralized Participation of Flexible Demand in Electricity Markets Part II: Application With Electric Vehicles and Heat Pump Systems. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 3667-3674	7	107
216	Decentralized Participation of Flexible Demand in Electricity Markets Part I: Market Mechanism. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 3658-3666	7	101
215	A MILP model for optimising multi-service portfolios of distributed energy storage. <i>Applied Energy</i> , 2015 , 137, 554-566	10.7	98
214	Smart control for minimizing distribution network reinforcement cost due to electrification. <i>Energy Policy</i> , 2013 , 52, 76-84	7.2	94
213	Microgrids: Enhancing the Resilience of the European Megagrid. <i>IEEE Power and Energy Magazine</i> , 2015 , 13, 35-43	2.4	91
212	Total cost estimates for large-scale wind scenarios in UK. <i>Energy Policy</i> , 2004 , 32, 1949-1956	7.2	84
211	Economic and Environmental Benefits of Dynamic Demand in Providing Frequency Regulation. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 2036-2048	10.7	83
210	Assessment of the Role and Value of Frequency Response Support From Wind Plants. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 586-595	8.2	73
209	Efficient Stochastic Scheduling for Simulation of Wind-Integrated Power Systems. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 323-334	7	72

208	Valuation of Flexible Transmission Investment Options Under Uncertainty. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1047-1055	7	69
207	A Recursive Bayesian Approach for Identification of Network Configuration Changes in Distribution System State Estimation. <i>IEEE Transactions on Power Systems</i> , 2010 , 25, 1329-1336	7	69
206	Distributed Generation 2010 ,		66
205	Deep Reinforcement Learning for Strategic Bidding in Electricity Markets. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 1343-1355	10.7	63
204	Advanced Control of Thermostatic Loads for Rapid Frequency Response in Great Britain. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2106-2117	7	62
203	Effect of Battery Degradation on Multi-Service Portfolios of Energy Storage. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1718-1729	8.2	60
202	Using Bayesian Deep Learning to Capture Uncertainty for Residential Net Load Forecasting. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 188-201	7	60
201	Inertial Response From Offshore Wind Farms Connected Through DC Grids. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1518-1527	7	59
200	On microgrids and resilience: A comprehensive review on modeling and operational strategies. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 134, 110313	16.2	57
199	C-Vine Copula Mixture Model for Clustering of Residential Electrical Load Pattern Data. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2382-2393	7	54
198	Benefits of flexibility from smart electrified transportation and heating in the future UK electricity system. <i>Applied Energy</i> , 2016 , 167, 420-431	10.7	52
197	Decentralized Coordination of Microgrids With Flexible Demand and Energy Storage. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 1406-1414	8.2	51
196	Simultaneous Scheduling of Multiple Frequency Services in Stochastic Unit Commitment. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 3858-3868	7	50
195	Efficacy of options to address balancing challenges: Integrated gas and electricity perspectives. <i>Applied Energy</i> , 2017 , 190, 181-190	10.7	46
194	Model-Free Real-Time Autonomous Control for a Residential Multi-Energy System Using Deep Reinforcement Learning. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3068-3082	10.7	46
193	A Deep Learning-Based Feature Extraction Framework for System Security Assessment. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 5007-5020	10.7	46
192	Implementation of a Massively Parallel Dynamic Security Assessment Platform for Large-Scale Grids. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 1417-1426	10.7	42
191	Co-Optimization of Generation Expansion Planning and Electric Vehicles Flexibility. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 1609-1619	10.7	40

190	Supporting security and adequacy in future energy systems: The need to enhance long-term energy system models to better treat issues related to variability. <i>International Journal of Energy Research</i> , 2015 , 39, 377-396	4.5	40
189	Leaky storage model for optimal multi-service allocation of thermostatic loads. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 585-593	2.5	37
188	Design of a Hybrid AC/DC Microgrid Using HOMER Pro: Case Study on an Islanded Residential Application. <i>Inventions</i> , 2018 , 3, 55	2.9	37
187	Value of gas network infrastructure flexibility in supporting cost effective operation of power systems. <i>Applied Energy</i> , 2017 , 202, 571-580	10.7	36
186	Impact of Uncertainties on Resilient Operation of Microgrids: A Data-Driven Approach. <i>IEEE Access</i> , 2019 , 7, 14924-14937	3.5	36
185	Whole-System Assessment of the Benefits of Integrated Electricity and Heat System. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 1132-1145	10.7	36
184	Strategic Distribution Network Planning With Smart Grid Technologies. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 2656-2664	10.7	35
183	Clustering-Based Residential Baseline Estimation: A Probabilistic Perspective. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 6014-6028	10.7	35
182	Price-Based Schemes for Distributed Coordination of Flexible Demand in the Electricity Market. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 3104-3116	10.7	34
181	Integrated North Sea grids: The costs, the benefits and their distribution between countries. <i>Energy Policy</i> , 2017 , 101, 28-41	7.2	33
180	From Optimization-Based Machine Learning to Interpretable Security Rules for Operation. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 3826-3836	7	32
179	Multi-Period and Multi-Spatial Equilibrium Analysis in Imperfect Electricity Markets: A Novel Multi-Agent Deep Reinforcement Learning Approach. <i>IEEE Access</i> , 2019 , 7, 130515-130529	3.5	31
178	Role and Benefits of Flexible Thermostatically Controlled Loads in Future Low-Carbon Systems. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 5067-5079	10.7	31
177	Economic assessment of alternative heat decarbonisation strategies through coordinated operation with electricity system UK case study. <i>Applied Energy</i> , 2018 , 222, 79-91	10.7	30
176	. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 3935-3944	7	30
175	An objective-based scenario selection method for transmission network expansion planning with multivariate stochasticity in load and renewable energy sources. <i>Energy</i> , 2018 , 145, 871-885	7.9	27
174	Business cases for energy storage with multiple service provision. <i>Journal of Modern Power Systems and Clean Energy</i> , 2016 , 4, 615-625	4	27
173	An affine arithmetic-based multi-objective optimization method for energy storage systems operating in active distribution networks with uncertainties. <i>Applied Energy</i> , 2018 , 223, 215-228	10.7	26

172	Investigating the Ability of Demand Shifting to Mitigate Electricity Producers' Market Power. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3800-3811	7	26
171	Electricity transmission arrangements in Great Britain: Time for change?. <i>Energy Policy</i> , 2014 , 73, 298-317.2		26
170	A multi-objective optimization approach for assessment of technical, commercial and environmental performance of microgrids. <i>European Transactions on Electrical Power</i> , 2011 , 21, 1269-1288		26
169	A Planning Model for a Hybrid AC/DC Microgrid Using a Novel GA/AC OPF Algorithm. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 227-237	7	26
168	. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 1137-1146	10.7	25
167	Benefits of Demand-Side Response in Providing Frequency Response Service in the Future GB Power System. <i>Frontiers in Energy Research</i> , 2015 , 3,	3.8	25
166	Full Stochastic Scheduling for Low-Carbon Electricity Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017 , 14, 461-470	4.9	24
165	Realising transition pathways for a more electric, low-carbon energy system in the United Kingdom: Challenges, insights and opportunities. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2017 , 231, 440-477	1.6	24
164	A Deep Reinforcement Learning Method for Pricing Electric Vehicles With Discrete Charging Levels. <i>IEEE Transactions on Industry Applications</i> , 2020 , 56, 5901-5912	4.3	24
163	Probabilistic Peak Load Estimation in Smart Cities Using Smart Meter Data. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 1608-1618	8.9	24
162	Understanding the Benefits of Dynamic Line Rating Under Multiple Sources of Uncertainty. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3306-3314	7	23
161	Statistical appraisal of economic design strategies of LV distribution networks. <i>Electric Power Systems Research</i> , 2011 , 81, 1363-1372	3.5	23
160	A Mean Field Game Approach for Distributed Control of Thermostatic Loads Acting in Simultaneous Energy-Frequency Response Markets. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 5987-5999	10.7	22
159	Data-Driven Representative Day Selection for Investment Decisions: A Cost-Oriented Approach. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2925-2936	7	22
158	Scalable coordinated management of peer-to-peer energy trading: A multi-cluster deep reinforcement learning approach. <i>Applied Energy</i> , 2021 , 292, 116940	10.7	21
157	Strategic Valuation of Smart Grid Technology Options in Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	20
156	Evaluation of the impact of electric heat pumps and distributed CHP on LV networks 2011 ,		20
155	Coordinated operation strategies for natural gas and power systems in presence of gas-related flexibilities. <i>IET Energy Systems Integration</i> , 2019 , 1, 3-13	3.3	20

154	Data-Driven Power System Operation: Exploring the Balance Between Cost and Risk. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 791-801	7	18
153	Reliability Standards for the Operation and Planning of Future Electricity Networks 2016 , 1, 143-219		18
152	Scheduling of Wind Farms for Optimal Frequency Response and Energy Recovery. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 1764-1778	4.8	17
151	Transmission Network Investment With Distributed Energy Resources and Distributionally Robust Security. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 5157-5168	7	17
150	Decarbonization of Electricity Systems in Europe: Market Design Challenges. <i>IEEE Power and Energy Magazine</i> , 2021 , 19, 53-63	2.4	17
149	Factoring Flexible Demand Non-Convexities in Electricity Markets. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2090-2099	7	16
148	Optimal Portfolio of Distinct Frequency Response Services in Low-Inertia Systems. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 4459-4469	7	16
147	Risk-averse bidding of energy and spinning reserve by wind farms with on-site energy storage. <i>IET Renewable Power Generation</i> , 2018 , 12, 165-173	2.9	16
146	Evaluating grid-interactive electric bus operation and demand response with load management tariff. <i>Applied Energy</i> , 2019 , 255, 113798	10.7	16
145	Time series modelling of power output for large-scale wind fleets. <i>Wind Energy</i> , 2011 , 14, 953-966	3.4	16
144	. <i>IEEE Power and Energy Magazine</i> , 2019 , 17, 25-36	2.4	16
143	Benefits of smart control of hybrid heat pumps: An analysis of field trial data. <i>Applied Energy</i> , 2019 , 247, 525-536	10.7	15
142	. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 225-235	7	15
141	Role and value of flexibility in facilitating cost-effective energy system decarbonisation. <i>Progress in Energy</i> , 2020 , 2, 042001	7.7	15
140	Demand response contribution to effective inertia for system security in the GB 2020 gone green scenario 2013 ,		14
139	Stochastic optimization model for coordinated operation of natural gas and electricity networks. <i>Computers and Chemical Engineering</i> , 2020 , 142, 107060	4	14
138	. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 997-1008	7	14
137	Planning With Multiple Transmission and Storage Investment Options Under Uncertainty: A Nested Decomposition Approach. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3559-3572	7	14

136	A fuzzy-logic based control methodology for secure operation of a microgrid in interconnected and isolated modes. <i>International Transactions on Electrical Energy Systems</i> , 2017 , 27, e2389	2.2	13
135	Modelling of national and local interactions between heat and electricity networks in low-carbon energy systems. <i>Applied Energy</i> , 2020 , 276, 115522	10.7	13
134	Investing in flexibility in an integrated planning of natural gas and power systems. <i>IET Energy Systems Integration</i> , 2020 , 2, 101-111	3.3	13
133	Cost and low-carbon competitiveness of electrolytic hydrogen in China. <i>Energy and Environmental Science</i> , 2021 , 14, 4868-4881	35.4	13
132	Investigating the impacts of price-taking and price-making energy storage in electricity markets through an equilibrium programming model. <i>IET Generation, Transmission and Distribution</i> , 2019 , 13, 305-315	2.5	12
131	Quantifying the Potential Economic Benefits of Flexible Industrial Demand in the European Power System. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 5123-5132	11.9	12
130	Incorporating failures of System Protection Schemes into power system operation. <i>Sustainable Energy, Grids and Networks</i> , 2016 , 8, 98-110	3.6	12
129	Frequency changes in AC systems connected to DC grids: Impact of AC vs. DC side events 2014 ,		12
128	Ancillary services in Great Britain during the COVID-19 lockdown: A glimpse of the carbon-free future. <i>Applied Energy</i> , 2021 , 285, 116500	10.7	12
127	Incorporating Non-Convex Operating Characteristics Into Bi-Level Optimization Electricity Market Models. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 163-176	7	12
126	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	10.7	12
125	Reliability and Vulnerability Assessment of Multi-Energy Systems: An Energy Hub Based Method. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 3948-3959	7	12
124	Coordinated Operation of Gas and Electricity Systems for Flexibility Study. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	11
123	Option Value of Demand-Side Response Schemes Under Decision-Dependent Uncertainty. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 5103-5113	7	11
122	Stochastic Dual Dynamic Programming for Operation of DER Aggregators Under Multi-Dimensional Uncertainty. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 459-469	8.2	11
121	Co-optimization of resilient gas and electricity networks; a novel possibilistic chance-constrained programming approach. <i>Applied Energy</i> , 2021 , 284, 116284	10.7	11
120	Assessment of Future Whole-System Value of Large-Scale Pumped Storage Plants in Europe. <i>Energies</i> , 2018 , 11, 246	3.1	11
119	Closed loop price signal based market operation within Microgrids. <i>European Transactions on Electrical Power</i> , 2011 , 21, 1310-1326		10

118	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	8.2	10
117	Challenges and opportunities of inertia estimation and forecasting in low-inertia power systems. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 147, 111176	16.2	10
116	Efficient system integration of wind generation through smart charging of electric vehicles 2013 ,		9
115	Real-Time Autonomous Residential Demand Response Management Based on Twin Delayed Deep Deterministic Policy Gradient Learning. <i>Energies</i> , 2021 , 14, 531	3.1	9
114	Integration of Hydrogen into Multi-Energy Systems Optimisation. <i>Energies</i> , 2020 , 13, 1606	3.1	8
113	Assessing the value and impact of demand side response using whole-system approach. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2017 , 231, 498-507	1.6	8
112	Evaluation of Synthetic Inertia Provision from Wind Plants 2015 ,		8
111	Security constrained economic dispatch with flexible thermostatically controlled loads 2014 ,		8
110	Decentralized, agent-mediated participation of flexible thermal loads in electricity markets 2011 ,		8
109	Stabilizing peer-to-peer energy trading in prosumer coalition through computational efficient pricing. <i>Electric Power Systems Research</i> , 2020 , 189, 106764	3.5	8
108	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 , 1-1	10.7	8
107	Distributed Control of Micro-Storage Devices With Mean Field Games. <i>IEEE Transactions on Smart Grid</i> , 2015 , 1-1	10.7	7
106	An MPEC approach for analysing the impact of energy storage in imperfect electricity markets 2016 ,		7
105	Strategic Assessment of Alternative Design Options for Multivoltage-Level Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1261-1269	7	7
104	Decentralized optimization of flexible loads operation in electricity markets 2013 ,		7
103	Times-series modelling for the aggregate Great Britain wind output circa 2030. <i>IET Renewable Power Generation</i> , 2013 , 7, 36-44	2.9	7
102	Resilience-driven optimal sizing and pre-positioning of mobile energy storage systems in decentralized networked microgrids. <i>Applied Energy</i> , 2022 , 305, 117921	10.7	7
101	. <i>IEEE Power and Energy Magazine</i> , 2015 , 13, 61-75	2.4	6

100	Investigating the Social Efficiency of Merchant Transmission Planning Through a Non-cooperative Game-Theoretic Framework. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4831-4841	7	6
99	Integration of Price-Responsive Appliances in the Energy Market Through Flexible Demand Saturation. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 154-166	4	6
98	Corrective Control With Transient Assistive Measures: Value Assessment for Great Britain Transmission System. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	6
97	A game-theoretic approach for price-based coordination of flexible devices operating in integrated energy-reserve markets. <i>Energy</i> , 2019 , 189, 116153	7.9	6
96	Resilience-Driven Modeling, Operation and Assessment for a Hybrid AC/DC Microgrid. <i>IEEE Access</i> , 2020 , 8, 139756-139770	3.5	6
95	A machine-learning based probabilistic perspective on dynamic security assessment. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 128, 106571	5.1	6
94	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 , 1-1	7	6
93	Economic analysis of energy storage business models 2017 ,		5
92	A stochastic dual dynamic programming approach for optimal operation of DER aggregators 2017 ,		5
91	Analysis of Nash equilibria in energy markets with large populations of price-responsive flexible appliances 2015 ,		5
90	Resilience Oriented Planning of Urban Multi-Energy Systems With Generalized Energy Storage Sources. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	5
89	Frequency control using thermal loads under the proposed ENTSO-E Demand Connection Code 2015 ,		4
88	Quantification and visualisation of extreme wind effects on transmission network outage probability and wind generation output. <i>IET Smart Grid</i> , 2020 , 3, 112-122	2.7	4
87	Investigating the impact of flexible demand on market-based generation investment planning. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 119, 105881	5.1	4
86	On Distributed Scheduling of Flexible Demand and Nash Equilibria in the Electricity Market. <i>Dynamic Games and Applications</i> , 2018 , 8, 761-798	1.1	4
85	Coordinated corrective control for transient stability enhancement in future Great Britain transmission system 2016 ,		4
84	Distributed Coordination of Flexible Loads Using Locational Marginal Prices. <i>IEEE Transactions on Control of Network Systems</i> , 2019 , 6, 1097-1110	4	4
83	Convergence and optimality of a new iterative price-based scheme for distributed coordination of flexible loads in the electricity market 2017 ,		4

82	Economic value of inertia in low-carbon power systems 2017 ,		4
81	Provision of ancillary services in future low-carbon UK electricity system 2017 ,		4
80	Corrective control through HVDC links: A case study on GB equivalent system 2013 ,		4
79	Optimizing the operation of distributed generation in market environment using genetic algorithms 2008 ,		4
78	Value of thermostatic loads in future low-carbon Great Britain system 2016 ,		4
77	Distributed vs. concentrated rapid frequency response provision in future great britain system 2016 ,		4
76	Synergies and conflicts among energy storage services 2016 ,		4
75	Value of corrective network security for distributed energy storage applications. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 1758-1767	2.5	4
74	Investment Model for Cost-effective Integration of Solar PV Capacity under Uncertainty using a Portfolio of Energy Storage and Soft Open Points 2019 ,		4
73	Preheating Quantification for Smart Hybrid Heat Pumps Considering Uncertainty. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 4753-4763	11.9	4
72	Distributed Coordination of Price-Responsive Electric Loads: A Receding Horizon Approach 2018 ,		4
71	Risk-based method to secure power systems against cyber-physical faults with cascading impacts: a system protection scheme application. <i>Journal of Modern Power Systems and Clean Energy</i> , 2018 , 6, 930-943	4.4	4
70	Option value of dynamic line rating and storage 2018 ,		4
69	Evaluation of benefits through coordinated control of numerous thermal energy storage in highly electrified heat systems. <i>Energy</i> , 2021 , 237, 121600	7.9	4
68	Investigating the effects of demand flexibility on electricity retailers' business through a tri-level optimisation model. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 1739-1750	2.5	3
67	A Semi-Decentralized Scheme for Integration of Price-Responsive Appliances in the Electricity Market. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6729-6736	0.7	3
66	Optimal Allocation of ESSs for Mitigating Fluctuation in Active Distribution Network. <i>Energy Procedia</i> , 2017 , 142, 3572-3577	2.3	3
65	Optimization of Heat Sector Decarbonization Strategy through Coordinated Operation with Electricity System. <i>Energy Procedia</i> , 2017 , 142, 2858-2863	2.3	3

64	Role of losses in design of DC cable for solar PV applications 2014,		3
63	Participation of electric vehicles in electricity markets through a decentralized mechanism 2011,		3
62	Safe reinforcement learning for real-time automatic control in a smart energy-hub. <i>Applied Energy</i> , 2022 , 309, 118403	10.7	3
61	Conditions for Regional Frequency Stability in Power System Scheduling Part II: Application to Unit Commitment. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	3
60	Sample-Derived Disjunctive Rules for Secure Power System Operation 2018,		3
59	Optimal Scheduling of Frequency Services Considering a Variable Largest-Power-Infeed-Loss 2018,		3
58	A causality based feature selection approach for data-driven dynamic security assessment. <i>Electric Power Systems Research</i> , 2021 , 201, 107537	3.5	3
57	Evaluating Strategies for Decarbonising the Transport Sector in Great Britain 2019,		2
56	Value of Point-of-Load Voltage Control for Enhanced Frequency Response in Future GB Power System. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 4938-4948	10.7	2
55	Quantification of the Energy Storage Contribution to Security of Supply through the F-Factor Methodology. <i>Energies</i> , 2020 , 13, 826	3.1	2
54	Impact of electric vehicles flexibility on generation expansion planning 2013,		2
53	A new class of planning models for option valuation of storage technologies under decision-dependent innovation uncertainty 2017,		2
52	Potential value of energy storage in the UK electricity system. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2015 , 168, 107-117	0.7	2
51	Optimization of operating and investment costs of active management deployment in distribution networks 2011,		2
50	Long-Term Expansion Planning of the Transmission Network in India under Multi-Dimensional Uncertainty. <i>Energies</i> , 2021 , 14, 7813	3.1	2
49	Secure Operation of Integrated Natural Gas and Electricity Transmission Networks. <i>Energies</i> , 2020 , 13, 4954	3.1	2
48	Stochastic optimisation-based valuation of smart grid options under firm DG contracts 2016,		2
47	A Deep Q Network Approach for Optimizing Offering Strategies in Electricity Markets 2019,		2

46	An ambiguity averse approach for transmission expansion planning 2019 ,		2
45	Low-Complexity Decentralized Algorithm for Aggregate Load Control of Thermostatic Loads. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 987-998	4.3	2
44	Conditions for Regional Frequency Stability in Power System Scheduling Part I: Theory. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	2
43	Thermo-economic assessment of flexible nuclear power plants in future low-carbon electricity systems: Role of thermal energy storage. <i>Energy Conversion and Management</i> , 2022 , 258, 115484	10.6	2
42	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	10.7	2
41	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	2
40	Low-complexity control algorithm for decentralised demand response using thermostatic loads 2019 ,		1
39	Value of Thermostatic Loads in Energy Frequency Response Markets: a Mean Field Game Approach 2019 ,		1
38	Addressing demand response concentration under dynamic pricing 2015 ,		1
37	Optimal multi-service business models for electric vehicles 2017 ,		1
36	Robust estimation of risks from small samples. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	1
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