

Demand response and smart grids – A survey

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A hybrid solar PV/wind energy system for voltage regulation in a microgrid. , 2013, , .		6
2	Integrated platform for automated sustainable demand response in smart grids. , 2014, , .		5
3	Technological Innovation for Collective Awareness Systems. IFIP Advances in Information and Communication Technology, 2014, , .	0.5	7
4	The Human in the Loop: An Approach to Individualize Smart Process Control. Procedia Environmental Sciences, 2014, 22, 302-312.	1.3	4
5	Mixed heuristic-non linear optimization of energy management for hydrogen storage-based multi carrier hubs. , 2014, , .		7
6	A self-governing, decentralized, extensible Internet of Things to share electrical power efficiently. , 2014, , .		6
7	Distributed intelligent management of microgrids using a multi-agent simulation platform. , 2014, , .		7
8	Robust optimization based EV charging. , 2014, , .		6
9	Alternative coordination approaches for implementation in Smart Grid. , 2014, , .		1
10	A review on plug-in electric vehicles charging: Standards and impact on distribution system. , 2014, , .		22
11	Integration of renewable energy in demand-side management for home appliances. , 2014, , .		24
12	Voltage control in a smart distribution network using demand response. , 2014, , .		5
13	Coordination of smart-household activities for the efficient operation of intelligent distribution systems. , 2014, , .		9
14	Home energy management system for electricity cost savings and comfort preservation. , 2014, , .		13
15	A multicriteria model for selecting renewable energy systems in a distributed generation context. , 2014, , .		1
16	Residential energy system control and management using a Hill-climbing heuristic method. , 2014, , .		1
17	Adoption of smart grid technologies: An analysis of interactions among barriers. Renewable and Sustainable Energy Reviews, 2014, 33, 554-565.	8.2	175
18	Stochastic multi-objective operational planning of smart distribution systems considering demand response programs. Electric Power Systems Research, 2014, 111, 156-168.	2.1	145

#	ARTICLE	IF	CITATIONS
19	Multi-objective scheduling of electric vehicles in smart distribution system. Energy Conversion and Management, 2014, 79, 43-53.	4.4	253
20	A new approach for real time voltage control using demand response in an automated distribution system. Applied Energy, 2014, 117, 157-166.	5.1	125
21	Economic impacts of small-scale own generating and storage units, and electric vehicles under different demand response strategies for smart households. Applied Energy, 2014, 126, 142-150.	5.1	178
22	Microgrids in active network management – part II: System operation, power quality and protection. Renewable and Sustainable Energy Reviews, 2014, 36, 440-451.	8.2	98
23	Decentralized Planning of Energy Demand for the Management of Robustness and Discomfort. IEEE Transactions on Industrial Informatics, 2014, 10, 2280-2289.	7.2	32
24	Computational Intelligence in Smart water and gas grids: An up-to-date overview. , 2014, , .		11
25	Smart Grid Challenges for Electricity Retailers. KI - Kunstliche Intelligenz, 2014, 28, 191-198.	2.2	7
26	Computational framework based on task and resource scheduling for micro grid design. , 2014, , .		5
27	Definition and application of innovative control logics for residential energy optimization. , 2014, , .		4
28	Electric Vehicles integration in demand response programs. , 2014, , .		27
29	Improving Knowledge-Based Systems with statistical techniques, text mining, and neural networks for non-technical loss detection. Knowledge-Based Systems, 2014, 71, 376-388.	4.0	66
30	Designing a customized electric power storage device for smart grids. , 2014, , .		1
31	Assessing the Impact of Incentive Regulation for Innovation on RES Integration. IEEE Transactions on Power Systems, 2014, 29, 2499-2508.	4.6	31
32	Smart microgrid operational planning considering multiple demand response programs. Journal of Renewable and Sustainable Energy, 2014, 6, .	0.8	23
33	Methodology to simulate the impact of a large deployment of a residential energy management system in the electricity grid. Electric Power Systems Research, 2014, 116, 399-407.	2.1	10
34	A Distributed Algorithm for Managing Residential Demand Response in Smart Grids. IEEE Transactions on Industrial Informatics, 2014, 10, 2385-2393.	7.2	207
35	Peak-to-Average Ratio Constrained Demand-Side Management With Consumer's Preference in Residential Smart Grid. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 1084-1097.	7.3	179
36	Integrated scheduling of renewable generation and demand response programs in a microgrid. Energy Conversion and Management, 2014, 86, 1118-1127.	4.4	337

#	ARTICLE	IF	CITATIONS
37	Stochastic operational scheduling of smart distribution system considering wind generation and demand response programs. International Journal of Electrical Power and Energy Systems, 2014, 63, 218-225.	3.3	90
38	Smart microgrid energy and reserve scheduling with demand response using stochastic optimization. International Journal of Electrical Power and Energy Systems, 2014, 63, 523-533.	3.3	247
39	A multi-objective genetic approach to domestic load scheduling in an energy management system. Energy, 2014, 77, 144-152.	4.5	101
40	A review of Integration, Control, Communication and Metering (ICCM) of renewable energy based smart grid. Renewable and Sustainable Energy Reviews, 2014, 38, 180-192.	8.2	136
41	Three fault ride through controllers for wind systems running in isolated micro-grid and Effects of fault type on their performance: A review and comparative study. Renewable and Sustainable Energy Reviews, 2014, 37, 698-714.	8.2	32
42	On Defining Information and Communication Technology Requirements and Associated Challenges for "Energy and Comfort Active" Buildings. Procedia Computer Science, 2014, 32, 979-984.	1.2	5
43	Real-time simulation of real-time pricing demand response to meet wind variations. , 2014, , .		0
44	Online learning for demand response. , 2015, , .		13
45	Scheduling, pricing, and efficiency of non-preemptive flexible loads under direct load control. , 2015, , .		9
46	Market power mitigation in the Colombian electricity market through on-site generation and demand response. , 2015, , .		1
47	Analysis of Electricity User Behavior: Case Study Based on Results from Extended Household Survey. Energy Procedia, 2015, 72, 79-86.	1.8	22
49	Analysis of the storage capacity in an aggregated heat pump portfolio. , 2015, , .		2
50	Real-time pricing based frequency control and smoothing of PV and WTG output power variations in islanded micro-grid. , 2015, , .		1
51	Symmetrica: test case for transportation electrification research. Infrastructure Complexity, 2015, 2, .	1.7	31
53	Decentralized on-site optimization of a battery storage system using one-way communication. , 2015, , .		1
54	Variable Frequency Control of Induction Motors for Emergency Demand Response. Applied Mechanics and Materials, 0, 792, 160-166.	0.2	1
55	Distributed Grid Storage by Ordinary House Heating Variations: A Swiss Case Study. , 2015, , .		3
56	Optimal residential load scheduling based on time varying pricing scheme. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
57	Estimation of elasticity of electricity demand in Iran: New empirical evidence using aggregate data. , 2015, , .		2
58	Combined price and event-based demand response using two-stage model predictive control. , 2015, , .		4
59	A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. Energies, 2015, 8, 9211-9265.	1.6	195
60	Exploring private consumersâ€™ willingness to adopt Smart Grid technology. International Journal of Consumer Studies, 2015, 39, 648-660.	7.2	17
61	The 2015 Power Trading Agent Competition. SSRN Electronic Journal, 0, , .	0.4	7
62	A Modified Feature Selection and Artificial Neural Network-Based Day-Ahead Load Forecasting Model for a Smart Grid. Applied Sciences (Switzerland), 2015, 5, 1756-1772.	1.3	43
63	A Novel Multiobjective Optimization Algorithm for Home Energy Management System in Smart Grid. Mathematical Problems in Engineering, 2015, 2015, 1-19.	0.6	13
64	On a simulation study for reliable and secured smart grid communications. , 2015, , .		0
65	Smart grid projects in Europe: Current status, maturity and future scenarios. Applied Energy, 2015, 152, 58-70.	5.1	112
66	Hierarchical energy and frequency security pricing in a smart microgrid: An equilibrium-inspired epsilon constraint based multi-objective decision making approach. Energy Conversion and Management, 2015, 98, 533-543.	4.4	18
67	Contextual and environmental awareness laboratory for energy consumption management. , 2015, , .		9
68	An Energy-Cost-Aware Scheduling Methodology for Sustainable Manufacturing. Procedia CIRP, 2015, 29, 185-190.	1.0	43
69	Distributed load scheduling in smart community with capacity constrained local power supplier. , 2015, , .		0
70	A Dynamic Production Model for Industrial Systems Energy Management. , 2015, , .		13
71	Defending against Energy Dispatching Data integrity attacks in smart grid. , 2015, , .		1
72	Privacy-Guaranteeing Bidding in Smart Grid Demand Response Programs. , 2015, , .		1
73	Definition of distinct consumer modelling approaches for the participation in Demand Response programs considering distributed generation. , 2015, , .		0
74	Demand Response Management for Residential Smart Grid: From Theory to Practice. IEEE Access, 2015, 3, 2431-2440.	2.6	81

#	ARTICLE	IF	CITATIONS
75	Optimal day ahead scheduling of distributed EVs in a smart distribution network. , 2015, , .		7
76	Simulation and control of consumption and generation of hardware resources in microgrid real-time digital simulator. , 2015, , .		10
77	Demand response: A way to balance production and consumption of energy for Turkey. , 2015, , .		0
78	Appliance level demand modeling and pricing optimization for demand response management in smart grid. , 2015, , .		3
79	Short term electricity load forecasting: A case study of electric utility market in Turkey. , 2015, , .		5
80	Understanding Customer Behavior in Multi-Tier Demand Response Management Program. IEEE Access, 2015, 3, 2613-2625.	2.6	89
81	Methods and Algorithms for the Interaction of Residential Smart Buildings with Smart Grids. , 2015, , .		4
82	Economic Impact of Demand Response in the Scheduling of Distributed Energy Resources. , 2015, , .		2
83	Distributed Deadline and Renewable Aware Electric Vehicle Demand Response in the Smart Grid. , 2015, , .		17
84	Smart grid technology: Communications, power electronics and control system. , 2015, , .		16
85	Frequency control using real-time pricing for isolated power systems. , 2015, , .		5
86	Networked optimization for demand side management based on non-cooperative game. , 2015, , .		4
87	Model Predictive Control for Building Active Demand Response Systems. Energy Procedia, 2015, 83, 494-503.	1.8	22
88	Demand side management in open electricity markets from retailer viewpoint. , 2015, , .		3
89	Optimal electrical and thermal energy management of a residential energy hub, integrating demand response and energy storage system. Energy and Buildings, 2015, 90, 65-75.	3.1	405
90	Home energy management systems: A review of modelling and complexity. Renewable and Sustainable Energy Reviews, 2015, 45, 318-335.	8.2	347
91	Constrained consumption shifting management in the distributed energy resources scheduling considering demand response. Energy Conversion and Management, 2015, 93, 309-320.	4.4	45
92	Distributed Energy Resources Management in a Low-Voltage Test Facility. IEEE Transactions on Industrial Electronics, 2015, 62, 2593-2603.	5.2	27

#	ARTICLE	IF	CITATIONS
93	A Game Theoretic Optimization Framework for Home Demand Management Incorporating Local Energy Resources. IEEE Transactions on Industrial Informatics, 2015, , 1-1.	7.2	64
94	A real-time demand response algorithm for heterogeneous devices in buildings and homes. Energy, 2015, 80, 123-132.	4.5	57
95	Energy conservation and emission reduction of China's electric power industry. Renewable and Sustainable Energy Reviews, 2015, 45, 10-19.	8.2	112
96	Smart microgrid hierarchical frequency control ancillary service provision based on virtual inertia concept: An integrated demand response and droop controlled distributed generation framework. Energy Conversion and Management, 2015, 92, 287-301.	4.4	110
97	Occupancy measurement in commercial office buildings for demand-driven control applications—A survey and detection system evaluation. Energy and Buildings, 2015, 93, 303-314.	3.1	295
98	Optimization Under Uncertainty of Thermal Storage-Based Flexible Demand Response With Quantification of Residential Users' Discomfort. IEEE Transactions on Smart Grid, 2015, 6, 2333-2342.	6.2	165
99	Innovative control logics for a rational utilization of electric loads and air-conditioning systems in a residential building. Energy and Buildings, 2015, 102, 1-17.	3.1	56
100	Smart Grid and its future perspectives in Australia. Renewable and Sustainable Energy Reviews, 2015, 51, 1375-1389.	8.2	46
101	A Comprehensive Review on Micro Grid Operation, Challenges and Control Strategies. , 2015, , .		9
102	Resource Networks: Decentralised Factory Operation Utilising Renewable Energy Sources. Procedia CIRP, 2015, 26, 486-491.	1.0	8
103	Operation and control strategies of integrated distributed energy resources: A review. Renewable and Sustainable Energy Reviews, 2015, 51, 1412-1420.	8.2	65
104	Consumption management in the Nord Pool region: A stability analysis. Applied Energy, 2015, 146, 239-246.	5.1	2
105	Ground source heat pumps as high efficient solutions for building space conditioning and for integration in smart grids. Energy Conversion and Management, 2015, 103, 991-1007.	4.4	76
106	Regulation of the buyers' distribution in management systems based on simultaneous auctions and intelligent agents. Expert Systems With Applications, 2015, 42, 8014-8026.	4.4	3
107	Demand response for home energy management system. International Journal of Electrical Power and Energy Systems, 2015, 73, 448-455.	3.3	95
108	On the application of multi-agent systems in buildings for improved building operations, performance and smart grid interaction — A survey. Renewable and Sustainable Energy Reviews, 2015, 50, 1405-1414.	8.2	61
109	A Survey of Home Energy Management for Residential Customers. , 2015, , .		14
110	Design of Microgrid Energy Supply and Management System with Economic Operation for Charging of Electric Vehicles. Advanced Materials Research, 2015, 1092-1093, 471-476.	0.3	0

#	ARTICLE	IF	CITATIONS
111	A stochastic model for scheduling energy flexibility in buildings. Energy, 2015, 88, 364-376.	4.5	70
112	Demand side management in China: The context of China's power industry reform. Renewable and Sustainable Energy Reviews, 2015, 47, 954-965.	8.2	99
113	Demand response modeling: A comparison between tools. Applied Energy, 2015, 146, 288-297.	5.1	67
114	A review on the state-of-the-art technologies of electric vehicle, its impacts and prospects. Renewable and Sustainable Energy Reviews, 2015, 49, 365-385.	8.2	718
115	Big Data Analytics for Dynamic Energy Management in Smart Grids. Big Data Research, 2015, 2, 94-101.	2.6	257
116	Control of Smart Grid Residential Buildings with Demand Response. Studies in Computational Intelligence, 2015, , 133-161.	0.7	4
117	Demand Response: From Classification to Optimization Techniques in Smart Grid. , 2015, , .		8
118	A heuristic approach to Active Demand Side Management in Off-Grid systems operated in a Smart-Grid environment. Energy and Buildings, 2015, 96, 272-284.	3.1	38
119	Distributed energy resources management using plug-in hybrid electric vehicles as a fuel-shifting demand response resource. Energy Conversion and Management, 2015, 97, 78-93.	4.4	64
120	A Survey on Demand Response in Smart Grids: Mathematical Models and Approaches. IEEE Transactions on Industrial Informatics, 2015, 11, 570-582.	7.2	724
121	Implementation of Directional Over-current Relay Coordination Approaches in Electrical Networks. Electric Power Components and Systems, 2015, 43, 2131-2145.	1.0	6
122	Droop based demand response for power systems management. , 2015, , .		3
123	Impact of Incentive Mechanism on Demand Response Programs in Smart Microgrids with Electric Vehicles. Intelligent Industrial Systems, 2015, 1, 245-254.	1.0	7
124	Robust scheduling of variable wind generation by coordination of bulk energy storages and demand response. Energy Conversion and Management, 2015, 106, 941-950.	4.4	59
125	SEMIAH: An Aggregator Framework for European Demand Response Programs. , 2015, , .		9
126	Security and privacy in the smart grid services. , 2015, , .		3
127	Designing an Energy Management System for smart houses. , 2015, , .		17
128	Participation of demand response resources through virtual power plant: A decision framework under uncertainty. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
129	Fairness-Aware Game Theoretic Approach for Demand Response in Microgrids. , 2015, , .		5
130	Enabling Automated Dynamic Demand Response. , 2015, , .		1
131	Scheduling Optimization of Smart Homes Based on Demand Response. IFIP Advances in Information and Communication Technology, 2015, , 223-236.	0.5	7
132	Hybrid ac/dc microgridsâ€™Part I: Review and classification of topologies. Renewable and Sustainable Energy Reviews, 2015, 52, 1251-1259.	8.2	264
133	A review of datasets and load forecasting techniques for smart natural gas and water grids: Analysis and experiments. Neurocomputing, 2015, 170, 448-465.	3.5	40
134	A Real-Time Demand-Response Algorithm for Smart Grids: A Stackelberg Game Approach. IEEE Transactions on Smart Grid, 2015, , 1-1.	6.2	156
135	A review on smart grids and experiences in Brazil. Renewable and Sustainable Energy Reviews, 2015, 52, 1072-1082.	8.2	64
136	Buildings in the future energy system â€™ Perspectives of the Swedish energy and buildings sectors on current energy challenges. Energy and Buildings, 2015, 107, 254-263.	3.1	10
137	Hybrid ac/dc microgridsâ€™Part II: Review and classification of control strategies. Renewable and Sustainable Energy Reviews, 2015, 52, 1123-1134.	8.2	178
138	Demand side management using profile steering. , 2015, , .		40
139	Numerical implementation of active power flow tracing methods: Practical implications on transmission networks and DR programs support. , 2015, , .		4
140	Performance Evaluation of Experimental Setups in Home Energy Management Systems in Smart Grid. , 2015, , .		1
141	Impact of economic dispatch in a smart distribution network considering demand response and power market. , 2015, , .		3
143	Optimal Operation of a Residential Microgrid: The Role of Demand Side Management. Intelligent Industrial Systems, 2015, 1, 61-82.	1.0	35
144	The Internet of Energy: Smart Sensor Networks and Big Data Management for Smart Grid. Procedia Computer Science, 2015, 56, 592-597.	1.2	168
145	Distribution system operation enhancement through household consumption coordination in a dynamic pricing environment. , 2015, , .		5
146	Flexible electricity tariffs: Power and energy price signals designed for a smarter grid. Energy, 2015, 93, 2568-2581.	4.5	48
147	Multi-agent signal filtering for electrical energy demand management. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
148	A Keyless Gossip Algorithm Providing Light-Weight Data Privacy for Prosumer Markets. , 2015, , .		3
149	Structure and classification of unified energy agents as a base for the systematic development of future energy grids. Engineering Applications of Artificial Intelligence, 2015, 41, 310-324.	4.3	18
150	A Review of Charge Scheduling of Electric Vehicles in Smart Grid. IEEE Systems Journal, 2015, 9, 1541-1553.	2.9	281
151	Chaos Modeling and Control Systems Design. Studies in Computational Intelligence, 2015, , .	0.7	136
152	Review of dynamic pricing programs in the U.S. and Europe: Status quo and policy recommendations. Renewable and Sustainable Energy Reviews, 2015, 42, 743-751.	8.2	122
153	Nonintrusive Load Monitoring: A Temporal Multilabel Classification Approach. IEEE Transactions on Industrial Informatics, 2015, 11, 262-270.	7.2	131
154	A Survey on Demand Response Programs in Smart Grids: Pricing Methods and Optimization Algorithms. IEEE Communications Surveys and Tutorials, 2015, 17, 152-178.	24.8	731
155	Evaluating the Impact of Registered Power Zones Incentive on Wind Systems Integration in Active Distribution Networks. IEEE Transactions on Industrial Informatics, 2015, 11, 523-530.	7.2	9
156	Heuristic-Based Shiftable Loads Optimal Management in Smart Micro-Grids. IEEE Transactions on Industrial Informatics, 2015, 11, 271-280.	7.2	147
157	Multi-apartment residential microgrid with electrical and thermal storage devices: Experimental analysis and simulation of energy management strategies. Applied Energy, 2015, 137, 854-866.	5.1	187
158	A Model for Wind Turbines Placement Within a Distribution Network Acquisition Market. IEEE Transactions on Industrial Informatics, 2015, 11, 210-219.	7.2	30
159	Demand-side management in smart grid operation considering electric vehicles load shifting and vehicle-to-grid support. International Journal of Electrical Power and Energy Systems, 2015, 64, 689-698.	3.3	180
160	A Review of Architectures and Concepts for Intelligence in Future Electric Energy Systems. IEEE Transactions on Industrial Electronics, 2015, 62, 2424-2438.	5.2	419
161	Comprehensive review of renewable energy curtailment and avoidance: A specific example in China. Renewable and Sustainable Energy Reviews, 2015, 41, 1067-1079.	8.2	151
162	An Effective Model for Demand Response Management Systems of Residential Electricity Consumers. IEEE Systems Journal, 2016, 10, 434-445.	2.9	62
163	Application of Wireless Sensor and Actuator Networks to Achieve Intelligent Microgrids: A Promising Approach towards a Global Smart Grid Deployment. Applied Sciences (Switzerland), 2016, 6, 61.	1.3	35
164	Increasing the Benefit from Cost-Minimizing Loads via Centralized Adjustments. Energies, 2016, 9, 983.	1.6	1
165	Integration Scenarios of Demand Response into Electricity Markets: Load Shifting, Financial Savings and Policy Implications. SSRN Electronic Journal, 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
166	Energy Management Algorithms in Smart Grids : State of the Art and Emerging Trends. International Journal of Artificial Intelligence & Applications, 2016, 7, 25-45.	0.3	6
167	Mind the Gap: Coordinating Energy Efficiency and Demand Response. SSRN Electronic Journal, 0, , .	0.4	6
168	Residential Demand Response Scheduling with Consideration of Consumer Preferences. Applied Sciences (Switzerland), 2016, 6, 16.	1.3	59
169	Harnessing the Flexibility of Thermostatic Loads in Microgrids with Solar Power Generation. Energies, 2016, 9, 547.	1.6	15
170	Indirect Load Control for Energy Storage Systems Using Incentive Pricing under Time-of-Use Tariff. Energies, 2016, 9, 558.	1.6	11
171	Robust Peak-Shaving for a Neighborhood with Electric Vehicles. Energies, 2016, 9, 594.	1.6	17
172	Dealing with Data Quality in Smart Home Environmentsâ€™ Lessons Learned from a Smart Grid Pilot. Journal of Sensor and Actuator Networks, 2016, 5, 5.	2.3	6
173	Robust day-ahead scheduling of smart distribution networks considering demand response programs. Applied Energy, 2016, 178, 929-942.	5.1	77
174	Regulatory and market barriers to the realization of demand response in electricity distribution networks: A European perspective. Electric Power Systems Research, 2016, 140, 689-698.	2.1	63
175	Can Photovoltaic Battery Energy Storage Systems Be Self-Balancing?. , 2016, , .		3
176	Design of smart grid integrated interactive terminal. , 2016, , .		0
177	Planning of on/off devices with minimum run-times. , 2016, , .		0
178	Approach on random weighted deep neural learning model for electricity customer classification. , 2016, , .		0
179	Intelligent energy forecasting based on the correlation between solar radiation and consumption patterns. , 2016, , .		4
180	Using demand-side management to decrease transformer ageing. , 2016, , .		3
181	A service provider model for demand response management. , 2016, , .		7
182	Implementing smart energy systems: Integrating load and price forecasting for single parameter based demand response. , 2016, , .		9
183	System frequency control using emergency demand response in power systems with large-scale Renewable Energy Sources. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
184	An optimal treatment assignment strategy to evaluate demand response effect. , 2016, , .		4
185	The digital transformation and smart data analytics: An overview of enabling developments and application areas. , 2016, , .		19
186	Cloud computing for energy management in smart grid - an application survey. IOP Conference Series: Materials Science and Engineering, 2016, 121, 012010.	0.3	25
187	Effective load scheduling of residential consumers based on dynamic pricing with price prediction capabilities. , 2016, , .		6
188	The analysis of distributed energy resource trading system for aggregate retail sales. , 2016, , .		1
189	A hierarchical architecture for an energy management system. , 2016, , .		3
190	Time-of-use pricing in retail electricity market: Step tariff vs. usage-based schemes. , 2016, , .		5
191	A review of demand response techniques in smart grids. , 2016, , .		19
192	Interaction of demand response and voltage stability in smart grids. , 2016, , .		1
193	A review on the virtual power plant: Components and operation systems. , 2016, , .		57
194	Balancing islanded residential microgrids using demand side management. , 2016, , .		6
195	Fast demand response with datacenter loads. , 2016, , .		4
196	Intelligent Buildings of the Future: Cyberaware, Deep Learning Powered, and Human Interacting. IEEE Industrial Electronics Magazine, 2016, 10, 32-49.	2.3	79
197	Building energy load forecasting using Deep Neural Networks. , 2016, , .		341
198	Customer behaviour and data analytics. , 2016, , .		13
199	Smart meter: Toward client centric energy efficient smartphone based solution. , 2016, , .		0
200	Electricity Tariffs Evaluation Using Smart Load Monitoring Devices for Residential Consumer. , 2016, , .		3
201	Incentive-based demand response approach for aggregated demand side participation. , 2016, , .		14

#	ARTICLE	IF	CITATIONS
202	Demand side management through LAB+i platform: Case study. , 2016, , .		1
203	Assessing the potential of residential HVAC systems for demand-side management. , 2016, , .		6
204	Design and Implementation of a Smart Meter with Demand Response Capabilities. Energy Procedia, 2016, 103, 195-200.	1.8	38
205	Design of power line communication based ICT for smart grids. , 2016, , .		5
206	A comparative study of low sampling non intrusive load dis-aggregation. , 2016, , .		12
207	On the convexity of Chernoff bound in the context of consumption admission control in smart grids. , 2016, , .		0
208	Sensors to Events: Semantic Modeling and Recognition of Events from Data Streams. International Journal of Semantic Computing, 2016, 10, 461-501.	0.4	7
209	Privacy-Driven Electricity Group Demand Response in Smart Cities Using Particle Swarm Optimization. , 2016, , .		9
210	Energy management service layer for cloud computing costs reduction. , 2016, , .		0
211	Virtual Storages as Theoretically Motivated Demand Response Models for Enhanced Smart Grid Operations. Energy Technology, 2016, 4, 163-176.	1.8	6
212	Economic benefits of integrating Active Demand in distribution network planning: A Spanish case study. Electric Power Systems Research, 2016, 136, 331-340.	2.1	17
213	Demand Side Management Energy Management System for Distributed Networks. IFIP Advances in Information and Communication Technology, 2016, , 455-471.	0.5	2
214	Achieving an optimal trade-off between revenue and energy peak within a smart grid environment. Renewable Energy, 2016, 91, 293-301.	4.3	24
215	Attaining a sustainable competitive advantage in the smart grid industry of China using suitable open innovation intermediaries. Renewable and Sustainable Energy Reviews, 2016, 62, 1083-1091.	8.2	19
216	Assessing energy business cases implemented in the North Sea Region and strategy recommendations. Applied Energy, 2016, 172, 360-371.	5.1	13
217	A novel hybrid algorithm for electricity price and load forecasting in smart grids with demand-side management. Applied Energy, 2016, 177, 40-59.	5.1	160
218	Ant Colony Optimization Based Energy Management Controller for Smart Grid. , 2016, , .		27
219	Demand Side Management for heating controls in Microgrids. IFAC-PapersOnLine, 2016, 49, 611-616.	0.5	17

#	ARTICLE	IF	CITATIONS
220	A novel method for evaluating the impact of residential demand response in a real time distribution energy market. Journal of Ambient Intelligence and Humanized Computing, 2016, 7, 533-545.	3.3	8
221	Demand side flexibility: Potentials and building performance implications. Sustainable Cities and Society, 2016, 22, 146-163.	5.1	114
222	Defending against strategic adversaries in dynamic pricing markets for smart grids. , 2016, , .		3
223	Computational Methods for Residential Energy Cost Optimization in Smart Grids. ACM Computing Surveys, 2017, 49, 1-34.	16.1	27
224	The optimization of demand response programs in smart grids. Energy Policy, 2016, 94, 295-306.	4.2	108
225	Planning and Scheduling for Industrial Demand Side Management: Advances and Challenges. , 2016, , 383-414.		33
226	Modeling of Consumption Data for Forecasting in Automated Metering Infrastructure (AMI) Systems. Advances in Intelligent Systems and Computing, 2016, , 165-173.	0.5	5
227	The effect of demand response on purchase intention of distributed generation: Evidence from Japan. Energy Policy, 2016, 94, 307-316.	4.2	15
228	Allocation of fixed costs considering Distributed Generation and distinct approaches of Demand Response remuneration in distribution networks. , 2016, , .		3
229	Stochastic operational scheduling of distributed energy resources in a large scale virtual power plant. International Journal of Electrical Power and Energy Systems, 2016, 82, 608-620.	3.3	104
230	Aspects of balanced development of RES and distributed micro-cogeneration use in Poland: Case study of a μ CHP with Stirling engine. Renewable and Sustainable Energy Reviews, 2016, 60, 930-952.	8.2	49
231	Field testing of demand side management via autonomous optimal control of a domestic hot water heater. Energy and Buildings, 2016, 127, 730-735.	3.1	37
232	SoS-based multiobjective distribution system expansion planning. Electric Power Systems Research, 2016, 141, 392-406.	2.1	52
233	Bi-level Demand Response Game with Information Sharing among Consumers**The work is supported in part by Alberta Innovates Technology Futures (AITF) postdoctoral fellowship.. IFAC-PapersOnLine, 2016, 49, 663-668.	0.5	7
234	Inertial and frequency response of microgrids with induction motors. , 2016, , .		3
235	Design of a risk-averse decision making tool for smart distribution network operators under severe uncertainties: An IGDT-inspired augment μ -constraint based multi-objective approach. Energy, 2016, 116, 214-235.	4.5	49
236	Common three phase active power definition and its questionable suitability for the smart grid meters. , 2016, , .		1
237	A Bayesian-based approach for the short-term forecasting of electrical loads in smart grids.: Part II: numerical applications. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
238	Quantifying electric vehicle battery degradation from driving vs. vehicle-to-grid services. Journal of Power Sources, 2016, 332, 193-203.	4.0	198
239	Power-based distribution tariff structure: DSO's perspective. , 2016, , .		6
240	A Bayesian-based approach for the short-term forecasting of electrical loads in smart grids.: Part I: theoretical aspects. , 2016, , .		5
241	Assessing demand side flexibility with renewable energy resources. , 2016, , .		9
242	A survey of industrial applications of Demand Response. Electric Power Systems Research, 2016, 141, 31-49.	2.1	206
243	Smart grid customers' acceptance and engagement: An overview. Renewable and Sustainable Energy Reviews, 2016, 65, 1285-1298.	8.2	116
244	Model Predictive Control for Energy and Climate Management of a Subway Station Thermo-electrical Microgrid. Transportation Research Procedia, 2016, 14, 926-935.	0.8	6
245	Integration scenarios of Demand Response into electricity markets: Load shifting, financial savings and policy implications. Energy Policy, 2016, 96, 231-240.	4.2	48
246	Ten questions concerning integrating smart buildings into the smart grid. Building and Environment, 2016, 108, 273-283.	3.0	112
247	Pricing of demand flexibility: Exploring the impact of Electric Vehicle customer diversity. , 2016, , .		3
248	A novel microgrid based resilient Demand Response scheme in smart grid. , 2016, , .		2
249	Exploiting heuristic algorithms to efficiently utilize energy management controllers with renewable energy sources. Energy and Buildings, 2016, 129, 452-470.	3.1	257
250	Distribution Network Operation Under Uncertainty Using Information Gap Decision Theory. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	16
251	Smart grid technologies and applications. Renewable and Sustainable Energy Reviews, 2016, 66, 499-516.	8.2	181
252	Optimal Demand Response Programs for improving the efficiency of day-ahead electricity markets using a multi attribute decision making approach. , 2016, , .		7
253	Consumer-aware load control to provide contingency reserves using frequency measurements and inter-load communication. , 2016, , .		6
254	Allocation of demand response resources: toward an effective contribution to power system voltage stability. IET Generation, Transmission and Distribution, 2016, 10, 4169-4177.	1.4	29
255	Optimal Dispatch of Responsive Loads and Generic Energy Storage Units in a Co-Optimized Energy and Reserve Market for Smart Power Systems. Electric Power Components and Systems, 2016, 44, 2285-2297.	1.0	5

#	ARTICLE	IF	CITATIONS
256	A bilevel optimization approach to demand response management for the smart grid. , 2016, , .		9
257	Considering grid limitations in profile steering. , 2016, , .		3
258	IoT-Bus for micro-grid control and local energy management based on the IEEE Std. 802.15.4. Electrical Engineering, 2016, 98, 363-368.	1.2	4
259	IoT-based smart cities: A survey. , 2016, , .		286
260	Emerging smart metering trends and integration at MV-LV level. , 2016, , .		6
261	The economic impact of demand response on distribution network planning. , 2016, , .		5
262	Generation of flexible domestic load profiles to evaluate Demand Side Management approaches. , 2016, , .		40
263	Estimating treatment effects in demand response. , 2016, , .		0
264	Evaluating price-based demand response in practice - with application to the EcoGrid EU Experiment. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	21
265	Residential demand response scheme based on adaptive consumption level pricing. Energy, 2016, 113, 301-308.	4.5	50
266	Priority and delay constrained demand side management in real-time price environment with renewable energy source. International Journal of Energy Research, 2016, 40, 2002-2021.	2.2	56
267	Vehicle-to-Grid Networks: Issues and Challenges. , 2016, , 347-369.		5
268	A hybrid Genetic Algorithm and Monte Carlo simulation approach to predict hourly energy consumption and generation by a cluster of Net Zero Energy Buildings. Applied Energy, 2016, 179, 626-637.	5.1	58
269	Collaborative smart grids â€” A survey on trends. Renewable and Sustainable Energy Reviews, 2016, 65, 283-294.	8.2	116
270	Modeling and analysis of residential flexibility: Timing of white good usage. Applied Energy, 2016, 179, 790-805.	5.1	30
271	Impact of renewable generation on voltage control in distribution systems. Renewable and Sustainable Energy Reviews, 2016, 65, 770-783.	8.2	133
273	Optimal operation of smart distribution networks: A review of models, methods and future research. Electric Power Systems Research, 2016, 140, 95-106.	2.1	116
274	Big Data Analytics Platforms for Real-Time Applications in IoT. , 2016, , 115-135.		7

#	ARTICLE	IF	CITATIONS
275	Sustainability through Intelligent Scheduling of Electric Water Heaters in a Smart Grid. , 2016, , .		12
276	A data analytical approach using support vector machine for demand response management in smart grid. , 2016, , .		13
277	An energy monitoring and management system based on key performance indicators. , 2016, , .		4
278	Empirical analysis of real time pricing mechanisms for demand side management: contemporary review. , 2016, , .		5
279	Multi-modal Building Energy Management System for Residential Demand Response. , 2016, , .		2
280	Design of an Event-Driven Residential Demand Response Infrastructure. , 2016, , .		3
281	Smart grid demand response management using internet of things for load shedding and smart-direct load control. , 2016, , .		18
282	Reconfiguration of Distributed Generation scheduling to increase demand response integration. , 2016, , .		1
283	Hardware-in-the-Loop co-simulation of distribution Grid for demand response. , 2016, , .		15
284	Method for an Energy-Cost-Oriented Manufacturing Control to Reduce Energy Costs: Energy Cost Reduction by Using a New Sequencing Method. , 2016, , .		6
285	Vulnerability mitigation of transmission line outages using demand response approach with distribution factors. , 2016, , .		1
286	Enterprise-wide optimization for industrial demand side management: Fundamentals, advances, and perspectives. Chemical Engineering Research and Design, 2016, 116, 114-131.	2.7	112
287	Foundations of Infrastructure-CPS. , 2016, , .		8
288	An efficient consumption optimisation for dense neighbourhood area demand management. , 2016, , .		0
289	Performance Analysis of Advanced Metering Infrastructure with Multihop Hybrid Communication System. , 2016, , .		1
290	Building demand response and control methods for smart grids: A review. Science and Technology for the Built Environment, 2016, 22, 692-704.	0.8	40
291	Demand Side Response Modeling with Controller Design Using Aggregate Air Conditioning Loads and Particle Swarm Optimization. Advances in Intelligent Systems and Computing, 2016, , 573-581.	0.5	2
292	Model Predictive Control Based Demand Response for Optimization of Residential Energy Consumption. Electric Power Components and Systems, 2016, 44, 1177-1187.	1.0	4

#	ARTICLE	IF	CITATIONS
293	Demand response potential of model predictive control of space heating based on price and carbon dioxide intensity signals. <i>Energy and Buildings</i> , 2016, 125, 196-204.	3.1	79
294	Optimal pricing in time of use demand response by integrating with dynamic economic dispatch problem. <i>Energy</i> , 2016, 109, 1086-1094.	4.5	60
296	Dynamic Energy Management on a Hydro-Powered Smart Microgrid. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 627-635.	0.5	10
297	Energy Storage Sharing in Smart Grid: A Modified Auction-Based Approach. <i>IEEE Transactions on Smart Grid</i> , 2016, 7, 1462-1475.	6.2	268
298	A review of residential demand response of smart grid. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 166-178.	8.2	382
299	Distributed generation: A review of factors that can contribute most to achieve a scenario of DG units embedded in the new distribution networks. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 59, 1130-1148.	8.2	139
300	Value streams in microgrids: A literature review. <i>Applied Energy</i> , 2016, 162, 980-989.	5.1	192
301	Preserving privacy and efficiency in data communication and aggregation for AMI network. <i>Journal of Network and Computer Applications</i> , 2016, 59, 333-344.	5.8	36
302	Smart metering trends, implications and necessities: A policy review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 227-233.	8.2	67
303	Barriers and Solutions to Smart Water Grid Development. <i>Environmental Management</i> , 2016, 57, 509-515.	1.2	27
304	Decision model for sustainable electricity procurement using nationwide demand response. , 2016, , .		4
305	Demand response potential of ventilation systems in residential buildings. <i>Energy and Buildings</i> , 2016, 121, 1-10.	3.1	66
307	Energy efficient cloud service pricing: A two-timescale optimization approach. <i>Journal of Network and Computer Applications</i> , 2016, 64, 98-112.	5.8	12
308	End user perceptions toward smart grid technology: Acceptance, adoption, risks, and trust. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 587-598.	8.2	41
309	Multi-agent based Demand Response management system for combined operation of smart microgrids. <i>Sustainable Energy, Grids and Networks</i> , 2016, 6, 25-34.	2.3	49
310	End User Research in PowerMatching City II. <i>Power Systems</i> , 2016, , 269-283.	0.3	1
311	Energy savings from temperature setpoints and deadband: Quantifying the influence of building and system properties on savings. <i>Applied Energy</i> , 2016, 165, 930-942.	5.1	145
312	Role of smart grid in renewable energy: An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 1168-1184.	8.2	265

#	ARTICLE	IF	CITATIONS
313	Thermal comfort evaluation for mechanically conditioned buildings using response surfaces in an uncertainty analysis framework. <i>Science and Technology for the Built Environment</i> , 2016, 22, 140-152.	0.8	12
314	Business models as drivers of the low carbon power system transition: a multi-level perspective. <i>Journal of Cleaner Production</i> , 2016, 126, 572-585.	4.6	118
315	Incorporating price-responsive customers in day-ahead scheduling of smart distribution networks. <i>Energy Conversion and Management</i> , 2016, 115, 103-116.	4.4	38
316	Negotiating the urban smart grid: Socio-technical experimentation in the city of Austin. <i>Urban Studies</i> , 2016, 53, 3246-3263.	2.2	57
317	A fuzzy clustering approach to a demand response model. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 81, 184-192.	3.3	22
318	Smart plugs: Perceived usefulness and satisfaction: Evidence from United Arab Emirates. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 55, 1248-1259.	8.2	40
319	A survey on smart metering and smart grid communication. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 302-318.	8.2	477
320	A demand response modeling for residential consumers in smart grid environment using game theory based energy scheduling algorithm. <i>Ain Shams Engineering Journal</i> , 2016, 7, 835-845.	3.5	63
321	Dynamic residential load scheduling based on adaptive consumption level pricing scheme. <i>Electric Power Systems Research</i> , 2016, 133, 27-35.	2.1	39
322	Supply demand balancing for power management in smart grid: A Stackelberg game approach. <i>Applied Energy</i> , 2016, 164, 702-710.	5.1	195
323	An aggregated model for coordinated planning and reconfiguration of electric distribution networks. <i>Energy</i> , 2016, 94, 786-798.	4.5	50
324	The rise of AGILE demand response: Enabler and foundation for change. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 686-693.	8.2	13
325	An IoT-based energy-management platform for industrial facilities. <i>Applied Energy</i> , 2016, 164, 607-619.	5.1	93
326	Optimal operation of microgrids through simultaneous scheduling of electrical vehicles and responsive loads considering wind and PV units uncertainties. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 721-739.	8.2	129
327	Flexibility in future power systems with high renewable penetration: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 57, 1186-1193.	8.2	276
328	Mobile social media for smart grids customer engagement: Emerging trends and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 1611-1616.	8.2	84
329	Assessing the benefits of residential demand response in a real time distribution energy market. <i>Applied Energy</i> , 2016, 161, 533-551.	5.1	232
330	A survey on the critical issues in smart grid technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 396-405.	8.2	216

#	ARTICLE	IF	CITATIONS
331	Optimal DR and ESS Scheduling for Distribution Losses Payments Minimization Under Electricity Price Uncertainty. IEEE Transactions on Smart Grid, 2016, 7, 261-272.	6.2	131
332	Coordinated energy management for inter-community imbalance minimization. Renewable Energy, 2016, 87, 922-935.	4.3	16
333	How is value created and captured in smart grids? A review of the literature and an analysis of pilot projects. Renewable and Sustainable Energy Reviews, 2016, 53, 629-638.	8.2	92
334	A nonlinear control method for price-based demand response program in smart grid. International Journal of Electrical Power and Energy Systems, 2016, 74, 322-328.	3.3	12
335	Utility Oriented Demand Side Management Using Smart AC and Micro DC Grid Cooperative. IEEE Transactions on Power Systems, 2016, 31, 1151-1160.	4.6	69
336	Distributed Charge Scheduling of Plug-In Electric Vehicles Using Inter-Aggregator Collaboration. IEEE Transactions on Smart Grid, 2017, 8, 331-341.	6.2	80
337	Consensus-Based Energy Management in Smart Grid With Transmission Losses and Directed Communication. IEEE Transactions on Smart Grid, 2017, 8, 2049-2061.	6.2	206
338	Study on the promotion impact of demand response on distributed PV penetration by using non-cooperative game theoretical analysis. Applied Energy, 2017, 185, 1869-1878.	5.1	52
339	A concise, approximate representation of a collection of loads described by polytopes. International Journal of Electrical Power and Energy Systems, 2017, 84, 55-63.	3.3	45
340	Improving the reliability of wireless data communication in Smart Grid NAN. Peer-to-Peer Networking and Applications, 2017, 10, 1021-1033.	2.6	5
341	A systematic review of environmental and economic impacts of smart grids. Renewable and Sustainable Energy Reviews, 2017, 68, 888-898.	8.2	107
342	Day-ahead stochastic economic dispatch of wind integrated power system considering demand response of residential hybrid energy system. Applied Energy, 2017, 190, 1126-1137.	5.1	97
343	A control framework for the utilization of heating load flexibility in a day-ahead market. Electric Power Systems Research, 2017, 145, 44-54.	2.1	31
344	A review on Demand-side tools in electricity market. Renewable and Sustainable Energy Reviews, 2017, 72, 565-572.	8.2	82
345	Information gap decision theory approach to deal with wind power uncertainty in unit commitment. Electric Power Systems Research, 2017, 145, 137-148.	2.1	114
346	Enhancing smart grid with microgrids: Challenges and opportunities. Renewable and Sustainable Energy Reviews, 2017, 72, 205-214.	8.2	343
347	Review and classification of barriers and enablers of demand response in the smart grid. Renewable and Sustainable Energy Reviews, 2017, 72, 57-72.	8.2	211
348	A generic data driven approach for low sampling load disaggregation. Sustainable Energy, Grids and Networks, 2017, 9, 118-127.	2.3	19

#	ARTICLE	IF	CITATIONS
349	Demand Side Management in Microgrids for Load Control in Nearly Zero Energy Buildings. IEEE Transactions on Industry Applications, 2017, 53, 1769-1779.	3.3	75
350	Fuel cell electric vehicle as a power plant: Fully renewable integrated transport and energy system design and analysis for smart city areas. International Journal of Hydrogen Energy, 2017, 42, 8166-8196.	3.8	78
351	Evaluating the effects of social interactions on a distributed demand side management system for domestic appliances. Energy Efficiency, 2017, 10, 1175-1188.	1.3	9
352	Optimal coordination of air conditioning system and personal fans for building energy efficiency improvement. Energy and Buildings, 2017, 141, 308-320.	3.1	29
353	Adaptive intelligent techniques for microgrid control systems: A survey. International Journal of Electrical Power and Energy Systems, 2017, 90, 292-305.	3.3	110
354	Development of Smart Grid System in India: A Survey. Lecture Notes in Electrical Engineering, 2017, , 275-285.	0.3	4
355	Real-time electricity pricing for industrial customers: Survey and case studies in the United States. Applied Energy, 2017, 195, 1023-1037.	5.1	75
356	Towards the next generation of smart grids: Semantic and holonic multi-agent management of distributed energy resources. Renewable and Sustainable Energy Reviews, 2017, 77, 193-214.	8.2	201
357	Analysis of power quality improvement in smart grids. , 2017, , .		19
358	Smart demand response in China: Challenges and drivers. Energy Policy, 2017, 107, 1-10.	4.2	42
359	Multi-agent-based sharing power economy for a smart community. International Journal of Energy Research, 2017, 41, 2074-2090.	2.2	24
360	Random Fuzzy Optimization Model for Short-Term Hydropower Scheduling Considering Uncertainty of Power Load. Water Resources Management, 2017, 31, 2713-2728.	1.9	8
361	Evaluating the benefits of coordinated emerging flexible resources in electricity markets. Applied Energy, 2017, 199, 142-154.	5.1	40
362	A review on implementation strategies for demand side management (DSM) in Kuwait through incentive-based demand response programs. Renewable and Sustainable Energy Reviews, 2017, 77, 617-635.	8.2	89
363	An optimal day-ahead load scheduling approach based on the flexibility of aggregate demands. Applied Energy, 2017, 198, 1-11.	5.1	96
364	Addressing Technology Uncertainties in Battery Energy Storage Sizing Procedures. International Journal of Emerging Electric Power Systems, 2017, 18, .	0.6	3
365	Big Data management in smart grid: concepts, requirements and implementation. Journal of Big Data, 2017, 4, .	6.9	128
366	On heat pumps in smart grids: A review. Renewable and Sustainable Energy Reviews, 2017, 70, 342-357.	8.2	292

#	ARTICLE	IF	CITATIONS
367	Optimization-based identification and quantification of demand-side management potential for distributed energy supply systems. <i>Energy</i> , 2017, 135, 889-899.	4.5	20
368	Multi objective stochastic microgrid scheduling incorporating dynamic voltage restorer. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 93, 316-327.	3.3	46
369	Supporting involvement of electric vehicles in distribution grids: Lowering the barriers for a proactive integration. <i>Energy</i> , 2017, 134, 458-468.	4.5	78
370	Coordinated microgrid investment and planning process considering the system operator. <i>Applied Energy</i> , 2017, 200, 132-140.	5.1	29
371	Green lift: Exploring the demand response potential of elevators in Danish buildings. <i>Energy Research and Social Science</i> , 2017, 32, 55-64.	3.0	14
372	Resource allocation problems in decentralized energy management. <i>OR Spectrum</i> , 2017, 39, 749-773.	2.1	20
373	A dynamic model for the energy management of microgrid-enabled production systems. <i>Journal of Cleaner Production</i> , 2017, 164, 816-830.	4.6	29
374	Incentive-based demand response considering hierarchical electricity market: A Stackelberg game approach. <i>Applied Energy</i> , 2017, 203, 267-279.	5.1	157
375	Advances in Practical Applications of Cyber-Physical Multi-Agent Systems: The PAAMS Collection. <i>Lecture Notes in Computer Science</i> , 2017, , .	1.0	2
376	Application-Specific Residential Microgrid Design Methodology. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2017, 22, 1-21.	1.9	4
377	Dynamic programming and genetic algorithms to control an HVAC system: Maximizing thermal comfort and minimizing cost with PV production and storage. <i>Sustainable Cities and Society</i> , 2017, 34, 228-238.	5.1	45
378	Security Vulnerabilities of Internet of Things: A Case Study of the Smart Plug System. <i>IEEE Internet of Things Journal</i> , 2017, 4, 1899-1909.	5.5	150
379	Investigation of demand response potentials of residential air conditioners in smart grids using grey-box room thermal model. <i>Applied Energy</i> , 2017, 207, 324-335.	5.1	87
380	A review of demand-side management: Reconsidering theoretical framework. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 80, 367-379.	8.2	157
381	Valuation of measurement data for low voltage network expansion planning. <i>Electric Power Systems Research</i> , 2017, 151, 59-67.	2.1	10
382	An Intelligent Load Management System With Renewable Energy Integration for Smart Homes. <i>IEEE Access</i> , 2017, 5, 13587-13600.	2.6	149
383	Ten questions concerning smart districts. <i>Building and Environment</i> , 2017, 118, 362-376.	3.0	43
384	Communication Methods for Smart Buildings and Nearly Zero-Energy Buildings. <i>Lecture Notes in Energy</i> , 2017, , 459-489.	0.2	2

#	ARTICLE	IF	CITATIONS
385	Meeting the Modeling Needs of Future Energy Systems. Energy Technology, 2017, 5, 1007-1025.	1.8	16
386	Demand-driven biogas production by flexible feeding in full-scale““Process stability and flexibility potentials. Anaerobe, 2017, 46, 86-95.	1.0	55
387	Demand response aggregator coordinated two-stage responsive load scheduling in distribution system considering customer behaviour. IET Generation, Transmission and Distribution, 2017, 11, 1023-1032.	1.4	27
388	An overview of Demand Response: Key-elements and international experience. Renewable and Sustainable Energy Reviews, 2017, 69, 871-891.	8.2	418
389	Multicriteria decision making for resource management in renewable energy assisted microgrids. Renewable and Sustainable Energy Reviews, 2017, 71, 323-341.	8.2	37
390	A flexible control strategy of plug-in electric vehicles operating in seven modes for smoothing load power curves in smart grid. Energy, 2017, 118, 197-208.	4.5	45
391	A review of optimal power flow studies applied to smart grids and microgrids. Renewable and Sustainable Energy Reviews, 2017, 71, 742-766.	8.2	164
392	Decentralized price-driven grid balancing via repurposed electric vehicle batteries. Energy, 2017, 118, 446-455.	4.5	11
393	Smart Grid for the Smart City. , 2017, , 241-263.		10
394	Distributed Charging Control of Electric Vehicles Using Online Learning. IEEE Transactions on Automatic Control, 2017, 62, 5289-5295.	3.6	26
395	An Accurate and Fast Converging Short-Term Load Forecasting Model for Industrial Applications in a Smart Grid. IEEE Transactions on Industrial Informatics, 2017, 13, 2587-2596.	7.2	107
396	Reputation-based joint scheduling of households appliances and storage in a microgrid with a shared battery. Energy and Buildings, 2017, 138, 228-239.	3.1	82
397	Demand side flexibility coordination in office buildings: A framework and case study application. Sustainable Cities and Society, 2017, 29, 139-158.	5.1	34
398	Congestion management with demand response considering uncertainties of distributed generation outputs and market prices. Journal of Modern Power Systems and Clean Energy, 2017, 5, 66-78.	3.3	40
399	Opportunities and challenges in control of smart grids “ Pakistani perspective. Renewable and Sustainable Energy Reviews, 2017, 71, 652-674.	8.2	50
401	Energy in buildings“Policy, materials and solutions. MRS Energy & Sustainability, 2017, 4, 1.	1.3	19
402	IoT based smart home: Security challenges, security requirements and solutions. , 2017, , .		61
403	A Robust Optimization for Day-ahead Microgrid Dispatch Considering Uncertainties. IFAC-PapersOnLine, 2017, 50, 3350-3355.	0.5	11

#	ARTICLE	IF	CITATIONS
404	Development of an optimization algorithm for the energy management of an industrial Smart User. Applied Energy, 2017, 208, 1468-1486.	5.1	21
405	Recent advances in the analysis of residential electricity consumption and applications of smart meter data. Applied Energy, 2017, 208, 402-427.	5.1	176
407	Implementation of a building energy management system for residential demand response. Microprocessors and Microsystems, 2017, 55, 100-110.	1.8	26
408	Load Shedding and Smart-Direct Load Control Using Internet of Things in Smart Grid Demand Response Management. IEEE Transactions on Industry Applications, 2017, 53, 5155-5163.	3.3	159
409	Electricity prices and industrial competitiveness: A case study of final assembly automobile manufacturing in the United States and Canada. Energy Policy, 2017, 111, 32-40.	4.2	4
410	On integrating device level schedules into market based control. , 2017, , .		1
411	Power and Performance Estimation for Fine-Grained Server Power Capping via Controlling Heterogeneous Applications. ACM Transactions on Management Information Systems, 2017, 8, 1-19.	2.1	1
412	Towards a Concept of Cooperating Power Network for Energy Management and Control of Microgrids. , 2017, , 231-262.		7
413	Incorporation of demand response programs and wind turbines in optimal scheduling of smart distribution networks: A case study. , 2017, , .		2
414	Frequency Control Method using Automated Demand Response for Isolated Power System with Renewable Energy Sources. International Journal of Emerging Electric Power Systems, 2017, 18, .	0.6	3
415	Energy conservation through flexible HVAC management in large spaces: An IPS-based demand-driven control (IDC) system. Automation in Construction, 2017, 83, 91-107.	4.8	24
416	Multi-market demand response using economic model predictive control of space heating in residential buildings. Energy and Buildings, 2017, 150, 253-261.	3.1	46
417	Study on day-ahead optimal economic operation of active distribution networks based on Kriging model assisted particle swarm optimization with constraint handling techniques. Applied Energy, 2017, 204, 143-162.	5.1	32
418	Residential demand response: Experimental evaluation and comparison of self-organizing techniques. Renewable and Sustainable Energy Reviews, 2017, 80, 1528-1536.	8.2	33
419	Defining a day-ahead spot market for unbundled time-specific renewable energy certificates. , 2017, , .		4
420	Very short term forecasting in global solar irradiance using linear and nonlinear models. , 2017, , .		11
421	A new method for cost-effective demand response strategy for apartment-type factory buildings. Energy and Buildings, 2017, 151, 275-282.	3.1	15
422	Achieving high renewable energy penetration in Western Australia using data digitisation and machine learning. Renewable and Sustainable Energy Reviews, 2017, 80, 1537-1543.	8.2	19

#	ARTICLE	IF	CITATIONS
423	Analysis of Industrial Electricity Consumption Flexibility. Assessment of Saving Potential in Latvia and Kazakhstan. Energy Procedia, 2017, 113, 450-453.	1.8	6
424	Multi-objective demand response to real-time prices (RTP) using a task scheduling methodology. Energy, 2017, 138, 19-31.	4.5	57
425	Asynchronous event driven distributed energy management using profile steering. , 2017, , .		6
426	A smart energy management system for residential use. , 2017, , .		5
427	Energy markets: changes toward decarbonization and valorization. Current Opinion in Chemical Engineering, 2017, 17, 61-67.	3.8	2
428	Deep neural networks for energy load forecasting. , 2017, , .		207
429	Flexibility assessment indicator for aggregate residential demand. , 2017, , .		6
430	An efficient linear model for optimal day ahead scheduling of CHP units in active distribution networks considering load commitment programs. Energy, 2017, 139, 798-817.	4.5	37
431	On the value of device flexibility in smart grid applications. , 2017, , .		1
432	Day Ahead Scheduling to Optimize Industrial HVAC Energy Cost Based ON Peak/OFF-Peak Tariff and Weather Forecasting. IEEE Access, 2017, 5, 21684-21693.	2.6	18
433	Retail Energy Management in Electricity Markets: Structure, Challenges and Economic Aspects- a Review. Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	1.8	24
434	Combining real-time processing streams to enable demand response in smart grids. , 2017, , .		0
435	Optimum sizing of storage and charging strategy for GridConnected photo-voltaic system. , 2017, , .		1
436	Demand-Side Flexibility and Supply-Side Management: The Use Case of Data Centers and Energy Utilities. Service Science: Research and Innovations in the Service Economy, 2017, , 187-204.	1.1	1
437	Virtual energy storage through decentralized load control with quality of service bounds. , 2017, , .		4
438	Planning low-carbon electricity systems under uncertainty considering operational flexibility and smart grid technologies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160305.	1.6	35
439	Aggregation of small loads for demand response programs – Implementation and challenges: A review. , 2017, , .		20
440	Weather forecast based scheduling for demand response optimization in smart grids. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
441	Profiting from attacks on real-time price communications in smart grids. , 2017, , .		3
442	Optimizing HVAC Energy Usage in Industrial Processes by Scheduling Based on Weather Data. IEEE Access, 2017, 5, 11228-11235.	2.6	18
443	Sharing demand-side energy resources - A conceptual design. Energy, 2017, 135, 455-465.	4.5	37
444	Trusted Interconnections Between a Centralized Controller and Commercial Building HVAC Systems for Reliable Demand Response. IEEE Access, 2017, 5, 11063-11073.	2.6	18
445	Hour-Ahead Price Based Energy Management Scheme for Industrial Facilities. IEEE Transactions on Industrial Informatics, 2017, 13, 2886-2898.	7.2	68
446	Energy efficient HVAC control for an IPS-enabled large space in commercial buildings through dynamic spatial occupancy distribution. Applied Energy, 2017, 207, 305-323.	5.1	55
447	Load Following of Multiple Heterogeneous TCL Aggregators by Centralized Control. IEEE Transactions on Power Systems, 2017, 32, 3157-3167.	4.6	80
448	A survey on behind the meter energy management systems in smart grid. Renewable and Sustainable Energy Reviews, 2017, 72, 1208-1232.	8.2	96
449	Battery Energy Storage System battery durability and reliability under electric utility grid operations: Analysis of 3 years of real usage. Journal of Power Sources, 2017, 338, 65-73.	4.0	67
450	Short-Term Congestion Management by Strategic Application of FACTS Devices and Demand Response Programs Under Contingency Conditions. IETE Journal of Research, 2017, 63, 109-123.	1.8	4
451	Home Energy Management Systems: A Review of Modelling and Complexity. Lecture Notes in Energy, 2017, , 753-793.	0.2	41
452	A bottom-up approach for demand response aggregatorsâ€™ participation in electricity markets. Electric Power Systems Research, 2017, 143, 121-129.	2.1	105
453	Distribution networks' energy losses versus hosting capacity of wind power in the presence of demand flexibility. Renewable Energy, 2017, 102, 316-325.	4.3	55
454	Comparison of smart grid architectures for monitoring and analyzing power grid data via Modbus and REST. Eurasip Journal on Embedded Systems, 2017, 2017, .	1.2	21
455	Advances and New Trends in Environmental Informatics. Progress in IS, 2017, , .	0.5	4
456	Monitoring and managing of a micro-smart grid for renewable sources exploitation in an agro-industrial site. Sustainable Cities and Society, 2017, 28, 88-100.	5.1	26
457	Critical kick-back mitigation through improved design of demand response. Applied Thermal Engineering, 2017, 114, 1507-1514.	3.0	6
458	A review of Internet of Things for smart home: Challenges and solutions. Journal of Cleaner Production, 2017, 140, 1454-1464.	4.6	964

#	ARTICLE	IF	CITATIONS
459	Impacts of domestic electric water heater parameters on demand response. Computer Science - Research and Development, 2017, 32, 49-64.	2.7	5
460	Vehicle-to-Grid Networks. , 2017, , 347-369.		1
461	Optimal day ahead scheduling of combined heat and power units with electrical and thermal storage considering security constraint of power system. Energy, 2017, 120, 241-252.	4.5	67
462	Demand side load management system for end user in micro grid. , 2017, , .		0
463	The energy router project: Enabling control for prosumers. , 2017, , .		2
464	A new customer-side demand response strategy in block bidding markets. , 2017, , .		1
465	Market-based mechanisms for smart grid management: Necessity, applications and opportunities. , 2017, , .		3
466	M2M home data interoperable management system based on MQTT. , 2017, , .		12
467	Different smart grid frameworks in context of smart neighborhood: A review. , 2017, , .		6
468	Sustainable Transportation with Electric Vehicles. Foundations and Trends in Electric Energy Systems, 2017, 2, 1-132.	2.5	8
469	Demand side management in the smart grid: An efficiency and fairness tradeoff. , 2017, , .		8
470	Implementation of a dynamic energy management system using real time pricing and local renewable energy generation forecasts. Energy, 2017, 134, 206-220.	4.5	58
471	Mining typical load profiles in buildings to support energy management in the smart city context. Energy Procedia, 2017, 134, 865-874.	1.8	38
472	Evaluation of demand-side management application based on human activity schedules. , 2017, , .		1
473	The promise of DSM in smart grid using home energy management system with renewable integration. , 2017, , .		3
474	Practical and theoretical potential of demand side management in SMEs to balance wind power. CIRED - Open Access Proceedings Journal, 2017, 2017, 1931-1934.	0.1	1
475	Optimal appliances scheduling for demand response strategy in smart home. , 2017, , .		7
476	Data-driven demand response modeling and control of buildings with Gaussian Processes. , 2017, , .		23

#	ARTICLE	IF	CITATIONS
477	Threshold based scheduling of residential distributed energy resources for demand response. , 2017, , .		0
478	Charging electric vehicles, baking pizzas, and melting a fuse in Lochem. CIRED - Open Access Proceedings Journal, 2017, 2017, 1629-1633.	0.1	18
479	Smart dispatch system for integrated energy systems with demand response. , 2017, , .		2
480	Maximum power point tracking by design in self-balancing photovoltaic energy storage systems. , 2017, , .		3
481	Predictive control of demand and storage for residential prosumers. , 2017, , .		8
482	Zenith: Utility-Aware Resource Allocation for Edge Computing. , 2017, , .		126
483	Robust multi-objective PQ scheduling for electric vehicles in flexible unbalanced distribution grids. IET Generation, Transmission and Distribution, 2017, 11, 4031-4040.	1.4	27
484	Influencing behavior of electricity consumers to enhance participation in demand response. , 2017, , .		2
485	Electrical storage in distribution grids with renewable energy sources. , 2017, , .		16
486	Multi-objective PSO for scheduling electricity consumption in a smart neighborhood. , 2017, , .		2
487	Assessing the Privacy Cost in Centralized Event-Based Demand Response for Microgrids. , 2017, , .		8
488	Case studies of demand response in multi-energy industrial parks. , 2017, , .		7
489	Application of an Experimentally Validated High-dimensional Surrogate Model to Performance Prediction of a CHP Unit. Energy Procedia, 2017, 142, 1106-1111.	1.8	0
491	Business Cases. , 2017, , 159-226.		1
492	Reliability evaluation of microgrid considering incentive-based demand response. IOP Conference Series: Materials Science and Engineering, 2017, 222, 012017.	0.3	1
493	Mechanism design for reliability in demand response with uncertainty. , 2017, , .		7
494	Noise Sources, Effects and Countermeasures in Narrowband Power-Line Communications Networks: A Practical Approach. Energies, 2017, 10, 1238.	1.6	22
495	Hierarchical Model Predictive Control for Sustainable Building Automation. Sustainability, 2017, 9, 264.	1.6	16

#	ARTICLE	IF	CITATIONS
496	A New Concept of Active Demand Side Management for Energy Efficient Prosumer Microgrids with Smart Building Technologies. <i>Energies</i> , 2017, 10, 1771.	1.6	38
497	SH-SecNet: An Enhanced Secure Network Architecture for the Diagnosis of Security Threats in a Smart Home. <i>Sustainability</i> , 2017, 9, 513.	1.6	23
498	An Optimal Dispatch Model of Wind-Integrated Power System Considering Demand Response and Reliability. <i>Sustainability</i> , 2017, 9, 758.	1.6	15
499	Coordinated Optimal Operation Method of the Regional Energy Internet. <i>Sustainability</i> , 2017, 9, 848.	1.6	9
500	Evaluating the Comprehensive Performance of Demand Response for Commercial Customers by Applying Combination Weighting Techniques and Fuzzy VIKOR Approach. <i>Sustainability</i> , 2017, 9, 1332.	1.6	18
501	A Stochastic Optimization Model for Carbon Mitigation Path under Demand Uncertainty of the Power Sector in Shenzhen, China. <i>Sustainability</i> , 2017, 9, 1942.	1.6	0
502	Combined Operation of Electrical Loads, Air Conditioning and Photovoltaic-Battery Systems in Smart Houses. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 525.	1.3	9
503	CSO Based Solution for Load Kickback Effect in Deregulated Power Systems. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1127.	1.3	8
504	The Role of Smart Meters in Enabling Real-Time Energy Services for Households: The Italian Case. <i>Energies</i> , 2017, 10, 199.	1.6	93
505	A Review of Smart Cities Based on the Internet of Things Concept. <i>Energies</i> , 2017, 10, 421.	1.6	403
506	Smart Distribution Networks: A Review of Modern Distribution Concepts from a Planning Perspective. <i>Energies</i> , 2017, 10, 501.	1.6	73
507	PV Hosting Capacity Analysis and Enhancement Using High Resolution Stochastic Modeling. <i>Energies</i> , 2017, 10, 1488.	1.6	20
508	Battery Storage Systems as Grid-Balancing Measure in Low-Voltage Distribution Grids with Distributed Generation. <i>Energies</i> , 2017, 10, 2161.	1.6	29
509	A Probabilistically Constrained Approach for the Energy Procurement Problem. <i>Energies</i> , 2017, 10, 2179.	1.6	16
510	Integration of load scheduling and direct load control for effective demand management. , 2017, , .		0
511	A case study of smart energy systems and behavioural aspects of social systems: systems thinking approach. <i>International Journal of System of Systems Engineering</i> , 2017, 8, 1.	0.4	2
512	Energy storage system dynamic scheduling based on 2-step bin packing. , 2017, , .		1
513	Integration of OpenADR with Node-RED for Demand Response Load Control Using Internet of Things Approach. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
514	Performance assessment of an optimal load control algorithm for providing contingency service. , 2017, , .		1
515	Privacy-preserving consensus-based energy management in smart grid. , 2017, , .		10
516	An information provision system according to residentsâ€™ indoor comfort preferences for energy conservation. Cyber-Physical Systems, 2017, 3, 121-142.	1.6	2
517	Simulation-Based Approaches for Design of Smart Energy System: A Review Applying Bibliometric Analysis. Journal of Chemical Engineering of Japan, 2017, 50, 385-396.	0.3	12
518	Consumer Preference Electricity Usage Plan for Demand Side Management in the Smart Grid. SAIEE Africa Research Journal, 2017, 108, 174-184.	1.1	4
519	Appliance commitment for household load scheduling algorithm: A critical review. , 2017, , .		2
520	Demand Response Unit Commitment Problem Solution for Maximizing Generating Companiesâ€™ Profit. Energies, 2017, 10, 1465.	1.6	12
521	Modelos de optimizaci3n para sistemas de potencia en la evoluci3n hacia redes inteligentes: Una revisi3n. DYNA (Colombia), 2017, 84, 102-111.	0.2	6
522	Implementation of a Real-Time Microgrid Simulation Platform Based on Centralized and Distributed Management. Energies, 2017, 10, 806.	1.6	49
523	The 2018 Power Trading Agent Competition. SSRN Electronic Journal, 0, , .	0.4	5
524	A linear approach to manage input delays while supplying frequency regulation using residential loads. , 2017, , .		2
525	Simulation-based Strategies for Smart Demand Response. Journal of Sustainable Development of Energy, Water and Environment Systems, 2017, 6, 33-46.	0.9	14
526	Joint Load Scheduling and Voltage Regulation in the Distribution System With Renewable Generators. IEEE Transactions on Industrial Informatics, 2018, 14, 1564-1574.	7.2	27
527	Integrated DR and reconfiguration scheduling for optimal operation of microgrids using Hongâ€™s point estimate method. International Journal of Electrical Power and Energy Systems, 2018, 99, 481-492.	3.3	71
528	A model for an economic evaluation of energy systems using TRNSYS. Applied Energy, 2018, 215, 765-777.	5.1	22
529	Exploiting flexibility in smart grids at scale. Computer Science - Research and Development, 2018, 33, 185-191.	2.7	1
530	An algorithm for optimal management of aggregated HVAC power demand using smart thermostats. Applied Energy, 2018, 217, 166-177.	5.1	59
531	Data-Enabled Building Energy Savings (D-E BES). Proceedings of the IEEE, 2018, 106, 661-679.	16.4	15

#	ARTICLE	IF	CITATIONS
532	A systematic framework of vulnerability analysis of a natural gas pipeline network. Reliability Engineering and System Safety, 2018, 175, 79-91.	5.1	78
533	Probabilistic characterization of electricity consumer responsiveness to economic incentives. Applied Energy, 2018, 216, 296-310.	5.1	47
534	A scalable protocol stack for IEEE 802.11s-based advanced metering infrastructure networks. , 2018, , .		1
535	Secure Automated Home Energy Management in Multi-Agent Smart Grid Architecture. Technology and Economics of Smart Grids and Sustainable Energy, 2018, 3, 1.	1.8	10
536	Big Energy Data Management for Smart Grids—Issues, Challenges and Recent Developments. Computer Communications and Networks, 2018, , 177-205.	0.8	9
537	A Dynamic pricing demand response algorithm for smart grid: Reinforcement learning approach. Applied Energy, 2018, 220, 220-230.	5.1	309
538	Compression of smart meter big data: A survey. Renewable and Sustainable Energy Reviews, 2018, 91, 59-69.	8.2	109
539	An Introduction to Smart Energy Systems and Definition of Smart Energy Hubs. , 2018, , 1-21.		1
540	Integrated intelligent water-energy metering systems and informatics: Visioning a digital multi-utility service provider. Environmental Modelling and Software, 2018, 105, 94-117.	1.9	71
541	A risk-based approach for modeling the strategic behavior of a distribution company in wholesale energy market. Applied Energy, 2018, 214, 24-38.	5.1	40
542	Virtual Budget: Integration of electricity load and price anticipation for load morphing in price-directed energy utilization. Electric Power Systems Research, 2018, 158, 284-296.	2.1	34
543	How do demand response and electrical energy storage affect (the need for) a capacity market?. Applied Energy, 2018, 214, 39-62.	5.1	55
544	Multiobjective Optimization for Demand Side Management Program in Smart Grid. IEEE Transactions on Industrial Informatics, 2018, 14, 1482-1490.	7.2	100
545	Setpoint Tracking With Partially Observed Loads. IEEE Transactions on Power Systems, 2018, 33, 5615-5627.	4.6	16
546	Co-production in distributed generation: renewable energy and creating space for fitting infrastructure within landscapes. Landscape Research, 2018, 43, 542-561.	0.7	83
547	Exploring the impact of increased solar deployment levels on residential electricity bills in India. Renewable Energy, 2018, 120, 512-523.	4.3	9
548	Poster Abstract: Real-time load prediction with high velocity smart home data stream. Computer Science - Research and Development, 2018, 33, 233-234.	2.7	1
549	A systematic review of data protection and privacy preservation schemes for smart grid communications. Sustainable Cities and Society, 2018, 38, 806-835.	5.1	73

#	ARTICLE	IF	CITATIONS
550	Scenario-based system dynamics modeling for the cost recovery of new energy technology deployment: The case of smart metering roll-out. <i>Journal of Cleaner Production</i> , 2018, 178, 791-803.	4.6	25
551	A \hat{r} -constraint multi-objective optimization framework for operation planning of smart grids. <i>Sustainable Cities and Society</i> , 2018, 38, 21-30.	5.1	22
552	rEMpy: a comprehensive software framework for residential energy management. <i>Energy and Buildings</i> , 2018, 171, 131-143.	3.1	7
553	An improved incentive-based demand response program in day-ahead and intra-day electricity markets. <i>Energy</i> , 2018, 155, 205-214.	4.5	49
554	Understanding the effects of energy management practices on renewable energy supply chains: Implications for energy policy in emerging economies. <i>Energy Policy</i> , 2018, 118, 418-428.	4.2	62
555	Commercial Demand Response Programs in Bidding of a Technical Virtual Power Plant. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 5100-5111.	7.2	71
556	Join and spilt TCP for SDN networks: Architecture, implementation, and evaluation. <i>Computer Networks</i> , 2018, 137, 160-172.	3.2	4
557	Consumer-Aware Distributed Demand-Side Contingency Service in the Power Grid. <i>IEEE Transactions on Control of Network Systems</i> , 2018, 5, 1987-1997.	2.4	6
558	Optimal Demand Response Strategies to Mitigate Oligopolistic Behavior of Generation Companies Using a Multi-Objective Decision Analysis. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 4264-4274.	4.6	12
559	Assessment of Smart-Meter-Enabled Dynamic Pricing at Utility and River Basin Scale. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	1.3	18
560	Biogas supported bi-level macro energy hub management system for residential customers. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, 025501.	0.8	7
561	Integration of smart grid technologies in stochastic multi-objective unit commitment: An economic emission analysis. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 100, 565-590.	3.3	41
562	An integrated optimization + learning approach to optimal dynamic pricing for the retailer with multi-type customers in smart grids. <i>Information Sciences</i> , 2018, 448-449, 215-232.	4.0	19
563	Optimal management of energy hubs and smart energy hubs “ A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 89, 33-50.	8.2	218
564	A Comprehensive Model to Integrate Emerging Resources From Supply and Demand Sides. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 3883-3896.	6.2	5
565	A Partially Observable Markov Decision Process Approach to Residential Home Energy Management. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 1271-1281.	6.2	56
566	A Computationally Inexpensive Energy Model for Horizontal Electric Water Heaters With Scheduling. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 48-56.	6.2	29
567	Extending Demand Response to Tenants in Cloud Data Centers via Non-Intrusive Workload Flexibility Pricing. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 3235-3246.	6.2	30

#	ARTICLE	IF	CITATIONS
568	A projection neural network for optimal demand response in smart grid environment. <i>Neural Computing and Applications</i> , 2018, 29, 259-267.	3.2	9
569	A multi-objective hybrid GA and TOPSIS approach for sizing and siting of DG and RTU in smart distribution grids. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2018, 9, 105-122.	3.3	26
570	Simulating residential demand response: Improving socio-technical assumptions in activity-based models of energy demand. <i>Energy Efficiency</i> , 2018, 11, 1583-1597.	1.3	32
571	Impacts of Virtual Primary Frequency Regulation on Electromechanical Oscillations. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 4270-4281.	6.2	1
572	Distributed Multi-Unit Privacy Assured Bidding (PAB) for Smart Grid Demand Response Programs. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 4119-4127.	6.2	21
573	The economics of commercial demand response for spinning reserve. <i>Energy Systems</i> , 2018, 9, 3-23.	1.8	6
574	Multiobjective Scheduling of Microgrids to Harvest Higher Photovoltaic Energy. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 47-57.	7.2	44
575	A survey on consumers empowerment, communication technologies, and renewable generation penetration within Smart Grid. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 1453-1475.	8.2	127
576	Stochastic modelling of renewable energy sources from operators' point-of-view: A survey. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 1953-1965.	8.2	61
577	Managing Communication Delays and Model Error in Demand Response for Frequency Regulation. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 1299-1308.	4.6	25
578	Residential electricity pricing in China: The context of price-based demand response. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 2870-2878.	8.2	58
579	A decision support algorithm for assessing the engagement of a demand response program in the industrial sector of the smart grid. <i>Computers and Industrial Engineering</i> , 2018, 115, 123-137.	3.4	20
580	Energy Management and Optimization Methods for Grid Energy Storage Systems. <i>IEEE Access</i> , 2018, 6, 13231-13260.	2.6	247
581	Large-scale demand response and its implications for spot prices, load and policies: Insights from the German-Austrian electricity market. <i>Applied Energy</i> , 2018, 210, 1290-1298.	5.1	29
582	Determining Optimal Forming of Flexible Microgrids in the Presence of Demand Response in Smart Distribution Systems. <i>IEEE Systems Journal</i> , 2018, 12, 3315-3323.	2.9	33
583	A hybrid control approach for regulating frequency through demand response. <i>Applied Energy</i> , 2018, 210, 1347-1362.	5.1	44
585	Survey about public perception regarding smart grid, energy efficiency & renewable energies applications in Qatar. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 168-175.	8.2	32
586	A review on peak load shaving strategies. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3323-3332.	8.2	307

#	ARTICLE	IF	CITATIONS
587	Opportunities and challenges of demand response in active distribution networks. Wiley Interdisciplinary Reviews: Energy and Environment, 2018, 7, e271.	1.9	18
588	Demanding Energy. , 2018, , .		5
589	Conceptual framework for introducing incentive-based demand response programs for retail electricity markets. Energy Strategy Reviews, 2018, 19, 44-62.	3.3	36
590	Time-Series Classification Methods: Review and Applications to Power Systems Data. , 2018, , 179-220.		63
591	On Data-Driven Approaches for Demand Response. , 2018, , 243-259.		1
592	Towards critical performance considerations for using office buildings as a power flexibility resource-a survey. Energy and Buildings, 2018, 159, 164-178.	3.1	17
593	Residential Demand Side Management in Smart Grid Using Meta-Heuristic Techniques. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 76-88.	0.5	3
594	Efficient Energy Management System Using Firefly and Harmony Search Algorithm. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 37-49.	0.5	12
595	What makes consumers adopt to innovative energy services in the energy market? A review of incentives and barriers. Renewable and Sustainable Energy Reviews, 2018, 82, 3570-3581.	8.2	90
596	Smart grid scenarios and their impact on strategic planâ€”A case study of Omani power sector. Sustainable Cities and Society, 2018, 37, 213-221.	5.1	11
597	Load Scheduling in Home Energy Management System Using Meta-Heuristic Techniques and Critical Peak Pricing Tariff. Lecture Notes on Data Engineering and Communications Technologies, 2018, , 50-62.	0.5	5
598	Design and Implementation of an Internet of Things Communications System for Legacy Device Control and Management. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 145-154.	0.2	0
599	Demand side management through home area network systems. International Journal of Electrical Power and Energy Systems, 2018, 97, 174-185.	3.3	26
600	Hierarchical control strategy for residential demand response considering time-varying aggregated capacity. International Journal of Electrical Power and Energy Systems, 2018, 97, 165-173.	3.3	23
601	Smart grid research in New Zealand â€” A review from the GREEN Grid research programme. Renewable and Sustainable Energy Reviews, 2018, 82, 1636-1645.	8.2	39
602	Optimizing sheddable and shiftable residential electricity consumption by incentivized peak and off-peak credit function approach. Applied Energy, 2018, 210, 1299-1309.	5.1	41
603	Smart grid adds to renewable resources hosting capacity: Collaboration of plug-in hybrid electric vehicles in Volt/VAr control process. International Journal of Energy Research, 2018, 42, 601-615.	2.2	12
604	The Impact of Substituting Production Technologies on the Economic Demand Response Potential in Industrial Processes. Energies, 2018, 11, 2217.	1.6	17

#	ARTICLE	IF	CITATIONS
605	Smart Home Energy Management with Integration of Renewable Energy. , 2018, , .		4
606	Smart grid, load management and dynamic pricing for electricity: Simulation results from a field project in Switzerland. Competition and Regulation in Network Industries, 2018, 19, 200-217.	0.3	4
607	Price Discounts and Consumer Load-Shifting Behavior in the Smart Grid. International Journal of Business Analytics, 2018, 5, 33-54.	0.2	3
608	Unified Algorithm for Demand-Side Appliance Commitment. Energies, 2018, 11, 3337.	1.6	0
609	Framing Smart Meter Feedback in Relation to Practice Theory. Sustainability, 2018, 10, 3553.	1.6	16
610	Benefits of a Demand Response Exchange Participating in Existing Bulk-Power Markets. Energies, 2018, 11, 3361.	1.6	19
611	Piloting Demand Response in Retailing: Lessons Learned in Real-Life Context. Sustainability, 2018, 10, 3790.	1.6	6
612	Therapeutic effect observation on acupuncture plus umbilicus application with Chinese medicine in treating detrusor underactivity. Journal of Acupuncture and Tuina Science, 2018, 16, 389-393.	0.1	0
613	Research on Modeling of Participating Entities in Demand Response System. IOP Conference Series: Earth and Environmental Science, 2018, 168, 012023.	0.2	0
614	An Overview of Trends and Developments of Internet of Things Applied to Industrial Systems. , 2018, , .		6
615	Athena. , 2018, , .		4
616	Financial Benefit Analysis of an Electric Water Heater with Direct Load Control in Demand Response. , 2018, , .		0
617	A Price Based Demand Side Management Strategy for Residential Sector in Bangladesh. , 2018, , .		3
618	A Short-Term Decision Model for Electricity Retailers: Electricity Procurement and Time-of-Use Pricing. Energies, 2018, 11, 3258.	1.6	23
619	A Scenario-Based Framework for Technical Validation of Demand Response. , 2018, , .		0
620	Market Effects of Industrial Demand Response and Flexibility Potential from Wastewater Treatment Facilities. , 2018, , .		6
621	An Optimal Spatial and Temporal Charging Schedule for Electric Vehicles in Smart Grid. , 2018, , .		2
622	Optimal Energy Management and Economic Analysis of a Grid-Connected Hybrid Solar Water Heating System in Bloemfontein. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
623	Discussing Different Clustering Methods for the Aggregation of Demand Response and Distributed Generation. , 2018, , .		9
624	Economic-Environmental Optimal Management of Smart Residential Micro-Grid Considering CCHP System. Electric Power Components and Systems, 2018, 46, 1592-1606.	1.0	13
625	Offline and online scheduling of electric vehicle charging with a minimum charging threshold. , 2018, , .		2
626	Optimal Scheduling of Customers' Demand based upon Power Availability and its Price in Smart Grid. , 2018, , .		1
627	Predicting customer behaviors on energy consumption: Why past usage data are not enough?. , 2018, , .		1
628	A Living Lab and Testing Infrastructure for the Development of Innovative Smart Energy Solutions: the eLUX Laboratory of the University of Brescia. , 2018, , .		12
629	Statistical Load Time Series Analysis for the Demand Side Management. , 2018, , .		4
630	Innate Anti-microbial and Anti-chemotaxis Properties of Progranulin in an Acute Otitis Media Mouse Model. Frontiers in Immunology, 2018, 9, 2952.	2.2	6
631	Bi-level optimised dispatch strategy of electric supply-demand balance considering risk-benefit coordination. IET Smart Grid, 2018, 1, 169-176.	1.5	3
632	An Optimal Energy Management Method for the Multi-Energy System with Various Multi-Energy Applications. Applied Sciences (Switzerland), 2018, 8, 2273.	1.3	8
633	Load Frequency Control Using Demand Response and Storage Battery by Considering Renewable Energy Sources. Energies, 2018, 11, 3412.	1.6	4
634	Optimal Energy Scheduling for a Microgrid Encompassing DRRs and Energy Hub Paradigm Subject to Alleviate Emission and Operational Costs. , 2018, , .		28
635	Learning and Selecting the Right Customers for Reliability: A Multi-Armed Bandit Approach. , 2018, , .		12
636	Exploring the impact of renewables on supply-demand balance: a probabilistic model. , 2018, , .		0
637	Modeling Shiftable Load in Electricity Market Equilibrium Analysis. , 2018, , .		1
638	Application of an optimization-based curtailment service provider in real-time simulation. Energy Informatics, 2018, 1, .	1.4	13
639	Increasing the efficiency of local energy markets through residential demand response. Energy Informatics, 2018, 1, .	1.4	37
640	Household CO2-efficient energy management. Energy Informatics, 2018, 1, .	1.4	3

#	ARTICLE	IF	CITATIONS
641	Empowering the selection of demand response methods in smart homes: development of a decision support framework. Energy Informatics, 2018, 1, .	1.4	2
642	Demand Side Management Strategy by Optimal Day-ahead Load Shifting in Smart Grid. , 2018, , .		5
643	A Linear Programming Approach to Optimize Demand Response for Water Systems under Water Demand Uncertainties. , 2018, , .		4
644	Smart Buildings For Smart Grids: A Real-world Testbed. , 2018, , .		2
645	Energy Flexibility for Systems with large Thermal Masses with Applications to Shopping Centers. , 2018, , .		2
646	Critical Analysis of the Profitability of Demand Response for End-Consumers and Aggregators with Flat-Rate Retail Pricing. , 2018, , .		2
647	Implementation of energy management of a microgrid using HMAS. , 2018, , .		2
648	Homogeneity-PMU-Based Method for Detection and Classification of Power Quality Disturbances. Electronics (Switzerland), 2018, 7, 433.	1.8	7
649	Preliminary Study on Evaluation of Smart-Cities Technologies and Proposed UV Lifestyles. , 2018, , .		7
650	Design of Demand Response based Load Management Solutions for a University Campus. , 2018, , .		1
651	On M2M Micropayments: A Case Study of Electric Autonomous Vehicles. , 2018, , .		14
652	Primary Frequency Response Constrained Interruptible Load Scheduling Under PV Generation. , 2018, , .		0
653	Capacity Credit Assessment of Demand Response Based on a Rigorous Uncertainty Modeling Framework. , 2018, , .		0
654	A Smart Demand Response Management Scheme for Direct Load Control in Residential Grid. , 2018, , .		2
655	Deposit Mechanism Design and Corresponding Decision Strategy considering Uncertainty of Customer Behaviour. Mathematical Problems in Engineering, 2018, 2018, 1-14.	0.6	1
656	Integrated day-ahead energy procurement and production scheduling. Automatisierungstechnik, 2018, 66, 950-963.	0.4	9
657	Multi-Step Short-Term Power Consumption Forecasting with a Hybrid Deep Learning Strategy. Energies, 2018, 11, 3089.	1.6	124
658	Demand Side Management and the Participation in Consecutive Energy Markets - A Multistage Stochastic Optimization Approach. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
659	Smart Load Control Strategy for Residential Demand Side Management. , 2018, , .		4
660	Cooperative demand-side management scenario for the low-voltage network in liberalised electricity markets. IET Generation, Transmission and Distribution, 2018, 12, 5990-5999.	1.4	11
661	Educational platform for communications using the MQTT protocol. , 2018, , .		4
662	Consensus-Based Source-Load-Storage Optimal Dispatch for Active Distributed Network in Dynamic Multi-Agent System. , 2018, , .		3
664	Game Theoretical Demand Response Management and Short-Term Load Forecasting by Knowledge Based Systems on the basis of Priority Index. Electronics (Switzerland), 2018, 7, 431.	1.8	11
665	Integration Challenges and Solutions for Renewable Energy Sources, Electric Vehicles and Demand-Side Initiatives in Smart Grids. , 2018, , .		12
666	GPS Synchronization of Smart Distributed Converters for Microgrid Applications. Energies, 2018, 11, 695.	1.6	2
667	District Energy System Optimisation and Communication: A Two-Level Approach. , 2018, , .		0
668	Volunteers in the Smart City: Comparison of Contribution Strategies on Human-Centered Measures. Sensors, 2018, 18, 3707.	2.1	8
669	Nearly Zero Energy Building Model Predictive Control for efficient heating. , 2018, , .		4
670	Combinatorial auctions for energy storage sharing amongst the households. Journal of Energy Storage, 2018, 19, 291-301.	3.9	38
671	A Load Identification Algorithm of Frequency Domain Filtering Under Current Underdetermined Separation. IEEE Access, 2018, 6, 37094-37107.	2.6	21
672	A Multi-Objective Demand Response Optimization Model for Scheduling Loads in a Home Energy Management System. Sensors, 2018, 18, 3207.	2.1	66
673	Information Systems for a Smart Electricity Grid. ACM Transactions on Management Information Systems, 2018, 9, 1-22.	2.1	30
674	Distributed photovoltaic generation in the electricity market: status, mode and strategy. CSEE Journal of Power and Energy Systems, 2018, 4, 263-272.	1.7	48
675	Consensus-Based Demand-Side Participation in Smart Microgrid Emergency Operation. , 2018, , .		0
676	Load morphological analysis method for demand-side user based on multi-stage clustering. AIP Conference Proceedings, 2018, , .	0.3	0
677	IoT-based smart homes: A review of system architecture, software, communications, privacy and security. Internet of Things (Netherlands), 2018, 1-2, 81-98.	4.9	181

#	ARTICLE	IF	CITATIONS
678	Flexibility assessment of a combined heat-power system (CHP) with energy storage under real-time energy price market framework. Thermal Science and Engineering Progress, 2018, 8, 426-438.	1.3	48
679	Optimal and near-optimal indoor temperature and humidity controls for direct load control and proactive building demand response towards smart grids. Automation in Construction, 2018, 96, 250-261.	4.8	20
680	Optimal Scheduling of Electric Heat Pumps Combined with Thermal Storage for Power Peak Shaving. , 2018, , .		5
681	Appraisal of Constraints Impeding the Integration of Distributed Energy Resources Network. , 2018, , .		1
682	Energy Management in Buildings with Intermittent and Limited Renewable Resources. Energies, 2018, 11, 2748.	1.6	4
683	A Practical Multi-Sensor Cooling Demand Estimation Approach Based on Visual, Indoor and Outdoor Information Sensing. Sensors, 2018, 18, 3591.	2.1	14
684	Development of Demand Response Energy Management Optimization at Building and District Levels Using Genetic Algorithm and Artificial Neural Network Modelling Power Predictions. Energies, 2018, 11, 3012.	1.6	35
685	Indoor Air-Temperature Forecast for Energy-Efficient Management in Smart Buildings. , 2018, , .		7
686	SCADA Office Building Implementation in the Context of an Aggregator. , 2018, , .		9
687	Demand Response Enabled Optimal Energy Management of Networked Microgrids for Resilience Enhancement. , 2018, , 49-74.		1
688	Edge-based Energy Management for Smart Homes. , 2018, , .		18
689	Optimal Scheduling of Generation and Demand Response Resources with Considering Load Uncertainty. , 2018, , .		4
690	Complex Optimization and Simulation in Power Systems. Complexity, 2018, 2018, 1-3.	0.9	1
691	A Stackelberg Game Approach for Price Response Coordination of Thermostatically Controlled Loads. Applied Sciences (Switzerland), 2018, 8, 1370.	1.3	3
692	Electromechanical Transient Modeling of Line Commutated Converter-Modular Multilevel Converter-Based Hybrid Multi-Terminal High Voltage Direct Current Transmission Systems. Energies, 2018, 11, 2102.	1.6	13
693	Electric Water Heater Modelling for Direct Load Control Demand Response. , 2018, , .		7
694	The impact of control strategies upon the energy flexibility of nearly zero-energy buildings: Energy consumption minimization versus indoor thermal comfort maximization. , 2018, , .		6
695	Optimal Ensemble Control of Loads in Distribution Grids with Network Constraints. , 2018, , .		11

#	ARTICLE	IF	CITATIONS
696	Coordinated Scheduling of Demand Response Aggregators and Customers in an Uncertain Environment. , 2018, , .		1
697	Putting Residential Flexibility Management into Action with Pilot Sites in Europe: From Mas2tering to DRivE Projects. Proceedings (mdpi), 2018, 2, 1130.	0.2	1
698	Customer rewardâ€based demand response program to improve demand elasticity and minimise financial risk during price spikes. IET Generation, Transmission and Distribution, 2018, 12, 3764-3771.	1.4	30
699	Game-Theory Modeling for Social Welfare Maximization in Smart Grids. Energies, 2018, 11, 2315.	1.6	9
700	i13DR. , 2018, , .		0
701	Energy Flexibility from Large Prosumers to Support Distribution System Operationâ€A Technical and Legal Case Study on the Amsterdam ArenA Stadium. Energies, 2018, 11, 122.	1.6	8
702	On the Mobile Communication Requirements for the Demand-Side Management of Electric Vehicles. Energies, 2018, 11, 1220.	1.6	47
703	Wind Farm-LA Coordinated Operation Mode and Dispatch Model in Wind Power Accommodation Promotion. Energies, 2018, 11, 1227.	1.6	4
704	Development of Demand Response Management System for Microgrid. , 2018, , .		2
705	Profiling energy efficiency tendency: A case for Turkish households. Energy Policy, 2018, 119, 441-448.	4.2	17
706	Optimal operation of energy hub in competitive electricity market considering uncertainties. International Journal of Energy and Environmental Engineering, 2018, 9, 351-362.	1.3	14
707	Demand-side management via optimal production scheduling in power-intensive industries: The case of metal casting process. Applied Energy, 2018, 225, 622-636.	5.1	57
708	Public policies for smart grids in Brazil. Renewable and Sustainable Energy Reviews, 2018, 92, 501-512.	8.2	23
709	Battery durability and reliability under electric utility grid operations: Representative usage aging and calendar aging. Journal of Energy Storage, 2018, 18, 185-195.	3.9	54
710	Look-ahead risk-constrained scheduling of wind power integrated system with compressed air energy storage (CAES) plant. Energy, 2018, 160, 668-677.	4.5	47
711	Optimal load dispatch for industrial manufacturing process based on demand response in a smart grid. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	2
712	An integrated sectoral framework for the development of sustainable power sector in Pakistan. Energy Reports, 2018, 4, 376-392.	2.5	27
713	A distributed approach to emergency demand response in geo-distributed mixed-use buildings. Journal of Building Engineering, 2018, 19, 506-518.	1.6	8

#	ARTICLE	IF	CITATIONS
714	Economic implications of lithium ion battery degradation for Vehicle-to-Grid (V2X) services. Journal of Power Sources, 2018, 396, 691-709.	4.0	105
715	Occupancy prediction through Markov based feedback recurrent neural network (M-FRNN) algorithm with WiFi probe technology. Building and Environment, 2018, 138, 160-170.	3.0	92
716	Electric vehicles as motivators for smart grids. , 2018, , .		0
718	Balancing energy production and consumption in energy efficient neighborhoods. , 2018, , .		2
719	An evolutionary simulation optimization framework for interruptible load management in the smart grid. Sustainable Cities and Society, 2018, 41, 802-809.	5.1	20
720	End-user participation in a collaborative distributed voltage control and demand response programme. IET Generation, Transmission and Distribution, 2018, 12, 3079-3085.	1.4	15
721	Optimal Renewable Penetration in Energy Procurement and Demand Response. , 2018, , .		1
722	Designing Pricing Incentive Mechanism for Proactive Demand Response in Smart Grid. , 2018, , .		1
723	Coordinating the operations of smart buildings in smart grids. Applied Energy, 2018, 228, 2510-2525.	5.1	67
724	Survey on Complex Optimization and Simulation for the New Power Systems Paradigm. Complexity, 2018, 2018, 1-32.	0.9	44
725	Technology, business model, and market design adaptation toward smart electricity distribution: Insights for policy making. Energy Policy, 2018, 121, 426-440.	4.2	44
726	An Agent-Based IoT System for Intelligent Energy Monitoring in Buildings. , 2018, , .		5
727	5.4 Energy Reliability and Management. , 2018, , 134-165.		0
728	Optimal collaborative demand-response planner for smart residential buildings. Energy, 2018, 161, 370-380.	4.5	25
729	Hybrid probabilistic-possibilistic approach for capacity credit evaluation of demand response considering both exogenous and endogenous uncertainties. Applied Energy, 2018, 229, 186-200.	5.1	53
730	A Virtual Power Plant Architecture for the Demand-Side Management of Smart Prosumers. Applied Sciences (Switzerland), 2018, 8, 432.	1.3	97
731	Robust Optimization for Household Load Scheduling with Uncertain Parameters. Applied Sciences (Switzerland), 2018, 8, 575.	1.3	22
732	Economic Model Predictive and Feedback Control of a Smart Grid Prosumer Node. Energies, 2018, 11, 48.	1.6	5

#	ARTICLE	IF	CITATIONS
733	Frequency Response Analysis of a Single-Area Power System with a Modified LFC Model Considering Demand Response and Virtual Inertia. <i>Energies</i> , 2018, 11, 787.	1.6	28
734	Distribution-Level Flexibility Market for Congestion Management. <i>Energies</i> , 2018, 11, 1056.	1.6	48
735	Performance Evaluation of Residential Demand Response Based on a Modified Fuzzy VIKOR and Scalable Computing Method. <i>Energies</i> , 2018, 11, 1097.	1.6	12
736	Distributed Control for Distributed Energy Resources: Long-Term Challenges and Lessons Learned. <i>IEEE Access</i> , 2018, 6, 32737-32753.	2.6	29
737	Taxonomy Analysis of Security Aspects in Cyber Physical Systems Applications. , 2018, , .		9
738	Optimization of residential storage and energy resources under demand response schemes. , 2018, , .		3
739	An optimal load schedule of household appliances with leveled load profile and consumer's preferences. , 2018, , .		7
740	Complexity in Energy Systems. <i>Studies in Systems, Decision and Control</i> , 2018, , 3-13.	0.8	0
741	A phase model approach for thermostatically controlled load demand response. <i>Applied Energy</i> , 2018, 228, 667-680.	5.1	23
742	Joint Energy Procurement and Demand Response Towards Optimal Deployment of Renewables. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2018, 12, 657-672.	7.3	2
743	Effects on Electricity Markets of a Demand Response Model Based on Day Ahead Real Time Prices: Application to the Colombian Case. <i>IEEE Latin America Transactions</i> , 2018, 16, 1416-1423.	1.2	6
744	Smart homes and the control of indoor air quality. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 705-718.	8.2	172
745	Braided Cobwebs: Cautionary Tales for Dynamic Pricing in Retail Electric Power Markets. <i>IEEE Transactions on Power Systems</i> , 2018, 33, 6870-6882.	4.6	13
746	Legal Framework of Decentralized Energy Business Models in Germany: Challenges and Opportunities for Municipal Utilities. <i>Zeitschrift für Energiewirtschaft</i> , 2018, 42, 207-223.	0.2	7
747	Lightweight privacy-preserving data aggregation scheme for smart grid metering infrastructure protection. <i>International Journal of Critical Infrastructure Protection</i> , 2018, 22, 16-24.	2.9	21
748	Robust and dynamic transactive energy system using Tsyarkinâ€“Polyak theorem. <i>IET Smart Grid</i> , 2018, 1, 57-65.	1.5	1
749	The evaluation of stochastic occupant behavior models from an application-oriented perspective: Using the lighting behavior model as a case study. <i>Energy and Buildings</i> , 2018, 176, 151-162.	3.1	22
750	Smart Grid Architecture for Rural Distribution Networks: Application to a Spanish Pilot Network. <i>Energies</i> , 2018, 11, 844.	1.6	20

#	ARTICLE	IF	CITATIONS
751	Industrial power load scheduling considering demand response. Journal of Cleaner Production, 2018, 204, 447-460.	4.6	54
752	Demand side flexibility schemes for facilitating the high penetration of residential distributed energy resources. IET Generation, Transmission and Distribution, 2018, 12, 4079-4088.	1.4	22
753	Load Frequency Control for Renewable Energy Sources for Isolated Power System. , 2018, , .		1
754	The impact of energy storage modeling in coordination with wind farm and thermal units on security and reliability in a stochastic unit commitment. Energy, 2018, 162, 476-490.	4.5	31
755	Household responsiveness to residential demand response strategies: Results and policy implications from a Swedish field study. Energy Policy, 2018, 122, 273-286.	4.2	37
756	Implementing large scale electromobility infrastructure as a profitable virtual electricity storage plant: A case study, system ALISE. , 2018, , .		2
757	Optimal Deployment of FiWi Networks Using Heuristic Method for Integration Microgrids with Smart Metering. Sensors, 2018, 18, 2724.	2.1	8
758	A review on price-driven residential demand response. Renewable and Sustainable Energy Reviews, 2018, 96, 411-419.	8.2	208
759	Ensemble Control of Cycling Energy Loads: Markov Decision Approach. The IMA Volumes in Mathematics and Its Applications, 2018, , 363-382.	0.5	16
760	Electric Power Markets in Transition: Agent-Based Modeling Tools for Transactive Energy Support. Handbook of Computational Economics, 2018, , 715-766.	1.6	18
761	Provoking Residential Demand Response Through Variable Electricity Tariffs - A Model-Based Assessment for Municipal Energy Utilities. Technology and Economics of Smart Grids and Sustainable Energy, 2018, 3, 1.	1.8	24
762	Smart grids" Overview and background information. , 2018, , 1-10.		8
763	Smart grid and power quality issues. , 2018, , 195-202.		4
764	Assessing Increased Flexibility of Energy Storage and Demand Response to Accommodate a High Penetration of Renewable Energy Sources. IEEE Transactions on Sustainable Energy, 2019, 10, 659-669.	5.9	114
765	Equivalent Modeling of Inverter Air Conditioners for Providing Frequency Regulation Service. IEEE Transactions on Industrial Electronics, 2019, 66, 1413-1423.	5.2	83
766	Scheduling a storage-augmented discrete production facility under incentive-based demand response. International Journal of Production Research, 2019, 57, 250-270.	4.9	16
767	Multiobjective Risk-Constrained Optimal Bidding Strategy of Smart Microgrids: An IGDT-Based Normal Boundary Intersection Approach. IEEE Transactions on Industrial Informatics, 2019, 15, 1532-1543.	7.2	49
768	A Novel Adaptive Supervisory Controller for Optimized Voltage Controlled Demand Response. IEEE Transactions on Smart Grid, 2019, 10, 4201-4210.	6.2	4

#	ARTICLE	IF	CITATIONS
769	Optimization-based estimation of power capacity profiles for activity-based residential loads. International Journal of Electrical Power and Energy Systems, 2019, 104, 664-672.	3.3	7
770	Analysis and Implementation of an Hourly Billing Mechanism for Demand Response Management. IEEE Transactions on Smart Grid, 2019, 10, 4265-4278.	6.2	34
771	Enabling remote-control for the power sub-stations over LTE-A networks. Telecommunication Systems, 2019, 70, 37-53.	1.6	18
772	Social Internet of Energyâ€™ A New Paradigm for Demand Side Management. IEEE Internet of Things Journal, 2019, 6, 9853-9867.	5.5	18
774	A Review of Active Power and Frequency Control in Smart Grid. , 2019, , .		8
775	Data Standardization for Smart Infrastructure in First-Access Electricity Systems. Proceedings of the IEEE, 2019, 107, 1790-1802.	16.4	16
776	Big Data Issues in Smart Grids: A Survey. IEEE Systems Journal, 2019, 13, 4158-4168.	2.9	79
777	Robust Control for Renewable-Integrated Power Networks Considering Input Bound Constraints and Worst Case Uncertainty Measure. IEEE Transactions on Control of Network Systems, 2019, 6, 1210-1222.	2.4	16
778	Prosumer communities as strategic allies for electric utilities: Exploring future decentralization trends in Switzerland. Energy Research and Social Science, 2019, 57, 101219.	3.0	33
779	Search Engine for the Internet of Things: Lessons From Web Search, Vision, and Opportunities. IEEE Access, 2019, 7, 104673-104691.	2.6	28
780	Energy management for userâ€™s thermal and power needs: A survey. Energy Reports, 2019, 5, 1048-1076.	2.5	30
781	On the Use of Causality Inference in Designing Tariffs to Implement More Effective Behavioral Demand Response Programs. Energies, 2019, 12, 2666.	1.6	3
782	Implementation of a novel multi-agent system for demand response management in low-voltage distribution networks. Applied Energy, 2019, 253, 113516.	5.1	25
783	Assessing the performance of residential energy management control Algorithms: Multi-criteria decision making using the analytical hierarchy process. Energy and Buildings, 2019, 199, 537-546.	3.1	24
784	The role of power-to-gas in the future energy system: Market and portfolio effects. Energy, 2019, 185, 1197-1209.	4.5	32
785	Optimized Energy Management Strategies for Campus Hybrid PVâ€™ Diesel Systems during Utility Load Shedding Events. Processes, 2019, 7, 430.	1.3	6
786	Demand-Side Management Optimization in Electric Vehicles Battery Swapping Service. IEEE Access, 2019, 7, 95224-95232.	2.6	27
787	Power Consumption Predicting and Anomaly Detection Based on Long Short-Term Memory Neural Network. , 2019, , .		39

#	ARTICLE	IF	CITATIONS
788	Electric Power Industry: Operational and Public Policy Challenges and Opportunities. Production and Operations Management, 2019, 28, 2738-2777.	2.1	43
789	A Distributed Event-Triggered-Based Control Strategy and its Stability Analysis. , 2019, , .		0
790	An optimization model for site-wide scheduling of coupled production plants with an application to the ammonia network of a petrochemical site. Optimization and Engineering, 2019, 20, 969-999.	1.3	9
791	A Distributed Virtual Time System on Embedded Linux for Evaluating Cyber-Physical Systems. , 2019, , .		5
792	Robust optimal energy and reactive power management in smart distribution networks: An info-gap multi-objective approach. International Transactions on Electrical Energy Systems, 2019, 29, e12115.	1.2	13
793	A Real Time Price Based Demand-Response Algorithm for Smart Grids. International Journal of Emerging Electric Power Systems, 2019, 20, .	0.6	1
794	A Survey on Communication Technologies in Smart Grid. , 2019, , .		27
795	Modeling of retailer's behavior for participation in the capacity market. International Transactions on Electrical Energy Systems, 2019, 29, e12056.	1.2	2
796	Energy Supplier 2.0: A conceptual business model for energy suppliers aggregating flexible distributed assets and policy issues raised. Energy Policy, 2019, 135, 110911.	4.2	43
797	Network architecture for demand response implementation in smart grid. International Journal of Systems Assurance Engineering and Management, 2019, 10, 1389-1402.	1.5	5
798	A User-Oriented Pricing Design for Demand Response in Smart Grid. Wireless Communications and Mobile Computing, 2019, 2019, 1-12.	0.8	2
799	Smart Microgrids Operation Considering a Variable Neighborhood Search: The Differential Evolutionary Particle Swarm Optimization Algorithm. Energies, 2019, 12, 3149.	1.6	27
800	Optimization of Network-Load Interaction With Multi-Time Period Flexible Random Fuzzy Uncertain Demand Response. IEEE Access, 2019, 7, 161630-161640.	2.6	8
801	From partial optimization to overall system management – real-life smart heat load control in district heating systems. Energy and Buildings, 2019, 204, 109481.	3.1	7
802	The non-technical barriers to large scale electricity networks: Analysing the case for the US and EU supergrids. Energy Policy, 2019, 135, 111018.	4.2	12
803	Elasticity Parameter Definition and Analysis for Real-Time Pricing Remuneration Basing on Different Users Cases. , 2019, , .		3
804	Phase Oscillator Model for De-synchronization of Thermostatically Controlled Loads. , 2019, , .		0
805	Assessing the impact of load-shifting restrictions on profitability of load flexibilities. Applied Energy, 2019, 255, 113860.	5.1	19

#	ARTICLE	IF	CITATIONS
806	A Non-Linear Autoregressive Model for Indoor Air-Temperature Predictions in Smart Buildings. Electronics (Switzerland), 2019, 8, 979.	1.8	26
807	Dynamic Path Planning for Autonomous Driving on Branch Streets With Crossing Pedestrian Avoidance Guidance. IEEE Access, 2019, 7, 144720-144731.	2.6	8
808	Techno-economic Planning Framework of a Household MicroGrid with Hybrid Energy Storage System. , 2019, , .		0
809	Contribution of Smart Cities to the Energy Sustainability of the Binomial between City and Country. Applied Sciences (Switzerland), 2019, 9, 3247.	1.3	9
810	Harnessing the Full Potential of Industrial Demand-Side Flexibility: An End-to-End Approach Connecting Machines with Markets through Service-Oriented IT Platforms. Applied Sciences (Switzerland), 2019, 9, 3796.	1.3	24
811	Demand-Side Management of Smart Distribution Grids Incorporating Renewable Energy Sources. Energies, 2019, 12, 143.	1.6	19
812	Towards Online Deep Learning-Based Energy Forecasting. , 2019, , .		16
813	Web-Based Platform for Evaluation of Resilient and Transactive Smart-Grids. , 2019, , .		5
814	On Data Center Demand Response: A Cloud Federation Approach. IEEE Access, 2019, 7, 101829-101843.	2.6	16
815	Innovative Tools for Demand Response Strategies: a Real-Life Experience. , 2019, , .		11
816	A Grey-box Model Based on Unscented Kalman Filter to Estimate Thermal Dynamics in Buildings. , 2019, , .		9
817	Exploring the Potential of Metaheuristics-Based Clustering in Load Profiling Applications. , 2019, , .		1
818	Multilevel customer segmentation for off-grid solar in developing countries: Evidence from solar home systems in Rwanda and Kenya. Energy, 2019, 186, 115728.	4.5	22
819	Assessing the Demand Response Program in a Network with High Integration of Photovoltaic Plants using Machine Learning. , 2019, , .		2
820	A Demand Response Implementation in Tertiary Buildings Through Model Predictive Control. IEEE Transactions on Industry Applications, 2019, 55, 7052-7061.	3.3	30
821	Analyze the Break-even Cost of Lithium-ion Battery under Time-of-use Pricing Tariffs. , 2019, , .		0
822	Deep Learning-Based Short-Term Load Forecasting for Supporting Demand Response Program in Hybrid Energy System. Energies, 2019, 12, 3359.	1.6	45
823	Detection for Non-Technical Loss by Smart Energy Theft With Intermediate Monitor Meter in Smart Grid. IEEE Access, 2019, 7, 129043-129053.	2.6	39

#	ARTICLE	IF	CITATIONS
824	An Application of Machine Learning for a Smart Grid Resource Allocation Problem. , 2019, , .		6
825	Modeling and analysis of inverter air conditioners for primary frequency control considering signal delays and detection errors. Energy Procedia, 2019, 158, 4003-4010.	1.8	5
826	Extending the Automation Pyramid for Industrial Demand Response. Procedia CIRP, 2019, 81, 998-1003.	1.0	32
827	Simulation-based analysis of energy flexible factories in a regional energy supply system. Procedia Manufacturing, 2019, 33, 75-82.	1.9	5
828	Building Energy Consumption Raw Data Forecasting Using Data Cleaning and Deep Recurrent Neural Networks. Buildings, 2019, 9, 204.	1.4	21
829	Prosumers in the post subsidy era: an exploration of new prosumer business models in the UK. Energy Policy, 2019, 135, 110984.	4.2	121
830	Recognition and classification of typical load profiles in buildings with non-intrusive learning approach. Applied Energy, 2019, 255, 113727.	5.1	46
831	Multi-Objective Optimal Capacity Planning for 100% Renewable Energy-Based Microgrid Incorporating Cost of Demand-Side Flexibility Management. Applied Sciences (Switzerland), 2019, 9, 3855.	1.3	24
832	Smart grid and Indian experience: A review. Resources Policy, 2021, 74, 101499.	4.2	27
833	Dynamic Pricing for Electric Vehicle Chargingâ€”A Literature Review. Energies, 2019, 12, 3574.	1.6	47
834	Shaving Peaks by Augmenting the Dependency Graph. , 2019, , .		5
835	Towards demand side management control using household specific Markovian models. Automatica, 2019, 101, 450-457.	3.0	13
836	Energy meters evolution in smart grids: A review. Journal of Cleaner Production, 2019, 217, 702-715.	4.6	200
837	Efficient Edge Nodes Reconfiguration and Selection for the Internet of Things. IEEE Sensors Journal, 2019, 19, 4672-4679.	2.4	21
838	Demand side flexibility from residential heating to absorb surplus renewables in low carbon futures. Renewable Energy, 2019, 138, 598-609.	4.3	20
839	Robust Optimization of Demand Response Power Bids for Drinking Water Systems. Applied Energy, 2019, 238, 1036-1047.	5.1	30
840	Adopting Internet of Things for the development of smart buildings: A review of enabling technologies and applications. Automation in Construction, 2019, 101, 111-126.	4.8	303
841	Coordination of Loads for Ancillary Services With Fourier Domain Consumer QoS Constraints. IEEE Transactions on Smart Grid, 2019, 10, 6148-6155.	6.2	2

#	ARTICLE	IF	CITATIONS
842	Predictive Optimization of the Heat Demand in Buildings at the City Level. Applied Sciences (Switzerland), 2019, 9, 1994.	1.3	3
843	Impact of Combined Demand-Response and Wind Power Plant Participation in Frequency Control for Multi-Area Power Systems. Energies, 2019, 12, 1687.	1.6	15
844	A Methodology for Dependability Evaluation of Smart Grids. Energies, 2019, 12, 1817.	1.6	10
846	Basic Principles, Definitions and Unit Measures. , 2019, , 7-16.		0
847	Introduction to Electricity: Brief History of the Power Industry. , 2019, , 17-32.		0
848	Electricity Systems and the Electricity Supply Chain. , 2019, , 35-49.		0
849	The Four Market Designs of the Electricity System. , 2019, , 50-58.		0
850	Energy Products and the Time Dimension of Electricity Markets. , 2019, , 59-71.		0
851	Some Principles of Electricity Sector Regulation. , 2019, , 72-80.		0
852	Load and Power Generation. , 2019, , 83-93.		0
853	The Centralized Solution of Optimal Dispatching. , 2019, , 94-105.		0
854	Welfare Maximization with Time-Varying Load. , 2019, , 106-120.		0
855	The Market Solution to Optimal Dispatching. , 2019, , 121-135.		0
856	Balancing Markets. , 2019, , 136-154.		0
857	Wholesale Market Competition. , 2019, , 157-170.		0
858	Market Power in Electricity Markets. , 2019, , 171-182.		0
859	Electricity Transmission: Basic Principles. , 2019, , 185-194.		0
860	Meshed Networks and Congestion. , 2019, , 195-203.		0

#	ARTICLE	IF	CITATIONS
861	Transmission Pricing in Practice. , 2019, , 204-214.		0
862	From Nodal Prices to Transmission Capacity Expansion. , 2019, , 215-225.		0
863	Transmission Rights and Price Risk Hedging. , 2019, , 226-234.		0
864	Retail Competition: Supplying Electricity to Final Consumers. , 2019, , 237-245.		0
865	Assessing the Benefits of Retail Competition. , 2019, , 246-258.		0
866	Optimal Investment in Power Generation. , 2019, , 261-271.		0
867	Energy-Only Markets vs. Markets with Capacity Remuneration Mechanisms. , 2019, , 272-282.		0
868	Analysis of Capacity Remuneration Mechanisms. , 2019, , 283-298.		1
869	Global Warming and the Electricity Markets. , 2019, , 301-310.		0
870	Renewable Energy Sources and Electricity Production. , 2019, , 311-318.		0
871	The Integration of Renewable Energy Sources in the Electricity System. , 2019, , 319-325.		0
872	Smart Grids. , 2019, , 326-335.		0
874	Multi-Objective Market Clearing Model with an Autonomous Demand Response Scheme. Energies, 2019, 12, 1261.	1.6	1
875	Mutation operator integrated ant colony optimization based domestic appliance scheduling for lucrative demand side management. Future Generation Computer Systems, 2019, 100, 557-568.	4.9	36
876	A Unified Framework for Behaviour Monitoring and Abnormality Detection for Smart Home. Wireless Communications and Mobile Computing, 2019, 2019, 1-16.	0.8	8
877	Demand response-integrated economic dispatch incorporating renewable energy sources using ameliorated dragonfly algorithm. Electrical Engineering, 2019, 101, 421-442.	1.2	32
878	Holistic modeling framework of demand response considering multi-timescale uncertainties for capacity value estimation. Applied Energy, 2019, 247, 692-702.	5.1	6
879	Defining virtual control group to improve customer baseline load calculation of residential demand response. Applied Energy, 2019, 250, 946-958.	5.1	21

#	ARTICLE	IF	CITATIONS
880	Solar energy and wind power supply supported by storage technology: A review. Sustainable Energy Technologies and Assessments, 2019, 35, 25-31.	1.7	110
881	HVAC Optimization Genetic Algorithm for Industrial Near-Zero-Energy Building Demand Response. Energies, 2019, 12, 2177.	1.6	28
882	Smart Meter Gateways: Options for a BSI-Compliant Integration of Energy Management Systems. Applied Sciences (Switzerland), 2019, 9, 1634.	1.3	16
883	Modeling and control of flexible loads for frequency regulation services considering compensation of communication latency and detection error. Applied Energy, 2019, 250, 161-174.	5.1	61
884	Optimal Scheduling of Plug-in Electric Vehicle Charging Including Time-of-Use Tariff to Minimize Cost and System Stress. Energies, 2019, 12, 1500.	1.6	34
885	Concatenate Convolutional Neural Networks for Non-Intrusive Load Monitoring across Complex Background. Energies, 2019, 12, 1572.	1.6	52
886	Costs of Demand Response from Residential Customersâ€™ Perspective. Energies, 2019, 12, 1617.	1.6	12
887	A Demand Response Approach to Scheduling Constrained Load Shifting. Energies, 2019, 12, 1752.	1.6	27
888	Design and Implementation of Cloud Analytics-Assisted Smart Power Meters Considering Advanced Artificial Intelligence as Edge Analytics in Demand-Side Management for Smart Homes. Sensors, 2019, 19, 2047.	2.1	117
889	Decentralised flexibility management for EVs. IET Renewable Power Generation, 2019, 13, 952-960.	1.7	29
890	Data-Driven Evaluation for Error States of Standard Electricity Meters on Automatic Verification Assembly Line. IEEE Transactions on Industrial Informatics, 2019, 15, 4999-5010.	7.2	16
891	A Survey of Indoor Localization Systems and Technologies. IEEE Communications Surveys and Tutorials, 2019, 21, 2568-2599.	24.8	1,335
892	Internet of Things-Aided Smart Grid: Technologies, Architectures, Applications, Prototypes, and Future Research Directions. IEEE Access, 2019, 7, 62962-63003.	2.6	316
893	Integrated Energy System Modeling of China for 2020 by Incorporating Demand Response, Heat Pump and Thermal Storage. IEEE Access, 2019, 7, 40095-40108.	2.6	71
894	Understanding the adoption and usage of data analytics and simulation among building energy management professionals: A nationwide survey. Building and Environment, 2019, 157, 139-164.	3.0	30
895	Impact of evolving technology on collaborative energy access scaling. Renewable and Sustainable Energy Reviews, 2019, 110, 13-27.	8.2	7
896	On the integration of the energy storage in smart grids: Technologies and applications. Energy Storage, 2019, 1, e50.	2.3	20
897	eloT Activates the Grid Periphery. , 2019, , 17-25.		0

#	ARTICLE	IF	CITATIONS
898	A New Pricing Mechanism for Optimal Load Scheduling in Smart Grid. IEEE Systems Journal, 2019, 13, 1737-1746.	2.9	17
899	Governance of interactions between infrastructure sectors: The making of smart grids in the UK. Environmental Innovation and Societal Transitions, 2019, 32, 140-152.	2.5	14
900	A Survey and Evaluation of the Potentials of Distributed Ledger Technology for Peer-to-Peer Transactive Energy Exchanges in Local Energy Markets. IEEE Systems Journal, 2019, 13, 3454-3466.	2.9	277
901	An Architecture for Distributed Ledger-Based M2M Auditing for Electric Autonomous Vehicles. Advances in Intelligent Systems and Computing, 2019, , 116-128.	0.5	4
902	Studying the integration of solar energy into the operation of a semi-autogenous grinding mill. Part II: Effect of ore hardness variability, geometallurgical modeling and demand side management. Minerals Engineering, 2019, 137, 53-67.	1.8	15
903	Identifying behavioural changes for health monitoring applications using the advanced metering infrastructure. Behaviour and Information Technology, 2019, 38, 1154-1166.	2.5	11
904	Exploring the viability of a local social network for creating persistently engaging energy feedback and improved human well-being. Journal of Cleaner Production, 2019, 224, 789-801.	4.6	12
905	Dynamic dispatch of thermostatically controlled loads using phase oscillator model. Sustainable Energy, Grids and Networks, 2019, 18, 100220.	2.3	2
906	A stepwise power tariff model with game theory based on Monte-Carlo simulation and its applications for household, agricultural, commercial and industrial consumers. International Journal of Electrical Power and Energy Systems, 2019, 111, 14-24.	3.3	41
907	The Development of IoT Within Energy Infrastructure. , 2019, , 27-90.		5
908	Demand response events in district heating: Results from field tests in a university building. Sustainable Cities and Society, 2019, 47, 101481.	5.1	21
909	Performance of heat pump integrated phase change material thermal storage for electric load shifting in building demand side management. Energy and Buildings, 2019, 190, 103-118.	3.1	65
910	Energy management in distribution systems, considering the impact of reconfiguration, RESs, ESSs and DR: A trade-off between cost and reliability. Renewable Energy, 2019, 139, 346-358.	4.3	41
911	Robust Optimal Planning and Operation of Electrical Energy Systems. , 2019, , .		7
912	Energy efficiency and energy justice for U.S. low-income households: An analysis of multifaceted challenges and potential. Energy Policy, 2019, 128, 763-774.	4.2	63
913	Sizing and applications of battery energy storage technologies in smart grid system: A review. Journal of Renewable and Sustainable Energy, 2019, 11, .	0.8	75
914	Reducing High Energy Demand Associated with Air-Conditioning Needs in Saudi Arabia. Energies, 2019, 12, 87.	1.6	31
915	Robust Optimization Method for Obtaining Optimal Scheduling of Active Distribution Systems Considering Uncertain Power Market Price. , 2019, , 293-308.		1

#	ARTICLE	IF	CITATIONS
916	Integration of Air Conditioning and Heating into Modern Power Systems. , 2019, , .		7
917	eloT. , 2019, , .		11
918	Sliding Time Window Electricity Consumption Optimization Algorithm for Communities in the Context of Big Data Processing. IEEE Access, 2019, 7, 13050-13067.	2.6	9
919	Smart Grid Metering Networks: A Survey on Security, Privacy and Open Research Issues. IEEE Communications Surveys and Tutorials, 2019, 21, 2886-2927.	24.8	209
920	A Privacy-Preserving Online Learning Approach for Incentive-Based Demand Response in Smart Grid. IEEE Systems Journal, 2019, 13, 4208-4218.	2.9	22
921	A Survey on Power Management Techniques for Oversubscription of Multi-Tenant Data Centers. ACM Computing Surveys, 2020, 52, 1-31.	16.1	16
922	Review of modeling and control strategy of thermostatically controlled loads for virtual energy storage system. Protection and Control of Modern Power Systems, 2019, 4, .	4.3	32
923	Clustering Residential Customers with Smart Meter data using a Data Analytic Approach “ External Validation and Robustness Analysis. , 2019, , .		3
924	Demand Response Program Implementation for Day-Ahead Power System Operation. , 2019, , .		4
925	Managing complexity through business relationships: the case of the Swedish electricity market. International Journal of Management and Decision Making, 2019, 18, 209.	0.1	1
926	Proactive Energy Optimization in Residential Buildings with Weather and Market Forecasts. Processes, 2019, 7, 929.	1.3	11
927	Equilibrium of Integrated Retail Market by Considering Emission Penalties: Bi-level Game Modeling. , 2019, , .		1
928	A Framework for Peak Shaving Through the Coordination of Smart Homes. , 2019, , .		3
929	A hybrid intelligent control based cyber-physical system for thermal comfort in smart homes. International Journal of Ad Hoc and Ubiquitous Computing, 2019, 30, 199.	0.3	8
930	Optimal storage sizing of energy storage for peak shaving in presence of uncertainties in distributed energy management systems. International Journal of Modelling, Identification and Control, 2019, 31, 72.	0.2	9
931	Impact on Voltage Profile of Demand Response in Residential Loads: Colombian case. , 2019, , .		1
932	Cost- and comfort-aware aggregated modified least slack time-based domestic power scheduling for residential communities. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3834.	2.6	3
933	Home Appliance Modelling and Control for Demand Response Applications. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
934	A Distributed Algorithm for Dynamic Dispatch of Thermostatically Controlled Loads. , 2019, , .		1
935	Balancing Benefit Distribution for Energy Storage Sharing based on Nash Bargaining Solution. , 2019, , .		2
936	Prioritizing Prosumers in the energy trading mechanism: A Game Theoretic approach. , 2019, , .		4
937	Software-based Time Synchronization for Integrating Power Hardware in the Loop Emulation in IEEE1588 Power Profile Testbed. , 2019, , .		1
938	Using the Ecovat system to supply the heat demand of a neighbourhood. , 2019, , .		0
939	Influence of Combining Real-time and Fixed Tariffs in the Demand Response Aggregation and Remuneration Schemes Definition. , 2019, , .		0
940	Customers characterization: A pilot study for the incorporation of demand response programs. , 2019, , .		0
941	The Social Cost of Individual Privacy in Aggregated Residential Demand Response. , 2019, , .		0
942	Improving the Degree of Autarky of a 16 House Neighbourhood in the Netherlands - A case study. , 2019, , .		0
943	Optimal scheduling of critical peak pricing considering photovoltaic generation and electric vehicle load. , 2019, , .		2
944	Assuring Cyber Security in Smart Grid Networks by Fuzzy-logic based Trust Management Model. , 2019, , .		2
945	Study of Interruptible Load Utility Model for Building Users. , 2019, , .		0
946	Smart Household Demand Response Scheduling with Renewable Energy Resources. , 2019, , .		0
947	Monitoring of photovoltaic systems for self-consumption without over-consumption. , 2019, , .		0
948	Electricity theft detection by sources of threats for smart city planning. IET Smart Cities, 2019, 1, 52-60.	1.6	22
949	Performance of 10 kWp PV Rooftop System Based on Smart Grid in Energy Building PUSPIPTEK. , 2019, , .		2
950	Network-based distributed direct load control guaranteeing fair welfare maximisation. IET Control Theory and Applications, 2019, 13, 2959-2968.	1.2	2
951	Assessing the benefits of capacity payment, feed-in-tariff and time-of-use programme on long-term renewable energy sources integration. IET Smart Grid, 2019, 2, 602-611.	1.5	9

#	ARTICLE	IF	CITATIONS
952	Multi-communication technology based AMI for smart metering in India. , 2019, , .		6
953	Attacks on Electricity Markets. , 2019, , .		6
954	Comparison of the Greenhouse Gas Emission Reduction Potential of Energy Communities. Energies, 2019, 12, 4440.	1.6	33
955	Conceptual Design of IoT-Based AMR Systems Based on IEC 61850 Microgrid Communication Configuration Using Open-Source Hardware/Software IED. Energies, 2019, 12, 4281.	1.6	10
956	Flexible feeder interconnections for increased penetration of renewables and improved volt/VAr control in distribution networks. IET Generation, Transmission and Distribution, 2019, 13, 4861-4869.	1.4	2
957	Aggregating residential demands with a multi-armed bandit approach. , 2019, , .		5
958	Demand Side Flexibility in the Residential Scenario: A survey of techniques. , 2019, , .		0
959	Optimal DRPs selection using a nonâ€linear model based on load profile clustering. IET Generation, Transmission and Distribution, 2019, 13, 5495-5503.	1.4	7
960	A review of the applications of fuel cells in microgrids: opportunities and challenges. BMC Energy, 2019, 1, .	6.3	34
961	How much load flexibility can a euro buy? Findings from a contingent valuation experiment with companies in the German commerce and services sector. Energy Economics, 2019, 84, 104603.	5.6	4
962	Demand Response Management in the Presence of Renewable Energy Sources using Stackelberg Game Theory. IOP Conference Series: Materials Science and Engineering, 2019, 605, 012004.	0.3	11
963	Maximizing the degree of autarky of a 16 house neighbourhood by locally produced energy and smart control. Sustainable Energy, Grids and Networks, 2019, 20, 100270.	2.3	7
964	Simultaneous Design of Power Flow and Controller to Enhance Damping Performance of Power Systems *. , 2019, , .		0
965	A Self-Healing Technique for a Smart Distribution Grids with Distributed Energy Resources. , 2019, , .		0
966	On the Use of Synchronized LoRaWAN for the Coordination of Distributed Energy Resources in Smart Grids. , 2019, , .		2
967	SEHAS: A Novel Metaheuristic Algorithm for Home Appliances Scheduling in Smart Grid. , 2019, , .		2
968	Electric power distribution system expansion planning considering cost elasticity of demand. IET Generation, Transmission and Distribution, 2019, 13, 5229-5236.	1.4	18
969	Flexibility in the context of a cellular system model. , 2019, , .		7

#	ARTICLE	IF	CITATIONS
970	Reflecting trends in the academic landscape of sustainable energy using probabilistic topic modeling. <i>Energy, Sustainability and Society</i> , 2019, 9, .	1.7	17
971	Electric Load Influence on Performances of a Composite Plant for Hydrogen Production from RES and its Conversion in Electricity. <i>Sustainability</i> , 2019, 11, 6362.	1.6	3
972	A Decentralized Framework for the Optimal Coordination of Distributed Energy Resources. <i>IEEE Transactions on Power Systems</i> , 2019, 34, 349-359.	4.6	36
973	Introduction to Smart Grid Architecture. <i>Energy Systems in Electrical Engineering</i> , 2019, , 3-45.	0.5	17
974	Harnessing households to mitigate renewables intermittency in the smart grid. <i>Renewable Energy</i> , 2019, 132, 1216-1229.	4.3	20
975	Real-Time Scheduling of Demand Response Options Considering the Volatility of Wind Power Generation. <i>IEEE Transactions on Sustainable Energy</i> , 2019, 10, 1633-1643.	5.9	20
976	Energy Management System for Renewable Distributed Generation and Energy Storage. <i>Energy Systems in Electrical Engineering</i> , 2019, , 233-254.	0.5	1
978	Social acceptance, lost objects, and obsession with the “public”™The pressing need for enhanced conceptual and methodological rigor. <i>Energy Research and Social Science</i> , 2019, 48, 269-276.	3.0	30
979	Optimal distribution feeder reconfiguration and generation scheduling for microgrid day-ahead operation in the presence of electric vehicles considering uncertainties. <i>Journal of Energy Storage</i> , 2019, 21, 58-71.	3.9	58
980	Nodal market power assessment of flexible demand resources. <i>Applied Energy</i> , 2019, 235, 564-577.	5.1	18
981	The effect of price responsive loads uncertainty on the risk-constrained optimal operation of a smart micro-grid. <i>International Journal of Electrical Power and Energy Systems</i> , 2019, 106, 546-560.	3.3	26
982	Field testing of repurposed electric vehicle batteries for price-driven grid balancing. <i>Journal of Energy Storage</i> , 2019, 21, 40-47.	3.9	16
983	Reinforcement learning for demand response: A review of algorithms and modeling techniques. <i>Applied Energy</i> , 2019, 235, 1072-1089.	5.1	446
984	Robust model for optimal allocation of renewable energy sources, energy storage systems and demand response in distribution systems via information gap decision theory. <i>IET Generation, Transmission and Distribution</i> , 2019, 13, 511-520.	1.4	47
985	Faroe Islands: Towards 100% R.E.S. penetration. <i>Renewable Energy</i> , 2019, 135, 473-484.	4.3	27
986	Smart energy systems for sustainable smart cities: Current developments, trends and future directions. <i>Applied Energy</i> , 2019, 237, 581-597.	5.1	246
987	Optimal operational planning of scalable DC microgrid with demand response, islanding, and battery degradation cost considerations. <i>Applied Energy</i> , 2019, 237, 695-707.	5.1	111
988	Stochastic Electricity Social Welfare Enhancement Based on Consensus Neighbor Virtualization. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 9571-9580.	5.2	10

#	ARTICLE	IF	CITATIONS
989	Internet of things application in smart grid: A brief overview of challenges, opportunities, and future trends. , 2019, , 267-283.		14
990	Mixing work and leisure? Energy conservation actions and spillovers between building occupants at work and at home in the UAE. Energy Research and Social Science, 2019, 47, 215-223.	3.0	11
991	Managing PV power injection and storage, enabling a larger direct consumption of renewable energy: A case study for the Belgian electricity system. Progress in Photovoltaics: Research and Applications, 2019, 27, 905-917.	4.4	3
992	Demand response management system with discrete time window using supervised learning algorithm. Cognitive Systems Research, 2019, 57, 131-138.	1.9	13
993	Smart Grid Control. Power Electronics and Power Systems, 2019, , .	0.6	17
994	Long-Term Challenges for Future Electricity Markets with Distributed Energy Resources. Power Electronics and Power Systems, 2019, , 59-81.	0.6	2
995	Multi-Period energy procurement policies for smart-grid communities with deferrable demand and supplementary uncertain power supplies. Omega, 2019, 89, 212-226.	3.6	11
996	A review of advances for thermal and visual comfort controls in personal environmental control (PEC) systems. Intelligent Buildings International, 2019, 11, 75-104.	1.3	37
997	Consumersâ€™ Flexibility Estimation at the TSO Level for Balancing Services. IEEE Transactions on Power Systems, 2019, 34, 1918-1930.	4.6	27
998	Demand Response in Future Power Networks: Panorama and State-of-the-art. Studies in Systems, Decision and Control, 2019, , 167-191.	0.8	21
999	Load management in buildings. , 2019, , 137-179.		4
1000	Sustainable Smart Cities Through the Lens of Complex Interdependent Infrastructures: Panorama and State-of-the-art. Studies in Systems, Decision and Control, 2019, , 45-68.	0.8	27
1001	Thermal comfort evaluation in campus classrooms during room temperature adjustment corresponding to demand response. Building and Environment, 2019, 148, 488-497.	3.0	75
1002	Prioritizing the effectiveness of a comprehensive set of demand response programs on wind power integration. International Journal of Electrical Power and Energy Systems, 2019, 107, 149-158.	3.3	15
1003	Linking energy-cyber-physical systems with occupancy prediction and interpretation through WiFi probe-based ensemble classification. Applied Energy, 2019, 236, 55-69.	5.1	85
1004	Forecasting of Turkeyâ€™s monthly electricity demand by seasonal artificial neural network. Neural Computing and Applications, 2019, 31, 2217-2231.	3.2	50
1005	Optimal Waterâ€™Power Flow-Problem: Formulation and Distributed Optimal Solution. IEEE Transactions on Control of Network Systems, 2019, 6, 37-47.	2.4	72
1006	Achieving Self-Balancing by Design in Photovoltaic Energy Storage Systems. IEEE Transactions on Control Systems Technology, 2019, 27, 1151-1164.	3.2	5

#	ARTICLE	IF	CITATIONS
1007	Long-Range Low-Power Wireless Networks and Sampling Strategies in Electricity Metering. IEEE Transactions on Industrial Electronics, 2019, 66, 1629-1637.	5.2	49
1008	Thermal Transients in District Heating Systems. Energy, 2019, 184, 22-33.	4.5	38
1009	A novel incentive-based demand response model for Cournot competition in electricity markets. Energy Systems, 2019, 10, 95-112.	1.8	24
1010	Retail Market Equilibrium in Multicarrier Energy Systems: A Game Theoretical Approach. IEEE Systems Journal, 2019, 13, 738-747.	2.9	34
1011	Optimal Bidding Strategy for a DER Aggregator in the Day-Ahead Market in the Presence of Demand Flexibility. IEEE Transactions on Industrial Electronics, 2019, 66, 1509-1519.	5.2	146
1012	Co-Design of Distributed Model-Based Control and Event-Triggering Scheme for Load Frequency Regulation in Smart Grids. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3311-3319.	5.9	36
1013	An Interconnected Microgrids-Based Transactive Energy System With Multiple Electric Springs. IEEE Transactions on Smart Grid, 2020, 11, 184-193.	6.2	21
1014	Predictive control algorithms for congestion management in electric power distribution grids. Applied Mathematical Modelling, 2020, 77, 635-651.	2.2	12
1015	Assessing a simplified procedure to reconcile distributed renewable and interactive energy systems and urban patterns. The case study of school buildings in Rome. Journal of Urban Design, 2020, 25, 328-349.	0.6	8
1016	Medium, short and very short-term prognosis of load demand for the Greek Island of Tilos using artificial neural networks and human thermal comfort-discomfort biometeorological data. Renewable Energy, 2020, 147, 100-109.	4.3	20
1017	Institution of incentive-based demand response programs and prospective policy assessments for a subsidized electricity market. Renewable and Sustainable Energy Reviews, 2020, 117, 109490.	8.2	32
1018	Capacity Allocation and Optimal Control of Inverter Air Conditioners Considering Area Control Error in Multi-Area Power Systems. IEEE Transactions on Power Systems, 2020, 35, 332-345.	4.6	36
1020	Technical challenges for the optimum penetration of grid-connected photovoltaic systems: Spain as a case study. Renewable Energy, 2020, 145, 2296-2305.	4.3	36
1021	Distributed Reinforcement Learning Algorithm for Dynamic Economic Dispatch With Unknown Generation Cost Functions. IEEE Transactions on Industrial Informatics, 2020, 16, 2258-2267.	7.2	66
1022	Traditional power markets and an evolution to smart grids. , 2020, , 9-54.		2
1024	Mine operations as a smart grid resource: Leveraging excess process storage capacity to better enable renewable energy sources. Minerals Engineering, 2020, 145, 106103.	1.8	10
1025	5G network-based Internet of Things for demand response in smart grid: A survey on application potential. Applied Energy, 2020, 257, 113972.	5.1	224
1026	Towards Flexibility Trading at TSO-DSO-Customer Levels: A Review. Energies, 2020, 13, 165.	1.6	42

#	ARTICLE	IF	CITATIONS
1029	Policies for managing peak stock of food grains for effective distribution: A case of the Indian food program. <i>Socio-Economic Planning Sciences</i> , 2020, 71, 100773.	2.5	8
1030	A survey of modelling and smart management tools for power grids with prolific distributed generation. <i>Sustainable Energy, Grids and Networks</i> , 2020, 21, 100284.	2.3	55
1031	Defeat the Peak: Behavioral insights for electricity demand response program design. <i>Energy Research and Social Science</i> , 2020, 61, 101352.	3.0	25
1032	En route of electric vehicles with the vehicle to grid technique in distribution networks: Status and technological review. <i>Energy Storage</i> , 2020, 2, e115.	2.3	33
1033	The future of power systems: Challenges, trends, and upcoming paradigms. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2020, 9, e368.	1.9	35
1034	Online Learning for Network Constrained Demand Response Pricing in Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 2563-2575.	6.2	11
1035	Energy Communities and Sharing Economy Concepts in the Electricity Sector: A Survey. , 2020, , .		6
1036	An Efficient Key Management Scheme for Secure Demand-Response Communications in Smart Grid. , 2020, , .		0
1037	Fog Computing for Realizing Smart Neighborhoods in Smart Grids. <i>Computers</i> , 2020, 9, 76.	2.1	11
1038	System of systems uncertainty quantification using machine learning techniques with smart grid application. <i>Systems Engineering</i> , 2020, 23, 770-782.	1.6	12
1039	Active consumer participation in smart energy systems. <i>Energy and Buildings</i> , 2020, 227, 110359.	3.1	48
1040	Optimal management of home loads with renewable energy integration and demand response strategy. <i>Energy</i> , 2020, 210, 118602.	4.5	60
1041	Statistical Energy Information and Analysis of Pakistan Economic Corridor Based on Strengths, Availabilities, and Future Roadmap. <i>IEEE Access</i> , 2020, 8, 169701-169739.	2.6	10
1042	Demand Response Model for Hardware Implementation. , 2020, , .		0
1043	Decentralized neighbourhood energy management considering residential profiles and welfare for grid load smoothing. <i>Sustainable Cities and Society</i> , 2020, 63, 102464.	5.1	9
1044	Blockchain-based DR logic: a trade-off between system operatorâ€™s and customerâ€™s needs. , 2020, , .		2
1045	Analysis and Evaluation Method of Demand Response Market Potential in Guangdong Province. , 2020, , .		0
1046	Dynamic forecast of cooling load and energy saving potential based on Ensemble Kalman Filter for an institutional high-rise building with hybrid ventilation. <i>Building Simulation</i> , 2020, 13, 1259-1268.	3.0	6

#	ARTICLE	IF	CITATIONS
1047	Agent-based modeling and simulation of the electricity market with residential demand response. CSEE Journal of Power and Energy Systems, 0, , .	1.7	7
1048	Towards a transactive energy system for integration of distributed energy resources: Home energy management, distributed optimal power flow, and peer-to-peer energy trading. Renewable and Sustainable Energy Reviews, 2020, 132, 110000.	8.2	144
1049	Photovoltaic Output Power Estimation and Baseline Prediction Approach for a Residential Distribution Network with Behind-the-Meter Systems. Forecasting, 2020, 2, 470-487.	1.6	10
1050	Aggregation of Consumers Participation in the Ramping of a Demand Response Event. , 2020, , .		1
1051	Multi-objective operation of smart stand-alone microgrid with the optimal performance of customers to improve economic and technical indices. Journal of Energy Storage, 2020, 31, 101738.	3.9	27
1052	Anomaly Detection Using Long Short-Term Memory. , 2020, , .		3
1053	Short-term operation of microgrids with thermal and electrical loads under different uncertainties using information gap decision theory. Energy, 2020, 208, 118418.	4.5	16
1054	Energy demand science for a decarbonized society in the context of the residential sector. Renewable and Sustainable Energy Reviews, 2020, 132, 110051.	8.2	33
1055	A MILP Based Two-Stage Load Scheduling Approach for Building Load's Peak-to-Average Ratio Reduction. , 2020, , .		3
1056	Deep learning and reinforcement learning approach on microgrid. International Transactions on Electrical Energy Systems, 2020, 30, e12531.	1.2	9
1057	Futuristic Sustainable Energy Management in Smart Environments: A Review of Peak Load Shaving and Demand Response Strategies, Challenges, and Opportunities. Sustainability, 2020, 12, 5561.	1.6	40
1058	Simulating Tariff Impact in Electrical Energy Consumption Profiles With Conditional Variational Autoencoders. IEEE Access, 2020, 8, 131949-131966.	2.6	12
1059	Significance of demand response in light of current pilot projects in China and devising a problem solution for future advancements. Technology in Society, 2020, 63, 101374.	4.8	17
1060	Review on Smart Meter Data Clustering and Demand Response Analytics. , 2020, , .		2
1061	Design of a Smart Home System Using Bluetooth Protocol. , 2020, , .		4
1062	Demand response through automated air conditioning in commercial buildings's a data-driven approach. Business Research, 2020, 13, 1491-1525.	4.0	0
1063	Non-Intrusive Identification of Load Patterns in Smart Homes Using Percentage Total Harmonic Distortion. Energies, 2020, 13, 4628.	1.6	12
1064	Method for EV charging in stochastic smart microgrid operation with fuel cell and renewable energy source (RES) units. IET Electrical Systems in Transportation, 2020, 10, 249-258.	1.5	10

#	ARTICLE	IF	CITATIONS
1065	Demand Response Programs in Multi-Energy Systems: A Review. <i>Energies</i> , 2020, 13, 4332.	1.6	41
1066	Control Networks and Smart Grid Teleprotection: Key Aspects, Technologies, Protocols, and Case-Studies. <i>IEEE Access</i> , 2020, 8, 174049-174079.	2.6	22
1067	Customer Reward-Based Demand Response Program to Control Tie Line Power. , 2020, , .		0
1068	Review and Prospects for Evaluating Power Grid Dispatching Service Quality. <i>IEEE Access</i> , 2020, 8, 196878-196889.	2.6	2
1069	Paving the Path for Two-Sided Energy Markets: An Overview of Different Approaches. <i>IEEE Access</i> , 2020, 8, 223708-223722.	2.6	11
1070	Optimal Scheduling of Grid Transactive Home Demand Responsive Appliances Using Polar Bear Optimization Algorithm. <i>IEEE Access</i> , 2020, 8, 222285-222296.	2.6	26
1071	Hierarchical Control of Heterogeneous Inverter Air-Conditionings for Primary Frequency Regulation. , 2020, , .		0
1072	Profile Steering with Non-regular Time-Intervals. , 2020, , .		0
1073	An Intelligent Fuzzy Control Approach for a Back-Pressure Autonomous Industrial Microgrid. , 2020, , .		2
1074	A review of Smart Grid Technology, Components, and Implementation. , 2020, , .		2
1075	A Review of Optimal Charging Strategy for Electric Vehicles under Dynamic Pricing Schemes in the Distribution Charging Network. <i>Sustainability</i> , 2020, 12, 10160.	1.6	81
1076	A Comprehensive Review of Recent Advances in Smart Grids: A Sustainable Future with Renewable Energy Resources. <i>Energies</i> , 2020, 13, 6269.	1.6	118
1077	Effect of Sampling Rate on Photovoltaic Self-Consumption in Load Shifting Simulations. <i>Energies</i> , 2020, 13, 5393.	1.6	1
1078	Determinants of Willingness to Participate in Urban Incentive-Based Energy Demand-Side Response: An Empirical Micro-Data Analysis. <i>Sustainability</i> , 2020, 12, 8052.	1.6	6
1079	The economics of peaking power resources in China: Screening curve analysis and policy implications. <i>Resources, Conservation and Recycling</i> , 2020, 158, 104826.	5.3	8
1080	Attacking Electricity Markets Through IoT Devices. <i>Computer</i> , 2020, 53, 55-62.	1.2	11
1081	Assessment of Thermal Comfort in the Intelligent Buildings in View of Providing High Quality Indoor Environment. <i>Energies</i> , 2020, 13, 1973.	1.6	25
1082	Blockchain-based demand response using prosumer scheduling. , 2020, , 131-144.		5

#	ARTICLE	IF	CITATIONS
1083	The stranger in the German energy system? How energy system requirements misalign with household preferences for flexible heat pumps. <i>Energy Research and Social Science</i> , 2020, 67, 101604.	3.0	10
1084	An Online Grey-Box Model Based on Unscented Kalman Filter to Predict Temperature Profiles in Smart Buildings. <i>Energies</i> , 2020, 13, 2097.	1.6	6
1085	IoT Based Wireless Sensor Network for Power Quality Control in Smart Grid. <i>Procedia Computer Science</i> , 2020, 167, 1148-1160.	1.2	47
1086	Market implementation of multiple-arrival multiple-deadline differentiated energy services. <i>Automatica</i> , 2020, 116, 108933.	3.0	3
1087	Power Demand Forecasting Using Long Short-Term Memory Neural Network based Smart Grid. , 2020, , .		2
1088	Multi-objective performance of smart hybrid energy system with Multi-optimal participation of customers in day-ahead energy market. <i>Energy and Buildings</i> , 2020, 216, 109964.	3.1	49
1089	Building Energy Management for Demand Response Using Kernel Lifelong Learning. <i>IEEE Access</i> , 2020, 8, 82131-82141.	2.6	16
1090	Artificial intelligence and machine learning approaches to energy demand-side response: A systematic review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 130, 109899.	8.2	253
1092	Reduced-order models for assessing demand response with heat pumps – Insights from the German energy system. <i>Energy and Buildings</i> , 2020, 223, 110144.	3.1	26
1093	Electrical Customer Profile Using Fuzzy Logic Theory. <i>IEEE Latin America Transactions</i> , 2020, 18, 1353-1361.	1.2	6
1094	Automatic Dominion Of DC Smart Grid Enclosing Multilevel Inverter Amidst To Renewable Source. , 2020, , .		0
1095	A robust biobjective optimization approach for operating a shared energy storage under price uncertainty. <i>International Transactions in Operational Research</i> , 2022, 29, 1627-1658.	1.8	7
1096	Strukturierte Analyse von NachfrageflexibilitÄt im Stromsystem und Ableitung eines generischen Geschäftsmodells für (stromintensive) Unternehmen. <i>Zeitschrift für Energiewirtschaft</i> , 2020, 44, 141-160.	0.2	10
1097	Effects of elasticity parameter definition for real-time pricing remuneration considering different user types. <i>Energy Reports</i> , 2020, 6, 127-132.	2.5	3
1098	A Home Energy Management System With Renewable Energy and Energy Storage Utilizing Main Grid and Electricity Selling. <i>IEEE Access</i> , 2020, 8, 49436-49450.	2.6	100
1099	Study on Pricing Mechanism of Cooling, Heating, and Electricity Considering Demand Response in the Stage of Park Integrated Energy System Planning. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1565.	1.3	5
1100	A Review of PHIL Testing for Smart Grids – Selection Guide, Classification and Online Database Analysis. <i>Electronics (Switzerland)</i> , 2020, 9, 382.	1.8	18
1101	Review of Computational Intelligence Methods for Local Energy Markets at the Power Distribution Level to Facilitate the Integration of Distributed Energy Resources: State-of-the-art and Future Research. <i>Energies</i> , 2020, 13, 186.	1.6	19

#	ARTICLE	IF	CITATIONS
1102	A Quantitative Analysis of Energy Sharing in Community Microgrids. <i>Materials Circular Economy</i> , 2020, 2, 1.	1.6	1
1103	A resilient framework for sensor-based attacks on cyber-physical systems using trust-based consensus and self-triggered control. <i>Control Engineering Practice</i> , 2020, 101, 104509.	3.2	12
1104	Combining Machine Learning Analysis and Incentive-Based Genetic Algorithms to Optimise Energy District Renewable Self-Consumption in Demand-Response Programs. <i>Electronics (Switzerland)</i> , 2020, 9, 945.	1.8	6
1105	Optimization Model for IoT-Aware Energy Exchange in Energy Communities for Residential Users. <i>Electronics (Switzerland)</i> , 2020, 9, 1003.	1.8	15
1106	Revisiting Electricity Network Tariffs in a Context of Decarbonization, Digitalization, and Decentralization. <i>Energies</i> , 2020, 13, 3111.	1.6	11
1107	Adaptive time-delay control of flexible loads in power systems facing accidental outages. <i>Applied Energy</i> , 2020, 275, 115321.	5.1	8
1108	The sounds of science—a symphony for many instruments and voices. <i>Physica Scripta</i> , 2020, 95, 062501.	1.2	9
1109	A Heuristic to Create Prosumer Community Groups in the Social Internet of Energy. <i>Sensors</i> , 2020, 20, 3704.	2.1	11
1110	Transient system-level performance and thermo-mechanical stress analysis of a solid oxide fuel cell-based power generation plant with a multi-physics approach. <i>Computers and Chemical Engineering</i> , 2020, 140, 106972.	2.0	6
1111	Introductory Chapter: Open Problems and Enabling Methodologies for Smart Grids. , 0, , .		0
1112	Making demand side response happen: A review of barriers in commercial and public organisations. <i>Energy Research and Social Science</i> , 2020, 64, 101443.	3.0	48
1113	Blockchain Technology for Smart Grids: Decentralized NIST Conceptual Model. <i>IEEE Access</i> , 2020, 8, 43177-43190.	2.6	46
1114	The use of the peak-clipping method for energy management in households with energy storage equipment. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2020, 43, 257-268.	0.6	2
1115	Demand response based desynchronization of thermostatically controlled loads with hardware implementation. <i>AIP Advances</i> , 2020, 10, 015207.	0.6	0
1116	A Methodology for Security Classification applied to Smart Grid Infrastructures. <i>International Journal of Critical Infrastructure Protection</i> , 2020, 28, 100342.	2.9	45
1117	A Multi-Objective Optimization Approach towards a Proposed Smart Apartment with Demand-Response in Japan. <i>Energies</i> , 2020, 13, 127.	1.6	22
1118	Unified value-based feedback, optimization and risk management in complex electric energy systems. <i>Optimization and Engineering</i> , 2020, 21, 427-483.	1.3	10
1119	Demand response for variable renewable energy integration: A proposed approach and its impacts. <i>Energy</i> , 2020, 197, 117205.	4.5	95

#	ARTICLE	IF	CITATIONS
1120	Contracted energy flexibility characteristics of communities: Analysis of a control strategy for demand response. <i>Applied Energy</i> , 2020, 263, 114600.	5.1	42
1121	Policy cognition is more effective than step tariff in promoting electricity saving behaviour of residents. <i>Energy Policy</i> , 2020, 139, 111338.	4.2	28
1122	An economic-environmental asset planning in electric distribution networks considering carbon emission trading and demand response. <i>Electric Power Systems Research</i> , 2020, 181, 106202.	2.1	38
1123	Flexibility management model of home appliances to support DSO requests in smart grids. <i>Sustainable Cities and Society</i> , 2020, 55, 102048.	5.1	70
1124	Multi-objective optimization of household appliance scheduling problem considering consumer preference and peak load reduction. <i>Sustainable Cities and Society</i> , 2020, 55, 102058.	5.1	39
1125	Towards efficient energy management in smart grids considering microgrids with day-ahead energy forecasting. <i>Electric Power Systems Research</i> , 2020, 182, 106232.	2.1	78
1126	Optimal energy management in the smart microgrid considering the electrical energy storage system and the demand-side energy efficiency program. <i>Journal of Energy Storage</i> , 2020, 28, 101229.	3.9	47
1127	Multilayer modeling of adoption dynamics in energy demand management. <i>Chaos</i> , 2020, 30, 013153.	1.0	7
1128	Public Acceptance of Renewable Energy Sources: a Case Study from the Czech Republic. <i>Energies</i> , 2020, 13, 1742.	1.6	20
1129	Optimal Capacity Allocation of Energy Storage System considering Uncertainty of Load and Wind Generation. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-11.	0.6	10
1130	An integrated approach of estimating demand response flexibility of domestic laundry appliances based on household heterogeneity and activities. <i>Energy Policy</i> , 2020, 142, 111467.	4.2	28
1131	Ensuring the reduction in peak load demands based on load shifting DSM strategy for smart grid applications. <i>Procedia Computer Science</i> , 2020, 167, 2599-2605.	1.2	23
1132	Sustainable Energy for Smart Cities. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , .	0.2	1
1133	A self-partitioning local neuro fuzzy model for short-term load forecasting in smart grids. <i>Energy</i> , 2020, 199, 117514.	4.5	24
1134	Cyber security for fog-based smart grid SCADA systems: Solutions and challenges. <i>Journal of Information Security and Applications</i> , 2020, 52, 102500.	1.8	46
1135	Smart Infrastructure: A Vision for the Role of the Civil Engineering Profession in Smart Cities. <i>Journal of Infrastructure Systems</i> , 2020, 26, .	1.0	72
1136	Review of Energy Efficiency Technologies in the Food Industry: Trends, Barriers, and Opportunities. <i>IEEE Access</i> , 2020, 8, 48015-48029.	2.6	45
1137	Real-Time Simulators Applied to Brazilian Power Systems: A Review. <i>Journal of Control, Automation and Electrical Systems</i> , 2020, 31, 1037-1050.	1.2	3

#	ARTICLE	IF	CITATIONS
1138	A long short-term memory artificial neural network to predict daily HVAC consumption in buildings. Energy and Buildings, 2020, 216, 109952.	3.1	79
1139	Emergy based sustainability evaluation of a hydroelectric dam proposal in South Asia. Journal of Cleaner Production, 2020, 264, 121496.	4.6	14
1140	Distributed energy systems as common goods: Socio-political acceptance of renewables in intelligent microgrids. Renewable and Sustainable Energy Reviews, 2020, 127, 109841.	8.2	84
1141	Methodologies for Customer Baseline Load Estimation and their Implications. , 2020, , .		2
1142	The ethical smart grid: Enabling a fruitful and long-lasting relationship between utilities and customers. Energy Policy, 2020, 140, 111258.	4.2	13
1144	Joint energy and reserve scheduling of renewable powered microgrids accommodating price responsive demand by scenario: A risk-based augmented epsilon-constraint approach. Journal of Cleaner Production, 2020, 262, 121365.	4.6	32
1145	Dynamic Pricing for Electric Vehicle Extreme Fast Charging. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 531-541.	4.7	50
1146	Game Theory-Based Energy-Management Method Considering Autonomous Demand Response and Distributed Generation Interactions in Smart Distribution Systems. IEEE Systems Journal, 2021, 15, 905-914.	2.9	28
1147	Consumers' sensitivities and preferences modelling and integration in a decentralised two levels energy supervisor. Mathematics and Computers in Simulation, 2021, 183, 142-157.	2.4	3
1148	Peer-to-Peer Energy Trading Between Wind Power Producer and Demand Response Aggregators for Scheduling Joint Energy and Reserve. IEEE Systems Journal, 2021, 15, 705-714.	2.9	30
1149	A methodology for detection and classification of power quality disturbances using a real-time operating system in the context of home energy management systems. International Journal of Energy Research, 2021, 45, 203-219.	2.2	19
1150	Progress on the demand side management in smart grid and optimization approaches. International Journal of Energy Research, 2021, 45, 36-64.	2.2	119
1151	Dynamic and Stability Analysis of the Power System With the Control Loop of Inverter Air Conditioners. IEEE Transactions on Industrial Electronics, 2021, 68, 2725-2736.	5.2	28
1152	Reusing abandoned natural gas storage sites for compressed air energy storage. Environmental Geotechnics, 2021, 8, 55-68.	1.3	3
1153	Demand response business model canvas: A tool for flexibility creation in the electricity markets. Journal of Cleaner Production, 2021, 282, 124539.	4.6	50
1154	Demand response model based on improved Pareto optimum considering seasonal electricity prices for Dongfushan Island. Renewable Energy, 2021, 164, 926-936.	4.3	18
1155	A transmission expansion model for dynamic operation of flexible demand. International Journal of Electrical Power and Energy Systems, 2021, 124, 106252.	3.3	10
1156	Load shifting at wastewater treatment plants: A case study for participating as an energy demand resource. Journal of Cleaner Production, 2021, 282, 124454.	4.6	15

#	ARTICLE	IF	CITATIONS
1157	Coordinated Control of Air-Conditioning Loads for System Frequency Regulation. IEEE Transactions on Smart Grid, 2021, 12, 548-560.	6.2	44
1158	Demand response: For congestion management or for grid balancing?. Energy Policy, 2021, 148, 111920.	4.2	34
1159	Demand response and other demand side management techniques for district heating: A review. Energy, 2021, 219, 119440.	4.5	98
1160	Residential Demand Response Strategies and Applications in Active Distribution Network Management. Renewable and Sustainable Energy Reviews, 2021, 138, 110567.	8.2	42
1161	Electric vehicle charging within smart cities. , 2021, , 51-95.		2
1162	Smart Cities: A Data Analytics Perspective. Lecture Notes in Intelligent Transportation and Infrastructure, 2021, , .	0.3	7
1163	Intelligent Paradigms for Smart Grid and Renewable Energy Systems. Algorithms for Intelligent Systems, 2021, , .	0.5	6
1164	Smart Grid Big Data Analytics: Survey of Technologies, Techniques, and Applications. IEEE Access, 2021, 9, 59564-59585.	2.6	67
1165	Demand response of district heating using model predictive control to prevent the draught risk of cold window in an office building. Journal of Building Engineering, 2021, 33, 101855.	1.6	18
1166	A home energy management system with an integrated smart thermostat for demand response in smart grids. Sustainable Cities and Society, 2021, 65, 102639.	5.1	90
1167	Sparse Measurement-Based Coordination of Electric Vehicle Charging Stations to Manage Congestions in Low Voltage Grids. Smart Cities, 2021, 4, 17-40.	5.5	1
1168	Stochastic modeling and scalable predictive control for automated demand response. International Journal of Robust and Nonlinear Control, 2021, 31, 2001-2017.	2.1	1
1169	Using customer-side resources for market-based transmission and distribution level grid services – A review. International Journal of Electrical Power and Energy Systems, 2021, 125, 106480.	3.3	22
1170	Coordinating Demand Response Aggregation With LV Network Operational Constraints. IEEE Transactions on Power Systems, 2021, 36, 979-990.	4.6	28
1171	Simulating dispatchable grid services provided by flexible building loads: State of the art and needed building energy modeling improvements. Building Simulation, 2021, 14, 441-462.	3.0	11
1172	Getting smarter about household energy: the who and what of demand for smart meters. Building Research and Information, 2021, 49, 100-112.	2.0	25
1173	An Overview and Advancement of Electricity Peak Load Saving Methods: A Review. Lecture Notes in Electrical Engineering, 2021, , 945-958.	0.3	10
1175	Real Time Energy Storage Sharing With Load Scheduling: A Lyapunov-Based Approach. IEEE Access, 2021, 9, 46626-46640.	2.6	5

#	ARTICLE	IF	CITATIONS
1176	Stackelberg Game Theory Based Energy Management Systems in the Presence of Renewable Energy Sources. IETE Journal of Research, 2021, 67, 611-619.	1.8	4
1177	Distributed demand-side management for microgrids in modern power system. , 2021, , 163-194.		4
1179	Data-Driven Load Modeling to Analyze the Frequency of System Including Demand Response: A Colombian Study Case. IEEE Access, 2021, 9, 50332-50343.	2.6	0
1180	Metering architecture of smart grid. , 2021, , 687-704.		2
1181	A literature review on BIM for cities Distributed Renewable and Interactive Energy Systems. International Journal of Urban Sustainable Development, 2021, 13, 214-232.	1.0	11
1182	Comparative Analysis of Neural Networks Techniques to Forecast Global Horizontal Irradiance. IEEE Access, 2021, 9, 122829-122846.	2.6	8
1183	Integrated Control Strategy for Electrolytic Aluminum Load Participation in Frequency Modulation. IEEE Access, 2021, 9, 56955-56964.	2.6	7
1184	Distributed Control of DC Grids: Integrating Prosumers's Motives. IEEE Transactions on Power Systems, 2022, 37, 3299-3310.	4.6	8
1185	Expanding Affective Computing Paradigms Through Animistic Design Principles. Lecture Notes in Computer Science, 2021, , 115-135.	1.0	0
1186	Integration Strategies, Challenges, and Merits of Renewable Resources in Electric Vehicles. Advances in Mechatronics and Mechanical Engineering, 2021, , 75-103.	1.0	1
1187	Residential Sector Demand Side Management: A Review. , 2021, , .		5
1188	An Economic Demand Management Strategy for Passive Consumers Considering Demand-Side Management Schemes and Microgrid Operation. Power Systems, 2021, , 179-204.	0.3	0
1189	Big Data Analytics for Smart Grids, the Cyberphysical System in Energy's A Bibliographic Review. Lecture Notes in Networks and Systems, 2021, , 437-447.	0.5	0
1190	Demand Response Frameworks for Smart Residential Buildings. Power Systems, 2021, , 93-130.	0.3	0
1191	Challenges for the optimum penetration of photovoltaic systems. , 2021, , 411-426.		0
1192	Demand-side strategy management using PSO and BSA for optimal day-ahead load shifting in smart grid. , 2021, , 589-605.		1
1193	A Survey on Energy Trading in the Smart Grid: Taxonomy, Research Challenges and Solutions. IEEE Access, 2021, 9, 116231-116253.	2.6	31
1194	Demand response role for enhancing the flexibility of local energy systems. , 2021, , 279-313.		25

#	ARTICLE	IF	CITATIONS
1195	Decentralised Control and Peer-To-Peer Cooperation in Smart Energy Systems. , 2021, , 121-138.		1
1196	Domain structure and energy losses up to 10 kHz in grain-oriented Fe-Si sheets. AIP Advances, 2021, 11, .	0.6	10
1197	PUMPNET: a deep learning approach to pump operation detection. Energy Informatics, 2021, 4, .	1.4	6
1198	BroadER: An ATSC-based Multicasting Scheme for Coordinating Distributed Energy Generation and Demand Response. , 2021, , .		0
1199	IoT based Demand Response Management in Microgrids. , 2021, , .		1
1200	Modeling of unforced demand response programs. International Journal of Emerging Electric Power Systems, 2021, 22, 233-241.	0.6	5
1201	A technical and economic approach to multi-level optimization models for electricity demand considering user-supplier interaction. Journal of King Saud University, Engineering Sciences, 2023, 35, 32-39.	1.2	2
1202	A Possible Smart Metering System Evolution for Rural and Remote Areas Employing Unmanned Aerial Vehicles and Internet of Things in Smart Grids. Sensors, 2021, 21, 1627.	2.1	15
1203	Power system planning with high renewable energy penetration considering demand response. Global Energy Interconnection, 2021, 4, 69-80.	1.4	20
1204	Stochastic short-term integrated electricity procurement and production scheduling for a large consumer. Computers and Chemical Engineering, 2021, 145, 107191.	2.0	15
1205	A Critical Review of Demand Response Products as Resource for Ancillary Services: International Experience and Policy Recommendations. Energies, 2021, 14, 846.	1.6	26
1206	Effect of service quality and online servicescape toward customer satisfaction and loyalty mediated by perceived value. IOP Conference Series: Earth and Environmental Science, 2021, 704, 012011.	0.2	6
1207	Leveraging the water-energy nexus to derive benefits for the electric grid through demand management in the water supply and wastewater sectors. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1510.	2.8	17
1208	Mid-term electricity load prediction using CNN and Bi-LSTM. Journal of Supercomputing, 2021, 77, 10942-10958.	2.4	28
1209	Non-invasive load-shed authentication model for demand response applications assisted by event-based non-intrusive load monitoring. Energy and AI, 2021, 3, 100055.	5.8	5
1210	Bi-level equilibrium of energy retailer smart energy hub game in integrated energy market. IET Smart Grid, 2021, 4, 284-296.	1.5	6
1211	Online electric vehicle charging with discrete charging rates. Sustainable Energy, Grids and Networks, 2021, 25, 100423.	2.3	6
1212	Electric Vehicles in Jordan: Challenges and Limitations. Sustainability, 2021, 13, 3199.	1.6	8

#	ARTICLE	IF	CITATIONS
1213	Innovative Application of Model-Based Predictive Control for Low-Voltage Power Distribution Grids with Significant Distributed Generation. <i>Energies</i> , 2021, 14, 1773.	1.6	1
1214	Smart Grid: Problems, Avenues for Study & Attainable Solutions. , 2021, , .		0
1215	Electricity Tariff Design in the Context of an Ambitious Green Transition. Danish Utility Regulator's Anthology Project Series on Better Regulation in the Energy Sector, 2021, 1, .	0.1	0
1217	Household Electricity Load Forecasting Based on Multitask Convolutional Neural Network with Profile Encoding. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-13.	0.6	1
1218	Data pre-processing and optimization techniques for stochastic and deterministic low-order grey-box models of residential buildings. <i>Energy and Buildings</i> , 2021, 236, 110775.	3.1	20
1219	Deep Reinforcement Learning based Applications in Smart Power Systems. <i>Journal of Physics: Conference Series</i> , 2021, 1881, 022051.	0.3	1
1220	Demand Responsive Dynamic Pricing Framework for Prosumer Dominated Microgrids using Multiagent Reinforcement Learning. , 2021, , .		10
1221	Designing advance production planning and scheduling optimization model for reduce total cost of the cement production process under time-of-use electricity prices. , 2021, , .		0
1222	Distributed Virtual Time-Based Synchronization for Simulation of Cyber-Physical Systems. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2021, 31, 1-24.	0.6	1
1223	The effect of smart meter penetration on dynamic electricity pricing: Evidence from the United States. <i>Electricity Journal</i> , 2021, 34, 106919.	1.3	14
1224	Self-scheduling model for home energy management systems considering the end-users discomfort index within price-based demand response programs. <i>Sustainable Cities and Society</i> , 2021, 68, 102792.	5.1	94
1225	Thermal comfort maintenance in demand response programs: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110847.	8.2	26
1226	Artificial intelligence to support the integration of variable renewable energy sources to the power system. <i>Applied Energy</i> , 2021, 290, 116754.	5.1	63
1227	The use of dynamic programming and golden section search for the optimal load shedding strategy of HEMS participating in demand response program. <i>Journal of Engineering</i> , 2021, 2021, 399.	0.6	1
1228	Exploring the Potentialities of Deep Reinforcement Learning for Incentive-Based Demand Response in a Cluster of Small Commercial Buildings. <i>Energies</i> , 2021, 14, 2933.	1.6	21
1229	Reinforcement learning in local energy markets. <i>Energy Informatics</i> , 2021, 4, .	1.4	8
1230	Implementation of Demand Response Management in microgrids using IoT and Machine Learning. , 2021, , .		3
1231	Automated Control of Transactive HVACs in Energy Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2021, 12, 2462-2471.	6.2	34

#	ARTICLE	IF	CITATIONS
1232	Distributed model predictive control for joint coordination of demand response and optimal power flow with renewables in smart grid. Applied Energy, 2021, 290, 116701.	5.1	25
1233	An improved two-stage robust optimization model for CCHP-P2G microgrid system considering multi-energy operation under wind power outputs uncertainties. Energy, 2021, 223, 120048.	4.5	88
1234	An aggregator-based resource allocation in the smart grid using an artificial neural network and sliding time window optimization. IET Smart Grid, 2021, 4, 612-622.	1.5	4
1235	Dynamic Design Optimization for Flexible Process Equipment. Industrial & Engineering Chemistry Research, 2021, 60, 7678-7688.	1.8	12
1236	An energy management system employing Direct Supply Strategy for the hybrid cogeneration application. Journal of Physics: Conference Series, 2021, 1878, 012029.	0.3	0
1237	An IoT-Fog-Cloud Framework for Demand Side Management in Smart Grid. , 2021, , .		1
1238	Online Adaptive Learning in Energy Trading Stackelberg Games with Time-Coupling Constraints. , 2021, , .		2
1239	² based energy management in smart energy system: A hybrid ²SA technique. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2021, 34, e2893.	1.2	6
1240	Using the internet of things in smart energy systems and networks. Sustainable Cities and Society, 2021, 68, 102783.	5.1	88
1241	Local Energy Trading in Future Distribution Systems. Energies, 2021, 14, 3110.	1.6	24
1242	Optimal setting of time-and-level-of-use prices for an electricity supplier. Energy, 2021, 225, 120517.	4.5	13
1243	The Human Digitalisation Journey: Technology First at the Expense of Humans?. Information (Switzerland), 2021, 12, 267.	1.7	10
1244	Integrating Future Smart Home Operation Platform With Demand Side Management via Deep Reinforcement Learning. IEEE Transactions on Green Communications and Networking, 2021, 5, 921-933.	3.5	12
1245	Progress in Demand Response and Its Industrial Applications. Frontiers in Energy Research, 2021, 9, .	1.2	25
1246	Multi-agent decentralized microgrids planning considering long-term demand response model. International Journal of Energy Research, 2021, 45, 18149-18172.	2.2	3
1247	Intelligent energy management based on SCADA system in a real Microgrid for smart building applications. Renewable Energy, 2021, 171, 1115-1127.	4.3	90
1248	Distributed Cross-Community Collaboration for the Cloud-Based Energy Management Service. , 2021, , .		0
1249	Peak shaving in district heating exploiting reinforcement learning and agent-based modelling. Engineering Applications of Artificial Intelligence, 2021, 102, 104235.	4.3	13

#	ARTICLE	IF	CITATIONS
1250	Demand-side management for off-grid solar-powered microgrids: A case study of rural electrification in Tanzania. <i>Energy</i> , 2021, 224, 120229.	4.5	16
1251	Demand Forecasting in Smart Grid Using Long Short-Term Memory. , 2021, , .		4
1252	Demand response integrated day-ahead energy management strategy for remote off-grid hybrid renewable energy systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2021, 129, 106731.	3.3	43
1253	Calculation Method for Electricity Price and Rebate Level in Demand Response Programs. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6871.	1.3	4
1254	Demand side management for electricity in Iran: cost and emission analysis using LEAP modeling framework. <i>Environment, Development and Sustainability</i> , 2022, 24, 5667-5693.	2.7	11
1255	An Empirical Study of How Household Energy Consumption Is Affected by Co-Owning Different Technological Means to Produce Renewable Energy and the Production Purpose. <i>Energies</i> , 2021, 14, 3996.	1.6	5
1257	Steam Turbine Rotor Stress Control through Nonlinear Model Predictive Control. <i>Energies</i> , 2021, 14, 3998.	1.6	4
1258	Planning and Scheduling for Industrial Demand-Side Management: State of the Art, Opportunities and Challenges under Integration of Energy Internet and Industrial Internet. <i>Sustainability</i> , 2021, 13, 7753.	1.6	10
1259	Artificial intelligence based grid connected inverters for power quality improvement in smart grid applications. <i>Computers and Electrical Engineering</i> , 2021, 93, 107208.	3.0	21
1260	Improving demand response scheme in smart grids using reinforcement learning. <i>International Journal of Energy Research</i> , 2021, 45, 21082-21095.	2.2	4
1261	Performance Analysis and Techno-Economic Optimization of Green Energy Systems for Remote Areas in the Maghreb. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2021, 6, 1.	1.8	4
1262	Research on Elastic Loads Participating in Demand Response Based on the Price Mechanism and the Demand Elasticity. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 831, 012070.	0.2	0
1263	Integrating Distributed Energy Resources into the Independent System Operatorsâ€™ Energy Market: a Review. <i>Current Sustainable/Renewable Energy Reports</i> , 2021, 8, 233-241.	1.2	8
1264	The effect of price-based demand response on carbon emissions in European electricity markets: The importance of adequate carbon prices. <i>Applied Energy</i> , 2021, 295, 117040.	5.1	68
1265	Simulation Studies to Quantify the Impact of Demand Side Management on Environmental Footprint. <i>Sustainability</i> , 2021, 13, 9504.	1.6	1
1266	Resilient Predictive Control Coupled with a Worst-Case Scenario Approach for a Distributed-Generation-Rich Power Distribution Grid. <i>Clean Technologies</i> , 2021, 3, 629-655.	1.9	1
1267	Optimal siting and sizing of electrical vehicle parking lots by considering technical constraints. <i>Evolutionary Intelligence</i> , 2023, 16, 269-283.	2.3	1
1268	Price-based unit commitment with decision-dependent uncertainty in hourly demand. <i>IET Smart Grid</i> , 0, , .	1.5	0

#	ARTICLE	IF	CITATIONS
1269	A Demand-Response integrated solution for HVAC units in office buildings application. , 2021, , .		0
1270	A Technical and Economic Criteria Comparison on Demand Side Management with Multi-Level Optimization Model. IEEE Latin America Transactions, 2021, 19, 1494-1501.	1.2	6
1271	Operation and energy flexibility evaluation of direct load controlled buildings equipped with heat pumps. Energy and Buildings, 2021, 253, 111484.	3.1	7
1272	Community-scale interaction of energy efficiency and demand flexibility in residential buildings. Applied Energy, 2021, 298, 117149.	5.1	38
1273	A compound of feature selection techniques to improve solar radiation forecasting. Expert Systems With Applications, 2021, 178, 114979.	4.4	45
1274	Detection of Anomalies in Household Appliances from Disaggregated Load Consumption. , 2021, , .		1
1275	Scalable pathways to net zero carbon in the UK higher education sector: A systematic review of smart energy systems in university campuses. Renewable and Sustainable Energy Reviews, 2021, 147, 111234.	8.2	44
1276	Optimal risk-constrained stochastic scheduling of microgrids with hydrogen vehicles in real-time and day-ahead markets. Journal of Cleaner Production, 2021, 318, 128452.	4.6	33
1277	Regional energy internet project investment decision making framework through interval type-2 fuzzy number based Choquet integral fuzzy synthetic model. Applied Soft Computing Journal, 2021, 111, 107718.	4.1	13
1278	Solar radiation forecasting based on convolutional neural network and ensemble learning. Expert Systems With Applications, 2021, 181, 115167.	4.4	55
1279	A fast algorithm for quadratic resource allocation problems with nested constraints. Computers and Operations Research, 2021, 135, 105451.	2.4	3
1280	Feasibility of Cloud Based Smart Dual Fuel Switching System (SDFSS) of Hybrid Residential Space Heating Systems for Simultaneous Reduction of Energy Cost and Greenhouse Gas Emission. Energy and Buildings, 2021, 250, 111237.	3.1	4
1281	Demand response scheduling algorithm of the economic energy consumption in buildings for considering comfortable working time and user target price. Energy and Buildings, 2021, 250, 111252.	3.1	19
1282	Flexibility analysis for demand-side management in large-scale chemical processes: An ethylene oxide production case study. Chemical Engineering Science, 2021, 243, 116779.	1.9	10
1283	Classification and characterization of intra-day load curves of PV and non-PV households using interpretable feature extraction and feature-based clustering. Sustainable Cities and Society, 2021, 75, 103380.	5.1	12
1284	A cooperative demand response strategy based on repeated game and cartel mechanism. Electric Power Systems Research, 2021, 201, 107475.	2.1	3
1285	DSM for Energy Optimization and Communications Within Smart Grid CPSs. , 2022, , 506-528.		0
1286	Introduction of integrated energy systems. , 2022, , 1-16.		0

#	ARTICLE	IF	CITATIONS
1287	Game-theoretic analysis of market-based operation mechanism for demand response resources. International Journal of Electrical Power and Energy Systems, 2022, 134, 107456.	3.3	5
1288	Price Discounts and Consumer Load-Shifting Behavior in the Smart Grid. , 2022, , 1148-1169.		0
1289	Trust Management Issues for Sensors Security and Privacy in the Smart Grid. , 2022, , 1317-1334.		0
1290	Decentralized Stochastic Disturbance Observer-Based Optimal Frequency Control Method for Interconnected Power Systems With High Renewable Shares. IEEE Transactions on Industrial Informatics, 2022, 18, 3180-3192.	7.2	14
1291	Distribution Systems. Springer Handbooks, 2021, , 1093-1129.	0.3	0
1292	eChain: Leveraging Toward Blockchain Technology for Smart Energy Utilization. Algorithms for Intelligent Systems, 2021, , 73-81.	0.5	4
1293	Efficient energy management system using Internet of things with FORDF technique for distribution system. IET Renewable Power Generation, 2021, 15, 676-688.	1.7	8
1294	An Overview of Demand Response: From its Origins to the Smart Energy Community. IEEE Access, 2021, 9, 96851-96876.	2.6	48
1295	The Impact of Heterogeneity in Consumer Characteristics on the Design of Optimal Time-of-Use Tariffs. SSRN Electronic Journal, 0, , .	0.4	0
1296	State of the Art in Energy Communities and Sharing Economy Concepts in the Electricity Sector. IEEE Transactions on Industry Applications, 2021, 57, 5737-5746.	3.3	21
1297	From the smart grid to the local electricity market. , 2021, , 63-76.		5
1298	One Secure IoT Scheme for Protection of True Nodes. Lecture Notes in Computer Science, 2018, , 143-152.	1.0	2
1299	Proposing an Hourly Dynamic Wind Signal as an Environmental Incentive for Demand Response. Progress in IS, 2017, , 153-164.	0.5	1
1300	Machine Learning Approaches to Electricity Consumption Forecasting in Automated Metering Infrastructure (AMI) Systems: An Empirical Study. Advances in Intelligent Systems and Computing, 2017, , 254-263.	0.5	6
1301	Demand Side Flexibility and Responsiveness: Moving Demand in Time Through Technology. , 2018, , 283-312.		4
1302	EnAPlug “ An Environmental Awareness Plug to Test Energy Management Solutions for Households. Lecture Notes in Computer Science, 2017, , 253-259.	1.0	3
1303	PowerLSTM: Power Demand Forecasting Using Long Short-Term Memory Neural Network. Lecture Notes in Computer Science, 2017, , 727-740.	1.0	36
1304	Distributed MPC for Thermal Comfort in Buildings with Dynamically Coupled Zones and Limited Energy Resources. IFIP Advances in Information and Communication Technology, 2014, , 305-312.	0.5	2

#	ARTICLE	IF	CITATIONS
1305	Demand Response Program Based Load Management for an Islanded Smart Microgrid. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 255-267.	0.5	1
1306	Decentralized H ₂ Load Frequency Control for Multi-area Power Systems with Communication Uncertainties. <i>Communications in Computer and Information Science</i> , 2017, , 429-438.	0.4	2
1308	Large-scale optimization of households with photovoltaic-battery system and demand response. <i>IFAC-PapersOnLine</i> , 2020, 53, 12572-12577.	0.5	2
1309	A preference-based demand response mechanism for energy management in a microgrid. <i>Journal of Cleaner Production</i> , 2020, 255, 120034.	4.6	49
1311	I-BLEND, a campus-scale commercial and residential buildings electrical energy dataset. <i>Scientific Data</i> , 2019, 6, 190015.	2.4	30
1312	Stochastic constrained linear quadratic control in a network of smart microgrids. <i>IET Renewable Power Generation</i> , 2020, 14, 1193-1200.	1.7	4
1313	Electrical Demand and its Flexibility in Different Energy Sectors. <i>Electric Power Components and Systems</i> , 2020, 48, 1339-1361.	1.0	21
1314	A review of barriers in implementing dynamic electricity pricing to achieve cost-causality. <i>Environmental Research Letters</i> , 2020, 15, 093006.	2.2	25
1315	Open-DSOPF: an open-source optimal power flow formulation integrated with OpenDSS. , 2020, , .		15
1316	Using Cluster Analysis and Dynamic Programming for Demand Response Applied to Electricity Load in Residential Homes. <i>ASME Journal of Engineering for Sustainable Buildings and Cities</i> , 2020, 1, .	0.6	2
1317	Real-world user flexibility of energy consumption. , 2016, , .		4
1318	A Hierarchical HVAC Control Scheme for Energy-aware Smart Building Automation. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2020, 25, 1-33.	1.9	10
1319	Application Domain-Based Overview of IoT Network Traffic Characteristics. <i>ACM Computing Surveys</i> , 2021, 53, 1-33.	16.1	39
1320	Comparison of Data-Driven Thermal Building Models for Model Predictive Control. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2019, 7, 730-742.	0.9	6
1322	Optimales Energie-Management fber verteilte, beschrnkte Gradientenverfahren. <i>Automatisierungstechnik</i> , 2019, 67, 922-935.	0.4	2
1323	The 2014 Power Trading Agent Competition. <i>SSRN Electronic Journal</i> , 0, , .	0.4	8
1324	The Neoliberal Politics of "Smart" Electricity Consumption, Household Monitoring, and the Enterprise Form. <i>Canadian Journal of Communication</i> , 2015, 40, 615-636.	0.1	25
1325	Effectiveness and Comparison of Digital Substations Over Conventional Substations. <i>Advances in Science, Technology and Engineering Systems</i> , 2019, 4, 431-439.	0.4	17

#	ARTICLE	IF	CITATIONS
1326	TIME RESPONSE STUDY FOR COMMUNICATION IN PRODUCT LIFECYCLE MANAGEMENT. International Journal of Engineering Science Technologies, 2017, 1, 1-12.	0.2	3
1327	On the Use of LoRaWAN for the Monitoring and Control of Distributed Energy Resources in a Smart Campus. Applied Sciences (Switzerland), 2020, 10, 320.	1.3	32
1328	Residential Power Traces for Five Houses: The iHomeLab RAPT Dataset. Data, 2020, 5, 17.	1.2	8
1329	The Essence of Smart Homes. Advances in Media, Entertainment and the Arts, 2016, , 334-376.	0.0	3
1330	Smart Control Strategy for Small-Scale Photovoltaic Systems Connected to Single-Phase Grids. Advances in Information Security, Privacy, and Ethics Book Series, 0, , 380-404.	0.4	1
1331	Improving the Power Quality of Rural Consumers by Means of Electricity Cost Adjustment. Advances in Computer and Electrical Engineering Book Series, 2019, , 312-341.	0.2	7
1332	Methods of Reducing the Power Supply Outage Time of Rural Consumers. Advances in Computer and Electrical Engineering Book Series, 2019, , 370-392.	0.2	14
1333	Business Model Innovation Approach for Commercializing Smart Grid Systems. American Journal of Industrial and Business Management, 2018, 08, 2007-2051.	0.4	8
1334	Reduced Ecological Footprints of Modern Facilities Introducing the Implementation of Advanced Wireless Technologies, and Human Resourcesâ€™ Benefits. Communications and Network, 2018, 10, 11-29.	0.6	8
1335	Wireless Sensor Networks Based Control Strategies for the Enhancement of Reliability in Smart Grids. Circuits and Systems, 2016, 07, 2499-2506.	0.1	2
1336	Developing an Algorithm to Consider Multiple Demand Response Objectives. Engineering, Technology & Applied Science Research, 2018, 8, 2621-2626.	0.8	7
1337	An Optimal Procedure for Sizing and Siting of DGs and Smart Meters in Active Distribution Networks Considering Loss Reduction. Journal of Electrical Engineering and Technology, 2015, 10, 804-811.	1.2	5
1338	The Impact of Regulation on a Firmâ€™s Incentives to Invest in Emergent Smart Grid Technologies. Energy Journal, 2017, 38, 149-174.	0.9	3
1339	Demand-Side Policy: Mechanisms for Success and Failure. Economics of Energy and Environmental Policy, 2019, 8, .	0.7	4
1340	Short- to Mid-Term Prediction for Electricity Consumption Using Statistical Model and Neural Networks. Transactions on Computational Science and Computational Intelligence, 2021, , 889-895.	0.3	1
1341	Novel Single Group-Based Indirect Customer Baseline Load Calculation Method for Residential Demand Response. IEEE Access, 2021, 9, 140881-140895.	2.6	5
1342	Virtual Power Plants: A New Era of Energy Management in Modern Power Systems. , 2021, , .		3
1343	Meticulously Intelligent Identification System for Smart Grid Network Stability to Optimize Risk Management. Energies, 2021, 14, 6935.	1.6	23

#	ARTICLE	IF	CITATIONS
1344	Toward an omniopicon: the potential of blockchain technology toward influencing vulnerable populations in contested markets. <i>Accounting, Auditing and Accountability Journal</i> , 2022, 35, 1685-1713.	2.6	6
1345	Smart Power Management in OIC Countries: A Critical Overview Using SWOT-AHP and Hybrid MCDM Analysis. <i>Energies</i> , 2021, 14, 6480.	1.6	12
1346	Demand Management for Home Energy Networks using Cost-optimal Appliance Scheduling. , 2014, , .		0
1347	Optimal Participation of DR Aggregators in Day-Ahead Energy and Demand Response Exchange Markets. <i>IFIP Advances in Information and Communication Technology</i> , 2014, , 353-360.	0.5	1
1348	Greener Bits: Formal Analysis of Demand Response. <i>Lecture Notes in Computer Science</i> , 2016, , 323-339.	1.0	0
1349	The Role of Context and Resilient Middleware in Next Generation Smart Grids. , 2016, , .		2
1350	Analysing the Impact of Storage and Load Shifting on Grey Energy Demand Reduction. <i>Communications in Computer and Information Science</i> , 2017, , 27-48.	0.4	0
1351	Grid Connected PV Plant based on Smart Grid Control and Monitoring. <i>International Journal of Advanced Computer Science and Applications</i> , 2017, 8, .	0.5	1
1352	Computational Platform for Household Simulation and Emulation to Test and Validate Energy Management Methodologies. <i>Lecture Notes in Computer Science</i> , 2017, , 321-324.	1.0	0
1354	Control-as-a-Service in Cyber-Physical Energy Systems over Fog Computing. , 2018, , 123-144.		6
1355	Data-driven demand response characterization and quantification. , 2017, , .		3
1356	Load shifting with the use of home energy management system implemented in FPGA. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
1357	A Self-Governing and Decentralized Network of Smart Objects to Share Electrical Power Autonomously. , 2018, , 25-48.		1
1358	Distributed Energetic Resources: Trend, Control and Operation. <i>International Journal of Engineering and Technology</i> , 2017, 9, 3553-3561.	0.1	0
1359	Trust Management Issues for Sensors Security and Privacy in the Smart Grid. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2018, , 86-103.	0.4	0
1360	Coordination Optimization Method for Microgrid User's Demand Response in Local Electricity Markets. <i>Smart Grid</i> , 2018, 08, 121-134.	0.0	1
1362	Methoden der dezentralen Lastoptimierung. <i>Intelligente Technische Systeme, Lösungen Aus Dem Spitzencluster It's OWL</i> , 2018, , 21-37.	0.1	0
1363	Potential Benefits and Current Limits in the Development of Demand Response. , 2018, , 3144-3155.		0

#	ARTICLE	IF	CITATIONS
1364	Developing a Multiple-Objective Demand Response Algorithm for the Residential Context. Lecture Notes in Business Information Processing, 2018, , 265-277.	0.8	0
1365	DSM for Energy Optimization and Communications Within Smart Grid CPSs. Advances in Computer and Electrical Engineering Book Series, 2018, , 1-25.	0.2	0
1366	A Cloud Associated Smart Grid Admin Dashboard. Engineering, Technology & Applied Science Research, 2018, 8, 2499-2507.	0.8	3
1367	Demand Based Efficient Electricity Distribution for Household Using Iot. International Journal for Research in Applied Science and Engineering Technology, 2018, 6, 1615-1619.	0.1	0
1368	Decentralised Multi-Agent based Demand Response for Smart Grid with Inclusion of Green Data Centre. , 2018, , .		0
1369	Prosumersâ€™ Digital Business Models for Electric Vehicles: Exploring Microfoundations for a Balanced Policy Approach. , 2019, , 227-254.		0
1370	Development of Automatic Grounding Wire Working Robot for Substation. Communications in Computer and Information Science, 2019, , 265-273.	0.4	0
1371	IoT as a Solution to Energy-Management Change Drivers. , 2019, , 1-15.		4
1372	Inverter Air Conditioner Aggregation for Providing Frequency Regulation Service. , 2019, , 83-106.		1
1373	Power Flow Design to Enhance Damping Performance of Power Systems. Transactions of the Society of Instrument and Control Engineers, 2019, 55, 127-134.	0.1	0
1374	Potential Benefits and Current Limits in the Development of Demand Response. Advances in Environmental Engineering and Green Technologies Book Series, 2019, , 236-249.	0.3	0
1375	IoT Transforms the Future Electric Grid. , 2019, , 115-120.		0
1377	Perspectives on Dual-Purpose Smart Water Power Infrastructures for Households in Arid Regions. , 0, , .		2
1378	FPKC: An Efficient Algorithm for Improving Short-Term Load Forecasting. Smart Innovation, Systems and Technologies, 2020, , 181-187.	0.5	2
1379	Threats and Challenges of Smart Grids Deployments - A Developing Nationsâ€™ Perspective. ELEKTRIKA-Journal of Electrical Engineering, 2019, 18, 33-43.	0.2	1
1380	Management Challenges of Smart Grids. Ecoproduction, 2020, , 393-415.	0.8	0
1381	A Review on Smart Energy Grid Technology: Features and Specifications. Journal of Engineering and Applied Sciences, 2019, 15, 535-547.	0.2	0
1382	Day-Ahead Load Forecasting Based on Conditional Linear Predictions with Smoothed Daily Profile. EAI/Springer Innovations in Communication and Computing, 2020, , 97-108.	0.9	1

#	ARTICLE	IF	CITATIONS
1383	Towards the Development of a Smart Energy Grid. Advances in Intelligent Systems and Computing, 2020, , 673-682.	0.5	2
1384	AC Optimal Power Flow Incorporating Demand-Side Management Strategy. , 2020, , 147-165.		0
1385	Implementation of Demand Response Programs on Unit Commitment Problem. , 2020, , 37-54.		0
1386	Distributed Multi-Building Coordination for Demand Response. IFAC-PapersOnLine, 2020, 53, 17113-17118.	0.5	0
1387	LOW CARBON CONTROL OF HEAT SOURCE EQUIPMENT USING MODEL PREDICTIVE CONTROL BASED ON DYNAMIC CO ₂ EMISSION FACTOR. Journal of Environmental Engineering (Japan), 2020, 85, 827-835.	0.1	3
1389	Propuesta de una Plataforma de Bajo Costo Basada en Internet de las Cosas para Agricultura Inteligente. Cumbres, 2020, 6, 53-66.	0.2	0
1390	Optimal renewable resources mix for low carbon production energy system in Morocco. Energy Informatics, 2020, 3, .	1.4	0
1391	Güneş Kolektörleri ve Elektrikli Aşofbenli Bir Akıllı Evin Talep Cevap Programı Kapsamında Enerji Yönetimi. European Journal of Science and Technology, 0, , 92-104.	0.5	1
1392	A Scenario-adaptive Online Learning Algorithm for Demand Response. , 2020, , .		4
1393	Optimal Day-Ahead Load Scheduling for Voltage and Frequency Regulation in an Islanded Microgrid. , 2020, , .		0
1394	Dinamik Tüketici Talep Yönetimi Yapabilen Blokzincir/Kripto Para Tabanlı Elektrik Piyasası Aşletme Modeli. European Journal of Science and Technology, 0, , 434-441.	0.5	0
1395	Review of peak load management strategies in commercial buildings. Sustainable Cities and Society, 2022, 77, 103493.	5.1	24
1396	Neurofuzzy Approach for Control of Smart Appliances for Implementing Demand Response in Price Directed Electricity Utilization. , 2020, , 261-278.		0
1398	Smart Energy: A Collaborative Demand Response Solution for Smart Neighborhood. Lecture Notes in Intelligent Transportation and Infrastructure, 2021, , 43-62.	0.3	0
1399	Demand Response in Smart Residential Buildings. Algorithms for Intelligent Systems, 2021, , 361-390.	0.5	0
1400	Load frequency control for renewable energy sources for isolated power system by introducing large scale PV and storage battery. Energy Reports, 2020, 6, 1597-1603.	2.5	14
1401	A New Model of Demand Response in Smart Grid. Algorithms for Intelligent Systems, 2021, , 71-101.	0.5	1
1402	Control system in the smart grid: State of the art and opportunities. , 2020, , .		10

#	ARTICLE	IF	CITATIONS
1403	A system and game strategy for the isolated island electric-gas deeply coupled energy network. Applied Energy, 2022, 306, 118013.	5.1	6
1404	A review on 5G technology for smart energy management and smart buildings in Singapore. Energy and AI, 2022, 7, 100116.	5.8	69
1405	Optimal planning of solar photovoltaic and battery storage systems for grid-connected residential sector: Review, challenges and new perspectives. Renewable and Sustainable Energy Reviews, 2022, 153, 111763.	8.2	111
1406	Control algorithms to mitigate the effect of uncertainties in residential demand management. Applied Energy, 2022, 306, 117971.	5.1	5
1407	The State of the Art in Smart Grid Domain: A Network Modeling Approach. Brain: Broad Research in Artificial Intelligence and Neuroscience, 2020, 11, 201-230.	0.2	2
1408	Weak Control Approach to Consumer-Preferred Energy Management. IFAC-PapersOnLine, 2020, 53, 17083-17088.	0.5	1
1409	The Utilisation of Smart Meter Technology to Increase Energy Awareness for Residential Buildings in Queensland, Australia. Smart Innovation, Systems and Technologies, 2020, , 1-10.	0.5	0
1410	A Review on Demand Side Management Forecasting Models for Smart Grid. Lecture Notes in Electrical Engineering, 2020, , 903-910.	0.3	2
1411	The Future Contribution of Demand Side Management to Solving Kenya's Energy Insecurity Problems. International Journal of Environmental Science and Development, 2020, 11, 111-115.	0.2	1
1412	A Literature Review on Dynamic Pricing - State of Current Research and New Directions. Communications in Computer and Information Science, 2020, , 465-477.	0.4	0
1413	IOT Technology, Applications, and Challenges. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 65-113.	0.4	0
1414	Technical challenges in the application of renewable energy: A review. International Journal of Smart Grid and Clean Energy, 2020, , 689-699.	0.4	2
1415	Concept and Glossary of Demand Response Programs. , 2020, , 1-20.		2
1416	Electricity Consumer Behavior Model. , 2020, , 37-57.		1
1417	Modeling an Improved Demand Response Program in Day-Ahead and Intra-day Markets. , 2020, , 93-111.		2
1418	Detection of Defaulting Participants With Time-Varying Failure Rates in Demand Response. IFAC-PapersOnLine, 2020, 53, 13328-13332.	0.5	0
1419	Comparison of Thermal Load Models for MILP-Based Demand Response Planning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 110-124.	0.2	1
1421	Use of fitted polynomials for the decentralised estimation of network variables in unbalanced radial LV feeders. IET Generation, Transmission and Distribution, 2020, 14, 2368-2377.	1.4	2

#	ARTICLE	IF	CITATIONS
1422	Distribution Systems Resilience Improvement Utilizing Multiple Operational Resources. , 2021, , .		3
1423	Residentsâ€™ Electricity Consumption Habits Prediction based on Similar Days Matching. , 2021, , .		0
1424	Capacity allocation and pricing for energy storage sharing in a smart community. IET Generation, Transmission and Distribution, 0, , .	1.4	0
1425	Internet of Things Proposal for Measuring Wind Variables in a Smart Home Environment. Communications in Computer and Information Science, 2018, , 173-182.	0.4	0
1426	Impact of Demand Response Implementation in India with Focus on Analysis of Consumer Baseline Load. Springer Proceedings in Energy, 2021, , 111-121.	0.2	0
1427	Machine learning algorithm for activity-aware demand response considering energy savings and comfort requirements. IET Smart Grid, 2020, 3, 730-737.	1.5	6
1428	PowerNet: a smart energy forecasting architecture based on neural networks. IET Smart Cities, 2020, 2, 199-207.	1.6	5
1429	Edge-cloud computing application, architecture, and challenges in ubiquitous power Internet of Things demand response. Journal of Renewable and Sustainable Energy, 2020, 12, .	0.8	14
1430	A Review and Categorization of Grid-Interactive Efficient Building Technologies for Building Performance Simulation. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, .	0.6	3
1431	A Technical and Economic Approach to Multi-Level Optimization Models for Electricity Demand Considering User-Supplier Interaction. , 2020, , .		0
1432	Wavelet-Based Sparse Representation of Waveforms for Type-Testing of Static Electricity Meters. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	2
1433	Intelligent Energy Systems as Enabler for Increased Resilience of Manufacturing Systems. Procedia CIRP, 2021, 104, 217-222.	1.0	1
1434	Understanding the limits to forming policy-driven markets in the electricity sector. Environmental Innovation and Societal Transitions, 2021, 40, 645-662.	2.5	6
1435	A Lyapunov-based Real Time Energy Management System for Smart IoT Homes. , 2021, , .		0
1436	A Dynamic Load Control Strategy for an Efficient Building Demand Response. , 2021, , .		3
1437	Utilizing commercial heating, ventilating, and air conditioning systems to provide grid services: A review. Applied Energy, 2022, 307, 118133.	5.1	17
1438	Towards Electric Price and Load Forecasting Using CNN-Based Ensembler in Smart Grid. Sustainability, 2021, 13, 12653.	1.6	31
1439	Social and Economic Value in Emerging Decentralized Energy Business Models: A Critical Review. Energies, 2021, 14, 7864.	1.6	23

#	ARTICLE	IF	CITATIONS
1440	Smart grids and smart technologies in relation to photovoltaics, storage systems, buildings and the environment. <i>Renewable Energy</i> , 2022, 185, 1376-1391.	4.3	85
1441	Optimal Portfolio Selection Methodology for a Demand Response Aggregator. <i>Energies</i> , 2021, 14, 7923.	1.6	5
1442	Assessing customer engagement in electricity distribution-level flexibility product provision: The Norwegian case. <i>Sustainable Energy, Grids and Networks</i> , 2022, 29, 100564.	2.3	6
1443	Improvements in deviation settlement mechanism of Indian electricity grid system through demand response management. <i>International Journal of Emerging Electric Power Systems</i> , 2021, .	0.6	1
1444	A Demand-Response System for Sustainable Manufacturing Using Linked Data and Machine Learning. , 2021, , 155-181.		2
1445	Auction-Based Scheduling of Excess Energy Consumption to Enhance Grid Upward Flexibility. <i>IEEE Access</i> , 2022, 10, 5944-5956.	2.6	2
1446	An Online Learning Framework for Targeting Demand Response Customers. <i>IEEE Transactions on Smart Grid</i> , 2022, 13, 293-301.	6.2	14
1447	Prosumer integration into the Brazilian energy sector: An overview of innovative business models and regulatory challenges. <i>Energy Policy</i> , 2022, 161, 112735.	4.2	20
1449	A Hybrid Pricing Mechanism for Joint System Optimization and Social Acceptance. , 2020, , .		0
1450	Multi-Level Optimization Model for Electrical Energy Demand with User-Supplier Interaction. , 2020, , .		0
1451	Multi-Energy System Planning for Low-Carbon Park Considering Supply and Demand Interaction. , 2020, , .		0
1452	Probabilistic Determination of Consumers Response and Consumption Management Strategies in Demand Response Programs. , 2020, , .		1
1453	Intelligent Cooling Management System Responding to Automated Demand Response. , 2020, , .		0
1454	Smart Metering Synthesis Devoted to Tunisian Grid. , 2020, , .		0
1455	Temporal Pattern Attention-Based Sequence to Sequence model for Multistep Individual Load Forecasting. , 2020, , .		2
1456	Economic Model Predictive Control for a Microgrid with Depreciation LiFePO4 Battery with a Fixed Cycling Interval. , 2020, , .		0
1457	Evaluating Temperature-Dependent Consumers in a Demand Response Program using Machine Learning. , 2020, , .		0
1458	Optimality levels assessment for microgrid electricity generation and consumption processes. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
1459	Big Data Analytics for Power Distribution Systems using AMI and Open Source Tools. , 2020, , .		0
1460	Smart Electrical Grid Integration Platform " SEGIP: Overview of the project scope and goals. , 2020, , .		0
1461	"Virtual Power Plant integration and test bench for railway Smart Grid applied to stationary Energy Storage Systems and Stations", 2020, , .		0
1462	A Review of Decision-Making Strategies of Profit-Seeking Demand Response Aggregators. , 2020, , .		1
1463	Cost-effective Energy Management System in Prosumer based Electricity Market. , 2020, , .		5
1464	Holonic architectures for IoT-empowered energy management in districts. , 2021, , .		1
1465	The Energy Management Strategies of Residential Integrated Energy System Considering Integrated Demand Response. , 2021, , .		2
1466	Impact of Uncertainty on Energy Storage Operation Decisions: Motivation and Framework. , 2021, , .		0
1467	Multi-objective Optimization and Decision-Making for Net-Zero Energy Smart House. Springer Tracts in Nature-inspired Computing, 2022, , 157-181.	1.2	0
1468	Comparing Recurrent Neural Networks using Principal Component Analysis for Electrical Load Predictions. , 2021, , .		3
1469	Asset Participation and Aggregation in Incentive-Based Demand Response Programs. , 2021, , .		1
1470	Proactive Resilient Day-ahead Unit Commitment with Cloud Computing Data Centers. , 2021, , .		1
1471	Selection methods for Demand Response: improving comfort and balancing loads. , 2021, , .		0
1472	A Smart Home Demand Response System based on Artificial Neural Networks Augmented with Constraint Satisfaction Heuristic. , 2021, , .		1
1473	Analyzing Various Aspects of Network Losses in Peer-to-Peer Electricity Trading. Energies, 2022, 15, 686.	1.6	2
1474	Home Energy Forecast Performance Tool for Smart Living Services Suppliers under an Energy 4.0 and CPS Framework. Energies, 2022, 15, 957.	1.6	2
1475	Proactive Resilient Day-Ahead Unit Commitment With Cloud Computing Data Centers. IEEE Transactions on Industry Applications, 2022, 58, 1675-1684.	3.3	6
1476	Blockchain Technology on Smart Grid, Energy Trading, and Big Data: Security Issues, Challenges, and Recommendations. Wireless Communications and Mobile Computing, 2022, 2022, 1-26.	0.8	59

#	ARTICLE	IF	CITATIONS
1477	Influence of data pre-processing and sensor dynamics on grey-box models for space-heating: Analysis using field measurements. <i>Building and Environment</i> , 2022, 212, 108832.	3.0	6
1478	Determinants of Demand Response Program Participation: Contingent Valuation Evidence from a Smart Thermostat Program. <i>Energies</i> , 2022, 15, 590.	1.6	5
1479	Recognizing Abnormal Activity Using MultiClass SVM Classification Approach in Tele-health Care. <i>Smart Innovation, Systems and Technologies</i> , 2022, , 739-750.	0.5	2
1480	An overview on multi-carrier energy networks: From a concept to future trends and challenges. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6164-6186.	3.8	12
1481	Potential of Demand Response for Power Reallocation, a Literature Review. <i>Energies</i> , 2022, 15, 863.	1.6	7
1482	Demand response for manufacturing systems considering the implications of fast-charging battery powered material handling equipment. <i>Applied Energy</i> , 2022, 310, 118550.	5.1	19
1483	Quantifying the effect of multiple load flexibility strategies on commercial building electricity demand and services via surrogate modeling. <i>Applied Energy</i> , 2022, 309, 118372.	5.1	12
1484	An IOT based efficient energy management in smart grid using DHOCSA technique. <i>Sustainable Cities and Society</i> , 2022, 79, 103727.	5.1	19
1485	CPS-enabled and knowledge-aided demand response strategy for sustainable manufacturing. <i>Advanced Engineering Informatics</i> , 2022, 52, 101534.	4.0	12
1486	Automated Demand Response in Smart Distribution Grid: A Review on Metering Infrastructure, Communication Technology and Optimization Models. <i>Electric Power Systems Research</i> , 2022, 206, 107835.	2.1	24
1487	Optimal energy scheduling of storage-based residential energy hub considering smart participation of demand side. <i>Journal of Energy Storage</i> , 2022, 49, 104062.	3.9	11
1488	A two-stage stochastic programming model for the sizing and location of DERs considering electric vehicles and demand response. <i>Sustainable Energy, Grids and Networks</i> , 2022, 30, 100624.	2.3	6
1489	Selecting and prioritizing the electricity customers for participating in demand response programs. <i>IET Generation, Transmission and Distribution</i> , 2022, 16, 2086-2096.	1.4	3
1490	A scalable and practical method for disaggregating heating and cooling electrical usage using smart thermostat and smart metre data. <i>Journal of Building Performance Simulation</i> , 2022, 15, 251-267.	1.0	0
1491	A Distributed Control Approach for Demand Response in Smart Grids. <i>Engineering, Technology & Applied Science Research</i> , 2022, 12, 8129-8135.	0.8	1
1492	Overview of smart grid implementation: Frameworks, impact, performance and challenges. <i>Journal of Energy Storage</i> , 2022, 49, 104056.	3.9	76
1493	Impact of Demand Response on Optimal Sizing of Distributed Generation and Customer Tariff. <i>Energies</i> , 2022, 15, 190.	1.6	24
1494	Integration of Renewable Energy Systems. , 2021, , 1-24.		0

#	ARTICLE	IF	CITATIONS
1496	Certificateless Authentication and Consensus for the Blockchain-Based Smart Grid. Communications in Computer and Information Science, 2022, , 134-151.	0.4	3
1497	Role of power line communications in the Smart Grid: applications, challenges, and research initiatives. , 2022, , 73-98.		2
1498	Home Energy Recommendation System (HERS): A Deep Reinforcement Learning Method Based on Residentsâ€™ Feedback and Activity. IEEE Transactions on Smart Grid, 2022, 13, 2812-2821.	6.2	23
1499	Multiagent Reinforcement Learning for Community Energy Management to Mitigate Peak Rebounds Under Renewable Energy Uncertainty. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 568-579.	3.4	18
1501	Smart grid mechanism for green energy management: A comprehensive review. International Journal of Green Energy, 2023, 20, 284-308.	2.1	18
1502	Diversifikation des marktlichen Risikos bei der Vermarktung industrieller EnergieflexibilitÄt im Kontext von Demand Response. Zeitschrift F¼r Energiewirtschaft, 2022, 46, 41.	0.2	0
1503	A Review of Improvements in Power System Flexibility: Implementation, Operation and Economics. Electronics (Switzerland), 2022, 11, 581.	1.8	9
1504	Centrally Adapted Optimal Control of Multiple Electric Water Heaters. Energies, 2022, 15, 1521.	1.6	4
1505	A rule-based model for electricity theft prevention in advanced metering infrastructure. Journal of Electrical Systems and Information Technology, 2022, 9, .	1.2	3
1506	Cognitive Based Electric Power Management System. Balkan Journal of Electrical and Computer Engineering, 2022, 10, 85-90.	0.4	5
1507	A Hybrid Channel-Communication-Enabled CNN-LSTM Model for Electricity Load Forecasting. Energies, 2022, 15, 2263.	1.6	10
1508	Optimal dispatch of integrated energy system considering integrated demand response resource trading. IET Generation, Transmission and Distribution, 2022, 16, 1727-1742.	1.4	10
1510	Machine Learning-Blockchain Based Autonomic Peer-to-Peer Energy Trading System. Applied Sciences (Switzerland), 2022, 12, 3507.	1.3	6
1511	A Contemporary Survey on IoT Based Smart Cities: Architecture, Applications, and Open Issues. Wireless Personal Communications, 2022, 125, 2319-2367.	1.8	12
1512	Particle Swarm Optimization in Residential Demand-Side Management: A Review on Scheduling and Control Algorithms for Demand Response Provision. Energies, 2022, 15, 2211.	1.6	30
1513	Real-time pricing response attack in smart grid. IET Generation, Transmission and Distribution, 2022, 16, 2441-2454.	1.4	1
1514	Study of Building Demand Response Method Based on Indoor Temperature Setpoint Control of VRV Air Conditioning. Buildings, 2022, 12, 415.	1.4	5
1515	The Network Global Optimal Mapping Approach Utilizing a Discrete Firefly Optimization Algorithm. Journal of Advanced Transportation, 2022, 2022, 1-7.	0.9	2

#	ARTICLE	IF	CITATIONS
1516	Collective effects and synchronization of demand in real-time demand response. Journal of Physics Complexity, 2022, 3, 025002.	0.9	3
1517	A new deregulated demand response scheme for load over-shifting city in regulated power market. Applied Energy, 2022, 311, 118337.	5.1	4
1518	Influence of hydrogen on grid investments for smart microgrids. International Journal of Electrical Power and Energy Systems, 2022, 141, 107968.	3.3	7
1519	Residential Demand Side Management model, optimization and future perspective: A review. Energy Reports, 2022, 8, 3727-3766.	2.5	68
1520	Optimal Scheduling of Integrated Energy Systems Considering the Resource Trading Among Users. , 2021, , .		0
1521	Study on Wind Power Accommodation Method Based on Controllable Electric Heating. , 2021, , .		0
1522	Optimal Dispatch Model considering Flexible Demand Resources and Bidding Uncertainty of Distributed Generation. , 2021, , .		0
1523	An Ethereum-based solution for energy trading in smart grids. Digital Communications and Networks, 2023, 9, 194-202.	2.7	6
1524	Demand Respond Program and Dynamic Thermal Rating System for Enhanced Power Systems. , 2021, 1, 1-8.		0
1525	Advancing the Industrial Sectors Participation in Demand Response within National Electricity Grids. Energies, 2021, 14, 8261.	1.6	0
1526	A Customer Baseline Measurement Method for Residential User of Demand Response. , 2021, , .		0
1528	An Approach to Energy Management in Chittagong Hill Tracts: Prediction Based Analysis. , 2021, , .		0
1529	A Statistical Analysis of Performance in the 2021 CEC-GECCO-PESGM Competition on Evolutionary Computation in the Energy Domain. , 2021, , .		2
1530	Enabling Technologies for Sector Coupling: A Review on the Role of Heat Pumps and Thermal Energy Storage. Energies, 2021, 14, 8195.	1.6	10
1531	Elastic Energy Management Algorithm Using IoT Technology for Devices with Smart Appliance Functionality for Applications in Smart-Grid. Energies, 2022, 15, 109.	1.6	2
1532	Enabling demand response for optimal deployment of multi-carrier microgrids incorporating incentives. IET Renewable Power Generation, 2022, 16, 547-564.	1.7	9
1533	Electricity Consumption Forecasting for Out-of-Distribution Time-of-Use Tariffs. , 2022, 3, .		0
1534	Obstacles to demand response: Why industrial companies do not adapt their power consumption to volatile power generation. Energy Policy, 2022, 165, 112876.	4.2	17

#	ARTICLE	IF	CITATIONS
1535	Active Buildings Demand Response: Provision and Aggregation. <i>Green Energy and Technology</i> , 2022, , 355-380.	0.4	2
1537	A Class of Convex Quadratic Nonseparable Resource Allocation Problems with Generalized Bound Constraints. <i>INFORMS Journal on Optimization</i> , 2022, 4, 215-247.	0.9	1
1538	Lowest Tariff Load Shifting Demand Side Management Technique in Smart Grid Environment. <i>International Journal of Social Ecology and Sustainable Development</i> , 2022, 13, 1-16.	0.1	2
1539	Home Energy Management Systems: Operation and Resilience of Heuristics Against Cyberattacks. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2022, 8, 21-30.	1.2	4
1540	An open-source optimization toolkit for the smart scheduling of DERs in distribution grids. , 2022, , .		1
1541	Industrial Flexibility as Demand Side Response for Electrical Grid Stability. <i>Frontiers in Energy Research</i> , 2022, 10, .	1.2	6
1542	A hybrid approach for optimal energy management system of internet of things enabled residential buildings in smart grid. <i>International Journal of Energy Research</i> , 0, , .	2.2	2
1543	A novel energy management framework incorporating multi-carrier energy hub for smart city. <i>IET Generation, Transmission and Distribution</i> , 2023, 17, 655-666.	1.4	17
1544	Robust microgrid energy trading and scheduling under budgeted uncertainty. <i>Expert Systems With Applications</i> , 2022, 203, 117471.	4.4	5
1545	Effectiveness of neural networks and transfer learning for indoor air-temperature forecasting. <i>Automation in Construction</i> , 2022, 140, 104314.	4.8	9
1546	Regulation capacity evaluation of large-scale residential air conditioners for improving flexibility of urban power systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 142, 108269.	3.3	5
1547	Dinamik ¼ketici Talep Y¶netimi Yapabilen Blokzincir/Kripto Para Tabanlı± Elektrik Piyasas± Ä°Åyletme Modeli. <i>European Journal of Science and Technology</i> , 0, , 63-69.	0.5	0
1549	Coordination of resources at the edge of the electricity grid: Systematic review and taxonomy. <i>Applied Energy</i> , 2022, 318, 119188.	5.1	15
1550	The impact of heterogeneity in consumer characteristics on the design of optimal time-of-use tariffs. <i>Energy</i> , 2022, 254, 124248.	4.5	2
1551	Study on the performance and economy of the building-integrated micro-grid considering photovoltaic and pumped storage: a case study in Foshan. <i>International Journal of Low-Carbon Technologies</i> , 2022, 17, 630-636.	1.2	5
1553	Motivations, barriers, and enablers for demand response programs: A commercial and industrial consumer perspective. <i>Energy Research and Social Science</i> , 2022, 90, 102667.	3.0	25
1554	Automatic Power Management System by Integration of Conventional and Non-Conventional Energy Resources. , 2022, , .		1
1555	Forecasting an electricity demand threshold to proactively trigger cost saving demand response actions. <i>Energy and Buildings</i> , 2022, 268, 112221.	3.1	4

#	ARTICLE	IF	CITATIONS
1556	A comprehensive and modular set of appliance operation MILP models for demand response optimization. <i>Applied Energy</i> , 2022, 320, 119142.	5.1	8
1559	Design of Menu Pricing Mechanisms for Electricity Market with a High Proportion of Renewable Energy. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1560	A Survey on Information Communication Technologies in Modern Demand-Side Management for Smart Grids: Challenges, Solutions, and Opportunities. <i>IEEE Engineering Management Review</i> , 2023, 51, 76-107.	1.0	14
1561	Analysis of future carbon-neutral energy system " The case of VÄxjö Municipality, Sweden. <i>Smart Energy</i> , 2022, 7, 100082.	2.6	6
1562	Hierarchical Multiobjective Distributed Deep Learning for Residential Short-Term Electric Load Forecasting. <i>IEEE Access</i> , 2022, 10, 69950-69962.	2.6	4
1563	Cascaded Deep Hybrid Models for Multistep Household Energy Consumption Forecasting. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
1564	Overview of the Usability of Second-Life Batteries in Smart Distribution Grids. , 2022, , .		3
1565	The implementation and performance evaluation for a smart robot with edge computing algorithms. <i>Industrial Robot</i> , 2023, 50, 581-594.	1.2	2
1566	Understanding patterns of thermostat overrides after demand response events. <i>Energy and Buildings</i> , 2022, 271, 112312.	3.1	11
1567	Survey of Simulation Tools to Assess Techno-Economic Benefits of Smart Grid Technology in Integrated T&D Systems. <i>Sustainability</i> , 2022, 14, 8108.	1.6	4
1568	Interpretable LSTM Based on Mixture Attention Mechanism for Multi-Step Residential Load Forecasting. <i>Electronics (Switzerland)</i> , 2022, 11, 2189.	1.8	11
1569	Circular economy principles in community energy initiatives through stakeholder perspectives. <i>Sustainable Production and Consumption</i> , 2022, 33, 256-270.	5.7	13
1570	Transactive energy for low voltage residential networks: A review. <i>Applied Energy</i> , 2022, 323, 119556.	5.1	13
1571	Batch reinforcement learning for network-safe demand response in unknown electric grids. <i>Electric Power Systems Research</i> , 2022, 212, 108375.	2.1	6
1572	Anomaly detection on household appliances based on variational autoencoders. <i>Sustainable Energy, Grids and Networks</i> , 2022, 32, 100823.	2.3	6
1574	LOSIH"Load Scheduling In Smart Homes based on demand response: Application to smart grids. <i>Applied Energy</i> , 2022, 323, 119606.	5.1	17
1575	Day Ahead Demand Response Using Load Shifting Technique in Presence of Increased Renewable Penetration. , 2022, , .		3
1576	Research on distribution operation monitoring and visualization technology supporting open communication. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
1577	Farm Energy System Optimization Considering Cost Variation In Demand and Production Side. , 2022, , .		0
1578	Incentive-based Demand Response Economic Model for Peak Shaving Considering Load Serving Entity Profit Maximization. , 2022, , .		1
1579	Optimal Energy Control, Hosting BESS and EVs through Multiport Converter in Interconnected MGs. , 2022, , .		2
1580	Analysys on the feasibility to modulate lighting systems load: the case study of Palermo. , 2022, , .		0
1581	Hybrid optimization technique for <scp>IoTâ€enabled</scp> residential buildings under costâ€effective energy management system on smart grid: A <scp>GPCHUA</scp> method. International Journal of Energy Research, 0, , .	2.2	0
1582	Robust Optimal Demand Response of Energy-efficient Commercial Buildings. , 2022, , .		1
1583	A QoS-Guaranteed and Congestion-Controlled SDN Routing Strategy for Smart Grid. Applied Sciences (Switzerland), 2022, 12, 7629.	1.3	4
1584	An adaptive inertia weight teachingâ€learning-based optimization for optimal energy balance in microgrid considering islanded conditions. Energy Systems, 2024, 15, 141-166.	1.8	1
1585	Evaluating Anomaly Detection Algorithms through different Grid scenarios using k-Nearest Neighbor, iforest and Local Outlier Factor. , 2022, , .		1
1586	A Bibliometric Review on Artificial Intelligence for Smart Buildings. Sustainability, 2022, 14, 10230.	1.6	6
1587	Price-based low-carbon demand response considering the conduction of carbon emission costs in smart grids. Frontiers in Energy Research, 0, 10, .	1.2	4
1589	Peak-Load Energy Management by Direct Load Control Contracts. Management Science, 0, , .	2.4	3
1590	A novel method for eliminating the exponential growth of computing optimal demand response events for large-scale appliances re-scheduling. Sustainable Energy, Grids and Networks, 2022, 32, 100907.	2.3	1
1591	Strategic retail pricing and demand bidding of retailers in electricity market: A data-driven chance-constrained programming. Advances in Applied Energy, 2022, 7, 100100.	6.6	21
1592	A comprehensive review on electric vehicles smart charging: Solutions, strategies, technologies, and challenges. Journal of Energy Storage, 2022, 54, 105241.	3.9	79
1593	A critical review of the performance evaluation and optimization of grid interactions between zero-energy buildings and power grids. Sustainable Cities and Society, 2022, 86, 104123.	5.1	15
1594	A Multi-Objective Fuzzy Optimization Model for Electricity Generation and Consumption Management in a Micro Smart Grid. Sustainable Cities and Society, 2022, 86, 104119.	5.1	13
1595	A multi-use framework of energy storage systems using reinforcement learning for both price-based and incentive-based demand response programs. International Journal of Electrical Power and Energy Systems, 2023, 144, 108519.	3.3	8

#	ARTICLE	IF	CITATIONS
1596	Grid-friendly energy prosumers based on the energy router with load switching functionality. <i>International Journal of Electrical Power and Energy Systems</i> , 2023, 144, 108496.	3.3	5
1597	The future energy internet for utility energy service and demand-side management in smart grid: Current practices, challenges and future directions. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102648.	1.7	18
1598	Peer-to-peer kilowatt and negawatt trading: A review of challenges and recent advances in distribution networks. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 169, 112908.	8.2	31
1599	A comprehensive optimal energy control in interconnected microgrids through multiport converter under N ¹ criterion and demand response program. <i>Renewable Energy</i> , 2022, 199, 957-976.	4.3	8
1600	Real-world challenges for multi-agent reinforcement learning in grid-interactive buildings. <i>Energy and AI</i> , 2022, 10, 100202.	5.8	17
1601	The effect of communication delays on the frequency stability of power systems integrated with inverter air conditioners. <i>Sustainable Energy, Grids and Networks</i> , 2022, 32, 100920.	2.3	4
1602	Multi-objective operation of microgrids based on electrical and thermal flexibility metrics using the NNC and IGDT methods. <i>International Journal of Electrical Power and Energy Systems</i> , 2023, 144, 108617.	3.3	14
1603	Siloxane-Based Nanoporous Polymer Insulating Dielectrics with High Electrical Strength and Low Permittivity for Future Ultra-High Voltage Pipeline Transmission. <i>SSRN Electronic Journal</i> , 0, .	0.4	0
1604	Precise, Low-Cost, and Large-Scale Indoor Positioning System Based on Audio Dual-Chirp Signals. <i>IEEE Transactions on Vehicular Technology</i> , 2023, 72, 1159-1168.	3.9	6
1605	Smart Grid and Demand Side Management. , 2022, , 681-703.		0
1606	Smart Metering Applications. <i>Lecture Notes in Energy</i> , 2022, , 13-124.	0.2	2
1607	Reduction of supply temperature in existing district heating: A review of strategies and implementations. <i>Energy</i> , 2023, 262, 125363.	4.5	11
1608	Distributed Residential Demand Response Using Building Mass and Electric Thermal Storage System. , 2022, , .		1
1609	Analysis of Thermal Comfort in Intelligent and Traditional Buildings. <i>Energies</i> , 2022, 15, 6522.	1.6	7
1610	From Battery Manufacturing to Smart Grids: Towards a Metaverse for the Energy Sciences**. <i>Batteries and Supercaps</i> , 2023, 6, .	2.4	6
1611	An Insight into the Integration of Distributed Energy Resources and Energy Storage Systems with Smart Distribution Networks Using Demand-Side Management. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 8914.	1.3	13
1612	Improvement of the Distribution Systems Resilience via Operational Resources and Demand Response. <i>IEEE Transactions on Industry Applications</i> , 2022, 58, 5966-5976.	3.3	22
1613	A systematic review of machine learning applications in the operation of smart distribution systems. <i>Energy Reports</i> , 2022, 8, 12379-12407.	2.5	10

#	ARTICLE	IF	CITATIONS
1614	Optimal Thermostatically Controlled Loads Coordination Under Stochastic Renewable Energy. , 2022, , .		0
1615	IoT Based Smart Control of Load for Demand Side Management. International Journal of Electrical & Electronics Research, 2022, 10, 684-688.	1.0	1
1616	An efficient Energy Management System for long term planning and real time scheduling of flexible polygeneration systems. Renewable Energy, 2022, 200, 1180-1201.	4.3	6
1617	A hybrid electricity pricing mechanism for joint system optimization and social acceptance within energy communities. Energy Reports, 2022, 8, 13281-13292.	2.5	5
1618	Deep reinforcement learning-based strategy for charging station participating in demand response. Applied Energy, 2022, 328, 120140.	5.1	7
1619	Power TAC: Software architecture for a competitive simulation of sustainable smart energy markets. SoftwareX, 2022, 20, 101217.	1.2	3
1620	Deep reinforcement learning with planning guardrails for building energy demand response. Energy and AI, 2023, 11, 100204.	5.8	3
1621	A review of data-driven smart building-integrated photovoltaic systems: Challenges and objectives. Energy, 2023, 263, 126082.	4.5	18
1623	Participation of active consumers in the electricity system: Design choices for consumer governance. Energy Strategy Reviews, 2022, 44, 100992.	3.3	2
1624	Price-Guided Peer-To-Peer Trading Scheme and Its Effects on Transaction Costs and Network Losses. Energies, 2022, 15, 8274.	1.6	2
1625	Testbed for Evaluating and Analyzing Smart Grid Behavior in Demand Response Scenarios *. , 2022, , .		0
1626	A grid view on the dynamics of processes participating in demand response programs. Computers and Chemical Engineering, 2023, 169, 108070.	2.0	3
1627	Deep learning based real time Demand Side Management controller for smart building integrated with renewable energy and Energy Storage System. Journal of Energy Storage, 2023, 58, 106412.	3.9	11
1628	On the Effects of Active Energy Community Participation in the Energy System. , 2022, , .		0
1629	Demand Response as a possible new service in after-war Ukrainian power system. , 2022, , .		0
1630	Development of a Self-Calibrated Embedded System for Energy Management in Low Voltage. Energies, 2022, 15, 8707.	1.6	3
1631	Flexible Loads Scheduling Algorithms for Renewable Energy Communities. Energies, 2022, 15, 8875.	1.6	3
1633	A Stackelberg Game Theory Based Demand Response Algorithm for Domestic Consumers. Electric Power Components and Systems, 2022, 50, 1186-1199.	1.0	3

#	ARTICLE	IF	CITATIONS
1634	Optimization of Energy Processes in Local Power Supply Systems with Variable Operating Modes. <i>Studies in Systems, Decision and Control</i> , 2023, , 133-157.	0.8	0
1635	The Production of Infrastructural Value and the Extension of the Electricity Grid. <i>Science and Technology Studies</i> , 0, , .	0.6	1
1636	Customer perspectives on demand response in Europe: a systematic review and thematic synthesis. <i>Sustainability: Science, Practice, and Policy</i> , 2023, 19, 14-32.	1.1	0
1637	Non-intrusive load monitoring techniques for the disaggregation of ON/OFF appliances. <i>Energy Informatics</i> , 2022, 5, .	1.4	1
1639	Federated learning for interpretable short-term residential load forecasting in edge computing network. <i>Neural Computing and Applications</i> , 2023, 35, 8561-8574.	3.2	4
1640	Optimization of Demand Response. <i>Studies in Computational Intelligence</i> , 2023, , 149-165.	0.7	0
1641	Blockchain and Machine Learning for Future Smart Grids: A Review. <i>Energies</i> , 2023, 16, 528.	1.6	30
1642	A novel information gap decision theory-based demand response scheduling for a smart residential community considering deep uncertainties. <i>IET Generation, Transmission and Distribution</i> , 2023, 17, 1383-1399.	1.4	2
1643	Transactive energy system: Concept, configuration, and mechanism. <i>Frontiers in Energy Research</i> , 0, 10, .	1.2	2
1644	Implementing Optimal Operation of Multi-Energy Districts with Thermal Demand Response. <i>Designs</i> , 2023, 7, 11.	1.3	2
1645	A Digital Framework for Locally and Geographically Distributed Simulation of Power Grids. <i>Energy Technology</i> , 2023, 11, .	1.8	2
1646	Power Hardware-in-the-Loop (PHIL): A Review to Advance Smart Inverter-Based Grid-Edge Solutions. <i>Energies</i> , 2023, 16, 916.	1.6	2
1647	Demand-Side and Utility-Side Management Techniques for Increasing EV Charging Load. <i>IEEE Transactions on Smart Grid</i> , 2023, 14, 3889-3898.	6.2	1
1648	Hydrogen energy storage system in a Multi-Technology Microgrid: technical features and performance. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 12072-12088.	3.8	9
1649	Optimal scheduling of a large-scale power-to-ammonia process: Effects of parameter optimization on the indirect demand response potential. <i>Computers and Chemical Engineering</i> , 2023, 170, 108132.	2.0	2
1650	A novel approach for steelmaking scheduling with self-generation under real-time and demand charge tariffs. <i>Computers and Chemical Engineering</i> , 2023, 170, 108129.	2.0	1
1651	DEMAND SIDE MANAGEMENT AND DEMAND RESPONSE FOR OPTIMAL ENERGY USAGE: AN OVERVIEW. , 2022, , 151-152.		4
1652	Realistic Load Modeling for Efficient Consumption Management Using Real-Time Simulation and Power Hardware-in-the-Loop. <i>Energies</i> , 2023, 16, 338.	1.6	0

#	ARTICLE	IF	CITATIONS
1653	Expert system: use of CLIPS software to evaluate solar energy for residences and businesses. Energy Informatics, 2023, 6, .	1.4	1
1654	Siloxane-based nanoporous polymer insulating dielectrics with high electrical strength and low permittivity for future ultra-high voltage pipeline transmission. IEEE Transactions on Dielectrics and Electrical Insulation, 2023, , 1-1.	1.8	0
1655	Sustainable energy technologies for the Global South: challenges and solutions toward achieving SDG 7. Environmental Science Advances, 2023, 2, 570-585.	1.0	4
1656	District Cooling System Control for Providing Operating Reserve Based on Safe Deep Reinforcement Learning. IEEE Transactions on Power Systems, 2024, 39, 40-52.	4.6	10
1657	Matching of everyday power supply and demand with dynamic pricing: Problem formalisation and conceptual analysis. Energy Reports, 2023, 9, 2453-2462.	2.5	2
1658	Requirement Assessment of Demand-side Flexibility for New Power Systems with High Penetration of Renewable Generation. , 2022, , .		1
1659	Technoeconomic Review of Smart Metering Applications. Lecture Notes in Energy, 2023, , 173-216.	0.2	0
1660	A Novel Stackelberg-Game-Based Energy Storage Sharing Scheme Under Demand Charge. IEEE/CAA Journal of Automatica Sinica, 2023, 10, 462-473.	8.5	6
1661	Reducing electricity peak loads through "pause hours"™ - a community-based behavioural demand response approach. Journal of Cleaner Production, 2023, 408, 137064.	4.6	2
1662	Event-driven demand response control of air-conditioning to enable grid-responsive buildings. Automation in Construction, 2023, 150, 104815.	4.8	3
1663	A smart grids knowledge transfer paradigm supported by experts' throughput modeling artificial intelligence algorithmic processes. Technological Forecasting and Social Change, 2023, 190, 122373.	6.2	7
1664	Vulnerability analysis of demand-response with renewable energy integration in smart grids to cyber attacks and online detection methods. Reliability Engineering and System Safety, 2023, 235, 109212.	5.1	7
1665	Maintaining flexibility in smart grid consumption through deep learning and deep reinforcement learning. Energy and AI, 2023, 13, 100241.	5.8	6
1666	Are Consumers with Low Serving Costs Necessarily Carbon Friendly?. , 2022, , .		0
1667	Insights into End Users'™ Acceptance and Participation in Energy Flexibility Strategies. Buildings, 2023, 13, 461.	1.4	2
1668	Active Players in Local Energy Markets. Lecture Notes in Energy, 2023, , 71-111.	0.2	1
1669	Demand Response Potential Evaluation of Aggregated High-speed Trains Towards Power System Operation. IEEE Transactions on Smart Grid, 2023, , 1-1.	6.2	0
1670	The aggregator's™ contract design problem in the electricity demand response market. Operational Research, 2023, 23, .	1.3	0

#	ARTICLE	IF	CITATIONS
1671	Analysis of socialâ€“Psychological factors and financial incentives in demand response and residential energy behavior. <i>Frontiers in Energy Research</i> , 0, 11, .	1.2	1
1672	Real-Time Pricing-Enabled Demand Response Using Long Short-Time Memory Deep Learning. <i>Energies</i> , 2023, 16, 2410.	1.6	3
1673	A Sensitivity Study of Machine Learning Techniques Based on Multiprocessing for the Load Forecasting in an Electric Power Distribution System. <i>Lecture Notes in Networks and Systems</i> , 2023, , 763-775.	0.5	0
1674	Machine Learning based Occupant Behavior Prediction in Smart Building to Improve Energy Efficiency. , 2023, , .		3
1675	Deep Reinforcement Learning-based Building Energy Management using Electric Vehicles for Demand Response. , 2023, , .		0
1676	A Privacy-preserving Users' Power Load Prediction Method Based on Federated Learning. , 2022, , .		0
1677	A State-of-the-Art Review on Electric Power Systems and Digital Transformation. <i>Electric Power Components and Systems</i> , 2023, 51, 1089-1112.	1.0	3
1678	Introducing PROOF - A PROcess Orchestration Framework for the Automation of Computational Scientific Workflows and Co-Simulations. , 2023, , .		0
1679	Power and Energy Management Strategies for a Microgrid with the Presence of Electric Vehicles and CAES Considering the Uncertainty of Resources. <i>Processes</i> , 2023, 11, 1156.	1.3	0
1680	Smart Buildings in the IoT Era â€“ Necessity, Challenges, and Opportunities. , 2023, , 1-21.		1
1682	Transactive Energy Model â€“ The approach used for Twoâ€“Sided Electricity Market. , 2023, , .		0
1688	Appliance Scheduling Optimization in a Smart Home Energy Management System with Heuristic Algorithms. , 2023, , .		2
1692	Artificial Intelligence Application to Flexibility Provision in Energy Management System: A Survey. <i>EAI/Springer Innovations in Communication and Computing</i> , 2023, , 55-78.	0.9	0
1694	Infrastructure and Complex Systems Automation. <i>Springer Handbooks</i> , 2023, , 617-640.	0.3	0
1715	Software Engineering Smart Energy Systems. , 2023, , 1659-1687.		0
1716	Integration of Renewable Energy Systems. , 2023, , 2401-2424.		0
1717	Evaluation of Energy Flexibility Potential of Different Interventions Through the SRI Score. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2023, , 88-114.	0.5	0
1723	Consumer acceptance and engagement toward IES: practical experiences and findings. , 2024, , 107-163.		0

#	ARTICLE	IF	CITATIONS
1729	Smart Buildings in the IoT Era: Necessity, Challenges, and Opportunities. , 2023, , 1915-1935.		0
1730	Smart Home Energy Scheduling Using Demand Side Management Programs. , 2022, , .		0
1732	Consumers' roles and opportunities in the energy market. , 2024, , 21-54.		0
1733	Introduction to innovative energy services (IES) in transitioning energy markets. , 2024, , 1-19.		0
1736	Localization Techniques in Multiple-Input Multiple-Output Communication: Fundamental Principles, Challenges, and Opportunities. , 0, , .		0
1739	AI-Empowered Methods for Smart Energy Consumption: A Review of Load Forecasting, Anomaly Detection and Demand Response. International Journal of Precision Engineering and Manufacturing - Green Technology, 0, , .	2.7	0
1740	Simultaneously Optimization for Photovoltaic Battery and Demand Response. , 2023, , .		0
1742	Optimal Planning of Energy Storage Considering Uncertainty of Load and Wind Generation. Power Systems, 2023, , 67-84.	0.3	0
1743	Demand Response in Generation Capacity Planning Technology Roadmap: Turkeyâ€™s Quest. Science, Technology and Innovation Studies, 2023, , 233-250.	0.1	0
1753	Relating Network Behavior to Demand-Response During dDOS Attack in the Smart Grid. Lecture Notes in Networks and Systems, 2023, , 378-393.	0.5	0
1757	Development of Flexible System for Demand and Supply Imbalance considering Battery Life. , 0, , .		0
1758	Designing Retail Electricity Tariffs Using Reinforcement Learning. Applied Innovation and Technology Management, 2023, , 57-73.	0.3	0
1759	IoT Adoption for Botswana in the Sub-Saharan Region of Africa. Lecture Notes in Electrical Engineering, 2023, , 379-389.	0.3	0
1761	AI-Enabled Anomaly-Aware Occupancy Prediction in Grid-Interactive Efficient Buildings. , 2023, , .		0
1765	A Simulator for Long Term Planning and Real Time Scheduling of Polygenerative Microgrids. , 2023, , .		0
1766	Data Analytics Techniques for Smart Grids Applications Using Machine Learning. Intelligent Systems Reference Library, 2023, , 421-440.	1.0	0
1771	The Role of Information in Developing Ethical and Accurate AI for Energy Systems. , 2023, , .		0
1772	AMI and DR, the Enabling Technologies for Information Processing in the Smart Grid. , 2023, , 345-382.		0

#	ARTICLE	IF	CITATIONS
1773	A Control Strategy for Peak Shaving and Frequency Regulation Considering Battery Degradation Under Time of Use Pricing. , 2023, , .		0
1774	Building Electricity Consumption Analysis: Data-Driven Approach with Preprocessing, Visualization, and Cluster Analysis. , 2023, , .		0
1776	Artificial Intelligence and Blockchain Technology for Secure Smart Grid and Power Distribution Automation. Advances in Computational Intelligence and Robotics Book Series, 2023, , 226-252.	0.4	0
1778	Emulation of Smart Grid Technologies and Topologies in a Small Scale Smart City Testbed. , 2023, , .		0
1784	A Stackelberg Game Approach to Control the Overall Load Consumption of a Residential Neighborhood. , 2023, , .		0
1788	An Integrated ML-Ops Framework for Automating AI-based Photovoltaic Forecasting. , 2023, , .		0
1789	A Smart Home Based on Renewable Energy with Net-Metering and Energy Storage Technology. , 2023, , .		0
1792	Safe Multi-Agent Reinforcement Learning for Price-Based Demand Response. , 2023, , .		0
1794	Usage Simulation and Demand Side Management Potential of Time-Shiftable Household Appliances: A Case Study for Turkey. , 2023, , .		0
1795	Delay-Dependent Stability Analysis of Single-Area Load Frequency Control System with Aggregated Inverter Air Conditioners. , 2023, , .		0
1797	Energy Cascade Conversion System and Energy-Efficient Infrastructure. Impact of Meat Consumption on Health and Environmental Sustainability, 2024, , 47-71.	0.4	1
1798	Day-ahead Demand Side Management Optimisation Considering Payback Potential. , 2024, , .		0
1806	A new artificial intelligence-based demand side management method for EV charging stations. , 2024, , 31-45.		0