Smart Grid â€" The New and Improved Power Grid: A S

IEEE Communications Surveys and Tutorials 14, 944-980 DOI: 10.1109/surv.2011.101911.00087

Citation Report

#	Article	IF	CITATIONS
1	Online Strategizing Distributed Renewable Energy Resource Access in Islanded Microgrids. , 2011, , .		12
2	Smart grids concept in electrical distribution system. Thermal Science, 2012, 16, 205-213.	0.5	5
3	Attack against electricity market-attacker and defender gaming. , 2012, , .		1
4	The Study of Enterprise Working Time Optimization Simulation System Considering the Peak-Valley Power Price. , 2012, , .		3
5	Two-phase demand response based on privacy-preserving billing for smart grid. , 2012, , .		1
6	Analysis of energy behaviour profiles of prosumers. , 2012, , .		19
7	Identification and feature selection of non-technical losses for industrial consumers using the software WEKA. , 2012, , .		6
8	Online quickest multiarmed bandit algorithm for distributive renewable energy resources. , 2012, , .		2
9	Smooth electric power scheduling in power distribution networks. , 2012, , .		9
10	Controlling smart grid adaptivity. , 2012, , .		2
11	Interference management for smart grid communication under cognitive wireless network. , 2012, , .		9
12	Adaptive electricity scheduling with quality of usage guarantees in microgrids. , 2012, , .		3
13	A survey of routing protocols for smart grid communications. Computer Networks, 2012, 56, 2742-2771.	3.2	270
14	Prediction based storage management in the smart grid. , 2012, , .		4
15	Demand Response Architectures and Load Management Algorithms for Energy-Efficient Power Grids: A Survey. , 2012, , .		44
16	Optimal demand response scheduling with Stackelberg game approach under load uncertainty for smart grid. , 2012, , .		27
17	Managing smart grid information in the cloud: opportunities, model, and applications. IEEE Network, 2012, 26, 32-38.	4.9	107
18	Towards a Secure and Available Smart Grid Using Intrusion Tolerance. Lecture Notes in Computer Science, 2012, , 188-201.	1.0	4

	CITATION	Report	
# 19	ARTICLE Fault localization in Smart Grid using wavelet analysis and unsupervised learning. , 2012, , .	IF	CITATIONS 20
20	Support Vector Machine based fault detection & classification in smart grids. , 2012, , .		34
21	An efficient energy curtailment scheme for outage management in smart grid. , 2012, , .		2
22	Minimizing aggregation latency under the physical interference model in Wireless Sensor Networks. , 2012, , .		7
23	Preserving data integrity for smart grid data aggregation. , 2012, , .		61
24	Optimal charging and discharging for multiple PHEVs with demand side management in vehicle-to-building. Journal of Communications and Networks, 2012, 14, 662-671.	1.8	119
25	AODV adaptation for semi-static smart grid monitoring systems. , 2012, , .		3
26	FPGA based wireless sensor node with customizable event-driven architecture. Eurasip Journal on Embedded Systems, 2013, 2013, .	1.2	17
27	A non-conventional instrument transformer. Measurement: Journal of the International Measurement Confederation, 2013, 46, 4114-4120.	2.5	3
28	Control strategies for wind farm based smart grid system. , 2013, , .		3
29	Smart Grid and Optimization. American Journal of Operations Research, 2013, 03, 196-206.	0.2	25
30	The role of Smart Grids to foster energy efficiency. Energy Efficiency, 2013, 6, 621-639.	1.3	31
31	A Generic Framework for the Evaluation of the Benefits Expected from the Smart Grid. Energies, 2013, 6, 988-1008.	1.6	25
32	Towards self-healing smart grid via intelligent local controller switching under jamming. , 2013, , .		1
33	Cooperative games among consumers in the smart grid. , 2013, , .		4
34	Cost and emission impacts of virtual power plant formation in plug-in hybrid electric vehicle penetrated networks. Energy, 2013, 60, 116-124.	4.5	99
35	Optimal demand response in DC distribution networks. , 2013, , .		9
36	Dispatch of distributed energy resources to provide energy and reserve in smart grids using a particle swarm optimization approach. , 2013, , .		6

	CITATION	Report	
#	Article	IF	Citations
37	Residential Energy Management in Smart Grid: A Markov Decision Process-Based Approach. , 2013, , .		32
38	Supporting Business Workflows in Smart Grids: An Intelligent Nodes-Based Approach. IEEE Transactions on Industrial Informatics, 2013, 9, 1384-1397.	7.2	10
39	Modelling of Microgrid-Renewable Generators Accounting for Power-Output Correlation. IEEE Transactions on Power Delivery, 2013, 28, 2124-2133.	2.9	63
40	Reconstruction of phasor dynamics at higher sampling rates using synchrophasors reported at sub-Nyquist rate. , 2013, , .		2
41	Cooperative communications and mesh networks for the smart grid data backhaul. , 2013, , .		6
42	Antifragility analysis and measurement framework for systems of systems. International Journal of Disaster Risk Science, 2013, 4, 159-168.	1.3	34
43	Recent advances on smart grid technology and renewable energy integration. Science China Technological Sciences, 2013, 56, 3040-3048.	2.0	13
44	Analysis of PCA based compression and denoising of smart grid data under normal and fault conditions. , 2013, , .		26
45	The role of communication systems in smart grids: Architectures, technical solutions and research challenges. Computer Communications, 2013, 36, 1665-1697.	3.1	277
46	Adaptive electricity scheduling in microgrids. , 2013, , .		41
47	Using baseline methods to identify non-technical losses in the context of smart grids. , 2013, , .		6
48	Multilayer perceptron neural networks training through charged system search and its Application for non-technical losses detection. , 2013, , .		29
49	A nested game-based optimization framework for electricity retailers in the smart grid with residential users and PEVs. , 2013, , .		2
50	On Scaling Perturbation Based Privacy-Preserving Schemes in Smart Metering Systems. , 2013, , .		10
51	Defining electricity tariffs using the knowledge about the consumers profiles in ELECON project. , 2013, , .		2
52	Open-source testing tools for smart grid communication network. , 2013, , .		0
53	Analysis of the behavior of electric vehicle charging stations with renewable generations. , 2013, , .		3
54	Optimized scheduling of power in an islanded microgrid with renewables and stored energy. , 2013, , .		2

#	Article	IF	Citations
55	An Empirical Study of Communication Infrastructures Towards the Smart Grid: Design, Implementation, and Evaluation. IEEE Transactions on Smart Grid, 2013, 4, 170-183.	6.2	107
56	Performance investigation of a hybrid renewable power generation and storage system using systemic power management models. Energy, 2013, 61, 621-635.	4.5	46
57	Analysis of a cooperative and coalition formation game model among energy consumers in the Smart Grid. , 2013, , .		8
58	Self-aligned quantum-dot growth for single-photon sources. , 2013, , .		0
59	Study of lowering onset gain for a high-speed InGaAs/InAlAs avalanche photodiode. , 2013, , .		0
60	Sensing-Performance Tradeoff in Cognitive Radio Enabled Smart Grid. IEEE Transactions on Smart Grid, 2013, 4, 302-310.	6.2	186
61	Bad Data Injection Attack and Defense in Electricity Market Using Game Theory Study. IEEE Transactions on Smart Grid, 2013, 4, 160-169.	6.2	160
62	Noncooperative and Cooperative Optimization of Distributed Energy Generation and Storage in the Demand-Side of the Smart Grid. IEEE Transactions on Signal Processing, 2013, 61, 2454-2472.	3.2	142
63	Relay-Aided Amplify-and-Forward Powerline Communications. IEEE Transactions on Smart Grid, 2013, 4, 265-272.	6.2	90
64	Evolving Smart Grid Information Management Cloudward: A Cloud Optimization Perspective. IEEE Transactions on Smart Grid, 2013, 4, 111-119.	6.2	56
65	How a smarter grid could have prevented the 2003 U.S. cascading blackout. , 2013, , .		17
66	Design of Home Appliances for a DC-Based Nanogrid System: An Induction Range Study Case. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2013, 1, 315-326.	3.7	76
67	Minimizing Building Electricity Costs in a Dynamic Power Market: Algorithms and Impact on Energy Conservation. , 2013, , .		6
68	What's the difference between traditional power grid and smart grid? — From dispatching perspective. , 2013, , .		23
69	Autonomous operation of multiple interconnected microgrids with self-healing capability. , 2013, , .		13
70	Demand response programs definition using demand price elasticity to define consumers aggregation for an improved remuneration structure. , 2013, , .		13
71	Real-time simulation of energy management in a domestic consumer. , 2013, , .		7
72	Model predictive control for integration of industrial consumers to the smart grid under a direct control policy. , 2013, , .		2

#	Article	IF	CITATIONS
73	Design of household appliances for a Dc-based nanogrid system: An induction heating cooktop study case. , 2013, , .		7
74	An advanced key management scheme for secure smart grid communications. , 2013, , .		16
75	APED: An efficient aggregation protocol with error detection for smart grid communications. , 2013, , .		2
76	Machine-to-Machine Communication over TV White Spaces for Smart Metering Applications. , 2013, , .		18
77	Dynamic spectrum management in a smart grid heterogeneous network environment. , 2013, , .		4
78	Multi-Agent based Smart Grid management and simulation: Situation awareness and learning in a test bed with simulated and real installations and players. , 2013, , .		5
79	Modes preserving wavelet based multi-scale PCA algorithm for compression of smart grid data. , 2013, ,		10
80	Online energy management strategies for base stations powered by the smart grid. , 2013, , .		26
81	Smart grid health monitoring via dynamic compressive sensing. , 2013, , .		3
82	Deploying third party services at smart grids end users using broadband links. , 2013, , .		0
83	4-way handshaking protection for wireless mesh network security in smart grid. , 2013, , .		4
84	Cognitive radio ad hoc networks for smart grid communications: A disaster management approach. , 2013, , .		1
85	On effectiveness of integrating intermittent resources and electricity vehicles in the smart grid. , 2013, , .		1
86	Integration of heterogeneous industrial consumers to provide regulating power to the smart grid. , 2013, , .		11
87	A novel partitioning strategy for distribution networks featuring many small scale generators. , 2013, , .		11
88	Smart Grid Communications: Overview of Research Challenges, Solutions, and Standardization Activities. IEEE Communications Surveys and Tutorials, 2013, 15, 21-38.	24.8	464
89	On false data injection attack against Multistep Electricity Price in electricity market in smart grid. , 2013, , .		10
90	SOA based open data model for information integration in smart grid. , 2013, , .		3

#	Article	IF	CITATIONS
91	Delivering 10 Gb/s optical data with picosecond timing uncertainty over 75 km distance. Optics Express, 2013, 21, 32643.	1.7	11
92	Scalability Dynamic Multicast Labels Management Mechanism for Ubiquitous Data-Centric Sensor Networks. International Journal of Distributed Sensor Networks, 2013, 9, 730971.	1.3	2
93	Recursive Pyramid Algorithm-Based Discrete Wavelet Transform for Reactive Power Measurement in Smart Meters. Energies, 2013, 6, 4721-4738.	1.6	2
94	Energy management strategies for base stations powered by the smart grid. , 2013, , .		13
95	Heterogeneous Communication Architecture to Enable Demand Response Management for the Smart Grid. Advanced Materials Research, 0, 760-762, 652-655.	0.3	0
96	Study on the Cloud Computing Architecture for Smart Grid Application. Advanced Materials Research, 2013, 805-806, 1073-1077.	0.3	0
97	Three-Phase Primary Control for Unbalance Sharing between Distributed Generation Units in a Microgrid. Energies, 2013, 6, 6586-6607.	1.6	3
98	Impact of Scheduling Flexibility on Demand Profile Flatness and User Inconvenience in Residential Smart Grid System. Energies, 2013, 6, 6608-6635.	1.6	52
99	Impact of integrity attacks on real-time pricing in smart grids. , 2013, , .		67
100	A Traffic Matrix Recovery Algorithm via Low-Dimension Nature in Smart Grid. Applied Mechanics and Materials, 2013, 392, 593-597.	0.2	Ο
101	An End-to-End Traffic Estimation Algorithm via Multifractal Wavelet Model and Principal Component Analysis in Smart Grid. Applied Mechanics and Materials, 0, 380-384, 3337-3341.	0.2	0
102	Determining the adjustment baseline parameters to define an accurate customer baseline load. , 2013, , .		7
103	Two-sided energy scheduling algorithm for smart grid with storage cost. , 2013, , .		1
104	A Smarter Grid for Renewable Energy: Different States of Action. Challenges, 2013, 4, 217-233.	0.9	12
105	A Proposed Communication System for Field Area Networks of Smart Grid. Advanced Materials Research, 2013, 732-733, 1288-1291.	0.3	0
106	Dynamic contract to regulate energy management in microgrids. , 2013, , .		6
107	Automatic mechanical fault assessment of small wind energy systems in microgrids using electric signature analysis. , 2013, , .		0
108	"Green Machine" Intelligence: Greening and Sustaining Smart Grids. IEEE Intelligent Systems, 2013, 28, 50-55.	4.0	7

#	Article	IF	CITATIONS
109	Mapping of IEC 61850 to Data Distribute Service for digital substation communication. , 2013, , .		16
110	Prioritizing consumers in smart grid: Energy management using game theory. , 2013, , .		6
111	Optimal power management for LV distribution feeders with finely distributed PV and co-located storage. , 2013, , .		5
112	Parallel operation of inverters with different types of output impedance. , 2013, , .		17
113	Active power injection control of a photovoltaic system through ultracapacitor storage. , 2013, , .		3
114	A Survey on EPON-Based Communication Networks for Smart Grid. Advanced Materials Research, 0, 765-767, 2633-2636.	0.3	2
115	An Improved Protection Scheme for Smart Distribution Grid. , 2013, , .		1
116	Power quality signal analysis for the smart grid using the Hilbert-Huang transform. , 2013, , .		3
117	On simulation study of mesh-based protocols for smart grid communication networks. , 2013, , .		2
118	Smart HVAC Control in IoT: Energy Consumption Minimization with User Comfort Constraints. Scientific World Journal, The, 2014, 2014, 1-11.	0.8	71
119	Fiber-Wireless (FiWi) Broadband Access Networks in an Age of Convergence: Past, Present, and Future. Advances in Optics, 2014, 2014, 1-23.	0.3	21
120	The Escape of Sisyphus or What "Post NG-PON2―Should Do Apart from Neverending Capacity Upgrades. Photonics, 2014, 1, 47-66.	0.9	12
121	LTC and switched shunt capacitor scheduling in smart grid with electric vehicles and wind distributed generation systems. , 2014, , .		1
122	Traffic scheduling for wireless meter data collection in smart grid communication network. , 2014, , .		6
123	Lightweight lattice-based homomorphic privacy-preserving aggregation scheme for home area networks. , 2014, , .		17
124	Software-defined networking for Smart Grid communications: Applications, challenges and advantages. , 2014, , .		84
125	Hybrid renewable energy investment in microgrid. , 2014, , .		10
126	Evaluating microgrid management and control with an implementable energy management system. , 2014, , .		29

#	Article	IF	CITATIONS
127	Smart grid load balancing techniques via simultaneous switch/tie-line/wire configurations. , 2014, , .		5
128	Determination of appropriate location of superconducting fault current limiter in the smart grid. , 2014, , .		7
129	A Cloud of Things (CoT) Based Security for Home Area Network (HAN) in the Smart Grid. , 2014, , .		12
130	Secure and threshold-based power usage control in smart grid environments. International Journal of Parallel, Emergent and Distributed Systems, 2014, 29, 264-289.	0.7	5
131	Integration prospects of electric drives based on back to back converters in industrial smart grid. , 2014, , .		13
132	Proposed smart DC nano-grid for green buildings — A reflective view. , 2014, , .		21
133	Models for the modern power grid. European Physical Journal: Special Topics, 2014, 223, 2423-2437.	1.2	89
134	A literature survey report on Smart Grid technologies. , 2014, , .		19
135	CyPhyMASC: Evolutionary monitoring, analysis, sharing and control platform for SmartGrid defense. , 2014, , .		2
136	Information and Communication Technology Solution for the V2G Concept Implementation. , 2014, , .		7
137	National Laboratory of Smart Grids (LAB+i) at the National University of Colombia-Bogotá Campus. , 2014, , .		10
138	VHDL modeling for encapsulating of DNP3 protocol in IEEE 802.15.4 Network. , 2014, , .		0
139	Demand-side management in smart grid using game theory. , 2014, , .		2
140	Smart Grid for main electric drive of plate mill rolling stand. , 2014, , .		15
141	Periodic data reporting strategies for IEEE 802.11s-based Smart Grid AMI networks. , 2014, , .		8
142	Smart charging of electric vehicles – integration of energy and information. IET Electrical Systems in Transportation, 2014, 4, 89-96.	1.5	24
143	Exploring smart grid and data center interactions for electric power load balancing. Performance Evaluation Review, 2014, 41, 89-94.	0.4	65
144	A Survey of Vehicle-to-Grid Implementation through Virtual Power Plants. Applied Mechanics and Materials, 0, 631-632, 314-317.	0.2	0

#	ARTICLE Vehicle to Grid - Status and Issues, a Preliminary Survey. Advanced Materials Research, 2014, 912-914,	IF 0.3	Citations
146	939-943. A highly-dynamic and distributed operational framework for smart energy networks. , 2014, , .	0.5	5
147	Stochastic Modeling and Optimization in a Microgrid: A Survey. Energies, 2014, 7, 2027-2050.	1.6	161
148	A Greedy Agent-Based Resource Allocation in the Smart Electricity Markets. Lecture Notes in Computer Science, 2014, , 150-161.	1.0	1
149	Facility networking with IP over RS485: Packet control for master-slave cascaded networks. , 2014, , .		7
150	A Layered Fault Tree Model for Reliability Evaluation of Smart Grids. Energies, 2014, 7, 4835-4857.	1.6	23
151	Communication System Architecture for Hierarchical Virtual Power Plant Control. Applied Mechanics and Materials, 0, 631-632, 878-881.	0.2	3
152	An Overview of Wireless Communication Networks for Grid-Enabled Vehicles. Applied Mechanics and Materials, 0, 651-653, 2004-2007.	0.2	0
153	An Improved TCP for Reduced Packet Delay in IEEE 802.11s-Based Smart Grid AMI Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 86-97.	0.2	2
154	Strategies for Power Line Communications Smart Metering Network Deployment. Energies, 2014, 7, 2377-2420.	1.6	62
155	Wireless Sensor Network Design for Transmission Line Monitoring, Metering, and Controlling: Introducing Broadband over Power Lines-Enhanced Network Model (BPLeNM). ISRN Power Engineering, 2014, 2014, 1-22.	0.5	26
156	Current control methodology for PV in both standalone & Grid connected mode. , 2014, , .		5
157	Towards designing and developing curriculum for the challenges of the smart grid education. , 2014, , \cdot		3
158	Security information sharing for smart grids: Developing the right data model. , 2014, , .		3
159	Thin film based flexible current clamp sensor for green wireless sensor networks. , 2014, , .		7
160	Coverage Enhancement of Smart Grid Communication Systems with Binary Coding. , 2014, , .		1
161	Flexible current clamp sensor using screen-printed coil. , 2014, , .		7
162	Identifying consumer requirements as an antidote to resistance to smart meters. , 2014, , .		5

#	Article	IF	Citations
163	Optimal power allocation for smart-grid powered point-to-point cognitive radio system. , 2014, , .		3
164	Extracting discriminative features for event-based electricity disaggregation. , 2014, , .		26
165	Performance analysis of data processing architectures for the Smart Grid. , 2014, , .		0
166	Advancement of a Sensor Aided Smart Grid Node Architecture. , 2014, , .		6
167	A cost-benefit analysis of data processing architectures for the smart grid. , 2014, , .		0
168	A Real-Time and Efficient MAC Protocol for Smart Grid Wireless Communications. International Journal of Distributed Sensor Networks, 2014, 10, 291927.	1.3	3
169	Challenges in the Smart Grid Applications: An Overview. International Journal of Distributed Sensor Networks, 2014, 10, 974682.	1.3	139
170	A new residential demand response management method based on a social welfare optimization framework. , 2014, , .		7
171	Coordinated control strategy of air-conditioning loads for power system balancing. , 2014, , .		0
172	State-of-health aware optimal control of plug-in electric vehicles. , 2014, , .		2
173	Quantum-based particle swarm optimization application to studies of aggregated consumption shifting and generation scheduling in smart grids. , 2014, , .		1
174	Dynamic time-shift scheduling of periodical traffic in wireless sensor network. , 2014, , .		4
175	Time programmable smart devices for peak demand reduction of smart homes in a microgrid. , 2014, , .		4
176	Dependable Fiber-Wireless (FiWi) Access Networks and Their Role in a Sustainable Third Industrial Revolution Economy. IEEE Transactions on Reliability, 2014, 63, 386-400.	3.5	24
177	A Context-Free Smart Grid Model Using Complex System Approach. , 2014, , .		3
178	Energy management for a user interactive smart community: A Stackelberg game approach. , 2014, , .		7
179	Engineering Distributed Intelligence: Issues and Challenges. , 2014, , .		1
180	Power Outage Detection Methods for the Operation of a Shunt Active Power Filter as Energy Backup System. IFIP Advances in Information and Communication Technology, 2014, , 409-416.	0.5	0

#	Article	IF	CITATIONS
181	A review of faults and fault diagnosis in micro-grids electrical energy infrastructure. , 2014, , .		8
182	Design and Analysis of Security Attacks against Critical Smart Grid Infrastructures. , 2014, , .		14
183	Bridging the gap between complex networks and smart grids. Journal of Control and Decision, 2014, 1, 102-114.	0.7	49
184	Energy exchange among base stations in a Cellular Network through the Smart Grid. , 2014, , .		23
185	Power sharing control scheme for integrating various energy sources in smart grids. , 2014, , .		4
186	CLEVERsim: A Declarative, Event-Driven Simulator for the Investigation of Large Scale M2M Scenarios. , 2014, , .		0
187	Towards consistent smart grid architecture tool support: From use cases to visualization. , 2014, , .		12
188	Optimization of generation and aggregated consumption shifting for demand response programs definition. , 2014, , .		0
189	Roaming electric vehicle charging and billing: An anonymous multi-user protocol. , 2014, , .		23
190	Real time anomaly detection in wide area monitoring of smart grids. , 2014, , .		6
191	Optimal Electric Vehicle charging strategy for energy management in microgrids. , 2014, , .		13
192	Integration of renewable energy in demand-side management for home appliances. , 2014, , .		24
193	Wireless Sensor Network applications in smart grid. , 2014, , .		12
194	Combing Smart Grid with community clouds: Next generation integrated service platform. , 2014, , .		9
195	Smart meters as a tool for energy efficiency. , 2014, , .		6
196	Opportunities and challenges for data center demand response. , 2014, , .		126
197	Energy-Saving Reversible Electric Drive Based on Active Front End Rectifier and Voltage Source Inverter. Applied Mechanics and Materials, 0, 698, 150-154.	0.2	2
198	Feasibility of using discriminate pricing schemes for energy trading in smart grid. , 2014, , .		13

#	Article	IF	CITATIONS
199	Research and Application on Visualization of Discrete Spatial Grid Resource Data. Advanced Materials Research, 0, 1070-1072, 1302-1306.	0.3	0
200	Framework for Impact Analysis of Green Smart Grid Deployment in Energy Deficit Countries. Communications in Computer and Information Science, 2014, , 1-12.	0.4	0
201	Optimal Hierarchical Power Scheduling for Cooperative Microgrids. , 2014, , .		1
202	Load Segmentation for Convergence of Distribution Automation and Advanced Metering Infrastructure Systems. International Journal of Emerging Electric Power Systems, 2014, 15, 607-619.	0.6	2
203	Synthetic generation of solar states for smart grid: A multiple segment Markov chain approach. , 2014, , ,		17
204	Advanced metering infrastructure analytics — A Case Study. , 2014, , .		14
205	A lightweight lattice-based security and privacy-preserving scheme for smart grid. , 2014, , .		16
206	Analysis of communication networks for smart substations using a virtualized execution platform. , 2014, , .		7
207	Model predictive control of energy transmission grids accounting for power-ICT interdependencies. , 2014, , .		1
208	A Survey of Networking Challenges and Routing Protocols in Smart Grids. IEEE Transactions on Industrial Informatics, 2014, 10, 210-221.	7.2	93
209	Primary control level of parallel distributed energy resources converters in system of multiple interconnected autonomous microgrids within selfâ€healing networks. IET Generation, Transmission and Distribution, 2014, 8, 203-222.	1.4	106
210	Distributed Online Algorithm for Optimal Real-Time Energy Distribution in the Smart Grid. IEEE Internet of Things Journal, 2014, 1, 70-80.	5.5	77
211	A Survey on Geographic Load Balancing Based Data Center Power Management in the Smart Grid Environment. IEEE Communications Surveys and Tutorials, 2014, 16, 214-233.	24.8	114
212	Scheduling policies for two-state smart-home appliances in dynamic electricity pricing environments. Energy, 2014, 69, 455-469.	4.5	27
213	Communication network requirements for major smart grid applications in HAN, NAN and WAN. Computer Networks, 2014, 67, 74-88.	3.2	464
214	Application of Compressive Sampling in Synchrophasor Data Communication in WAMS. IEEE Transactions on Industrial Informatics, 2014, 10, 450-460.	7.2	51
215	Optimal load distribution model of microgrid in the smart grid environment. Renewable and Sustainable Energy Reviews, 2014, 35, 304-310.	8.2	82
216	Residential Energy Consumption Scheduling: A Coupled-Constraint Game Approach. IEEE Transactions on Smart Grid, 2014, 5, 1340-1350.	6.2	186

#	Article	IF	CITATIONS
217	Prioritizing Consumers in Smart Grid: A Game Theoretic Approach. IEEE Transactions on Smart Grid, 2014, 5, 1429-1438.	6.2	179
218	A Survey on Electric Power Demand Forecasting: Future Trends in Smart Grids, Microgrids and Smart Buildings. IEEE Communications Surveys and Tutorials, 2014, 16, 1460-1495.	24.8	387
219	Smart grid monitoring with service differentiation via EPON and wireless sensor network convergence. Optical Switching and Networking, 2014, 14, 53-68.	1.2	17
220	Fault Detection, Identification, and Location in Smart Grid Based on Data-Driven Computational Methods. IEEE Transactions on Smart Grid, 2014, 5, 2947-2956.	6.2	121
221	Analyzing Cyber-Physical Energy Systems:The INSPIRE Cosimulation of Power and ICT Systems Using HLA. IEEE Transactions on Industrial Informatics, 2014, 10, 2364-2373.	7.2	129
222	Load Scheduling With Price Uncertainty and Temporally-Coupled Constraints in Smart Grids. IEEE Transactions on Power Systems, 2014, 29, 2823-2834.	4.6	73
223	Emerging communication technologies and security challenges in a smart grid wireless ecosystem. International Journal of Wireless and Mobile Computing, 2014, 7, 231.	0.1	5
224	Integration of electric vehicles in a microgrid with distributed generation. , 2014, , .		8
225	One-time symmetric key based cloud supported secure smart meter reading. , 2014, , .		7
226	Designing the Optimal Pricing Policy for Aggregators in the Smart Grid. , 2014, , .		1
227	Analysis of consumption data to detect commercial losses using performance evaluation methods in a smart grid. , 2014, , .		3
228	Cooperative transmission game for smart grid communication. , 2014, , .		10
229	Synchrophasor based auxiliary controller to enhance power system transient voltage stability in a high penetration renewable energy scenario. , 2014, , .		7
230	Field Area Network in a MV/LV substation: A technical and economical analysis. , 2014, , .		8
231	Analytic modeling of CSMA/CA based differentiated access control with mixed priorities for smart utility networks. , 2014, , .		2
232	On the Usage of WiFi and LTE for the Smart Grid. , 2014, , .		9
233	Segment wise communication delay measurement for Smart Grid applications. , 2014, , .		5
234	Joint Energy and Spectrum Cooperation for Cellular Communication Systems. IEEE Transactions on Communications, 2014, 62, 3678-3691.	4.9	73

#	Article	IF	CITATIONS
235	Point of common coupling voltage regulation with photovoltaic power plant infrastructures. , 2014, , .		4
236	Autonomous Demand Side Management Based on Energy Consumption Scheduling and Instantaneous Load Billing: An Aggregative Game Approach. IEEE Transactions on Smart Grid, 2014, 5, 1744-1754.	6.2	196
237	Ambiguity group based location recognition for multiple power line outages in smart grids. , 2014, , .		5
238	Phasor measurement unit selection for unobservable electric power data integrity attack detection. International Journal of Critical Infrastructure Protection, 2014, 7, 155-164.	2.9	25
239	Amelioration of short-circuit effects on power transformers with fault current limiters. , 2014, , .		0
240	On Quality of Usage Provisioning for Electricity Scheduling in Microgrids. IEEE Systems Journal, 2014, 8, 619-628.	2.9	13
241	Electrified Vehicles and the Smart Grid: The ITS Perspective. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1388-1404.	4.7	117
242	An instrumentation engineer's review on smart grid: Critical applications and parameters. Renewable and Sustainable Energy Reviews, 2014, 40, 1217-1239.	8.2	61
243	Smart grid opportunities and challenges of integrating renewable sources: A survey. , 2014, , .		11
244	Emission Reduction and Economical Optimization of an Urban Microgrid Operation Including Dispatched PV-Based Active Generators. IEEE Transactions on Sustainable Energy, 2014, 5, 1397-1405.	5.9	161
245	Planning Local Energy Communities to develop low carbon urban and suburban areas. , 2014, , .		5
246	Stochastic Information Management in Smart Grid. IEEE Communications Surveys and Tutorials, 2014, 16, 1746-1770.	24.8	88
247	Noncooperative Day-Ahead Bidding Strategies for Demand-Side Expected Cost Minimization With Real-Time Adjustments: A GNEP Approach. IEEE Transactions on Signal Processing, 2014, 62, 2397-2412.	3.2	52
248	Cosimulation for Smart Grid Communications. IEEE Transactions on Industrial Informatics, 2014, 10, 2374-2384.	7.2	95
249	Optimal privacy-preserving energy management for smart meters. , 2014, , .		39
250	A Knowledge-Based Energy Management Model for Smart Grid Environment. , 2014, , .		1
251	\$\$upmu mathrm{DC}^2\$\$ μ DC 2 : unified data collection for data centers. Journal of Supercomputing, 2014, 70, 1383-1404.	2.4	3
252	Object recognition based power plant management system in smart grid using smart device. , 2014, , .		2

#	Article	IF	Citations
254	A random switching traffic scheduling algorithm in wireless smart grid communication network. , 2014, , .		5
255	Direct Electricity Trading in Smart Grid: A Coalitional Game Analysis. IEEE Journal on Selected Areas in Communications, 2014, 32, 1398-1411.	9.7	171
256	Distributed Algorithm for Tree-Structured Data Aggregation Service Placement in Smart Grid. IEEE Systems Journal, 2014, 8, 553-561.	2.9	21
257	Passive optical network (PON) supported networking. Optical Switching and Networking, 2014, 14, 1-10.	1.2	16
258	Peak Load Scheduling in Smart Grid Communication Environment. , 2014, , .		8
259	Cooperative power consumption in the smart grid based on coalition formation game. , 2014, , .		9
260	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
261	A real-time management and evolutionary optimization scheme for a secure and flexible smart grid towards sustainable energy. International Journal of Electrical Power and Energy Systems, 2014, 62, 540-548.	3.3	10
262	Overview of Research Challenges towards Smart Grid Quality by Design. , 0, , .		3
263	Allocation and Sizing of Dispersed Photovoltaic Generation in Diesel Isolated Electrical Systems Using an Analytical Approach. Journal of Solar Energy Engineering, Transactions of the ASME, 2014, 136, .	1.1	0
264	On effectiveness of mesh-based protocols for smart grid communication networks. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2014, 14, 59-70.	0.5	4
265	An Adaptive Smart Grid Management Scheme Based on the Coopetition Game Model. ETRI Journal, 2014, 36, 80-88.	1.2	13
266	Real-time Energy Resource Scheduling Considering a Real Portuguese Scenario. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2267-2272.	0.4	1
267	A Communication and Resources Management Scheme to Support the Smart Grid Integration of Multiplayers Access to Resources Information. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11244-11249.	0.4	1
268	Lightweight Security and Privacy-Preserving Scheme for V2G Connection. , 2014, , .		1
269	Security-Enhanced Data Aggregation against Malicious Gateways in Smart Grid. , 2014, , .		2
270	A survey on smart grid communication system. APSIPA Transactions on Signal and Information Processing, 2015, 4, .	2.6	10
271	Resource Management on Smart Micro Grid by Embedded Networking. Procedia Technology, 2015, 21, 468-473.	1.1	8

#	Article	IF	Citations
272	Mutual Support in Energy Sector: Toward Energy Resilience. Procedia Computer Science, 2015, 60, 1041-1050.	1.2	7
273	OFDM systems with CPM mappers for smart grid applications. , 2015, , .		2
274	Security-Enhanced Data Aggregation against Malicious Gateways in Smart Grid. , 2015, , .		19
275	Cyber Attack Protection for a Resilient Electric Vehicle Infrastructure. , 2015, , .		15
276	Overview of mathematical methods for energy management optimization in smart grids. , 2015, , .		3
277	Smart campus microgrid: Advantages and the main architectural components. , 2015, , .		15
278	Modelling and delay analysis of wireless home area networks in a smart grid. , 2015, , .		3
279	Synergistic operation of distributed compensators based on the conservative power theory. , 2015, , .		4
280	Researches on data processing and data preventing technologies in the environment of big data in power system. , 2015, , .		5
281	Relaxation of non-convex problem as an initial solution of meta-heuristics for energy resource management. , 2015, , .		6
282	A novel embedded system-based backbone communication network for smart grid. , 2015, , .		3
283	Smart grid energy management for a shared facility controller with renewables. , 2015, , .		1
284	Sum-rate-optimal dual-QoS MIMO multicasting over medium-voltage NB-PLC networks. , 2015, , .		2
285	Robust Aggregator Design for Industrial Thermal Energy Storages in Smart Grid. IEEE Transactions on Smart Grid, 2015, , 1-15.	6.2	11
286	Lightweight Security and Privacy-Preserving Scheme for V2G Connection. , 2015, , .		4
287	An overview on wind power generation. , 2015, , .		Ο
288	Model and simulation of a microgrid based on a traditional electrical infrastructure. , 2015, , .		1
289	Modulized resource management platform for wireless public network in Smart Grid communication. , 2015, , .		0

#	Article	IF	CITATIONS
291	A comprehensive survey of false data injection in smart grid. International Journal of Wireless and Mobile Computing, 2015, 8, 27.	0.1	23
292	Matrix partition-based detection scheme for false data injection in smart grid. International Journal of Wireless and Mobile Computing, 2015, 9, 250.	0.1	2
293	Utilization Control and Optimization of Real-Time Embedded Systems. Foundations and Trends in Electronic Design Automation, 2015, 9, 211-307.	1.0	4
294	Datacenter Power Management in Smart Grids. Foundations and Trends in Electronic Design Automation, 2015, 9, 1-98.	1.0	12
295	Modeling and simulation of communication networks for use in integrating high wind power generation into a power grid. Journal of Renewable and Sustainable Energy, 2015, 7, .	0.8	3
298	Introduction to M2M communication in Smart Grid. , 2015, , .		2
299	On-line voltage stability monitoring and control in smart grid $\hat{a} {\in} "$ A survey. , 2015, , .		1
300	Two dimensional cooperation prediction algorithm of communication network traffic in smart grid. , 2015, , .		0
301	Performance evaluation of Channel-Aware MAC protocol in smart grid. , 2015, , .		3
302	Combined price and event-based demand response using two-stage model predictive control. , 2015, , .		4
303	Effect of aggregation for multi-site photovoltaic (PV) farms. , 2015, , .		8
304	SmartPlug: Reducing energy costs with price-aware scheduling of electrical devices. , 2015, , .		1
305	A canonical coalitional game theoretic approach for energy management for nanogrids. , 2015, , .		14
306	A Grouped System Architecture for Smart Grids Based AMI Communications Over LTE. International Journal of Wireless and Mobile Networks, 2015, 7, 55-70.	0.1	0
307	Demand Response Programs Design and Use Considering Intensive Penetration of Distributed Generation. Energies, 2015, 8, 6230-6246.	1.6	25
308	An Advanced Bayesian Method for Short-Term Probabilistic Forecasting of the Generation of Wind Power. Energies, 2015, 8, 10293-10314.	1.6	28
309	Adaptation of Powerline Communications-Based Smart Metering Deployments to the Requirements of Smart Grids. Energies, 2015, 8, 13481-13507.	1.6	23
310	Smart meter deployment optimisation and its analysis for appliance load monitoring. Journal of Engineering, 2015, 2015, 116-124.	0.6	0

ARTICLE IF CITATIONS # Trends and Potentials of the Smart Grid Infrastructure: From ICT Sub-System to SDN-Enabled Smart 311 1.3 38 Grid Architecture. Applied Sciences (Switzerland), 2015, 5, 706-727. Experimental Demonstration of Smart Charging and Demand Response for Plug-in Electric Vehicles Based on SAE Standards., 0,,. Controllability Analysis of an Aggregate Demand Response System. Mathematical Problems in 313 0.6 4 Engineering, 2015, 2015, 1-11. Economics of customer's decisions in smart grid. IET Networks, 2015, 4, 37-43. 314 1.1 A Survey on Short-Term Electricity Price Prediction Models for Smart Grid Applications. Lecture 315 Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications 0.2 1 Engineering, 2015, , 60-69. Secure and reliable surveillance over cognitive radio sensor networks in smart grid. Pervasive and Mobile Computing, 2015, 22, 3-15. 2.1 317 Egyptian Wide Area Monitoring System (EWAMS) Based on Smart Grid System Solution., 2015,,. 3 Gridâ€connected photovoltaic power plants for helping node voltage regulation. IET Renewable Power 1.7 Generation, 2015, 9, 236-244. Review of energy system flexibility measures to enable high levels of variable renewable electricity. 320 8.2 1,133 Renewable and Śuśtainable Energy Reviews, 2015, 45, 785-807. How Geo-Distributed Data Centers Do Demand Response: A Game-Theoretic Approach. IEEE Transactions 6.2 on Smart Grid, 2015, , 1-1. Predictive data analytics for agent-based management of electrical micro grids., 2015,,. 322 2 Fuzzy-based Orthogonal Decomposition approach for fault diagnoses in distribution feeders of Smart Cities., 2015,,. Proposal DNP3 protocol simulation on NS-2 in IEEE 802.11g wireless network ad hoc over TCP/IP in 324 1 smart grid applications., 2015,,. The Smart Grid and Future Mobile Networks: Integrating Renewable Energy Sources and Delay Tolerant Users., 2015,,. 326 Fault tolerant quickest detection for power quality events in smart grid AMI networks., 2015, , . 1 327 Privacy-relevant smart metering use cases. , 2015, , . Development and analysis of Wireless Mesh Networks with load-balancing for AMI in smart grid., 328 7 2015, , . Defending against Energy Dispatching Data integrity attacks in smart grid., 2015, , .

#		IF	CITATIONS
#	ARTICLE DEP2SA: A Decentralized Efficient Privacy-Preserving and Selective Aggregation Scheme in Advanced		CITATIONS
330	Metering Infrastructure. IEEE Access, 2015, 3, 2828-2846.	2.6	38
331	Applicability of IEC 61499 for event based Smart Grid applications. , 2015, , .		1
332	Flexible real-time platform for commissioning and development of smart distribution grid. , 2015, , .		0
333	Examination of incentive based demand response in western connection reduced model. , 2015, , .		15
334	A controller design method for unidentifiable linear SISO systems. , 2015, , .		0
335	Supply and demand in smart grid: A closed-loop pricing strategy. , 2015, , .		3
336	Microgrid from an Indian perspective. , 2015, , .		2
338	ISS of multistable systems with delays: Application to droop-controlled inverter-based microgrids. , 2015, , .		12
339	A novel approach to provide relay coordination in distribution power systems with multiple reclosers. , 2015, , .		6
340	Joint Investment and Operation of Microgrid. IEEE Transactions on Smart Grid, 2015, , 1-13.	6.2	62
341	Optimal operation of distributed generations in microâ€grids under uncertainties in load and renewable power generation using heuristic algorithm. IET Renewable Power Generation, 2015, 9, 982-990.	1.7	157
342	IP ² DM for V2G networks in Smart Grid. , 2015, , .		9
343	Protection of AC and DC microgrids: Challenges, solutions and future trends. , 2015, , .		39
344	A Probability Model for Grid Faults Using Incomplete Information. IEEE Transactions on Smart Grid, 2015, , 1-1.	6.2	11
345	Dynamic power pricing using distributed resource allocation for large-scale DSA systems. , 2015, , .		3
346	Demand Response Management for Residential Smart Grid: From Theory to Practice. IEEE Access, 2015, 3, 2431-2440.	2.6	81
347	Distributed microgrid state estimation using smart grid communications. , 2015, , .		3
348	An efficient distributed approach for key management in microgrids. , 2015, , .		14

# 349	ARTICLE Integrating Cellular Networks, Smart Grid, and Renewable Energy: Analysis, Architecture, and Challenges. IEEE Access, 2015, 3, 2755-2770.	IF 2.6	CITATIONS
350	Development of a mobile application for home energy management in smart grids. , 2015, , .		1
351	A seamless transfer algorithm based on active frequency detection with feedforward control method in distributed generation system. , 2015, , .		3
352	eSKAMI: Efficient and Scalable Multi-group Key Management for Advanced Metering Infrastructure in Smart Grid. , 2015, , .		12
353	Analyzing the integration of Distributed Generation into smart grids. , 2015, , .		3
354	4G/LTE technology for smart grid communication infrastructure. , 2015, , .		14
355	Soft Phasor Measurement Unit. Procedia Technology, 2015, 21, 533-539.	1.1	3
356	A novel EMS for residential microgrids reconciling end-user and utility needs. , 2015, , .		2
357	Localization Challenges for the Emergence of the Smart World. IEEE Access, 2015, 3, 3058-3067.	2.6	138
358	A use case methodology to handle conflicting controller requirements for future power systems. , 2015, , .		2
359	Conservative Power Theory Used in NPC-Based Shunt Active Power Filter to Eliminate Electric Metro System Harmonics. , 2015, , .		5
360	Key Aspects of Smart Grid Design for Distribution System Automation: Architecture and Responsibilities. Procedia Technology, 2015, 21, 352-359.	1.1	14
361	Guest Editorial New Trends of Demand Response in Smart Grids. IEEE Transactions on Industrial Informatics, 2015, 11, 1505-1508.	7.2	5
362	Energy-efficient cellular communications powered by smart grid technology. , 2015, , .		1
363	Smart grid topology identification using sparse recovery. , 2015, , .		4
364	Modeling and performance analysis of a PLC system in presence of impulsive noise. , 2015, , .		19
365	Optimal scheduling of smart home appliances considering PHEV and energy storage system. , 2015, , .		5
366	Communication network for smart grid interoperability. , 2015, , .		2

#	Article	IF	CITATIONS
367	A perspective of RoF implementation for an advanced Smart Metering Infrastructure. , 2015, , .		5
368	Performance Comparison of IP and CCN as a Communication Infrastructure for Smart Grid. , 2015, , .		6
369	A Novel ICT Solution for Electric Vehicles Integration on Smart Grids. , 2015, , .		0
370	Negative effects of cyber network (control, monitoring, and protection) on reliability of smart grids based on DG penetration. , 2015, , .		3
371	TSGC-DSCC - trends in smart grid communications: detection, scheduling, control and communications. International Journal of Wireless and Mobile Computing, 2015, 9, 332.	0.1	0
372	Cost-Effective and Privacy-Preserving Energy Management for Smart Meters. IEEE Transactions on Smart Grid, 2015, 6, 486-495.	6.2	112
373	Home energy management systems: A review of modelling and complexity. Renewable and Sustainable Energy Reviews, 2015, 45, 318-335.	8.2	347
374	Decentral Smart Grid Control. New Journal of Physics, 2015, 17, 015002.	1.2	78
375	Fault Tolerance Oriented Sensors Relay Monitoring Mechanism for Overhead Transmission Line in Smart Grid. IEEE Sensors Journal, 2015, 15, 1982-1991.	2.4	28
376	Context-awareness and the smart grid: Requirements and challenges. Computer Networks, 2015, 79, 263-282.	3.2	30
377	A survey of smart water quality monitoring system. Environmental Science and Pollution Research, 2015, 22, 4893-4906.	2.7	74
379	Synchrophasor-Based Auxiliary Controller to Enhance the Voltage Stability of a Distribution System With High Renewable Energy Penetration. IEEE Transactions on Smart Grid, 2015, 6, 2107-2115.	6.2	41
380	Optimising operational cost of a smart energy hub, the reinforcement learning approach. International Journal of Parallel, Emergent and Distributed Systems, 2015, 30, 325-341.	0.7	27
381	Convergence of Smart Grid ICT Architectures for the Last Mile. IEEE Transactions on Industrial Informatics, 2015, 11, 187-197.	7.2	37
382	Electric Vehicle Charging Stations With Renewable Power Generators: A Game Theoretical Analysis. IEEE Transactions on Smart Grid, 2015, 6, 608-617.	6.2	173
383	Gameâ€theoretic energy trading network topology control for electric vehicles in mobile smart grid. IET Networks, 2015, 4, 220-228.	1.1	32
384	Aggregation Points Planning in Smart Grid Communication System. IEEE Communications Letters, 2015, 19, 1315-1318.	2.5	31
385	On Hierarchical Power Scheduling for the Macrogrid and Cooperative Microgrids. IEEE Transactions on Industrial Informatics, 2015, 11, 1574-1584.	7.2	125

#	Article	IF	CITATIONS
386	Adoption of Smart-Grid Technologies by Electrical Utilities in India: An Exploratory Study of Issues and Challenges. , 2015, , 231-246.		3
387	A survey on security assessment of metering infrastructure in Smart Grid systems. , 2015, , .		33
388	A Fuzzy-Multiagent Service Restoration Scheme for Distribution System With Distributed Generation. IEEE Transactions on Sustainable Energy, 2015, 6, 810-821.	5.9	47
389	What are the main barriers to smart energy information systems diffusion?. Electronic Markets, 2015, 25, 31-45.	4.4	13
390	A new approach to energy resources management in a grid-connected building equipped with energy production and storage systems: A case study in the south of France. Energy and Buildings, 2015, 99, 9-31.	3.1	22
391	Cost-aware green cellular networks with energy and communication cooperation. , 2015, 53, 257-263.		86
393	Secure and energy-efficient multicast routing in smart grids. , 2015, , .		6
394	Three-Party Energy Management With Distributed Energy Resources in Smart Grid. IEEE Transactions on Industrial Electronics, 2015, 62, 2487-2498.	5.2	291
395	Control of Smart Grid Residential Buildings with Demand Response. Studies in Computational Intelligence, 2015, , 133-161.	0.7	4
396	Decentralized Energy Allocation for Wireless Networks With Renewable Energy Powered Base Stations. IEEE Transactions on Communications, 2015, 63, 2126-2142.	4.9	41
397	A survey on the contributions of power electronics to smart grid systems. Renewable and Sustainable Energy Reviews, 2015, 47, 562-579.	8.2	117
398	Intelligent Energy Systems: Introducing Power–ICT Interdependency in Modeling and Control Design. IEEE Transactions on Industrial Electronics, 2015, 62, 2468-2477.	5.2	26
399	Optimal Threshold Policy for In-Home Smart Grid with Renewable Generation Integration. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1096-1105.	4.0	10
400	A Survey on Demand Response in Smart Grids: Mathematical Models and Approaches. IEEE Transactions on Industrial Informatics, 2015, 11, 570-582.	7.2	724
401	PEA Automatic Meter Reading system: Progress and lessons learned. , 2015, , .		5
402	A virtual microgrid platform for the efficient orchestration of multiple energy prosumers. , 2015, , .		7
403	A seamless transfer algorithm based on frequency detection and feedforward control method in distributed generation system. , 2015, , .		1
404	Combining SCADA, CIM, GridLab-D and AKKA for smart grid co-simulation. , 2015, , .		10

#	Article	IF	CITATIONS
405	Real-time co-simulation platform using OPAL-RT and OPNET for analyzing smart grid performance. , 2015, , .		57
406	Analysis of solar generation and weather data in smart grid with simultaneous inference of nonlinear time series. , 2015, , .		12
407	Multi-Objective Energy Consumption Scheduling in Smart Grid Based on Tchebycheff Decomposition. IEEE Transactions on Smart Grid, 2015, 6, 2869-2883.	6.2	26
408	Electrical vehicles impact analysis for distribution systems with THD and load profile study. , 2015, , .		11
409	Optimal Investment for Retail Company in Electricity Market. IEEE Transactions on Industrial Informatics, 2015, 11, 1210-1219.	7.2	30
410	Low-Power link quality estimation in smart grid environments. , 2015, , .		20
411	A comprehensive assessment of cloud computing for smart grid applications: A multi-perspectives framework. , 2015, , .		10
412	Optimal energy management system for future microgrids with tight operating constraints. , 2015, , .		4
413	Energy in smart grid: Strategies and technologies for efficiency enhancement. , 2015, , .		9
414	Smart grid self-healing: Functions, applications, and developments. , 2015, , .		16
415	Distributed State Estimation Using RSC Coded Smart Grid Communications. IEEE Access, 2015, 3, 1340-1349.	2.6	18
416	Applying reinforcement learning method to optimize an Energy Hub operation in the smart grid. , 2015, ,		8
417	Towards security software engineering the Smart Grid as a System of Systems. , 2015, , .		3
418	New control method of back to back converter. , 2015, , .		13
419	Sparse Malicious False Data Injection Attacks and Defense Mechanisms in Smart Grids. IEEE Transactions on Industrial Informatics, 2015, 11, 1-12.	7.2	203
420	Optimization of microgrids short term operation based on an enhanced genetic algorithm. , 2015, , .		13
421	Smart Grid Overview: Infrastructure, Cyber-Physical Security and Challenges. , 2015, , .		13
422	Multi-user MIMO broadcasting/multicasting for medium-voltage narrowband-PLC networks. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
423	Smart grid security issues. , 2015, , .		30
424	The Internet of Energy: Smart Sensor Networks and Big Data Management for Smart Grid. Procedia Computer Science, 2015, 56, 592-597.	1.2	168
425	Reactive Power Control of Reversible Electric Drives by Using Industrial Smart Grid Technology. Applied Mechanics and Materials, 0, 789-790, 1011-1015.	0.2	1
426	Protection techniques with renewable resources and smart grids—A survey. Renewable and Sustainable Energy Reviews, 2015, 52, 1645-1667.	8.2	46
427	Black Hole Algorithm for non-technical losses characterization. , 2015, , .		7
428	Demand Response in Smart Grids: A Randomized Auction Approach. IEEE Journal on Selected Areas in Communications, 2015, 33, 2540-2553.	9.7	33
429	Toward green data centers as an interruptible load for grid stabilization in Singapore. , 2015, 53, 192-198.		10
430	Towards a classification scheme for co-simulation approaches in energy systems. , 2015, , .		42
431	A Keyless Gossip Algorithm Providing Light-Weight Data Privacy for Prosumer Markets. , 2015, , .		3
432	Intelli-grid: Moving towards automation of electric grid in India. Renewable and Sustainable Energy Reviews, 2015, 42, 16-25.	8.2	31
433	Distributed Demand Side Management with Energy Storage in Smart Grid. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 3346-3357.	4.0	141
434	Cloud Computing Applications for Smart Grid: A Survey. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 1477-1494.	4.0	346
435	Efficient Location Identification of Multiple Line Outages With Limited PMUs in Smart Grids. IEEE Transactions on Power Systems, 2015, 30, 1659-1668.	4.6	36
436	Fuzzy Approach for Online Coordination of Plug-In Electric Vehicle Charging in Smart Grid. IEEE Transactions on Sustainable Energy, 2015, 6, 1112-1121.	5.9	60
437	CoMP Meets Smart Grid: A New Communication and Energy Cooperation Paradigm. IEEE Transactions on Vehicular Technology, 2015, 64, 2476-2488.	3.9	117
438	Stochastic Ranking Method for Thermostatically Controllable Appliances to Provide Regulation Services. IEEE Transactions on Power Systems, 2015, 30, 1987-1996.	4.6	29
439	Monitoring power transmission lines using a wireless sensor network. Wireless Communications and Mobile Computing, 2015, 15, 1799-1821.	0.8	37
440	Smooth Scheduling for Electricity Distribution in the Smart Grid. IEEE Systems Journal, 2015, 9, 966-977.	2.9	8

#	Article	IF	CITATIONS
441	Distributed Real-Time Demand Response in Multiseller–Multibuyer Smart Distribution Grid. IEEE Transactions on Power Systems, 2015, 30, 2364-2374.	4.6	113
442	Energy-Efficient Information and Communication Infrastructures in the Smart Grid: A Survey on Interactions and Open Issues. IEEE Communications Surveys and Tutorials, 2015, 17, 179-197.	24.8	343
443	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
444	MIPâ€∎ndâ€refine matheuristic for smart grid energy management. International Transactions in Operational Research, 2015, 22, 49-59.	1.8	13
445	Priority-Based Dynamic Spectrum Management in a Smart Grid Network Environment. IEEE Journal on Selected Areas in Communications, 2015, 33, 933-945.	9.7	18
446	A minimal model of self-consistent partial synchrony. New Journal of Physics, 2016, 18, 093037.	1.2	24
447	Research and realization of improved extract–transform–load scheduler in China Southern Power Grid. Advances in Mechanical Engineering, 2016, 8, 168781401667905.	0.8	1
448	Improving Energy Efficiency of Cooperative Femtocell Networks via Base Station Switching Off. Mobile Information Systems, 2016, 2016, 1-6.	0.4	2
449	Internet of Things (IoT), Future Networks (FN) and the Economics of Virtual Networks. SSRN Electronic Journal, O, , .	0.4	6
450	Domain Specific and Model Based Systems Engineering in the Smart Grid as Prerequesite for Security by Design. Electronics (Switzerland), 2016, 5, 24.	1.8	26
451	Simulation of a Narrowband Power Line Communications System over Medium Voltage. Applied Sciences (Switzerland), 2016, 6, 90.	1.3	3
452	Effect of Islanding and Telecontrolled Switches on Distribution System Reliability Considering Load and Green-Energy Fluctuations. Applied Sciences (Switzerland), 2016, 6, 138.	1.3	10
453	Electrical Market Management Considering Power System Constraints in Smart Distribution Grids. Energies, 2016, 9, 405.	1.6	19
454	Group Authentication Scheme for Neighbourhood Area Networks (NANs) in Smart Grids. Journal of Sensor and Actuator Networks, 2016, 5, 9.	2.3	5
455	Design and Implementation of a Microgrid Energy Management System. Sustainability, 2016, 8, 1143.	1.6	48
456	Energy Allocation and Cooperation for Energy-Efficient Wireless Two-Tier Networks. IEEE Transactions on Wireless Communications, 2016, 15, 6434-6448.	6.1	33
457	Empirical comparison of virtualized and bare-metal switching for SDN-based 5G communication in critical infrastructures. , 2016, , .		10
458	Game model to optimally combine electric vehicles with green and non-green sources into an end-to-end smart grid architecture. Journal of Network and Computer Applications, 2016, 72, 1-13.	5.8	10

	CITATION RI	EPORT	
#	ARTICLE Costâ€Benefit Analysis of Renewable Installation in Interâ€Intelligent Renewable Energy Network.	IF	CITATIONS
459	Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2016, 194, 42-52.	0.2	1
460	Publishing real-time microgrid consumption data on the web of Linked Data. , 2016, , .		8
461	Cost-friendly Differential Privacy for Smart Meters: Exploiting the Dual Roles of the Noise. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	78
462	A novel seamless transfer control strategy for wide range load. , 2016, , .		1
463	Securing the smart grid network: A review. , 2016, , .		3
464	Approaches and instruments for overcoming the challenges of the smart grids control. , 2016, , .		0
465	A Clustering-Based Device-to-Device Communication to Support Diverse Applications. , 2016, , .		9
466	Experimental study of Cloud Computing based SCADA in Electrical Power Systems. , 2016, , .		7
467	Research on information aggregation methods of electric equipment state monitoring based on data driver. , 2016, , .		0
468	Plane-wave expansion based modelling of laser beam propagation in anisotropic medium. , 2016, , .		1
469	Stability analysis of grid connected PV array under maximum power point tracking. , 2016, , .		4
470	Joint cyber and physical attacks against topology of electric grids. , 2016, , .		1
471	Anomaly detection in Smart Grid data: An experience report. , 2016, , .		37
472	Lossless compression of high-frequency voltage and current data in smart grids. , 2016, , .		3
473	Impacts of rising air temperatures on electric transmission ampacity and peak electricity load in the United States. Environmental Research Letters, 2016, 11, 114008.	2.2	101
474	Modeling and tracking Transmission Line Dynamic Behavior in Smart Grids using structured sparsity. , 2016, , .		2
475	Wireless home area networks in smart grids: Modelling and delay analysis. , 2016, , .		5
476	Decentralized Energy Demand Regulation in Smart Homes. , 2016, , .		1

#	Article	IF	CITATIONS
477	Big data, better energy management and control decisions for distribution systems in smart grid. , 2016, , .		13
478	Simulation of the DNP3 protocol over TCP/IP on a network IEEE 802.11g ad-hoc with smart meter. , 2016, , .		2
479	Indoor Temperature Control of Cost-Effective Smart Buildings via Real-Time Smart Grid Communications. , 2016, , .		15
480	Improving reliability and quality of supply(QoS) in smart distribution network. , 2016, , .		3
481	Monitoring of transformer parameters using Internet of Things in Smart Grid. , 2016, , .		11
482	Cloud computing for energy management in smart grid - an application survey. IOP Conference Series: Materials Science and Engineering, 2016, 121, 012010.	0.3	25
483	Distribution network reconfiguration in smart grid system using modified particle swarm optimization. , 2016, , .		18
484	Healthcare Assessment Questions Non-invasive Ambient Sensors. , 2016, , .		1
485	Review: Role of cloud computing in grid empowerment. , 2016, , .		3
486	A Phasor Measurement Unit based on discrete fourier transform using digital signal processor. , 2016, , .		11
487	Integrated network design for measurement and communication infrastructures in smart grids. , 2016, , .		4
488	A game theoretic approach to analyze the dynamic interactions of multiple residential prosumers considering power flow constraints. , 2016, , .		4
489	Cyberâ€physical attacks and defences in the smart grid: a survey. IET Cyber-Physical Systems: Theory and Applications, 2016, 1, 13-27.	1.9	332
490	Developing a strategical smart grid game and creating smart grid awareness through games. , 2016, , .		2
491	A two-tier energy management system for smart electric vehicle charging in UCLA: A Solar-To-Vehicle (S2V) case study. , 2016, , .		11
492	ETEL smart transformer initiative. , 2016, , .		2
493	Optimization of photovoltaic power self-consumption using genetic algorithm. , 2016, , .		0
494	Smart grid household's profiles simulator. , 2016, , .		2

#	Article	IF	CITATIONS
495	Collaborative service oriented smart grid using the Internet of Things. , 2016, , .		12
496	Towards secure and resilient networked power distribution grids: Process and tool adoption. , 2016, , ·		8
497	A statistical analysis and modeling of repair data from a Brazilian Power Distribution System. , 2016, , .		10
498	Controllability of Aggregate Demand Response Systems for Real-Time Pricing. , 2016, , .		1
499	Dynamic energy capacity planning for distributed resources in Smart Microgrids. , 2016, , .		4
500	Improvement of smart grid reliability considering various cyber network topologies and direct interdependency. , 2016, , .		7
501	A novel communication mechanism for Smart Meter packet transmission on LTE networks. , 2016, , .		4
502	Design of multi-dimensional search queries for efficient discovery of suppliers in the smart grid. , 2016, , .		1
503	Intertwined: Software-defined communication networks for multi-agent system-based Smart Grid control. , 2016, , .		20
504	A unified approach to characterizing medium to low voltage powerline communication channels. , 2016, , .		3
505	Distributed algorithms for peak ramp minimization problem in smart grid. , 2016, , .		5
506	Analysis of consensus-based economic dispatch algorithm under uniform time delays. , 2016, , .		9
507	Reducing the impact of solar energy shortages on the wireless access network powered by a PV panel system and the power grid. , 2016, , .		6
508	Agent based communication architecture for smart grid. , 2016, , .		0
509	An electricity load forecasting method based on association rule analysis in smart grid. , 2016, , .		1
510	Economical and environmental operation of smart networked microgrids under uncertainties using NSGA-II. , 2016, , .		12
511	Generation of synthetic spatially embedded power grid networks. , 2016, , .		29
512	Application of a Home Energy Management System for Incentive-Based Demand Response Program Implementation. , 2016, , .		13

#	Article	IF	CITATIONS
513	Short-term distribution system state forecast based on optimal synchrophasor sensor placement and extreme learning machine. , 2016, , .		16
514	On the convexity of Chernoff bound in the context of consumption admission control in smart grids. , 2016, , .		0
515	Enhanced Transmit Antenna Selection Scheme for Secure Throughput Maximization Without CSI at the Transmitter. IEEE Access, 2016, 4, 4861-4873.	2.6	14
516	Optimal privacy-preserving load scheduling in smart grid. , 2016, , .		1
517	Resource allocation and energy management in OFDM-based cellular systems. , 2016, , .		3
518	Technology planning for emerging business model and regulatory integration: The case of electric vehicle smart charging. , 2016, , .		0
519	Energy storage management for EV charging stations: Comparison between uncoordinated and statistical charging loads. , 2016, , .		9
520	Virtual Storages as Theoretically Motivated Demand Response Models for Enhanced Smart Grid Operations. Energy Technology, 2016, 4, 163-176.	1.8	6
521	Methods for the management of distributed electricity networks using software agents and market mechanisms: A survey. Electric Power Systems Research, 2016, 136, 362-369.	2.1	15
522	The Use of PLC Technology for Smart Grid Applications Over the MV Grid: The DG Paradigm. Energy Systems, 2016, , 81-117.	0.5	0
523	Impact of cyber-physical system vulnerability, telecontrol system availability and islanding on distribution network reliability. Sustainable Energy, Grids and Networks, 2016, 6, 143-151.	2.3	13
524	Achieving an optimal trade-off between revenue and energy peak within a smart grid environment. Renewable Energy, 2016, 91, 293-301.	4.3	24
525	Information and Communication Technology in Energy Lab 2.0: Smart Energies System Simulation and Control Center with an Open‧treetâ€Mapâ€Based Power Flow Simulation Example. Energy Technology, 2016, 4, 145-162.	1.8	56
526	Temporal Self-Regulation of Energy Demand. IEEE Transactions on Industrial Informatics, 2016, 12, 1196-1205.	7.2	16
527	A novel data collection mechanism for smart grids using public transportation buses. Computer Standards and Interfaces, 2016, 48, 19-29.	3.8	10
528	Dynamic load management for a residential customer; Reinforcement Learning approach. Sustainable Cities and Society, 2016, 24, 42-51.	5.1	29
529	QoS-Aware and Load-Balance Routing for IEEE 802.11s Based Neighborhood Area Network in Smart Grid. Wireless Personal Communications, 2016, 89, 1065-1088.	1.8	24
530	Smart Grid Economic Dispatch. Procedia Technology, 2016, 22, 740-745.	1.1	8

#	Article	IF	CITATIONS
531	The worth of network upgrade deferral in distribution systems – Truism or myth?. Electric Power Systems Research, 2016, 137, 96-103.	2.1	5
532	Socio-economic acceptability for smart grid development – a comprehensive review. Journal of Cleaner Production, 2016, 131, 399-409.	4.6	76
533	Aspects of balanced development of RES and distributed micro-cogeneration use in Poland: Case study of a µCHP with Stirling engine. Renewable and Sustainable Energy Reviews, 2016, 60, 930-952.	8.2	49
534	A 40–170 MHz PLL-Based PWM Driver Using 2-/3-/5-Level Class-D PA in 130 nm CMOS. IEEE Journal of Solid-State Circuits, 2016, 51, 2639-2650.	3.5	5
535	Optimization and simulation of smart grid distributed generation: A case study of university campus. , 2016, , .		17
536	Modeling and delay analysis of wide area network in smart grid communications. , 2016, , .		5
537	Optimization models for demand-side and supply-side scheduling in smart grids. , 2016, , .		5
538	Study on intelligent defect management strategy based on cloud mode. , 2016, , .		1
539	Provably Secure Authenticated Key Agreement Scheme for Smart Grid. IEEE Transactions on Smart Grid, 2016, , 1-1.	6.2	158
540	Strategic Guidelines for the Diffusion of Smart Grid Technologies Through a Korean Testbed. Information Technology for Development, 2016, 22, 503-524.	2.7	5
541	Security analysis and access protection of power distribution wireless private TD-LTE network. , 2016, , .		5
542	Risk Assessment of Home Gateway/Smart Meter in Smart Grid Service. , 2016, , .		2
543	A fog computing solution for advanced metering infrastructure. , 2016, , .		25
544	Hybrid Key Management Scheme for Secure AMI Communications. Procedia Computer Science, 2016, 93, 862-869.	1.2	15
545	Performance Analysis of Wireless Power Control Systems for Induction Aerogenerators for Smart Grid Applications. IEEE Latin America Transactions, 2016, 14, 3299-3307.	1.2	1
546	Emerging smart meters in electrical distribution systems: Opportunities and challenges. , 2016, , .		30
547	Power system reliability assessment based on Large Deviation Theory bounds. , 2016, , .		2
548	A survey of smart grid architectures, applications, benefits and standardization. Journal of Network and Computer Applications, 2016, 76, 23-36.	5.8	84

#	Article	IF	CITATIONS
549	Efficient low cost and easy testing methodology for analysis of wireless communication applied for IEDs. , 2016, , .		0
550	Pre-determination of system design adequacy in PV installation. , 2016, , .		4
551	Standardization and deployment scenario of next generation NB-PLC technologies. Renewable and Sustainable Energy Reviews, 2016, 65, 1033-1047.	8.2	24
552	Smart grid customers' acceptance and engagement: An overview. Renewable and Sustainable Energy Reviews, 2016, 65, 1285-1298.	8.2	116
553	Optimum distribution network operation considering distributed generation mode of operations and safety margin. IET Renewable Power Generation, 2016, 10, 1049-1058.	1.7	12
554	Metering and data processing in a micro-scale area for smart grid applications. , 2016, , .		6
555	A key management architecture and protocols for secure smart grid communications. Security and Communication Networks, 2016, 9, 3602-3617.	1.0	5
556	Impact of operators' performance in the reliability of cyberâ€physical power distribution systems. IET Generation, Transmission and Distribution, 2016, 10, 2640-2646.	1.4	28
557	Survey of multiagents systems application in Microgrids. , 2016, , .		9
558	Communication technologies for smart grid applications: A survey. Journal of Network and Computer Applications, 2016, 74, 133-148.	5.8	111
559	PRAC: Efficient privacy protection for vehicle-to-grid communications in the smart grid. Computers and Security, 2016, 62, 246-256.	4.0	28
560	Efficient prevention technique for false data injection attack in smart grid. , 2016, , .		15
561	Improving the robustness of the smart grid using a multi-objective key player identification approach. , 2016, , .		0
562	Analyzing impact of communication network topologies on reconfiguration of networked microgrids, impact of communication system on smart grid reliability, security and operation. , 2016, , .		8
563	Integrating demand response into electricity market. , 2016, , .		2
564	Predictive data analysis driven multi-agent system approach for electrical micro grids management. , 2016, , .		7
565	Photovoltaic inverter with smart grid functions. , 2016, , .		2
566	Long-Term Renewable Energy Usage Maximization in a Microgrid. , 2016, , .		0

# 567	ARTICLE Aggregation points planning for software-defined network based smart grid communications. , 2016, ,	IF	CITATIONS
568	Big data: From beginning to future. International Journal of Information Management, 2016, 36, 1231-1247.	10.5	282
569	Management of Renewable Energy for a Shared Facility Controller in Smart Grid. IEEE Access, 2016, 4, 4269-4281.	2.6	19
570	Location biased nature of net energy metering. , 2016, , .		3
571	A review of agent-based modelling of electricity markets in future energy eco-systems. , 2016, , .		13
572	Smart trolley-bus systems: Why a presumed dead relic makes the difference to re-electrify public transportation. , 2016, , .		3
573	Demand response scheme with electricity market prices for residential sector using stochastic dynamic optimization. , 2016, , .		8
574	A smart grid based algorithm for improving energy efficiency of large scale cooperating distributed systems. , 2016, , .		0
575	A method for minimizing energy cost in a microgrid with hybrid renewable power generation using controlled battery energy storage. , 2016, , .		4
576	Pseudonym-based privacy-preserving scheme for data collection in smart grid. International Journal of Ad Hoc and Ubiquitous Computing, 2016, 22, 120.	0.3	26
577	Identified improvements of wireless sensor networks in smart grid: issues, requirements and challenges. International Journal of Smart Grid and Green Communications, 2016, 1, 3.	0.2	4
578	Game-Theoretic Approach for Energy Trading in Smart Grids. , 2016, , 387-403.		0
579	Scheduling of domestic shiftable loads via Cuckoo search optimization algorithm. , 2016, , .		16
580	Power demand prediction in smart microgrids using interacting multiple model Kalman filtering. , 2016, , .		1
581	Combined Online and Delayed Coordinated Charging of Plug-In Electric Vehicles Considering Wind and Rooftop PV Generations. Technology and Economics of Smart Grids and Sustainable Energy, 2016, 1, 1.	1.8	1
582	Toward the Development of a Techno-Social Smart Grid. , 2016, 54, 202-209.		10
583	A fog computing based smart grid model. , 2016, , .		135
584	Whether to charge an electric vehicle or not? A near-optimal online approach. , 2016, , .		11

#	ARTICLE IP ² DM: integrated privacy-preserving data management architecture for smart grid V2G	IF	CITATIONS
585	networks. Wireless Communications and Mobile Computing, 2016, 16, 2956-2974.	0.8	16
586	Modeling and delay analysis of wireless HANs in smart grids over fading channels subjected to multiple access schemes and interference. , 2016, , .		0
587	Integration of electric vehicles within microgrid. , 2016, , .		5
588	Net energy meter with appliance control and bi-directional communication capability. , 2016, , .		18
589	Determinants of change in electricity distribution system operators - a review and survey. , 2016, , .		5
590	Concentrator placement for SDN-based smart power communication systems. , 2016, , .		Ο
591	DC Link Operation in Smart Distribution Systems With Communication Interruptions. IEEE Transactions on Smart Grid, 2016, 7, 2962-2970.	6.2	14
592	A low cost prototype of a Phasor Measurement Unit using Digital Signal Processor. , 2016, , .		7
593	Decision guidance framework to support operations and analysis of a hybrid renewable energy system. Journal of Management Analytics, 2016, 3, 285-304.	1.6	11
594	A Formal Framework for Modeling Smart Grid Applications: Demand Response Case Study. , 2016, , .		3
595	An MPEC approach for analysing the impact of energy storage in imperfect electricity markets. , 2016, , .		15
596	Fault detection in power system using the Hilbert-Huang Transform. , 2016, , .		3
597	Dynamic Base Station Operation in Large-Scale Green Cellular Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 3127-3141.	9.7	44
598	Design of improved generalized predictive controller in the critical thermal process of 600MW subcritical unit. , 2016, , .		0
599	Smart Grid Testbed for Demand Focused Energy Management in End User Environments. IEEE Wireless Communications, 2016, 23, 70-80.	6.6	46
600	Ontology-based abstraction layer for smart grid interaction in building energy management systems. , 2016, , .		22
601	Dynamic elastic load scheduling achieving load balancing for smart grid. , 2016, , .		2
602	An educational platform for residential and industrial energy monitoring. , 2016, , .		1

#	ARTICLE An execution of smart grid with game theory. , 2016, , .	IF	CITATIONS
604	Combating distance limitation for communications within Multiple Micro-Grids by Virtual routers. , 2016, , .		0
605	Performance Analysis of Advanced Metering Infrastructure with Multihop Hybrid Communication System. , 2016, , .		1
606	Grid voltage stabilization for smart grid systems. , 2016, , .		3
607	Scheduling for electricity cost in a smart grid. Journal of Scheduling, 2016, 19, 687-699.	1.3	9
608	Smart-Grid Topology Identification Using Sparse Recovery. IEEE Transactions on Industry Applications, 2016, 52, 4375-4384.	3.3	25
609	TOU pricing based energy management of public EV charging stations using energy storage system. , 2016, , .		9
610	Taming instabilities in power grid networks by decentralized control. European Physical Journal: Special Topics, 2016, 225, 569-582.	1.2	59
611	Minimizing the energy cost for microgrids integrated with renewable energy resources and conventional generation using controlled battery energy storage. Renewable Energy, 2016, 97, 646-655.	4.3	76
612	A comprehensive overview of cyber-physical systems: from perspective of feedback system. IEEE/CAA Journal of Automatica Sinica, 2016, 3, 1-14.	8.5	85
613	Power-aware communication management for reliable remote relay protection in smart grid. , 2016, , .		3
614	A survey of communication technologies for smart grid connectivity. , 2016, , .		34
615	Channel discovery algorithms for interference avoidance in smart grid communication networks: a survey. Wireless Communications and Mobile Computing, 2016, 16, 427-440.	0.8	7
616	A reliable QoS-aware routing scheme for neighbor area network in smart grid. Peer-to-Peer Networking and Applications, 2016, 9, 616-627.	2.6	44
617	Towards Multistep Electricity Prices in Smart Grid Electricity Markets. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 286-302.	4.0	66
618	Wireless Neighborhood Area Networks With QoS Support for Demand Response in Smart Grid. IEEE Transactions on Smart Grid, 2016, 7, 1913-1923.	6.2	98
619	Power Management of Intelligent Buildings Facilitated by Smart Grid: A Market Approach. IEEE Transactions on Smart Grid, 2016, 7, 1389-1400.	6.2	45
620	Energy Storage Sharing in Smart Grid: A Modified Auction-Based Approach. IEEE Transactions on Smart Grid, 2016, 7, 1462-1475.	6.2	268

#	Article	IF	CITATIONS
621	A Comprehensive Review of Smart Energy Meters in Intelligent Energy Networks. IEEE Internet of Things Journal, 2016, 3, 464-479.	5.5	224
622	Demand side management for a residential customer in multi-energy systems. Sustainable Cities and Society, 2016, 22, 63-77.	5.1	90
623	Initiatives and technical challenges in smart distribution grid. Renewable and Sustainable Energy Reviews, 2016, 58, 911-917.	8.2	26
624	User Association in 5C Networks: A Survey and an Outlook. IEEE Communications Surveys and Tutorials, 2016, 18, 1018-1044.	24.8	462
625	Decentralized Renewable Energy Pricing and Allocation for Millimeter Wave Cellular Backhaul. IEEE Journal on Selected Areas in Communications, 2016, 34, 1140-1159.	9.7	19
626	Robustness of delayed multistable systems with application to droop-controlled inverter-based microgrids. International Journal of Control, 2016, 89, 909-918.	1.2	26
627	Cost Minimization of Charging Stations With Photovoltaics: An Approach With EV Classification. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 156-169.	4.7	162
628	Energy Group Buying With Loading Sharing for Green Cellular Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 786-799.	9.7	45
629	Comparison of Wireless Power Controllers for Induction Aerogenerators Connected to a Smart Grid Based on GPRS and EGPRS Standards. Journal of Control, Automation and Electrical Systems, 2016, 27, 328-338.	1.2	9
630	Cooperative Strategy for Optimal Management of Smart Grids by Wavelet RNNs and Cloud Computing. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1672-1685.	7.2	32
631	Next Generation 5G Wireless Networks: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2016, 18, 1617-1655.	24.8	2,413
632	Optimal operation of DES/CCHP based regional multi-energy prosumer with demand response. Applied Energy, 2016, 167, 353-365.	5.1	164
633	Tuning Parameters of the QoS-Aware Routing Protocol for Smart Grids Using Genetic Algorithm. Applied Artificial Intelligence, 2016, 30, 52-76.	2.0	2
634	Universal Droop Control of Inverters With Different Types of Output Impedance. IEEE Access, 2016, 4, 702-712.	2.6	193
635	Smart Charging for Electric Vehicles: A Survey From the Algorithmic Perspective. IEEE Communications Surveys and Tutorials, 2016, 18, 1500-1517.	24.8	190
636	Compressive Sensing-Based Topology Identification for Smart Grids. IEEE Transactions on Industrial Informatics, 2016, 12, 532-543.	7.2	78
637	Optimal Cloud Computing Resource Allocation for Demand Side Management. IEEE Transactions on Smart Grid, 2016, , 1-13.	6.2	44
638	An analysis on the effectiveness of a smart grid test-bed project: The Korean case. Renewable and Sustainable Energy Reviews, 2016, 59, 868-875.	8.2	4

#	Article	IF	CITATIONS
639	The contributions of cloud technologies to smart grid. Renewable and Sustainable Energy Reviews, 2016, 59, 1326-1331.	8.2	53
640	Proactive Demand Response for Data Centers: A Win-Win Solution. IEEE Transactions on Smart Grid, 2016, 7, 1584-1596.	6.2	85
641	Fault diagnostics in smart micro-grids: A survey. Renewable and Sustainable Energy Reviews, 2016, 60, 1114-1124.	8.2	129
642	Incorporating price-responsive customers in day-ahead scheduling of smart distribution networks. Energy Conversion and Management, 2016, 115, 103-116.	4.4	38
643	A survey on smart metering and smart grid communication. Renewable and Sustainable Energy Reviews, 2016, 57, 302-318.	8.2	477
644	Load forecasting of supermarket refrigeration. Applied Energy, 2016, 163, 32-40.	5.1	24
645	A survey on the critical issues in smart grid technologies. Renewable and Sustainable Energy Reviews, 2016, 54, 396-405.	8.2	216
646	Cognitive Radio for Smart Grids: Survey of Architectures, Spectrum Sensing Mechanisms, and Networking Protocols. IEEE Communications Surveys and Tutorials, 2016, 18, 860-898.	24.8	285
647	Development of thin film based flexible current clamp sensor using screen-printed coil. Microsystem Technologies, 2016, 22, 577-581.	1.2	3
648	Transmission Line Rating Attack in Two-Settlement Electricity Markets. IEEE Transactions on Smart Grid, 2016, 7, 1346-1355.	6.2	48
649	Policy enforcement system for secure interoperable control in distributed Smart Grid systems. Journal of Network and Computer Applications, 2016, 59, 301-314.	5.8	35
650	A Hybrid Estimator for Active/Reactive Power Control of Single-Phase Distributed Generation Systems With Energy Storage. IEEE Transactions on Power Electronics, 2016, 31, 2919-2936.	5.4	49
651	Cooperative Energy Trading in CoMP Systems Powered by Smart Grids. IEEE Transactions on Vehicular Technology, 2016, 65, 2142-2153.	3.9	67
652	Stochastic Dynamic Game between Hydropower Plant and Thermal Power Plant in Smart Grid Networks. IEEE Systems Journal, 2016, 10, 88-96.	2.9	19
653	Distributed Home Energy Management System With Storage in Smart Grid Using Game Theory. IEEE Systems Journal, 2017, 11, 1857-1866.	2.9	104
654	Lightweight Security and Privacy Preserving Scheme for Smart Grid Customer-Side Networks. IEEE Transactions on Smart Grid, 2017, 8, 1064-1074.	6.2	61
655	Supply chain intelligence for electricity markets: A smart grid perspective. Information Systems Frontiers, 2017, 19, 91-107.	4.1	17
656	A Secure and Efficient Framework to Read Isolated Smart Grid Devices. IEEE Transactions on Smart Grid, 2017, 8, 2519-2531.	6.2	65

#	Article	IF	CITATIONS
657	An Online Convex Optimization Approach to Real-Time Energy Pricing for Demand Response. IEEE Transactions on Smart Grid, 2017, 8, 2784-2793.	6.2	79
658	Price Discrimination for Energy Trading in Smart Grid: A Game Theoretic Approach. IEEE Transactions on Smart Grid, 2017, 8, 1790-1801.	6.2	104
659	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
660	Decentralized Reactive Power Compensation Using Nash Bargaining Solution. IEEE Transactions on Smart Grid, 2017, 8, 1679-1688.	6.2	46
661	Robust Real-Time Distributed Optimal Control Based Energy Management in a Smart Grid. IEEE Transactions on Smart Grid, 2017, 8, 1568-1579.	6.2	49
662	Cloud-Assisted Context-Aware Vehicular Cyber-Physical System for PHEVs in Smart Grid. IEEE Systems Journal, 2017, 11, 140-151.	2.9	21
663	Enabling Self-Healing Smart Grid Through Jamming Resilient Local Controller Switching. IEEE Transactions on Dependable and Secure Computing, 2017, 14, 377-391.	3.7	12
664	Defending Against False Data Injection Attacks on Power System State Estimation. IEEE Transactions on Industrial Informatics, 2017, 13, 198-207.	7.2	246
665	Lightweight Authentication and Privacy-Preserving Scheme for V2G Connections. IEEE Transactions on Vehicular Technology, 2017, 66, 2615-2629.	3.9	70
666	Industrial Demand Management Providing Ancillary Services to the Distribution Grid: Experimental Verification. IEEE Transactions on Control Systems Technology, 2017, 25, 485-495.	3.2	13
667	Energy Efficiency Improvement via Bus Voltage Control of Inverter for Electric Vehicles. IEEE Transactions on Vehicular Technology, 2017, 66, 1063-1073.	3.9	40
668	A Knowledge-Based Energy Management Model that Supports Smart Metering Networks for Korean Residential Energy Grids. Wireless Personal Communications, 2017, 94, 431-444.	1.8	1
669	Intelligent Energy and Traffic Coordination for Green Cellular Networks With Hybrid Energy Supply. IEEE Transactions on Vehicular Technology, 2017, 66, 1631-1646.	3.9	55
670	Centralized Disturbance Detection in Smart Microgrids With Noisy and Intermittent Synchrophasor Data. IEEE Transactions on Smart Grid, 2017, 8, 2775-2783.	6.2	36
671	A two-stage Energy Management System for smart buildings reducing the impact of demand uncertainty. Energy and Buildings, 2017, 139, 1-9.	3.1	66
672	Vision for wind energy with a smart grid in Izmir. Renewable and Sustainable Energy Reviews, 2017, 73, 332-345.	8.2	26
673	Markov-Decision-Process-Assisted Consumer Scheduling in a Networked Smart Grid. IEEE Access, 2017, 5, 2448-2458.	2.6	32
674	Enhancing smart grid with microgrids: Challenges and opportunities. Renewable and Sustainable Energy Reviews, 2017, 72, 205-214.	8.2	343

#	Article	IF	CITATIONS
675	A rule-based strategy to the predictive management of a grid-connected residential building in southern France. Sustainable Cities and Society, 2017, 30, 18-36.	5.1	9
676	Game-Theoretic Approaches for Energy Cooperation in Energy Harvesting Small Cell Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 7178-7194.	3.9	37
677	Mobile robot for power substation inspection: a survey. IEEE/CAA Journal of Automatica Sinica, 2017, 4, 830-847.	8.5	64
678	Performance Assessment and Feasibility Analysis of IEEE 802.15.4m Wireless Sensor Networks in TV Grayspaces. ACM Transactions on Sensor Networks, 2017, 13, 1-27.	2.3	6
679	Wireless Sensor Network Based Smart Grid Communications: Challenges, Protocol Optimizations, and Validation Platforms. Wireless Personal Communications, 2017, 95, 4025-4047.	1.8	33
681	Adaptive intelligent techniques for microgrid control systems: A survey. International Journal of Electrical Power and Energy Systems, 2017, 90, 292-305.	3.3	110
682	A lightweight authentication and key agreement scheme for smart grid. International Journal of Distributed Sensor Networks, 2017, 13, 155014771769417.	1.3	22
683	Green Data Centres integration in smart grids: New frontiers for ancillary service provision. Electric Power Systems Research, 2017, 148, 59-73.	2.1	8
684	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
686	OPTIMUM ENERGY FOR ENERGY PACKET NETWORKS. Probability in the Engineering and Informational Sciences, 2017, 31, 516-539.	0.6	7
687	Semantic Knowledge and Service Models for Energy-Aware Systems. Lecture Notes in Computer Science, 2017, , 523-537.	1.0	0
688	A statistical unsupervised method against false data injection attacks: A visualization-based approach. Expert Systems With Applications, 2017, 84, 242-261.	4.4	53
689	Cyber-Physical Systems Security—A Survey. IEEE Internet of Things Journal, 2017, 4, 1802-1831.	5.5	672
690	Residential Demand Response for Renewable Energy Resources in Smart Grid Systems. IEEE Transactions on Industrial Informatics, 2017, 13, 3165-3173.	7.2	94
691	CCPA: Coordinated Cyber-Physical Attacks and Countermeasures in Smart Grid. IEEE Transactions on Smart Grid, 2017, 8, 2420-2430.	6.2	160
692	Towards clustering-based device-to-device communications for supporting applications. ACM SIGAPP Applied Computing Review: A Publication of the Special Interest Group on Applied Computing, 2017, 17, 35-48.	0.5	5
693	Detection of energy theft and defective smart meters in smart grids using linear regression. International Journal of Electrical Power and Energy Systems, 2017, 91, 230-240.	3.3	120
694	Real-time pricing scheme based on Stackelberg game in smart grid with multiple power retailers. Neurocomputing, 2017, 260, 149-156.	3.5	58

#	Article	IF	CITATIONS
695	Design of an Advanced Phasor Data Concentrator for Monitoring of Distributed Energy Resources in Smart Microgrids. IEEE Transactions on Industrial Informatics, 2017, 13, 3027-3036.	7.2	33
696	Review of energy storage systems for electric vehicle applications: Issues and challenges. Renewable and Sustainable Energy Reviews, 2017, 69, 771-789.	8.2	660
697	Energy-Aware Optimal Data Aggregation in Smart Grid Wireless Communication Networks. IEEE Transactions on Green Communications and Networking, 2017, 1, 358-371.	3.5	19
698	Privacy Preserving Smart Meter Streaming Against Information Leakage of Appliance Status. IEEE Transactions on Information Forensics and Security, 2017, 12, 2227-2241.	4.5	45
699	DC Microgrid Technology: System Architectures, AC Grid Interfaces, Grounding Schemes, Power Quality, Communication Networks, Applications, and Standardizations Aspects. IEEE Access, 2017, 5, 12230-12256.	2.6	522
700	Modelling the Microgrid and Its Parameter Estimations Considering Fading Channels. IEEE Access, 2017, 5, 10953-10958.	2.6	19
701	A Novel Random Access Mechanism for Timely Reliable Communications for Smart Meters. IEEE Transactions on Industrial Informatics, 2017, 13, 3256-3264.	7.2	7
702	Toward Delay-Tolerant Flexible Data Access Control for Smart Grid With Renewable Energy Resources. IEEE Transactions on Industrial Informatics, 2017, 13, 3216-3225.	7.2	25
703	A Survey on Energy Internet Communications for Sustainability. IEEE Transactions on Sustainable Computing, 2017, 2, 231-254.	2.2	107
704	Observer based robust integral sliding mode load frequency control for wind power systems. Control Engineering Practice, 2017, 65, 1-10.	3.2	47
705	Dual LiNbO3 Crystal-Based Batteryless and Contactless Optical Transient Overvoltage Sensor for Overhead Transmission Line and Substation Applications. IEEE Transactions on Industrial Electronics, 2017, 64, 7323-7332.	5.2	43
706	Disturbances Classification Based on a Model Order Selection Method for Power Quality Monitoring. IEEE Transactions on Industrial Electronics, 2017, 64, 9421-9432.	5.2	25
707	Setâ€based fault detection and isolation for detectable linear parameterâ€varying systems. International Journal of Robust and Nonlinear Control, 2017, 27, 4381-4397.	2.1	14
708	Performance Analysis for IEEE 802.11s Wireless Mesh Network in Smart Grid. Wireless Personal Communications, 2017, 96, 1537-1555.	1.8	29
709	Multi-Layered Clustering for Power Consumption Profiling in Smart Grids. IEEE Access, 2017, 5, 18459-18468.	2.6	33
710	Achieving Efficient and Secure Data Acquisition for Cloud-Supported Internet of Things in Smart Grid. IEEE Internet of Things Journal, 2017, 4, 1934-1944.	5.5	198
711	Optimizing Technology Selection for Power Smart Grid Systems: a Case Study of Iran Power Distribution Industry (IPDI). Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	1.8	7
712	Wireless Information and Power Transfer Design for Energy Cooperation Distributed Antenna Systems. IEEE Access, 2017, 5, 8094-8105.	2.6	29

	CHATION R	LPORT	
# 713	ARTICLE Foud: Integrating Fog and Cloud for 5G-Enabled V2G Networks. IEEE Network, 2017, 31, 8-13.	lF 4.9	CITATIONS
714	A novel method based on Weibull distribution for short-term wind speed prediction. International Journal of Hydrogen Energy, 2017, 42, 17793-17800.	3.8	19
715	Operational planning and optimal sizing of microgrid considering multi-scale wind uncertainty. Applied Energy, 2017, 195, 616-633.	5.1	86
717	Evolution of PV systems in Greece and review of applicable solutions for higher penetration levels. Renewable Energy, 2017, 109, 487-499.	4.3	57
718	Jammer Localization in Multi-Hop Wireless Network: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 765-799.	24.8	51
719	Analysis of Consensus-Based Distributed Economic Dispatch Under Stealthy Attacks. IEEE Transactions on Industrial Electronics, 2017, 64, 5107-5117.	5.2	107
720	A Hybrid Energy Sharing Framework for Green Cellular Networks. IEEE Transactions on Communications, 2017, 65, 918-934.	4.9	67
721	LTE smart grid performance gains with additional remote antenna units via radio over fiber using a microring resonator system. Optical Switching and Networking, 2017, 25, 13-23.	1.2	6
722	Opportunities and challenges in control of smart grids – Pakistani perspective. Renewable and Sustainable Energy Reviews, 2017, 71, 652-674.	8.2	50
723	Ontology Driven Approach to Generate Distributed Automation Control From Substation Automation Design. IEEE Transactions on Industrial Informatics, 2017, 13, 668-679.	7.2	21
724	Short-term peer-to-peer solar forecasting in a network of photovoltaic systems. Applied Energy, 2017, 206, 1464-1483.	5.1	64
725	Interface Protection and Energy Management System for Microgrid using Internet of Things. Energy Procedia, 2017, 117, 201-208.	1.8	8
726	Equation-Based Object-Oriented modelling and simulation of large-scale Smart Grids with Modelica. IFAC-PapersOnLine, 2017, 50, 5542-5547.	0.5	7
727	Optimal Design and Planning of Electric Vehicles Within Microgrid. Communications in Computer and Information Science, 2017, , 677-690.	0.4	3
729	Kalman filter with diffusion strategies for detecting power grid false data injection attacks. , 2017, , .		11
730	Storage coordination and peak-shaving operation in urban areas with high renewable penetration. , 2017, , .		0
731	Optimising channel assignment to prevent flow starvation and improve fairness for planning single radio WMNs in built environments. Computer Networks, 2017, 129, 215-231.	3.2	3
732	A goodput distribution model for planning IEEE 802.11 WBNs in built environments. Journal of Network and Computer Applications, 2017, 99, 28-46.	5.8	1

#	Article	IF	CITATIONS
733	Real-Time Energy Trading and Future Planning for Fifth Generation Wireless Communications. IEEE Wireless Communications, 2017, 24, 24-30.	6.6	32
734	Configuring DDS features for communicating components in smart grids. , 2017, , .		3
735	Scaling up sustainable energy innovations. Energy Policy, 2017, 110, 342-354.	4.2	104
736	Overview on Microgrids: Technologies, Control and Communications. , 2017, , 1-18.		Ο
737	Cognitive Radio Based Sensor Network in Smart Grid: Architectures, Applications and Communication Technologies. IEEE Access, 2017, 5, 19084-19098.	2.6	73
738	Smart campus energy management system. , 2017, , .		10
739	A Novel Data Injection Cyber-Attack Against Dynamic State Estimation in Smart Grid. Communications in Computer and Information Science, 2017, , 607-615.	0.4	1
740	Achieving Efficient Detection Against False Data Injection Attacks in Smart Grid. IEEE Access, 2017, 5, 13787-13798.	2.6	90
741	An efficient and secure data sharing in Smart Grid: Ciphertext-policy attribute-based signcryption. , 2017, , .		7
742	Thin film based flexible current sensor using a micropatterned Cu coil. , 2017, , .		2
743	Towards a secure network architecture for smart grids in 5G era. , 2017, , .		21
744	Simulation of Smart Grid power dispatch. , 2017, , .		2
745	Electricity load forecasting by an improved forecast engine for building level consumers. Energy, 2017, 139, 18-30.	4.5	350
746	Analysis of High-Frequency Impedance Measurement Techniques for Power Line Network Sensing. IEEE Sensors Journal, 2017, 17, 7630-7640.	2.4	21
747	Online Pricing for Efficient Renewable Energy Sharing in a Sustainable Microgrid. Computer Journal, 2017, , .	1.5	2
748	On development of execution model for model transforming distributed substation automation control with ontology. , 2017, , .		1
749	Cost-Aware Cellular Networks Powered by Smart Grids and Energy Harvesting. , 0, , 271-288.		0
750	An Energy and Cost Aware Framework for Cell Selection and Energy Cooperation in Rural and Remote Femtocell Networks. IEEE Transactions on Green Communications and Networking, 2017, 1, 423-433.	3.5	9

#	Article	IF	CITATIONS
751	Resilient and Low-Latency Information Acquisition for FiWi Enhanced Smart Grid. IEEE Network, 2017, 31, 80-86.	4.9	15
752	A Novel Distributed Fog-Based Networked Architecture to Preserve Energy in Fog Data Centers. , 2017, ,		28
753	ICT for renewable energy integration into smart buildings: IoT and big data approach. , 2017, , .		25
754	Multi-criteria trust establishment for Internet of Agents in smart grids. Multiagent and Grid Systems, 2017, 13, 287-309.	0.5	6
755	Real time monitoring of substation by using cloud computing. , 2017, , .		5
756	Large-Scale Distributed Dedicated- and Non-Dedicated Smart City Sensing Systems. IEEE Sensors Journal, 2017, 17, 7649-7658.	2.4	90
757	Escape routes, weak links, and desynchronization in fluctuation-driven networks. Physical Review E, 2017, 95, 060203.	0.8	40
758	Towards Better Availability and Accountability for IoT Updates by Means of a Blockchain. , 2017, , .		136
759	Reverse-blocking modular multilevel converter for battery energy storage systems. Journal of Modern Power Systems and Clean Energy, 2017, 5, 652-662.	3.3	10
760	Big Data-Based Approach to Detect, Locate, and Enhance the Stability of an Unplanned Microgrid Islanding. Journal of Energy Engineering - ASCE, 2017, 143, .	1.0	17
761	Incorporating user utility in a smart microgrid with distributed generation and elastic demand. , 2017, , .		1
762	Evaluation of Power Interchange in Microgrids with Autonomous Distributed Control. , 2017, , .		0
763	Decentralized Energy Demand Regulation in Smart Homes. IEEE Transactions on Green Communications and Networking, 2017, 1, 372-380.	3.5	8
764	A privacy-preserving degree-matching multi-attribute auction scheme in smart grid auction market. Personal and Ubiquitous Computing, 2017, 21, 779-789.	1.9	2
765	Context-Aware Wireless Sensors for IoT-Centeric Energy-Efficient Campuses. , 2017, , .		11
766	Information systems in seaports: a categorization and overview. Information Technology and Management, 2017, 18, 179-201.	1.4	109
767	Microgrid energy scheduling using storage from electric vehicles. Electric Power Systems Research, 2017, 143, 554-562.	2.1	77
768	A Survey on Smart Grid Cyber-Physical System Testbeds. IEEE Communications Surveys and Tutorials, 2017, 19, 446-464.	24.8	281

ARTICLE IF CITATIONS A survey on behind the meter energy management systems in smart grid. Renewable and Sustainable 8.2 96 Energy Reviews, 2017, 72, 1208-1232. Wireless MEMS for smart grids., 2017, , 239-258. Privacy Protection Using a Rechargeable Battery for Energy Consumption in Smart Grids. IEEE 4.9 14 Network, 2017, 31, 59-63. Real-Time Distributed Management for Control of Smart Grids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2017, 5, 490-503. Smart Grid., 2017, , 1465-1501. 1 Home Energy Management Systems: A Review of Modelling and Complexity. Lecture Notes in Energy, 2017, , 753-793. 0.2 Characterization of electric load with Information Theory quantifiers. Physica A: Statistical 1.2 25 Mechanics and Its Applications, 2017, 465, 277-284. Dynamic Appliances Scheduling in Collaborative MicroGrids System. IEEE Transactions on Power 4.6 Sýstems, 2017, 32, 2276-2287 False Data Injection on State Estimation in Power Systemsâ€"Attacks, Impacts, and Defense: A Survey. IEEE 7.2 403 Transactions on Industrial Informatics, 2017, 13, 411-423. VALUES-BASED NETWORK AND BUSINESS MODEL INNOVATION. International Journal of Innovation Management, 2017, 21, 1750028. Communication-Based Decentralized Demand Response for Smart Microgrids. IEEE Transactions on 5.2 43 Industrial Electronics, 2017, 64, 5192-5202. Dynamic Secrets and Secret Keys Based Scheme for Securing Last Mile Smart Grid Wireless Cómmunication. IEEE Transactions on Industrial Informatics, 2017, 13, 1482-1491. Multiagent Framework for Smart Grids Recovery. IEEE Transactions on Systems, Man, and Cybernetics: 5.9 43 Systems, 2017, 47, 1284-1300. Battery monitoring system for the smart grid applications., 2017,,. Modeling cascading-failures in power grids including communication and human operator impacts., 12 2017,,. Load Scheduling of Thermostatical House-Hold Appliances Against Abrupt Changes in Smart Grid., 2017,,. IoT Infrastructure and Potential Application to Smart Grid Communications., 2017,,. 12

CITATION REPORT

786	Secure Optimal Itinerary Planning for Electric Vehicles in the Smart Grid. IEEE Transactions on Industrial Informatics, 2017, 13, 3236-3245.	7.2	29
-----	--	-----	----

#

769

770

771

773

774

775

777

778

779

781

783

784

CITATION REPOR	
	Т

#	Article	IF	CITATIONS
787	Dynamic demand response in smart buildings using an intelligent residential load management system. IET Generation, Transmission and Distribution, 2017, 11, 4348-4357.	1.4	40
788	A Performance-Improved and Storage-Efficient Secondary Index for Big Data Processing. , 2017, , .		2
789	Minimum cost security measurements for attack tree based threat models in smart grid. , 2017, , .		2
790	Demand side management in residential areas using geographical information system. , 2017, , .		1
791	A multi-objective evolutionary solution to improve the quality of life in smart cities. , 2017, , .		3
792	Market-based mechanisms for smart grid management: Necessity, applications and opportunities. , 2017, , .		3
793	Event-Driven Energy Trading System in Microgrids: Aperiodic Market Model Analysis With a Game Theoretic Approach. IEEE Access, 2017, 5, 26291-26302.	2.6	37
794	Particle-filter-enabled real-time sensor fault detection without a model of faults. , 2017, , .		2
795	Anomaly behavior analysis for smart grid automation system. , 2017, , .		2
796	An improved approach for route selection in MANETs using genetic algorithm for smart grids applications. , 2017, , .		3
797	Efficient urban coverage for relay aided smart energy wireless networks. , 2017, , .		2
798	Communications in distributed smart grid control: Software-defined vs. legacy networks. , 2017, , .		7
799	Data aggregation on smart grid communications considering fault tolerance and privacy. , 2017, , .		0
800	Enhanced modular multilevel converter based battery energy storage system. , 2017, , .		4
801	A distributed algorithm for demand-side management: Selling back to the grid. Heliyon, 2017, 3, e00457.	1.4	18
802	On the Robustness of a Passivity–based Controller for Microgrids * *Part of this work was supported by DGAPA-UNAM under grant IN116516 IFAC-PapersOnLine, 2017, 50, 6648-6653.	0.5	0
803	On Companding and Optimization of OFDM Signals for Mitigating Impulsive Noise in Power-Line Communication Systems. IEEE Access, 2017, 5, 21818-21830.	2.6	17
804	Smart Electric Vehicle Charging Through Cloud Monitoring and Management. Technology and Economics of Smart Grids and Sustainable Energy, 2017, 2, 1.	1.8	13

#	Article	IF	CITATIONS
805	Communications in smart grids. , 2017, , .		3
806	Deep Development and Technology Application Based on Electric Big Data. , 2017, , .		3
807	Communication systems and security issues in smart microgrids. , 2017, , .		11
808	Optimal utilization of storage systems under real-time pricing. , 2017, , .		0
809	Recent advances on state estimation for power grids with unconventional measurements. IET Control Theory and Applications, 2017, 11, 3221-3232.	1.2	18
810	A survey on run-time supporting platforms for cyber physical systems. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 1458-1478.	1.5	9
811	Coordinated failure response and recovery in a decentralized microgrid architecture. , 2017, , .		4
812	Service-oriented extension of IEC 61850 for model-driven smart grid automation design. , 2017, , .		3
813	Evaluating the reliability and security of power distribution wireless network. CIRED - Open Access Proceedings Journal, 2017, 2017, 1102-1106.	0.1	3
814	SD-OPTS: Software-Defined On-Path Time Synchronization for Information-Centric Smart Grid. , 2017, , .		6
815	Comparative based beneficial analysis of smart grid technology developments with the conventionally available power grid. , 2017, , .		1
816	Two-way energy trading and online planning for fifth-generation communications with renewables. , 2017, , .		0
817	Fault tolerant fusion of office sensor data using cartesian genetic programming. , 2017, , .		2
818	Multi-level control framework for enhanced flexibility of active distribution network. , 2017, , .		2
819	Rootkit detection through phase-space analysis of power voltage measurements. , 2017, , .		8
820	A flow direction enforcing approach for economic dispatch with adjustable line impedance. , 2017, , .		1
821	Risk-constrained offering strategies for a price-maker demand response aggregator. , 2017, , .		5
822	State estimation for a TCP/IP network using terminal sliding-mode methodology. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
823	Secure Data Provenance in Home Energy Monitoring Networks. , 2017, , .		9
824	Secure energy management in Smart Energy Networks. , 2017, , .		1
825	A demand response optimization model for home appliances load scheduling. , 2017, , .		3
826	Shortâ€ŧerm risk assessment of botnet attacks on advanced metering infrastructure. IET Cyber-Physical Systems: Theory and Applications, 2017, 2, 143-151.	1.9	16
827	Advanced controller resiliency in software-defined networking enabled critical infrastructure communications. , 2017, , .		3
828	Scheduling Methods to Improve the Performance of Heterogeneous Periodic Flows in Wireless Sensor Networks. , 2017, , .		5
829	Higher order sliding mode observers and nonlinear algebraic estimators for state tracking in power networks. , 2017, , .		8
830	Development of a smart electric motor testbed for Internet of Things and big data technologies. , 2017, , .		5
831	Use of automated blinds in smart buildings for energy savings: A mexican case. , 2017, , .		1
832	Circulating current reduction and power sharing control in parallel connected inverters. , 2017, , .		1
833	A Case for Information Centric Networking For Smart Grid Communications. , 2017, , .		3
834	On requirements-driven design of distributed smart grid automation control. , 2017, , .		1
835	Analysis and system modeling of a smart grid: Case study of the operations domain. , 2017, , .		2
836	Whether to Charge or Discharge an Electric Vehicle? An Optimal Approach in Polynomial Time. , 2017, , .		9
837	A Distributed Computing Architecture for the Large-Scale Integration of Renewable Energy and Distributed Resources in Smart Grids. , 0, , .		1
838	Considerations for IP Interconnection of Power Grid Components. MATEC Web of Conferences, 2017, 125, 03011.	0.1	0
839	Incorporating Charging/Discharging Strategy of Electric Vehicles into Security-Constrained Optimal Power Flow to Support High Renewable Penetration. Energies, 2017, 10, 729.	1.6	27
840	Indemnity for Frequency Disruption in a Smart Grid during Cyber–Attack. , 2017, , .		2

	CITA	tion Report	
#	Article	IF	CITATIONS
841	Consumer Acceptance Analysis of the Home Energy Management System. Sustainability, 2017, 9, 2351.	1.6	33
842	Internet of Things: A Scientometric Review. Symmetry, 2017, 9, 301.	1.1	35
843	A survey of intrusion detection systems in smart grid. International Journal of Sensor Networks, 2017, 23, 170.	0.2	47
844	A Brief Introduction to Smart Grid Safety and Security. , 2017, , 225-252.		5
845	Privacy-Preserving Aggregation and Authentication of Multi-Source Smart Meters in a Smart Grid System. Applied Sciences (Switzerland), 2017, 7, 1007.	1.3	13
846	Wireless Sensor Network Based Smart Grid Communications: Cyber Attacks, Intrusion Detection System and Topology Control. Electronics (Switzerland), 2017, 6, 5.	1.8	78
847	Efficient Energy Consumption Scheduling: Towards Effective Load Leveling. Energies, 2017, 10, 105.	1.6	11
848	Smart Distribution Networks: A Review of Modern Distribution Concepts from a Planning Perspective. Energies, 2017, 10, 501.	1.6	73
849	DG Placement in Loop Distribution Network with New Voltage Stability Index and Loss Minimization Condition Based Planning Approach under Load Growth. Energies, 2017, 10, 1203.	1.6	24
850	Control Strategies for Improving Energy Efficiency and Reliability in Autonomous Microgrids with Communication Constraints. Energies, 2017, 10, 1443.	1.6	13
851	A Novel Fault Early Warning Model Based on Fault Gene Table for Smart Distribution Grids. Energies, 2017, 10, 1963.	1.6	7
852	Multilevel converter for direct grid integration of renewable energy system. , 2017, , .		3
853	Sag compensation in smart grid with distributed generation. , 2017, , .		0
854	A hierarchical cyber physical system for integrated demand side management of power usage in buildings. , 2017, , .		1
855	Formal verification of demand response based home energy management systems in smart grids. , 2017 \cdot	, ,	2
856	Internet of Things and the Economics of Microgrids. , 2017, , 241-258.		6
857	Privacy-preserving power request and trading by prepayment in smart grid. , 2017, , .		2
858	Analysis and design of wireless network for electric energy data acuquisition system in China. , 2017, ,		0

#	Article	IF	CITATIONS
859	Privacy-preserving consensus-based energy management in smart grid. , 2017, , .		10
860	Dynamic balancing of powers in islanded microgrid using distributed energy resources and prosumers for efficient energy management. , 2017, , .		6
861	How they interact? Understanding cyber and physical interactions against fault propagation in smart grid. , 2017, , .		2
862	Discovering energy communities for microgrids on the power grid. , 2017, , .		7
863	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
864	Consumer Preference Electricity Usage Plan for Demand Side Management in the Smart Grid. SAIEE Africa Research Journal, 2017, 108, 174-184.	1.1	4
865	A Hardware-in-the-Loop Based Co-Simulation Platform of Cyber-Physical Power Systems for Wide Area Protection Applications. Applied Sciences (Switzerland), 2017, 7, 1279.	1.3	16
866	Multi-Objective Planning Techniques in Distribution Networks: A Composite Review. Energies, 2017, 10, 208.	1.6	37
867	Overview of Real-Time Simulation as a Supporting Effort to Smart-Grid Attainment. Energies, 2017, 10, 817.	1.6	34
868	Hydrogen Storage Technologies for Smart Grid Applications. Challenges, 2017, 8, 13.	0.9	13
869	Communication and Security Technologies for Smart Grid. International Journal of Embedded and Real-Time Communication Systems, 2017, 8, 40-65.	0.3	14
870	Cyber Security for Cyber Physical Systems. Studies in Computational Intelligence, 2018, , .	0.7	9
871	Exploiting flexibility in smart grids at scale. Computer Science - Research and Development, 2018, 33, 185-191.	2.7	1
872	Distributed real-time demand response for energy management scheduling in smart grid. International Journal of Electrical Power and Energy Systems, 2018, 99, 233-245.	3.3	64
873	Review: Home energy management system in a Smart Grid scheme to improve reliability of power systems. IOP Conference Series: Earth and Environmental Science, 2018, 105, 012081.	0.2	17
874	Adaptive Learning Hybrid Model for Solar Intensity Forecasting. IEEE Transactions on Industrial Informatics, 2018, 14, 1635-1645.	7.2	59
875	A Learning Automaton-Based Scheme for Scheduling Domestic Shiftable Loads in Smart Grids. IEEE Access, 2018, 6, 5348-5361.	2.6	24
876	Privacy-enhancing aggregation of Internet of Things data via sensors grouping. Sustainable Cities and Society, 2018, 39, 387-400.	5.1	15

#	Article	IF	CITATIONS
877	GridMonitoring: Secured Sovereign Blockchain Based Monitoring on Smart Grid. IEEE Access, 2018, 6, 9917-9925.	2.6	164
878	A multi-objective market-driven framework for power matching in the smart grid. Engineering Applications of Artificial Intelligence, 2018, 70, 199-215.	4.3	14
879	Concept and benchmark results for Big Data energy forecasting based on Apache Spark. Journal of Big Data, 2018, 5, .	6.9	6
880	Pricing Mechanisms for Energy Management in Smart Cities. Computer Communications and Networks, 2018, , 71-103.	0.8	1
881	A review of EVs charging: From the perspective of energy optimization, optimization approaches, and charging techniques. Transportation Research, Part D: Transport and Environment, 2018, 62, 386-417.	3.2	125
882	LabVIEW based Multi-Agent Approach towards Restoration in Smart Grid. Materials Today: Proceedings, 2018, 5, 4684-4691.	0.9	2
883	Optimal Allocation of Flexible AC Transmission System Controllers in Electric Power Networks. INAE Letters, 2018, 3, 41-64.	1.0	7
884	Compression of smart meter big data: A survey. Renewable and Sustainable Energy Reviews, 2018, 91, 59-69.	8.2	109
886	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
887	A review of standards with cybersecurity requirements for smart grid. Computers and Security, 2018, 77, 262-276.	4.0	49
888	Comfort, peak load and energy: Centralised control of water heaters for demand-driven prioritisation. Energy for Sustainable Development, 2018, 44, 78-86.	2.0	23
889	Real-Time Pricing by Data Fusion on Networks. IEEE Transactions on Industrial Informatics, 2018, 14, 1175-1185.	7.2	12
890	Motivational Psychology Driven AC Management Scheme: A Responsive Design Approach. IEEE Transactions on Computational Social Systems, 2018, 5, 289-301.	3.2	27
891	An Artificial Immune Network for Distributed Demand-Side Management in Smart Grids. Information Sciences, 2018, 438, 32-45.	4.0	11
892	Green Energy Scheduling for Demand Side Management in the Smart Grid. IEEE Transactions on Green Communications and Networking, 2018, 2, 596-611.	3.5	102
893	Review of Internet of Things (IoT) in Electric Power and Energy Systems. IEEE Internet of Things Journal, 2018, 5, 847-870.	5.5	460
894	Harnessing business intelligence in smart grids: A case of the electricity market. Computers in Industry, 2018, 96, 40-53.	5.7	14
895	On security challenges and open issues in Internet of Things. Future Generation Computer Systems, 2018, 83, 326-337.	4.9	152

#	Article	IF	CITATIONS
896	Challenges and issues of smart grid implementation: A case of Indian scenario. Journal of Electrical Systems and Information Technology, 2018, 5, 453-467.	1.2	73
897	Location of Things (LoT): A Review and Taxonomy of Sensors Localization in IoT Infrastructure. IEEE Communications Surveys and Tutorials, 2018, 20, 2028-2061.	24.8	153
898	Design and extensive hardware performance analysis of an efficient pairwise key generation scheme for Smart Grid. International Journal of Communication Systems, 2018, 31, e3507.	1.6	19
899	VerSAMI: Versatile and Scalable key management for Smart Grid AMI systems. Computer Networks, 2018, 132, 161-179.	3.2	29
900	Joint Access Spectrum and Backhaul Energy Allocation for Green Cognitive Heterogeneous Networks. IEEE Access, 2018, 6, 24793-24808.	2.6	6
901	Practical closed-loop dynamic pricing in smart grid for supply and demand balancing. Automatica, 2018, 89, 92-102.	3.0	11
902	IoT technologiesfor smart cities. IET Networks, 2018, 7, 1-13.	1.1	152
903	Integrating distribution system operator system landscapes. Computer Science - Research and Development, 2018, 33, 169-175.	2.7	2
904	Energy forecasting tools and services. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2018, 8, e1235.	4.6	26
905	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
906	Non-Gaussian power grid frequency fluctuations characterized by Lévy-stable laws and superstatistics. Nature Energy, 2018, 3, 119-126.	19.8	158
907	A survey on routing protocols supported by the Contiki Internet of things operating system. Future Generation Computer Systems, 2018, 82, 200-219.	4.9	92
908	Development of Smart Grid Testbed with Low-Cost Hardware and Software for Cybersecurity Research and Education. Wireless Personal Communications, 2018, 101, 1357-1377.	1.8	16
909	Linear triangular optimization technique and pricing scheme in residential energy management systems. Results in Physics, 2018, 9, 858-865.	2.0	7
910	An anomaly detection framework for identifying energy theft and defective meters in smart grids. International Journal of Electrical Power and Energy Systems, 2018, 101, 189-203.	3.3	85
911	TPS3: A privacy preserving data collection protocol for smart grids. Information Security Journal, 2018, 27, 102-118.	1.3	5
912	Real time smart grid load management by integrated and secured communication. , 2018, , .		7
913	Online algorithms for storage utilization under real-time pricing in smart grid. International Journal of Electrical Power and Energy Systems, 2018, 101, 50-59.	3.3	9

#	Article	IF	CITATIONS
914	Dynamic Prediction of Powerline Frequency for Wide Area Monitoring and Control. IEEE Transactions on Industrial Informatics, 2018, 14, 2837-2846.	7.2	23
915	Optimal Charging Control of Energy Storage and Electric Vehicle of an Individual in the Internet of Energy With Energy Trading. IEEE Transactions on Industrial Informatics, 2018, 14, 2570-2578.	7.2	99
916	On the Study of Commercial Losses in Brazil: A Binary Black Hole Algorithm for Theft Characterization. IEEE Transactions on Smart Grid, 2018, 9, 676-683.	6.2	65
917	A Lightweight Lattice-Based Homomorphic Privacy-Preserving Data Aggregation Scheme for Smart Grid. IEEE Transactions on Smart Grid, 2018, 9, 396-405.	6.2	141
918	Water-Filling Exact Solutions for Load Balancing of Smart Power Grid Systems. IEEE Transactions on Smart Grid, 2018, 9, 1397-1407.	6.2	25
919	Privacy Protection Scheme Based on Remote Anonymous Attestation for Trusted Smart Meters. IEEE Transactions on Smart Grid, 2018, 9, 3313-3320.	6.2	29
920	A Short-Term and High-Resolution Distribution System Load Forecasting Approach Using Support Vector Regression With Hybrid Parameters Optimization. IEEE Transactions on Smart Grid, 2018, 9, 3341-3350.	6.2	176
921	Multi-Residential Demand Response Scheduling With Multi-Class Appliances in Smart Grid. IEEE Transactions on Smart Grid, 2018, 9, 2518-2528.	6.2	95
922	Big Data Analysis-Based Security Situational Awareness for Smart Grid. IEEE Transactions on Big Data, 2018, 4, 408-417.	4.4	105
923	Single Point Conducted EMI Sensor With Intelligent Inference for Detecting IT Appliances. IEEE Transactions on Smart Grid, 2018, 9, 3716-3726.	6.2	5
924	A Nonparametric Adaptive Sampling Strategy for Online Monitoring of Big Data Streams. Technometrics, 2018, 60, 14-25.	1.3	39
925	A Novel Consensus-Based Distributed Algorithm for Economic Dispatch Based on Local Estimation of Power Mismatch. IEEE Transactions on Smart Grid, 2018, 9, 5930-5942.	6.2	96
926	C2C: Community-Based Cooperative Energy Consumption in Smart Grid. IEEE Transactions on Smart Grid, 2018, 9, 4262-4269.	6.2	15
927	Secure Sum-Rate-Optimal MIMO Multicasting Over Medium-Voltage NB-PLC Networks. IEEE Transactions on Smart Grid, 2018, 9, 2954-2963.	6.2	9
928	Space-Time Approach for Disturbance Detection and Classification. IEEE Transactions on Smart Grid, 2018, 9, 5132-5140.	6.2	16
929	A game-theoretic approach for integrity assurance in resource-bounded systems. International Journal of Information Security, 2018, 17, 221-242.	2.3	3
930	Hybrid DC Circuit Breaker and Fault Current Limiter With Optional Interruption Capability. IEEE Transactions on Power Electronics, 2018, 33, 2330-2338.	5.4	77
931	A survey on electric vehicle transportation within smart grid system. Renewable and Sustainable Energy Reviews, 2018, 81, 1329-1349.	8.2	212

#	Article	IF	CITATIONS
932	PPMA: Privacy-Preserving Multisubset Data Aggregation in Smart Grid. IEEE Transactions on Industrial Informatics, 2018, 14, 462-471.	7.2	151
933	Impact Assessment of Remote Control and Preventive Maintenance on the Failure Rate of a Disconnector Population. IEEE Transactions on Power Delivery, 2018, 33, 1501-1509.	2.9	12
934	Optimization of unit commitment and economic dispatch in microgrids based on genetic algorithm and mixed integer linear programming. Applied Energy, 2018, 210, 944-963.	5.1	286
935	Maximum-Likelihood Frequency and Phasor Estimations for Electric Power Grid Monitoring. IEEE Transactions on Industrial Informatics, 2018, 14, 167-177.	7.2	28
936	An enhanced reverse blocking MMC with DC fault handling capability for HVDC applications. Electric Power Systems Research, 2018, 163, 706-714.	2.1	22
937	IoT Enabled Monitoring of an Optimized Electric Vehicle's Battery System. Mobile Networks and Applications, 2018, 23, 994-1005.	2.2	30
938	DEMANDS: Distributed Energy Management Using Noncooperative Scheduling in Smart Grid. IEEE Systems Journal, 2018, 12, 2645-2653.	2.9	16
939	Small-Scale Building Load Forecast based on Hybrid Forecast Engine. Neural Processing Letters, 2018, 48, 329-351.	2.0	106
940	Scalability for Smart Infrastructure System in Smart Grid: A Survey. Wireless Personal Communications, 2018, 99, 161-184.	1.8	17
942	Compressive Sensing for Power System Data Analysis. , 2018, , 159-178.		2
943	Current challenges and future trends in the field of communication architectures for microgrids. Renewable and Sustainable Energy Reviews, 2018, 82, 3610-3622.	8.2	92
944	Internet of Things Shaping Smart Cities: A Survey. Studies in Big Data, 2018, , 335-358.	0.8	7
945	Overview of Smart Grids Architecture and Design. , 2018, , .		2
946	A Parametrized Model Predictive Control Approach for Microgrids. , 2018, , .		12
947	Smart Home Energy Management with Integration of Renewable Energy. , 2018, , .		4
948	Proposed Defense Topology against Cyber Attacks in Smart Grid. , 2018, , .		4
949	Optimization for Demand Side Management with PAR in Smart Building. , 2018, , .		1
950	An Integration Mechanism between Demand and Supply Side Management of Electricity Markets. Energies, 2018, 11, 3314.	1.6	4

ARTICLE IF CITATIONS # Remote Monitoring and Control of Smart Distribution Grid Using Xbee Communication., 2018,,. 951 5 Optimal Dynamic Pricing for Binary Demands in Smart Grids: A Fair and Privacy-Preserving Strategy., 9 2018,,. 953 LoRa WAN for Wind Turbine Monitoring: Prototype and Practical Deployment., 2018,,. 6 Main Barriers and Solution Proposals for Communication Networks and Information Security in 954 Threshold Based Load Handling Mechanism for Multi-Agent Micro Grid Using Cloud Computing., 2018, 955 2 ,. CI-based Analytics for Photovoltaic Power Predictions and Tie-line Bias Control in Smart Grid., 2018, 958 A Survey on Cloud Computing Applications in Smart Distribution Systems. Electric Power Components 959 1.0 6 and Systems, 2018, 46, 1554-1569. Link Awareness Based Networking Scheme of Power Line Carrier and Wireless Converged 960 4 Communications., 2018,,. Comparative Analysis of Radial and Looped Distribution Network Against Voltage Stability and 961 2 Loadability with Distributed Generation., 2018,,. Trends of Telecommunications Energy Technology to meet Decarbonization Needs., 2018,,. Analysis of Service Load and Security of Power TD-LTE Wireless Private Network., 2018,,. 965 0 Evaluation of Bidirectional DC-DC Converter Topologies for Voltage Regulation in Hybrid Microgrids 966 with Photovoltaic and Battery Technologies. , 2018, , . Impact of the State Estimation in Different Scenarios and Topologies in a Power Distribution System. 967 2 2018,,. A Compendium of Performance Metrics, Pricing Schemes, Optimization Objectives, and Solution 1.6 Methodologies of Demand Side Management for the Smart Grid. Energies, 2018, 11, 2801. 969 Experiencing Low Power Wireless Links in Distribution Smart Grid Environments., 2018, , . 3 Predicting customer behaviors on energy consumption: Why past usage data are not enough?., 2018,,. 970 971 OpenStack-Based Evaluation Framework for Smart Grid Cyber Security., 2018, , . 18 IoT-Based Implementation of Field Area Network Using Smart Grid Communication Infrastructure. 5.5 Smart Cities, 2018, 1, 176-189.

#	ARTICLE	IF	CITATIONS
974	Asymmetric Channel Based Networking Algorithm of Broadband Power Line Communications. , 2018, , .		0
975	A Demand-Side Pricing Strategy Based on Bayesian Game. , 2018, , .		2
976	Two stage market model in microgrid using cooperative game theory. , 2018, , .		3
977	Interactive Demand Response in a Locality of Smart Power System. , 2018, , .		1
978	Remote testing and trial of new energy grid-connected power generation for complex data. IOP Conference Series: Earth and Environmental Science, 2018, 188, 012104.	0.2	0
979	Exploiting Compressive System Identification for Multiple Line Outage Detection in Smart Grids. , 2018, , .		5
980	Scaling: managing a large number of distributed battery energy storage systems. Energy Informatics, 2018, 1, .	1.4	2
981	A Demand Side Management Algorithm with Revision of Energy Usage Blocks for Residential Customers of Dhaka City. , 2018, , .		3
982	Smart Home: Architecture, Technologies and Systems. Procedia Computer Science, 2018, 131, 393-400.	1.2	81
983	An Efficient Secure Scheme for Lossy and Lossless Data Aggregation in Smart Grid. , 2018, , .		Ο
984	Economic Dispatch and Price Discovery for Power Networks with Adjustable Line Reactance. , 2018, , .		0
985	Evaluation of Electrical Characteristics on HVDC Cable According to Electric Field Dependency. , 2018, , .		Ο
986	Experimental Evaluation of an Energy-Delay Aware Web Routing Method. , 2018, , .		1
987	Prosumer Based Demand Response for Profitable Power Exchange Between End-User and Utility. , 2018, , .		2
988	Smart Substation Technologies for Future Development in Recent Era. , 2018, , .		0
989	Joint Scheduling of Electric Vehicle Charging and Energy Storage Operation. , 2018, , .		5
990	Communication Architecture, Technologies, and Requirement for Modern Energy Systems. , 2018, , .		1
991	Developing Self-Similar Hybrid Control Architecture Based on SGAM-Based Methodology for Distributed Microgrids. Designs, 2018, 2, 41.	1.3	5

#	Article	IF	CITATIONS
992	Resource Allocation using Fog-2-Cloud based Environment for Smart Buildings. , 2018, , .		16
993	Routing Architecture of Software Defined Energy Internet. IOP Conference Series: Earth and Environmental Science, 2018, 192, 012067.	0.2	3
995	5G Mobile Services and Scenarios: Challenges and Solutions. Sustainability, 2018, 10, 3626.	1.6	65
996	A Prototype of Wireless Sensor for Data Acquisition in Energy Management Systems. , 2018, , .		3
997	Microgrid Data Aggregation and Wireless Transfer Scheduling in the Presence of Time Sensitive Events. , 2018, , .		6
998	Scheduling Method for Solving Successive Contentions of Heterogeneous Periodic Flows Based on Mathematical Formulation in Multi-Hop WSNs. IEEE Sensors Journal, 2018, 18, 9021-9033.	2.4	8
999	Protection Schemes of Meshed Distribution Networks for Smart Grids and Electric Vehicles. Energies, 2018, 11, 3106.	1.6	15
1000	Review of Application of Optimization Techniques in Smart Grids. , 2018, , .		3
1001	Demand response based dayâ€ahead scheduling and battery sizing in microgrid management in rural areas. IET Renewable Power Generation, 2018, 12, 1651-1658.	1.7	23
1002	Load Management Using Multiple Sequential Load Shaping Techniques. , 2018, , .		4
1003	Calculating Operational Patterns for Electric Vehicle Charging on a Real Distribution Network Based on Renewables' Production. Energies, 2018, 11, 2400.	1.6	21
1004	How Decentral Smart Grid Control Limits Non-Gaussian Power Grid Frequency Fluctuations. , 2018, , .		3
1005	Why Use RF Energy Harvesting in Smart Grids. , 2018, , .		3
1006	Automatic analysis of faulty low voltage network asset using deep neural networks. Journal of Engineering, 2018, 2018, 851-855.	0.6	3
1007	Study of Impact of Cloud Distribution on Multiple Interconnected Solar PV Plants Generation and System Strength. , 2018, , .		2
1009	Capacitance Measurement of Running Hardware Devices and its Application to Malicious Modification Detection. , 2018, , .		3
1010	An Efficient Privacy-Preserving Algorithm Based on Randomized Response in IoT-Based Smart Grid. , 2018, , .		10
1011	Consensus-Based Source-Load-Storage Optimal Dispatch for Active Distributed Network in Dynamic Multi-Agent System. , 2018, , .		3

#	Article	IF	Citations
1012	Smart Distribution Network with Integrationof Stochastic Renewable Energy Sourcesand Plug-in Electric Vehicles:Challenges and Issues. Journal of Green Engineering (discontinued), 2018, 8, 431-474.	0.7	3
1013	Isolating the Impact of Trading on Grid Frequency Fluctuations. , 2018, , .		7
1014	Reducing Generation Cost by Optimum Load Scheduling in Smart Grid Considering System Loss. , 2018, ,		2
1015	Power Device Lifetime Extension of Dc-Dc Interleaved Converters via Power Routing. , 2018, , .		7
1016	Consensus Based Distributed Solution of Economic Dispatch Problem for a Micro-Grid. , 2018, , .		3
1017	Electricity Theft Detection Using Generative Models. , 2018, , .		9
1018	Using DDS Based on Unified Data Model to Improve Interoperability of Smart Grids. , 2018, , .		5
1019	Challenges and novel solution for wideâ€area protection due to renewable sources integration into smart grid: an extensive review. IET Renewable Power Generation, 2018, 12, 1843-1853.	1.7	37
1020	Volunteers in the Smart City: Comparison of Contribution Strategies on Human-Centered Measures. Sensors, 2018, 18, 3707.	2.1	8
1021	Communication System Design for an Advanced Metering Infrastructure. Sensors, 2018, 18, 3734.	2.1	13
1022	Technology Planning for Aligning Emerging Business Models and Regulatory Structures — The Case of Electric Vehicle Charging and the Smart Grid. , 2018, , .		2
1023	Concepts Game Theory Applied in Smart Grid. , 2018, , .		0
1024	Online Coordination of Plugged-In Electric Vehicles and Optimal Rescheduling of Switched Shunt Capacitors in Smart Grid Considering Battery Charger Harmonics. IEEE Power and Energy Technology Systems Journal, 2018, 5, 148-156.	3.5	10
1025	Data-Driven Intelligent Maintenance Planning of Smart Meter Reparations for Large-Scale Smart Electric Power Grid. , 2018, , .		10
1026	Crowdsourcing in Wireless-Powered Task-Oriented Networks: Energy Bank and Incentive Mechanism. IEEE Transactions on Wireless Communications, 2018, 17, 7834-7848.	6.1	4
1027	Comprehensive Performance Evaluation of Electricity Grid Corporations Employing a Novel MCDM Model. Sustainability, 2018, 10, 2130.	1.6	18
1028	Sliding mode observers for a network of thermal and hydroelectric power plants. Automatica, 2018, 98, 51-57.	3.0	19
1029	On the economic benefits of software-defined networking and network slicing for smart grid communications. NETNOMICS: Economic Research and Electronic Networking, 2018, 19, 1-30.	0.9	12

#	Article	IF	CITATIONS
1030	Dynamic Charging Scheduling for EV Parking Lots With Photovoltaic Power System. IEEE Access, 2018, 6, 56995-57005.	2.6	75
1031	Online Coordination of Plug-In Electric Vehicles Considering Grid Congestion and Smart Grid Power Quality. Energies, 2018, 11, 2187.	1.6	20
1032	Enabling hard service guarantees in Software-Defined Smart Grid infrastructures. Computer Networks, 2018, 147, 112-131.	3.2	9
1033	SCRAPPOR: An Efficient Privacy-Preserving Algorithm Base on Sparse Coding for Information-Centric IoT. IEEE Access, 2018, 6, 63143-63154.	2.6	12
1034	Communication System Design for an Advanced Metering Infrastructure. , 2018, , .		4
1035	Opportunities for applications using 5G networks. , 2018, , .		24
1036	Customer Segmentation Based on the Electricity Demand Signature: The Andalusian Case. Energies, 2018, 11, 1788.	1.6	2
1037	Cooperative Small Cell HetNets with Sleeping and Energy Harvesting. , 2018, , .		2
1038	A survey on visual data representation for smart grids control and monitoring. Sustainable Energy, Grids and Networks, 2018, 16, 351-369.	2.3	36
1039	Smart and autonomous communication for hybrid energy management in smart grid. , 2018, , .		0
1040	Privacy-Preserving Consensus-Based Energy Management in Smart Grids. IEEE Transactions on Signal Processing, 2018, 66, 6162-6176.	3.2	61
1041	Separated Double-Layer Magnetic Shielding With Magnetic Sensor For Large Current Measurement. , 2018, , .		5
1042	Performance analysis of Hamming code for WSN-based smart grid applications. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, 125-137.	0.9	3
1043	Applied Internet of Things Architecture to Unlock the Value of Smart Microgrids. IEEE Internet of Things Journal, 2018, 5, 5326-5336.	5.5	13
1044	Curing Braess' paradox by secondary control in power grids. New Journal of Physics, 2018, 20, 083005.	1.2	20
1045	A Blockchain-Based Energy Trading Platform for Smart Homes in a Microgrid. , 2018, , .		72
1046	PMDA: Privacy-Preserving Multi-functional Data Aggregation Without TTP in Smart Grid. , 2018, , .		1
1047	The Supply and Demand Mechanism of Electric Power Retailers and Cellular Networks Based on Matching Theory. Information (Switzerland), 2018, 9, 192.	1.7	2

#	Article	IF	CITATIONS
1048	Solutions for the Transmission and Storage of Electric Power. , 2018, , .		3
1049	Smart Micro-Grid Systems Security and Privacy. Advances in Information Security, 2018, , .	0.9	1
1050	Enhanced Voltage Stability Assessment Index Based Planning Approach for Mesh Distribution Systems. Energies, 2018, 11, 1213.	1.6	9
1051	Attacks on Authentication and Authorization Models in Smart Grid. Advances in Information Security, 2018, , 53-70.	0.9	4
1052	A Novel PMU Fog Based Early Anomaly Detection for an Efficient Wide Area PMU Network. , 2018, , .		12
1053	Privacy-preserving prepayment based power request and trading in smart grid. China Communications, 2018, 15, 14-27.	2.0	10
1054	Reliability Enhancement of Smart Metering System Using Millimeter Wave Technology. IEEE Transactions on Communications, 2018, , 1-1.	4.9	6
1055	Routing for Efficient Alarm Aggregation in Smart Grids: A Genetic Algorithm Approach. Procedia Computer Science, 2018, 130, 164-171.	1.2	4
1056	Deployment of smart grid on narrowband power line communication using OFDMA. , 2018, , .		6
1057	Investigations on recent power-aware opportunistic protocols in WSN. , 2018, , .		2
1058	Implementation of a Smart Grid Communication System Compliant with IEEE 2030.5. , 2018, , .		8
1059	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
1060	Survey of advances and challenges in intelligent autonomy for distributed cyberâ€physical systems. CAAI Transactions on Intelligence Technology, 2018, 3, 75-82.	3.4	46
1061	Integration of consumption forecasting in smart meters and smart home management systems. , 2018, ,		2
1062	Potential analysis of a target area selection for photovoltaic-based distributed generation in cases of an existing city in Korea. Sustainable Cities and Society, 2018, 41, 341-348.	5.1	7
1063	Algoritmos de Correção de Outliers para Curvas de Potência utilizando inteligência artificial. , 2018, ,		0
1065	Evaluating smart grid reliability based on impacts of cyber (control, monitoring and protection) network and its different topologies. International Journal of Systems Assurance Engineering and Management, 2018, 9, 1047-1056.	1.5	3
1066	Security and Privacy in Smart Grid. Springer Briefs in Electrical and Computer Engineering, 2018, , .	0.3	12

		CHATION REPORT	
#	Article	IF	CITATIONS
1067	A Fully Distributed Approach for Economic Dispatch Problem of Smart Grid. Energies, 2018, 11, 199	93. 1.6	17
1068	A Comparative Case Study of Electric Utility Companies' Use of Energy Democracy in Strategic Communication. Frontiers in Communication, 2018, 3, .	0.6	0
1069	Optimization of the Operation of Smart Rural Grids through a Novel Energy Management System. Energies, 2018, 11, 9.	1.6	16
1070	Prospects of Appliance-Level Load Monitoring in Off-the-Shelf Energy Monitors: A Technical Review. Energies, 2018, 11, 189.	1.6	27
1071	Distribution-Level Flexibility Market for Congestion Management. Energies, 2018, 11, 1056.	1.6	48
1072	Outlier Data Treatment Methods Toward Smart Grid Applications. IEEE Access, 2018, 6, 39849-398	59. 2.6	28
1073	Increasing the Reliability of Smart Metering System Using Millimeter Wave Technology. , 2018, , .		0
1074	Taxonomy Analysis of Security Aspects in Cyber Physical Systems Applications. , 2018, , .		9
1075	Complementary module to smart meters based on outliers correction using artificial intelligence. , 2018, , .		2
1076	A comparison of cyber-security oriented testbeds for IoT-based smart grids. , 2018, , .		9
1077	Accounting for the Varying Supply of Solar Energy When Designing Wireless Access Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 275-290.	3.5	25
1078	Narrowband Modeling of Single-Wire Earth Return Distribution Lines. IEEE Transactions on Power Delivery, 2018, 33, 1565-1575.	2.9	11
1079	Efficient design and extensive hardware evaluation of an anonymous data aggregation scheme for smart grid. Security and Privacy, 2018, 1, e24.	1.9	3
1080	Improved hierarchical decision making policy for reliable and green electricity grid. , 2018, , .		1
1081	Mobility-Aware Vehicle-to-Grid Control Algorithm in Microgrids. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 2165-2174.	4.7	55
1082	Smart, Secure, Yet Energy-Efficient, Internet-of-Things Sensors. IEEE Transactions on Multi-Scale Computing Systems, 2018, 4, 914-930.	2.5	40
1083	Detection of Compromised Smart Grid Devices with Machine Learning and Convolution Techniques 2018, , .	i. ,	22
1084	GraFBoost: Using Accelerated Flash Storage for External Graph Analytics. , 2018, , .		50

#	Article	IF	CITATIONS
1085	Impulsive Noise Reduction Techniques in Power Line Communication: A Survey and Recent Trends. , 2018, , .		2
1086	Smart Grid Architecture for Rural Distribution Networks: Application to a Spanish Pilot Network. Energies, 2018, 11, 844.	1.6	20
1087	Industrial power load scheduling considering demand response. Journal of Cleaner Production, 2018, 204, 447-460.	4.6	54
1088	Real-Time Simulation of a Curtailment Service Provider for Demand Response Participation. , 2018, , .		4
1089	Design and implementation of a packeted DC power system using a modified power packet structure. IET Power Electronics, 2018, 11, 1603-1610.	1.5	2
1090	Design and Performance of an Advanced Communication Network for Future Active Distribution Systems. Journal of Energy Engineering - ASCE, 2018, 144, 04018019.	1.0	3
1091	Review of Energy Storage System Technologies in Microgrid Applications: Issues and Challenges. IEEE Access, 2018, 6, 35143-35164.	2.6	434
1092	Stealthy attack detection and solution strategy for consensus-based distributed economic dispatch problem. International Journal of Electrical Power and Energy Systems, 2018, 103, 233-246.	3.3	21
1093	Consumer preference–enabled intelligent energy management for smart cities using game theoretic social tie. International Journal of Distributed Sensor Networks, 2018, 14, 155014771877323.	1.3	4
1094	The Architectural Design of Storage System for Power Data Management. , 2018, , .		1
1095	Middleware Architectures for the Smart Grid: A Survey on the State-of-the-Art, Taxonomy and Main Open Issues. IEEE Communications Surveys and Tutorials, 2018, 20, 2992-3033.	24.8	14
1097	Closed-loop active thermal control via power routing of parallel DC-DC converters. , 2018, , .		7
1098	Standards on cyber security assessment of smart grid. International Journal of Critical Infrastructure Protection, 2018, 22, 70-89.	2.9	56
1099	Analysis of Consensus-Based Economic Dispatch Algorithm Under Time Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, , 1-11.	5.9	22
1100	Smart grid and power quality issues. , 2018, , 195-202.		4
1101	Comparative analysis of wideband communication techniques: Chirp spread spectrum and direct sequence spread spectrum. , 2018, , .		3
1102	Information Security in the Smart Grid: Survey and Challenges. Communications in Computer and Information Science, 2018, , 55-66.	0.4	4
1103	Smart residential energy management system for demand response in buildings with energy storage devices. Frontiers in Energy, 2019, 13, 715-730.	1.2	18

#	Article	IF	CITATIONS
1104	A survey of privacy preserving schemes in IoE enabled Smart Grid Advanced Metering Infrastructure. Cluster Computing, 2019, 22, 43-69.	3.5	56
1105	A novel comprehensive method to enhance stability of multi-VSG grids. International Journal of Electrical Power and Energy Systems, 2019, 104, 502-514.	3.3	42
1106	Geographic HWMP (Geoâ€HWMP) routing method for AMI network with lossless packet forwarding. IET Cyber-Physical Systems: Theory and Applications, 2019, 4, 68-78.	1.9	1
1107	A Learning-Based Method for Generating Synthetic Power Grids. IEEE Systems Journal, 2019, 13, 625-634.	2.9	22
1108	Consensus-Based Distributed Coordination Between Economic Dispatch and Demand Response. IEEE Transactions on Smart Grid, 2019, 10, 3709-3719.	6.2	79
1109	Efficiency Network Construction of Advanced Metering Infrastructure Using Zigbee. IEEE Transactions on Mobile Computing, 2019, 18, 801-813.	3.9	19
1110	Identification of Induction Motors Using Smart Circuit Breakers. IEEE Transactions on Control Systems Technology, 2019, 27, 2638-2646.	3.2	4
1111	Noncooperative Energy Charging and Discharging Game for Smart Grid. EAI/Springer Innovations in Communication and Computing, 2019, , 187-201.	0.9	0
1112	Privacy Preservation in Big Data From the Communication Perspective—A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 753-778.	24.8	57
1113	Evaluating the Potential Impact of Smart Grid Funding on Reducing the Economic Impact of Large Outage Events in the United States from 2003 to 2017. Technology and Economics of Smart Grids and Sustainable Energy, 2019, 4, 1.	1.8	3
1114	A Review of Active Power and Frequency Control in Smart Grid. , 2019, , .		8
1115	Delay Sensitivity-Aware Aggregation of Smart Microgrid Data Over Heterogeneous Networks. , 2019, , .		5
1116	Progressive Average-Based Smart Meter Privacy Enhancement Using Rechargeable Batteries. IEEE Internet of Things Journal, 2019, 6, 9816-9828.	5.5	9
1117	Channel Access Control for Collisions Caused by Hidden Nodes and Phase Synchronization among Periodic Data Flows. , 2019, , .		0
1118	Integrating the industrial consumer into smart grid by load curve forecasting using machine learning. , 2019, , .		0
1119	Renewable Energy Assisted Sustainable and Environment Friendly Energy Cooperation in Cellular Networks. Wireless Personal Communications, 2019, 108, 2585-2607.	1.8	8
1120	Search Engine for the Internet of Things: Lessons From Web Search, Vision, and Opportunities. IEEE Access, 2019, 7, 104673-104691.	2.6	28
1121	An Adaptive Control Defense Scheme of False Data Injection Attacks in Smart Grids. , 2019, , .		5

#	Article	IF	Citations
1123	Comparison Between Seller and Buyer Pricing Systems for Energy Trading in Microgrids. IEEE Access, 2019, 7, 54084-54096.	2.6	2
1124	Defending Against Data Integrity Attacks in Smart Grid: A Deep Reinforcement Learning-Based Approach. IEEE Access, 2019, 7, 110835-110845.	2.6	60
1125	Study of Energy Storage System: Concept of Using ESS in EV Charging Stations in MEA. , 2019, , .		6
1126	Value and Specifics of Functioning of Wind Energy Converters in Smart Electric Power Systems. , 2019, , .		0
1127	Power Pylon Reconstruction Based on Abstract Template Structures Using Airborne LiDAR Data. Remote Sensing, 2019, 11, 1579.	1.8	15
1128	Computation Offloading Toward Edge Computing. Proceedings of the IEEE, 2019, 107, 1584-1607.	16.4	268
1129	A genetic algorithm based dynamic pricing for improving bi-directional interactions with reduced power imbalance. Energy and Buildings, 2019, 199, 275-286.	3.1	20
1130	Simplified Algorithm for Dynamic Demand Response in Smart Homes Under Smart Grid Environment. , 2019, , .		2
1131	Three Winding Transformers for Smart Power Substations. , 2019, , .		3
1132	A convex optimization based decentralized real-time energy management model with the optimal integration of microgrid in smart grid. Journal of Cleaner Production, 2019, 236, 117688.	4.6	35
1133	Secrecy analysis of wireless sensor network in smart grid with destination assisted jamming. IET Communications, 2019, 13, 1748-1752.	1.5	1
1134	Practical Machine-Type Communication for Energy Internet of Things: An Introduction. IEEE Communications Standards Magazine, 2019, 3, 48-59.	3.6	3
1135	Mechanism and Application of Arrester Block Voltage Division to Lightning Transient Voltage Monitoring in Substation Transformers. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 689-696.	1.4	15
1136	Load Transfer Device for Solving a Three-Phase Unbalance Problem Under a Low-Voltage Distribution Network. Energies, 2019, 12, 2842.	1.6	21
1137	Secure Internet of Things (IoT)-Based Smart-World Critical Infrastructures: Survey, Case Study and Research Opportunities. IEEE Access, 2019, 7, 79523-79544.	2.6	84
1138	Bidding-Based Dynamic Power Pricing Scheme in Smart Grids. , 2019, , .		2
1140	A Survey on Communication Technologies in Smart Grid. , 2019, , .		27
1141	Smart grid network architectures. , 2019, , 97-118.		0

#	ARTICLE Ethernet-Based Fault Diagnosis and Control in Smart Grid: A Stochastic Analysis via Markovian Model	IF 1.2	Citations 8
	Checking. Journal of Electrical Engineering and Technology, 2019, 14, 2289-2300.	1,2	
1143	Power System Protection Evolutions from Traditional to Smart Grid Protection. , 2019, , .		4
1144	Optical-Clock-Based Time Scale. Physical Review Applied, 2019, 12, .	1.5	28
1145	A Survey on Information and Communications Technology Infrastructure for Smart Grids. , 2019, , .		Ο
1146	Impact of harmonic pollution in junctions between DC cables with different insulating technologies: electrical and thermal analyses. , 2019, , .		0
1147	Cognitive Risk Control for Mitigating Cyber-Attack in Smart Grid. IEEE Access, 2019, 7, 125806-125826.	2.6	24
1148	Research Development on Sustainable Urban Infrastructure From 1991 to 2017: A Bibliometric Analysis to Inform Future Innovations. Earth's Future, 2019, 7, 718-733.	2.4	36
1149	Power sharing between parallel inverters by using droop control with a secondary control loop. , 2019, , .		8
1150	A Differential Game Model of Energy Demand Side Management for Micro Grid. , 2019, , .		0
1151	An energy management platform for micro-grid systems using Internet of Things and Big-data technologies. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 904-917.	0.7	24
1152	Evaluating link significance in maintaining network connectivity based on link prediction. Chaos, 2019, 29, 083120.	1.0	2
1153	Updating the Smart Grid Workforce Education and Training Process: An Interdisciplinary Approach. , 2019, , .		1
1154	A Dynamic Game Model for Resource Allocation in Fog Computing for Ubiquitous Smart Grid. , 2019, , .		8
1155	Comparative Study on Prediction Algorithms for Power Grid System Access Failure Times. IOP Conference Series: Earth and Environmental Science, 2019, 252, 032183.	0.2	1
1156	High-Performance Robust Controller Design of Plug-In Hybrid Electric Vehicle for Frequency Regulation of Smart Grid Using Linear Matrix Inequality Approach. IEEE Access, 2019, 7, 116911-116924.	2.6	21
1157	Energy Efficient Modes of Distribution Power Supply Systems with Different Vector Group of Transformer. , 2019, , .		2
1158	Decision Trees Applied to Fault Locations in Distribution Systems with Smart Meters. , 2019, , .		1
1159	Node Reliability Based Multi-Path Routing Algorithm of High-Speed Power Line Communication Network. , 2019, , .		2

#	Article	IF	Citations
1160	Smart Grids and Software Testing Process Models. , 2019, , .		2
1161	Analysis and design of a self-consumption community: a game-theoretic approach. , 2019, , .		0
1162	Smart Household Electricity Usage Optimization Using MPC and MILP. , 2019, , .		4
1163	Trust in Cyber Security Recommendations. , 2019, , .		1
1164	Fuzzy based Controller for Bi-Directional Power Flow Regulation for Integration of Electric Vehicles to PV based DC Micro-Grid. , 2019, , .		1
1165	Optimization methods for power scheduling problems in smart home: Survey. Renewable and Sustainable Energy Reviews, 2019, 115, 109362.	8.2	96
1166	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
1167	Communication in Smart Grids: A Comprehensive Review on the Existing and Future Communication and Information Infrastructures. IEEE Systems Journal, 2019, 13, 4001-4014.	2.9	80
1168	Planning of HMG with high penetration of renewable energy sources. IET Renewable Power Generation, 2019, 13, 1724-1730.	1.7	12
1169	Experimental investigation and optimal power flow modelling of the first renewable microgrid in Chocó, Colombia. Energy Procedia, 2019, 157, 953-965.	1.8	1
1170	Smart Energy Evolution Road-map Based On the Correlation Between Energy and Information. Energy Procedia, 2019, 158, 3082-3087.	1.8	2
1171	A shrinking-horizon, game-theoretic algorithm for distributed energy generation and storage in the smart grid with wind forecasting. IFAC-PapersOnLine, 2019, 52, 126-131.	0.5	14
1172	Design of a microgrid local energy market on a blockchain-based information system. IT - Information Technology, 2019, 61, 87-99.	0.6	17
1173	Multi-Objective and Multi-Criteria Optimization of Microgrids for Nearly Zero-Energy Buildings. , 2019,		8
1174	Lightweight privacy-preserving power injection and communication over vehicular networks and 5G smart grid slice with provable security. Internet of Things (Netherlands), 2019, 8, 100116.	4.9	29
1175	Software defined network communications: The likely standard for smart grids. Electricity Journal, 2019, 32, 106639.	1.3	4
1176	Cloud computing in the smart grid context: an application to aid fault location in distribution systems concerning the multiple estimation problem. IET Generation, Transmission and Distribution, 2019, 13, 4222-4232.	1.4	8
1177	Internet of things for smart grid applications. , 2019, , 249-307.		5

#	Article	IF	CITATIONS
1178	Reinforcement Learning-Based Microgrid Energy Trading With a Reduced Power Plant Schedule. IEEE Internet of Things Journal, 2019, 6, 10728-10737.	5.5	74
1179	A big data anonymous batch verification scheme with conditional privacy preservation for power injection over vehicular network and 5G smart grid slice. Sustainable Energy, Grids and Networks, 2019, 20, 100260.	2.3	11
1180	Energy-Efficient Multi-Disjoint Path Opportunistic Node Connection Routing Protocol in Wireless Sensor Networks for Smart Grids. Sensors, 2019, 19, 3789.	2.1	7
1181	Energy meters evolution in smart grids: A review. Journal of Cleaner Production, 2019, 217, 702-715.	4.6	200
1182	Intelligent Energy Management Algorithms for EV-charging Scheduling with Consideration of Multiple EV Charging Modes. Energies, 2019, 12, 265.	1.6	36
1183	Effect of smart meter data collection frequency in an early detection of shorter-duration voltage anomalies in smart grids. International Journal of Electrical Power and Energy Systems, 2019, 109, 1-8.	3.3	33
1184	It Is About What They Could Do with the Data. ACM Transactions on Computer-Human Interaction, 2019, 26, 1-44.	4.6	32
1185	Self-emitting blue and red EuOX (X = F, Cl, Br, I) materials: band structure, charge transfer energy, and emission energy. Physical Chemistry Chemical Physics, 2019, 21, 1737-1749.	1.3	22
1186	Cyber and physical interactions to combat failure propagation in smart grid: Characterization, analysis and evaluation. Computer Networks, 2019, 158, 184-192.	3.2	2
1187	Two-Stage Energy Management of Multi-Smart Homes With Distributed Generation and Storage. Electronics (Switzerland), 2019, 8, 512.	1.8	6
1188	AC Microgrid Control and Management Strategies: Evaluation and Review. IEEE Power Electronics Magazine, 2019, 6, 18-31.	0.6	101
1189	Real-Time Energy Management of a Microgrid Using Deep Reinforcement Learning. Energies, 2019, 12, 2291.	1.6	150
1190	Cognitive Dynamic System for Control and Cyber-Attack Detection in Smart Grid. IEEE Access, 2019, 7, 78320-78335.	2.6	20
1192	Basic Principles, Definitions and Unit Measures. , 2019, , 7-16.		0
1193	Introduction to Electricity: Brief History of the Power Industry. , 2019, , 17-32.		0
1194	Electricity Systems and the Electricity Supply Chain. , 2019, , 35-49.		0
1195	The Four Market Designs of the Electricity System. , 2019, , 50-58.		0
1196	Energy Products and the Time Dimension of Electricity Markets. , 2019, , 59-71.		0

		CITATION REPORT	
# 1197	ARTICLE Some Principles of Electricity Sector Regulation. , 2019, , 72-80.	IF	Citations
1198	Load and Power Generation. , 2019, , 83-93.		0
1199	The Centralized Solution of Optimal Dispatching. , 2019, , 94-105.		0
1200	Welfare Maximization with Time-Varying Load. , 2019, , 106-120.		0
1201	The Market Solution to Optimal Dispatching. , 2019, , 121-135.		0
1202	Balancing Markets. , 2019, , 136-154.		0
1203	Wholesale Market Competition. , 2019, , 157-170.		0
1204	Market Power in Electricity Markets. , 2019, , 171-182.		0
1205	Electricity Transmission: Basic Principles. , 2019, , 185-194.		0
1206	Meshed Networks and Congestion. , 2019, , 195-203.		0
1207	Transmission Pricing in Practice. , 2019, , 204-214.		0
1208	From Nodal Prices to Transmission Capacity Expansion. , 2019, , 215-225.		0
1209	Transmission Rights and Price Risk Hedging. , 2019, , 226-234.		0
1210	Retail Competition: Supplying Electricity to Final Consumers. , 2019, , 237-245.		0
1211	Assessing the Benefits of Retail Competition. , 2019, , 246-258.		0
1212	Optimal Investment in Power Generation. , 2019, , 261-271.		0
1213	Energy-Only Markets vs. Markets with Capacity Remuneration Mechanisms. , 2019, , 2	:72-282.	0

1214 Analysis of Capacity Remuneration Mechanisms. , 2019, , 283-298.

#	Article	IF	CITATIONS
1215	Global Warming and the Electricity Markets. , 2019, , 301-310.		0
1216	Renewable Energy Sources and Electricity Production. , 2019, , 311-318.		0
1217	The Integration of Renewable Energy Sources in the Electricity System. , 2019, , 319-325.		0
1218	Smart Grids. , 2019, , 326-335.		0
1220	Real-time pricing method for smart grids based on complementarity problem. Journal of Modern Power Systems and Clean Energy, 2019, 7, 1280-1293.	3.3	18
1221	Algebraic topological characterizations of structural balance in signed graphs. Automatica, 2019, 107, 61-67.	3.0	6
1222	High-Reliability Multi-Agent Q-Learning-Based Scheduling for D2D Microgrid Communications. IEEE Access, 2019, 7, 74412-74421.	2.6	10
1223	Compressive System Identification for Multiple Line Outage Detection in Smart Grids. IEEE Transactions on Industry Applications, 2019, 55, 4462-4473.	3.3	17
1224	Future Generation 5G Wireless Networks for Smart Grid: A Comprehensive Review. Energies, 2019, 12, 2140.	1.6	108
1225	Distributed Absorption and Half-Search Approach for Economic Dispatch Problem in Smart Grids. Energies, 2019, 12, 1527.	1.6	2
1226	Novel Approach of Key Predistribution for Grid Based Sensor Networks. Wireless Personal Communications, 2019, 108, 939-955.	1.8	4
1227	A wireless coded predictive direct power control for renewable energy sources in smart grid environment. International Journal of Electrical Power and Energy Systems, 2019, 112, 319-325.	3.3	14
1228	When Energy Trading Meets Blockchain in Electrical Power System: The State of the Art. Applied Sciences (Switzerland), 2019, 9, 1561.	1.3	140
1229	Simulation of Achievable Data Rates of Broadband Power Line Communication for Smart Metering. Applied Sciences (Switzerland), 2019, 9, 1527.	1.3	16
1230	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
1231	Fixed-Symbol Aided Random Access Scheme for Machine-to-Machine Communications. IEEE Access, 2019, 7, 52913-52928.	2.6	3
1232	What is smart? A real estate introduction to cities and buildings in the digital era. Journal of General Management, 2019, 44, 128-137.	0.8	13
1233	BITFCM-OFDM scheme for power-line communication systems. AEU - International Journal of Electronics and Communications, 2019, 105, 116-123.	1.7	3

		CITATION REPORT		
#	Article		IF	CITATIONS
1234	Extreme Events: Mechanisms and Prediction. Applied Mechanics Reviews, 2019, 71, .		4.5	67
1235	Internet of Things-Aided Smart Grid: Technologies, Architectures, Applications, Prototy Research Directions. IEEE Access, 2019, 7, 62962-63003.	pes, and Future	2.6	316
1236	Study on the combined operation of a hydro-thermal-wind hybrid power system based power compensating principles. Energy Conversion and Management, 2019, 194, 94-1		4.4	63
1237	Differential privacy for renewable energy resources based smart metering. Journal of Pa Distributed Computing, 2019, 131, 69-80.	arallel and	2.7	46
1238	Concepts and practices for transforming infrastructure from rigid to adaptable. Sustai Resilient Infrastructure, 2021, 6, 213-234.	nable and	1.7	38
1239	Dependability Modeling and Analysis of 5G Based Monitoring System in Distribution G	rids. , 2019, , .		1
1240	The Multidimensional Venture of developing a Smart City. , 2019, , .			2
1241	Energy Storage in Smart Grids. , 2019, , 67-87.			0
1242	Smart Meters and Advanced Metering Infrastructure. , 2019, , 89-114.			12
1243	A Survey of Recent Developments and Requirements for Modern Power System Contro 289-316.	bl. , 2019, ,		2
1244	ICT Requirements and Recent Developments. , 2019, , 343-369.			0
1245	Data Security in the Smart Grid Environment. , 2019, , 371-395.			12
1246	Digital technologies in airport ground operations. NETNOMICS: Economic Research an Networking, 2019, 20, 1-30.	d Electronic	0.9	23
1247	Privacy-Preserving Average Consensus via State Decomposition. IEEE Transactions on Control, 2019, 64, 4711-4716.	Automatic	3.6	111
1248	A review and vision on authentication and privacy preservation schemes in smart grid Security and Privacy, 2019, 2, e62.	network.	1.9	23
1249	Total Variation Based Joint Detection and State Estimation for Wireless Communicatic Grids. IEEE Access, 2019, 7, 31598-31614.	n in Smart	2.6	1
1250	A Low Power WSNs Attack Detection and Isolation Mechanism for Critical Smart Grid IEEE Sensors Journal, 2019, 19, 5315-5324.	Applications.	2.4	28
1251	Ontology-Based Context Agent for Building Energy Management Systems. Advances in Systems and Computing, 2019, , 131-140.	n Intelligent	0.5	1

#	Article	IF	CITATIONS
1252	A novel non-invasion magnetic sensor array based measurement method of large current. Measurement: Journal of the International Measurement Confederation, 2019, 139, 78-84.	2.5	15
1253	Development of cloudâ€based power system operational data management system. IET Generation, Transmission and Distribution, 2019, 13, 644-651.	1.4	4
1254	The Relationship between Economic Complexity, Energy Consumption Structure and Greenhouse Gas Emission: Heterogeneous Panel Evidence from the EU Countries. Sustainability, 2019, 11, 497.	1.6	224
1255	Quadrature Current Compensation in Non-Sinusoidal Circuits Using Geometric Algebra and Evolutionary Algorithms. Energies, 2019, 12, 692.	1.6	12
1256	Software Defined Networks-Based Smart Grid Communication: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 2637-2670.	24.8	141
1257	Conceptual framework for blockchain-based metering systems. Multiagent and Grid Systems, 2019, 15, 77-97.	0.5	13
1258	Key Management Systems for Smart Grid Advanced Metering Infrastructure: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 2831-2848.	24.8	171
1259	Exploring Apache Spark Data APIs for Water Big Data Management. Advances in Intelligent Systems and Computing, 2019, , 105-117.	0.5	0
1260	Fog Computing for the Internet of Things. ACM Transactions on Internet Technology, 2019, 19, 1-41.	3.0	220
1261	Intelligent Resource Allocation in Residential Buildings Using Consumer to Fog to Cloud Based Framework. Energies, 2019, 12, 815.	1.6	16
1262	Energy Management in an Islanded Microgrid: A Consensus Theory Approach. , 2019, , .		4
1263	The Development of IoT Within Energy Infrastructure. , 2019, , 27-90.		5
1264	Photovoltaic Applications for Lighting Load Energy Saving: Case Studies, Educational Building. , 2019, ,		16
1265	Impact of Prior Knowledge and Data Correlation on Privacy Leakage: A Unified Analysis. IEEE Transactions on Information Forensics and Security, 2019, 14, 2342-2357.	4.5	14
1266	An Open Hardware Design for Internet of Things Power Quality and Energy Saving Solutions. Sensors, 2019, 19, 627.	2.1	42
1267	Standardized Management Mechanism for Power Grid Emergencies Based on Typical Case Base Updating Strategy. , 2019, , .		1
1268	Investigating the impact of distributed energy resources on market power of strategic utility corporation. IET Energy Systems Integration, 2019, 1, 97-103.	1.1	6
1269	Review on Smart Energy Meter for low cost design. , 2019, , .		1

#	Article	IF	Citations
1270	Edge Computing Based Bad Metering Data Detection. , 2019, , .		3
1271	Stochastic demand side management in smart grid system. International Journal of Networking and Virtual Organisations, 2019, 20, 319.	0.2	0
1272	Design considerations and construction of a solar pond for efficient energy harvesting using a fuzzy controlled TEG. International Journal of Computer Aided Engineering and Technology, 2019, 11, 430.	0.1	0
1273	A multi-agent reinforcement learning algorithm with fuzzy approximation for Distributed Stochastic Unit Commitment. Journal of Intelligent and Fuzzy Systems, 2019, 37, 6613-6628.	0.8	1
1274	Control Singaling Scheme of Upstream Data Transmission for Power Internet of Things. , 2019, , .		0
1275	Energy Optimization for a Smart Home with Renewable Generation. , 2019, , .		2
1276	Combined-LSTM based User Electricity Consumption Prediction in a Smart Grid System. , 2019, , .		2
1277	Performance Enhancement of Cognitive Radio Based Smart Grid. , 2019, , .		0
1278	Data Generation Method Based on Correlation Between Sensors in Photovoltaic Arrays. , 2019, , .		0
1279	Online Control of Islands Microgrids Connected by Electrical Submarine Cable. , 2019, , .		0
1280	Sub-Transmission Network Expansion Planning Considering Regional Energy Systems: A Bi-Level Approach. Electronics (Switzerland), 2019, 8, 1416.	1.8	6
1281	Power Scheduling In a Smart Home Using Earliglow Optimization. , 2019, , .		1
1282	Development of a phasor measurement unit prototype applied to Brazilian and Chilean electrical systems. , 2019, , .		0
1283	The Role of Artificial Intelligence in Current and Future Dense Wireless Networks. , 2019, , .		0
1284	Real-time Cost Optimisation for Power Management in Microgrids Using Multi-Agent Control. , 2019, , .		3
1285	Analysis of the Value of Distributed Energy Resources through the Regional Electricity Market. , 2019, , .		0
1286	Application of Spritz Encryption in Smart Meters to Protect Consumer Data. Journal of Computer Networks and Communications, 2019, 2019, 1-10.	1.2	6
1287	Smart Household Demand Response Scheduling with Renewable Energy Resources. , 2019, , .		Ο

	CHATON R	LPORT	
#	Article	IF	CITATIONS
1288	Electric Vehicles: A Data Science Perspective Review. Electronics (Switzerland), 2019, 8, 1190.	1.8	24
1289	Energy Cluster Management Strategy of a Stand-alone LVDC system For Supplying Unbalanced AC Loads. , 2019, , .		0
1290	loT Based Smart Meter. , 2019, , .		6
1291	Design of a MATLAB GUI for Day Ahead Forecasting of PV Panel Power. , 2019, , .		1
1292	Fog Computing for Smart Grid Development and Implementation. , 2019, , .		3
1293	Industrial load forecasting using machine learning in the context of smart grid. , 2019, , .		11
1294	NB-PLC Successful Transmission Probability Analysis. , 2019, , .		8
1295	Secure Edge Electricity Data Aggregation Scheme for Low Voltage Transformer Areas. Journal of Physics: Conference Series, 2019, 1325, 012226.	0.3	0
1296	Model For Evaluating the Reliability of Cyber Component in Power Distribution Systems. , 2019, , .		0
1297	An Evolutionary Computation Approach for Smart Grid Cascading Failure Vulnerability Analysis. , 2019, , .		7
1298	ACO-based Distributed Energy Routing Protocol In Smart Grid. , 2019, , .		5
1299	Optimal Scheduling of Dynamic Energy Demand in Smart Grid Using Time-slotting Linear Programming. , 2019, , .		1
1300	Smart Grid Energy Management Using RNN-LSTM: A Deep Learning-Based Approach. , 2019, , .		14
1301	Energy Optimization for a Smart Home with Renewable Generation. , 2019, , .		0
1302	Mitigating the Impact of Electric Vehicles Integration to DC Microgrids through Using SMES. , 2019, , .		2
1303	Optimal Bidding Strategy for Maximizing the Profit of Aggregator Considering Energy Storage and Demand Response. , 2019, , .		0
1304	Advance Green Energy Scheduling In Smart Grid Using IOT. , 2019, , .		2
1305	Power Loss Minimization in Microgrids Using Bayesian Reinforcement Learning with Coalition Formation. , 2019, , .		9

	Сітат	rion Report	
#	Article	IF	Citations
1306	Leveraging Mobile Edge Computing on Smart Grids Using LTE Cellular Networks. , 2019, , .		10
1307	Overview of Power System Flexibility Options with Increasing Variable Renewable Generations. , 2019, , .		7
1308	Balancing Smart Grid's Performance Enhancement and Resilience to Cyber Threat. , 2019, , .		2
1309	Transformation of Smart Grid using Machine Learning. , 2019, , .		23
1310	Considerations on Communication Infrastructures for Cooperative Operation of Smart Inverters. , 2019, , .		4
1311	Identifying the Potential for Peer-to-Peer Trading of Rooftop Solar Power for Indian Scenario. , 2019, ,		5
1312	TOU ana APP Driven Power Scheduling In Smart Homes. , 2019, , .		2
1313	A Survey on Smart Grids: concerns, advances, and trends. , 2019, , .		3
1314	Impact of communication systems on grid node voltage and operation of a vehicleâ€ŧoâ€grid controller in a smartâ€grid scenario. IET Power Electronics, 2019, 12, 3499-3509.	1.5	6
1315	An Infrastructure of Dynamic Tariff Management and Demand Response applied to Smart Grids using Renewable Energy Resources and Energy Storage Systems. , 2019, , .		2
1316	Recharging electric vehicles: Impact on the load curve of a low-voltage distribution network. , 2019, , .		0
1317	Wind Power Persistence Characterized by Superstatistics. Scientific Reports, 2019, 9, 19971.	1.6	37
1318	A review of various modern strategies for mitigation of cyber attacks in smart grids. , 2019, , .		1
1319	A Clustering Method for Rain-Cell Detection in Weather Nowcasting Approaches. , 2019, , .		1
1320	Optimizing Consumer-Side Electricity Usage in a Smart Household. , 2019, , .		2
1321	A Sophisticated Secured Smart Metering System. , 2019, , .		2
1322	Compensation for Voltage Disruption in a Smart Grid during Cyber–Attack. , 2019, , .		0
1323	Research on Power Data Management Based on Sovereign Blockchain Technology. Journal of Physics: Conference Series, 2019, 1346, 012010.	0.3	2

#	Article	IF	CITATIONS
1324	Optimal Placement and Sizing of Distributed Generator in Meshed Distribution System. , 2019, , .		2
1325	Stable Operation of a Microgrid by Distributed Generation of Renewable Energy Sources. , 2019, , .		0
1326	A Survey on Power Grid Faults and Their Origins: A Contribution to Improving Power Grid Resilience. Energies, 2019, 12, 4667.	1.6	33
1327	Simulation concept of a virtual power plant based on real-time data acquisition. , 2019, , .		1
1328	Optimal Scheduling of Residential Home Appliances by Considering Energy Storage and Stochastically Modelled Photovoltaics in a Grid Exchange Environment Using Hybrid Grey Wolf Genetic Algorithm Optimizer. Applied Sciences (Switzerland), 2019, 9, 5226.	1.3	41
1329	LoRa-Based Precision Wireless Structural Health Monitoring System for Bolted Joints in a Smart City Environment. IEEE Access, 2019, 7, 179235-179251.	2.6	34
1330	Privacy in the Future of Integrated Health Care Services $\hat{a} \in$ " Are Privacy Languages the Key?. , 2019, , .		9
1331	Vehicle-to-Grid Aggregator to Support Power Grid and Reduce Electric Vehicle Charging Cost. IEEE Access, 2019, 7, 178528-178538.	2.6	153
1332	Impacts of Inverter Control Modes of Distributed Photovoltaic Sources. , 2019, , .		3
1333	Geometric Algebra in Nonsinusoidal Power Systems: A Case of Study for Passive Compensation. Symmetry, 2019, 11, 1287.	1.1	4
1334	Anomaly Detection for Power Grid Based on Time Series Model. , 2019, , .		11
1335	Energy Management System for Efficiency Increase in Cruise Ship Microgrids. , 2019, , .		5
1336	An Intelligent Algorithm for Joint Routing and Link Scheduling in AMI with a Wireless Mesh Network. Studies in Computational Intelligence, 2019, , 311-321.	0.7	0
1337	Introduction to Smart Grid Architecture. Engergy Systems in Electrical Engineering, 2019, , 3-45.	0.5	17
1338	5G Communication Networks and Modulation Schemes for Next-Generation Smart Grids. Engergy Systems in Electrical Engineering, 2019, , 361-399.	0.5	1
1339	Robust Advanced Metering Infrastructures and Networks for Smart Grid. Engergy Systems in Electrical Engineering, 2019, , 551-605.	0.5	3
1340	Feasibility of Fog Computing in Smart Grid Architectures. Lecture Notes in Networks and Systems, 2019, , 999-1010.	0.5	9
1341	A Cloud-Fog Based Smart Grid Model Using Max-Min Scheduling Algorithm for Efficient Resource Allocation. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 273-285.	0.5	4

#	Article	IF	CITATIONS
1342	Online power quality disturbance detection by support vector machine in smart meter. Journal of Modern Power Systems and Clean Energy, 2019, 7, 1328-1339.	3.3	41
1343	Integration of Cloud-Fog Based Platform for Load Balancing Using Hybrid Genetic Algorithm Using Bin Packing Technique. Lecture Notes on Data Engineering and Communications Technologies, 2019, , 279-292.	0.5	5
1344	Designing context-aware systems: A method for understanding and analysing context in practice. Journal of Logical and Algebraic Methods in Programming, 2019, 103, 79-104.	0.4	33
1345	Security Challenges in IoT Cyber World. Lecture Notes in Intelligent Transportation and Infrastructure, 2019, , 171-191.	0.3	18
1346	Differentially Private Maximum Consensus: Design, Analysis and Impossibility Result. IEEE Transactions on Network Science and Engineering, 2019, 6, 928-939.	4.1	16
1347	Online Energy Management in Microgids Considering Reactive Power. IEEE Internet of Things Journal, 2019, 6, 2895-2906.	5.5	8
1348	A Novel Energy Model for Renewable Energy-Enabled Cellular Networks Providing Ancillary Services to the Smart Grid. IEEE Transactions on Green Communications and Networking, 2019, 3, 381-396.	3.5	35
1349	An Interference-Rejection Strategy for Measurement of Small Current Under Strong Interference With Magnetic Sensor Array. IEEE Sensors Journal, 2019, 19, 692-700.	2.4	20
1350	ICT technologies standards and protocols for active distribution network. , 2019, , 205-230.		17
1351	Privacy of energy consumption data of a household in a smart grid. , 2019, , 163-177.		9
1352	Towards Cognitive Cities in the Energy Domain. Studies in Systems, Decision and Control, 2019, , 155-183.	0.8	3
1353	Genetic algorithm-based optimisation of load-balanced routing for AMI with wireless mesh networks. Applied Soft Computing Journal, 2019, 74, 122-132.	4.1	9
1354	Smart Metering Technology. , 2019, , 97-137.		5
1355	A review on energy efficiency and demand response with focus on small and medium data centers. Energy Efficiency, 2019, 12, 1399-1428.	1.3	48
1356	Interference identification in smart grid communications. World Wide Web, 2019, 22, 2177-2207.	2.7	5
1358	Residential electricity demand in Taiwan: Consumption behavior and rebound effect. Energy Policy, 2019, 124, 36-45.	4.2	67
1359	Balancing Security and Efficiency for Smart Metering Against Misbehaving Collectors. IEEE Transactions on Smart Grid, 2019, 10, 1225-1236.	6.2	43
1360	Simulation and real time analysis of network protection tripping strategy based on behavior trees. Cluster Computing, 2019, 22, 5269-5278.	3.5	3

#	Article	IF	CITATIONS
1361	Malicious data deception attacks against power systems: A new case and its detection method. Transactions of the Institute of Measurement and Control, 2019, 41, 1590-1599.	1.1	31
1362	False Data Injection Attacks Against State Estimation in Power Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 2871-2881.	6.2	145
1363	Retail Market Equilibrium in Multicarrier Energy Systems: A Game Theoretical Approach. IEEE Systems Journal, 2019, 13, 738-747.	2.9	34
1364	Big Data Acquisition Under Failures in FiWi Enhanced Smart Grid. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 420-432.	3.2	25
1365	Achieving Privacy-Friendly Storage and Secure Statistics for Smart Meter Data on Outsourced Clouds. IEEE Transactions on Cloud Computing, 2019, 7, 638-649.	3.1	23
1366	Coordinating Workload Scheduling of Geo-Distributed Data Centers and Electricity Generation of Smart Grid. IEEE Transactions on Services Computing, 2020, 13, 1007-1020.	3.2	12
1367	Optimal Dynamic Pricing for Trading-Off User Utility and Operator Profit in Smart Grid. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 455-467.	5.9	32
1368	Review on smart grid control and reliability in presence of renewable energies: Challenges and prospects. Mathematics and Computers in Simulation, 2020, 167, 19-31.	2.4	122
1369	Game theoretic-based optimal load frequency control of power systems with network-induced delays. Transactions of the Institute of Measurement and Control, 2020, 42, 22-30.	1.1	2
1370	A novel free space communication system using nonlinear InGaAsP microsystem resonators for enabling power-control toward smart cities. Wireless Networks, 2020, 26, 2317-2328.	2.0	30
1371	IoT Security. EAI/Springer Innovations in Communication and Computing, 2020, , 33-83.	0.9	8
1372	Integrating redundancy, diversity, and hardening to improve security of industrial internet of things. Cyber-Physical Systems, 2020, 6, 1-32.	1.6	6
1373	Suitable business models for innovation in different levels of the smart grid energy industry. Environmental Progress and Sustainable Energy, 2020, 39, 13275.	1.3	4
1374	A trilevel model for best response in energy demand-side management. European Journal of Operational Research, 2020, 281, 299-315.	3.5	43
1375	An integrated trust establishment model for the internet of agents. Knowledge and Information Systems, 2020, 62, 79-105.	2.1	5
1376	Analysis of non-active power in non-sinusoidal circuits using geometric algebra. International Journal of Electrical Power and Energy Systems, 2020, 116, 105541.	3.3	7
1377	Novel Temporal Perturbation-Based Privacy-Preserving Mechanism for Smart Meters. Mobile Networks and Applications, 2020, 25, 1548-1562.	2.2	1
1378	Real-time pricing for smart grid with distributed energy and storage: A noncooperative game method considering spatially and temporally coupled constraints. International Journal of Electrical Power and Energy Systems, 2020, 115, 105487.	3.3	36

#	Article	IF	CITATIONS
1379	Probabilistic energy forecasting using the nearest neighbors quantile filter and quantile regression. International Journal of Forecasting, 2020, 36, 310-323.	3.9	16
1380	Differential Privacy Techniques for Cyber Physical Systems: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 746-789.	24.8	335
1381	Hierarchical control technique-based harmony search optimization algorithm versus model predictive control for autonomous smart microgrids. International Journal of Electrical Power and Energy Systems, 2020, 115, 105511.	3.3	42
1382	A Self-Governed Online Energy Management and Trading for Smart Micro/Nano-Grids. IEEE Transactions on Industrial Electronics, 2020, 67, 7484-7498.	5.2	22
1383	A Fault-Tolerant and Flexible Privacy-Preserving Multisubset Data Aggregation in Smart Grid. Studies in Computational Intelligence, 2020, , 165-175.	0.7	1
1384	Desynchronized Model Predictive Control for Large Populations of Fans in Server Racks of Datacenters. IEEE Transactions on Smart Grid, 2020, 11, 411-419.	6.2	4
1385	Enabling Efficient and Privacy-Preserving Aggregation Communication and Function Query for Fog Computing-Based Smart Grid. IEEE Transactions on Smart Grid, 2020, 11, 247-257.	6.2	55
1386	Identity-based encryption with authorized equivalence test for cloud-assisted IoT. Cluster Computing, 2020, 23, 1085-1101.	3.5	18
1387	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
1388	A practical group blind signature scheme for privacy protection in smart grid. Journal of Parallel and Distributed Computing, 2020, 136, 29-39.	2.7	59
1389	Smart residential electricity distribution system (SREDS) for demand response under smart grid environment. CSI Transactions on ICT, 2020, 8, 231-234.	0.7	0
1390	A Single-Level Rule-Based Model Predictive Control Approach for Energy Management of Grid-Connected Microgrids. IEEE Transactions on Control Systems Technology, 2020, 28, 2364-2376.	3.2	32
1391	An Efficient and Robust Data Aggregation Scheme Without a Trusted Authority for Smart Grid. IEEE Internet of Things Journal, 2020, 7, 1949-1959.	5.5	43
1392	Smart Grids Data Analysis: A Systematic Mapping Study. IEEE Transactions on Industrial Informatics, 2020, 16, 3619-3639.	7.2	21
1393	A highly efficient control framework for centralized residential charging coordination of large electric vehicle populations. International Journal of Electrical Power and Energy Systems, 2020, 117, 105661.	3.3	55
1394	Review and Comparison of Grid-Tied Inverter Controllers in Microgrids. IEEE Transactions on Power Electronics, 2020, 35, 7624-7639.	5.4	81
1395	A game theoretical approach for sub-transmission and generation expansion planning utilizing multi-regional energy systems. International Journal of Electrical Power and Energy Systems, 2020, 118, 105758.	3.3	22
1396	FESDA: Fog-Enabled Secure Data Aggregation in Smart Grid IoT Network. IEEE Internet of Things Journal, 2020, 7, 6132-6142.	5.5	81

#	Article	IF	CITATIONS
1397	A review of machine learning for new generation smart dispatch in power systems. Engineering Applications of Artificial Intelligence, 2020, 88, 103372.	4.3	46
1398	Smart and Resilient EV Charging in SDN-Enhanced Vehicular Edge Computing Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 217-228.	9.7	130
1399	An Effective Reliability Evaluation Method for Power Communication Network Based on Community Structure. IEEE Transactions on Industry Applications, 2020, , 1-1.	3.3	3
1400	Reconstruction of Power Pylons From LiDAR Point Clouds Based on Structural Segmentation and Parameter Estimation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	0
1401	Improving Distribution System Observability Using Neural Networks. , 2020, , .		0
1402	System of systems uncertainty quantification using machine learning techniques with smart grid application. Systems Engineering, 2020, 23, 770-782.	1.6	12
1403	A relaxed constrained decentralised demand side management system of a community-based residential microgrid with realistic appliance models. Applied Energy, 2020, 277, 115626.	5.1	23
1404	Review of Multi-Agent Micro-Grid Systems. , 2020, , .		2
1405	Statistical Energy Information and Analysis of Pakistan Economic Corridor Based on Strengths, Availabilities, and Future Roadmap. IEEE Access, 2020, 8, 169701-169739.	2.6	10
1406	Coded Caching for Smart Grid Enabled HetNets With Resource Allocation and Energy Cooperation. IEEE Transactions on Vehicular Technology, 2020, 69, 12058-12071.	3.9	7
1407	Solid-State Circuit Breaker based Smart Distribution Board with IoT Integration. , 2020, , .		2
1408	Optimization of Mixed Energy Supply of IoT Network Based on Matching Game and Convex Optimization. Sensors, 2020, 20, 5458.	2.1	3
1409	Energy efficiency of small buildings with smart cooling system in the summer. Frontiers in Energy, 2022, 16, 651-660.	1.2	4
1410	Optimization of Day-Ahead Energy Storage System Scheduling in Microgrid Using Genetic Algorithm and Particle Swarm Optimization. IEEE Access, 2020, 8, 173068-173078.	2.6	38
1411	A novel framework for restoration technique of an industrial microgrid using black start units. International Transactions on Electrical Energy Systems, 2020, 30, e12636.	1.2	2
1412	Cooperative Small Cell HetNets With Dynamic Sleeping and Energy Harvesting. IEEE Transactions on Green Communications and Networking, 2020, 4, 774-782.	3.5	26
1413	The Threats of Infrastructure Obsolescence to Smart Grid: A Case Study. Wireless Personal Communications, 2020, 114, 1025-1043.	1.8	5
1414	Electric Rickshaw Charging Stations as Distributed Energy Storages for Integrating Intermittent Renewable Energy Sources: A Case of Bangladesh. Energies, 2020, 13, 6119.	1.6	11

#	Article	IF	CITATIONS
1415	Context-Aware Wireless Sensor Networks for Smart Building Energy Management System. Information (Switzerland), 2020, 11, 530.	1.7	12
1416	A Policy for Efficient Utilization of a Shared Energy Back-Up System. , 2020, , .		0
1417	A Hybrid Spatio-Temporal Prediction Model for Solar Photovoltaic Generation Using Numerical Weather Data and Satellite Images. Remote Sensing, 2020, 12, 3706.	1.8	8
1418	The Effect of Retail Electricity Price Levels on the FI Values of Smart-Grid Rooftop Solar Power Systems: A Case Study in the Central Highlands of Vietnam. Sustainability, 2020, 12, 9209.	1.6	13
1419	Internet-of-Things-Based Smart Transportation Systems for Safer Roads. , 2020, , .		15
1420	Power Loss-Aware Transactive Microgrid Coalitions under Uncertainty. Energies, 2020, 13, 5782.	1.6	7
1421	Multiple households very short-term load forecasting using bayesian networks. Electric Power Systems Research, 2020, 189, 106733.	2.1	40
1422	European commitment to COP21 and the role of energy consumption, FDI, trade and economic complexity in sustaining economic growth. Journal of Environmental Management, 2020, 273, 111146.	3.8	177
1423	Advanced Distribution Measurement Technologies and Data Applications for Smart Grids: A Review. Energies, 2020, 13, 3730.	1.6	21
1424	Regularization Method for the Clarke's Generalized Jacobian to Ensure the Formation of Nonsingular Systems for Inexact Newton Methods. , 2020, , .		0
1425	Study on the Unified Data of Power Regulation System for Guizhou Power Grid. IOP Conference Series: Earth and Environmental Science, 2020, 514, 042066.	0.2	0
1426	Feature Extraction from Building Submetering Networks Using Deep Learning. Sensors, 2020, 20, 3665.	2.1	5
1427	A Review of Cognitive Radio Smart Grid Communication Infrastructure Systems. Energies, 2020, 13, 3245.	1.6	20
1428	Link Between Sustainability and Industry 4.0: Trends, Challenges and New Perspectives. IEEE Access, 2020, 8, 140079-140096.	2.6	134
1429	Study of Nature Inspired Power-aware Wake-Up Scheduling Mechanisms in WSN. , 2020, , .		1
1430	Wind-DFIG wireless controlled using EGPRS standard applied to the ancillary services in a smart grid environment. Electric Power Systems Research, 2020, 189, 106807.	2.1	4
1431	Recent research on Energy Trading. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012133.	0.3	1
1432	Cyber-Physical Power System (CPPS): A Review on Modeling, Simulation, and Analysis With Cyber Security Applications. IEEE Access, 2020, 8, 151019-151064.	2.6	153

	Сітаті	on Report	
#	ARTICLE	IF	CITATIONS
1433	Power Management in HetNets with Mobility Prediction and Harvested Energy. , 2020, , .		1
1434	Robust Revocable Anonymous Authentication for Vehicle to Grid Communications. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4845-4857.	4.7	11
1435	IEC 61850 over TSN: traffic mapping and delay analysis of GOOSE traffic. , 2020, , .		8
1436	Cyber Security Issues for IoT based Smart Grid Infrastructure. IOP Conference Series: Materials Science and Engineering, 2020, 937, 012001.	0.3	4
1437	Trust Management in Smart Grid: A Markov Trust Model. , 2020, , .		3
1438	Smart Grid for Industry Using Multi-Agent Reinforcement Learning. Applied Sciences (Switzerland), 2020, 10, 6900.	1.3	29
1439	A game-theoretic control approach for the optimal energy storage under power flow constraints in distribution networks. , 2020, , .		8
1440	Reinforcement Learning in Deep Structured Teams: Initial Results with Finite and Infinite Valued Features. , 2020, , .		4
1441	A Survey of Denial-of-Service Attacks and Solutions in the Smart Grid. IEEE Access, 2020, 8, 177447-177470.	2.6	80
1442	Enhancing Smart Grids via Advanced Metering Infrastructure and Fog Computing Fusion. , 2020, , .		6
1443	Cluster-based Aggregate Load Forecasting with Deep Neural Networks. , 2020, , .		6
1444	Towards Energy Efficient Smart Grids Using Bio-Inspired Scheduling Techniques. IEEE Access, 2020, 8, 158947-158960.	2.6	18
1445	A thermostatted model for a network of energy sources: Analysis on the initial condition. E3S Web of Conferences, 2020, 170, 01031.	0.2	1
1446	Multi-level Hierarchical Clustering Algorithm For Energy-theft Detection in Smart Grid Networks. , 2020, , .		1
1447	Complex Large-Scale Energy Resource Management Optimization Considering Demand Flexibility. , 2020, , .		0
1448	Framework of locality electricity trading system for profitable peerâ€ŧoâ€peer power transaction in locality electricity market. IET Smart Grid, 2020, 3, 318-330.	1.5	23
1449	Latency and Energy Transmission Cost Optimization using BCO-aware Energy Routing for Smart Grid. , 2020, , .		6
1450	An Overview of Demand Response in Smart Grid and Optimization Techniques for Efficient Residential Appliance Scheduling Problem. Energies, 2020, 13, 4266.	1.6	49

#	Article	IF	CITATIONS
1451	Decentralized Privacy-Preserving Data Aggregation Scheme for Smart Grid Based on Blockchain. Sensors, 2020, 20, 5282.	2.1	36
1452	The Penetration of Renewable and Sustainable Energy in Asia: A State-of-the-Art Review on Net-Metering. IEEE Access, 2020, 8, 170364-170388.	2.6	49
1453	Optimal Cloud Resource Scheduling in Smart Grid: A Hierarchical Game Approach. , 2020, , .		0
1454	Integrating LPWAN Technologies in the 5G Ecosystem: A Survey on Security Challenges and Solutions. IEEE Access, 2020, 8, 216437-216460.	2.6	21
1455	Communication Systems in Distributed Generation: A Bibliographical Review and Frameworks. IEEE Access, 2020, 8, 207226-207239.	2.6	36
1456	Smart Grid to Energy Internet: A Systematic Review of Transitioning Electricity Systems. IEEE Access, 2020, 8, 215787-215805.	2.6	39
1457	Mobile Apps Meet the Smart Energy Grid: A Survey on Consumer Engagement and Machine Learning Applications. IEEE Access, 2020, 8, 219632-219655.	2.6	17
1458	Optimal Scheduling of Grid Transactive Home Demand Responsive Appliances Using Polar Bear Optimization Algorithm. IEEE Access, 2020, 8, 222285-222296.	2.6	26
1459	Performance Evaluation of AMI Communication Network Using OSPF Routing Protocol and WAN Technologies. , 2020, , .		1
1460	Making Smart Transportation Work in Smart Cities. , 2020, , .		1
1460 1461	Making Smart Transportation Work in Smart Cities. , 2020, , . Power Management in Low-Power MCUs for Energy IoT Applications. Journal of Sensors, 2020, 2020, 1-12.	0.6	1
	Power Management in Low-Power MCUs for Energy IoT Applications. Journal of Sensors, 2020, 2020,	0.6	
1461	Power Management in Low-Power MCUs for Energy IoT Applications. Journal of Sensors, 2020, 2020, 1-12. An Improved Chaos Quantum Immune Algorithm for Power Generation Expansion Planning. Journal of		7
1461 1462	Power Management in Low-Power MCUs for Energy IoT Applications. Journal of Sensors, 2020, 2020, 1-12. An Improved Chaos Quantum Immune Algorithm for Power Generation Expansion Planning. Journal of Physics: Conference Series, 2020, 1624, 042025. Future Nano-grid technologies and its implementation challenges for Smart Cities. IOP Conference	0.3	7 O
1461 1462 1463	Power Management in Low-Power MCUs for Energy IoT Applications. Journal of Sensors, 2020, 2020, 1-12. An Improved Chaos Quantum Immune Algorithm for Power Generation Expansion Planning. Journal of Physics: Conference Series, 2020, 1624, 042025. Future Nano-grid technologies and its implementation challenges for Smart Cities. IOP Conference Series: Materials Science and Engineering, 2020, 955, 012002. Evaluating the Roadmap of 5G Technology Implementation for Smart Building and Facilities	0.3 0.3	7 0 2
1461 1462 1463 1464	Power Management in Low-Power MCUs for Energy IoT Applications. Journal of Sensors, 2020, 2020, 1-12. An Improved Chaos Quantum Immune Algorithm for Power Ceneration Expansion Planning. Journal of Physics: Conference Series, 2020, 1624, 042025. Future Nano-grid technologies and its implementation challenges for Smart Cities. IOP Conference Series: Materials Science and Engineering, 2020, 955, 012002. Evaluating the Roadmap of 5G Technology Implementation for Smart Building and Facilities Management in Singapore. Sustainability, 2020, 12, 10259.	0.3 0.3	7 0 2 25
1461 1462 1463 1464 1465	Power Management in Low-Power MCUs for Energy IoT Applications. Journal of Sensors, 2020, 2020, 1-12. An Improved Chaos Quantum Immune Algorithm for Power Generation Expansion Planning. Journal of Physics: Conference Series, 2020, 1624, 042025. Future Nano-grid technologies and its implementation challenges for Smart Cities. IOP Conference Series: Materials Science and Engineering, 2020, 955, 012002. Evaluating the Roadmap of 5G Technology Implementation for Smart Building and Facilities Management in Singapore. Sustainability, 2020, 12, 10259. A Robust MPC Energy Scheduling Strategy for Multi-Carrier Microgrids. , 2020, , . Emergence in cyber-physical systems: potential and risk. Frontiers of Information Technology and	0.3 0.3 1.6	7 0 2 25 7

~		_	
Citati	ON	REDU	PT
CHAH		NLFU	

#	Article	IF	CITATIONS
1469	Location of Quality Parameters in Small Smart Grid: Off-Grid Case Using Wavelet Transform. IOP Conference Series: Materials Science and Engineering, 2020, 844, 012066.	0.3	0
1470	Simulation-Based Evaluation of the Performance of Broadband over Power Lines with Multiple Repeaters in Linear Topology of Distribution Substations. Applied Sciences (Switzerland), 2020, 10, 6879.	1.3	5
1471	Modelling of market equilibrium on the basis of Smart Grid market system decomposition. , 2020, , .		3
1472	Energy-efficient path-aware routing Protocol based on PSO for Smart Grids. , 2020, , .		9
1473	Security Requirements for the Internet of Things: A Systematic Approach. Sensors, 2020, 20, 5897.	2.1	84
1474	Economic energy and reserve management of renewable-based microgrids in the presence of electric vehicle aggregators: A robust optimization approach. Energy, 2020, 201, 117629.	4.5	70
1475	Micro-synchrophasor based special protection scheme for distribution system automation in a smart city. Protection and Control of Modern Power Systems, 2020, 5, .	4.3	20
1476	A Techno-Economic Centric Integrated Decision-Making Planning Approach for Optimal Assets Placement in Meshed Distribution Network Across the Load Growth. Energies, 2020, 13, 1444.	1.6	13
1477	Lightweight and secure PUF-based authenticated key agreement scheme for smart grid. Peer-to-Peer Networking and Applications, 2020, 13, 1616-1628.	2.6	13
1478	Optimal planning and operation of multi-carrier networked microgrids considering multi-energy hubs in distribution networks. Energy, 2020, 204, 117936.	4.5	65
1479	A Residential Load Scheduling Based on Cost Efficiency and Consumer's Preference for Demand Response in Smart Grid. Electric Power Systems Research, 2020, 186, 106410.	2.1	36
1480	A Novel Algorithm with Reduced Mutual Information for Smart Meter Privacy Protection. , 2020, , .		2
1481	An energy internet DERMS platform using a multi-level Stackelberg game. Sustainable Cities and Society, 2020, 60, 102262.	5.1	9
1482	Demand Response Management using Non-Dominated Sorting Genetic Algorithm II. , 2020, , .		3
1483	Federating Smart Cluster Energy Grids for Peer-to-Peer Energy Sharing and Trading. IEEE Access, 2020, 8, 102419-102435.	2.6	18
1484	Millimeter Wave Based Real-Time Sag Measurement and Monitoring System of Overhead Transmission Lines in a Smart Grid. IEEE Access, 2020, 8, 100754-100767.	2.6	9
1485	ESS SoC Optimization System Using EV Control. , 2020, , .		1
1486	Improved Generative Adversarial Network-Based Super Resolution Reconstruction for Low-Frequency Measurement of Smart Grid. IEEE Access, 2020, 8, 85257-85270.	2.6	9

#	Article	IF	CITATIONS
1487	Fog Computing for Big Data Analytics in IoT Aided Smart Grid Networks. Wireless Personal Communications, 2020, 114, 3395-3418.	1.8	14
1488	A Security Analysis of Blockchain Based Decentralized Energy Exchange System. , 2020, , .		1
1489	A Survey of Computational Intelligence Techniques for Air-Conditioners Energy Management. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 555-570.	3.4	33
1490	Solid-State Transformer for Energy Efficiency Enhancement. , 2020, , .		3
1491	Efficient detection of false data injection attack with invertible automatic encoder and longâ€shortâ€ŧerm memory. IET Cyber-Physical Systems: Theory and Applications, 2020, 5, 110-118.	1.9	8
1492	Smartphone Zombie Context Awareness at Crossroads: A Multi-Source Information Fusion Approach. IEEE Access, 2020, 8, 101963-101977.	2.6	10
1493	Phasor Estimation for Grid Power Monitoring: Least Square vs. Linear Kalman Filter. Energies, 2020, 13, 2456.	1.6	22
1494	Entering the Augmented Era: Immersive and Interactive Virtual Reality for Battery Education and Research**. Batteries and Supercaps, 2020, 3, 1147-1164.	2.4	6
1495	A Survey on Decentralized Consensus Mechanisms for Cyber Physical Systems. IEEE Access, 2020, 8, 54371-54401.	2.6	121
1496	An Outliers Processing Module Based on Artificial Intelligence for Substations Metering System. IEEE Transactions on Power Systems, 2020, 35, 3400-3409.	4.6	7
1498	Energy and Information Management of Electric Vehicular Network: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 967-997.	24.8	47
1499	A Study on the Development Trends of the Energy System with Blockchain Technology Using Patent Analysis. Sustainability, 2020, 12, 2005.	1.6	18
1500	Privacyâ€preserving data aggregation scheme for edge computing supported vehicular ad hoc networks. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3952.	2.6	11
1501	Power control system for minimizing SoC variation of ESS. , 2020, , .		0
1502	SOH Aware System-Level Battery Management Methodology for Decentralized Energy Network. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 596-604.	0.2	1
1503	A Situation-Aware Scheme for Efficient Device Authentication in Smart Grid-Enabled Home Area Networks. Electronics (Switzerland), 2020, 9, 989.	1.8	18
1504	Towards Short Term Electricity Load Forecasting Using Improved Support Vector Machine and Extreme Learning Machine. Energies, 2020, 13, 2907.	1.6	57
1505	A Study on Fundamental Waveform Shapes in Microscopic Electrical Load Signatures. Energies, 2020, 13, 3039.	1.6	3

# 1506	ARTICLE Transient system-level performance and thermo-mechanical stress analysis of a solid oxide fuel cell-based power generation plant with a multi-physics approach. Computers and Chemical Engineering, 2020, 140, 106972.	IF 2.0	CITATIONS
1507	A Reliable Communication Model Based on IEEE802.15.4 for WSANs in Smart Grids. , 2020, , .		1
1508	Introductory Chapter: Open Problems and Enabling Methodologies for Smart Grids. , 0, , .		0
1509	Discovering Routing Anomalies in Large PLC Metering Deployments from Field Data. , 2020, , .		4
1510	Non-preemptive Scheduling in a Smart Grid Model and Its Implications on Machine Minimization. Algorithmica, 2020, 82, 3415-3457.	1.0	3
1511	Reweighted Compressed Sensing-Based Smart Grids Topology Reconstruction With Application to Identification of Power Line Outage. IEEE Systems Journal, 2020, 14, 4329-4339.	2.9	7
1512	A Hybrid VLC-RF Portable Phasor Measurement Unit for Deep Tunnels. Sensors, 2020, 20, 790.	2.1	8
1513	Cyber risks of PMU networks with observation errors: Assessment and mitigation. Reliability Engineering and System Safety, 2020, 198, 106873.	5.1	7
1514	Blockchain Technology for Smart Grids: Decentralized NIST Conceptual Model. IEEE Access, 2020, 8, 43177-43190.	2.6	46
1515	Data-Driven Model of the Power-Grid Frequency Dynamics. IEEE Access, 2020, 8, 43082-43097.	2.6	33
1516	Data-Driven Abnormity Assessment for Low-Voltage Power Consumption and Supplies Based on CRITIC and Improved Radar Chart Algorithms. IEEE Access, 2020, 8, 27139-27151.	2.6	9
1517	A Methodology for Security Classification applied to Smart Grid Infrastructures. International Journal of Critical Infrastructure Protection, 2020, 28, 100342.	2.9	45
1518	Critical Nodes Identification in Complex Networks. Symmetry, 2020, 12, 123.	1.1	26
1519	On the modeling of a solar, wind and fossil fuel energy source by means of the thermostatted kinetic theory. European Physical Journal Plus, 2020, 135, 1.	1.2	5
1520	Neural-network-based Lagrange multiplier selection for distributed demand response in smart grid. Applied Energy, 2020, 264, 114636.	5.1	34
1521	DABGEO: A reusable and usable global energy ontology for the energy domain. Web Semantics, 2020, 61-62, 100550.	2.2	10
1522	Mitigation of Frequency and Voltage Disruptions in Smart Grid During Cyber-Attack. Journal of Control, Automation and Electrical Systems, 2020, 31, 412-421.	1.2	10
1523	Blockchain for Internet of Energy management: Review, solutions, and challenges. Computer Communications, 2020, 151, 395-418.	3.1	207

#	Article	IF	CITATIONS
1524	Detection and Isolation of False Data Injection Attacks in Smart Grid via Unknown Input Interval Observer. IEEE Internet of Things Journal, 2020, 7, 3214-3229.	5.5	33
1525	Resilient Control in Cyber-Physical Systems: Countering Uncertainty, Constraints, and Adversarial Behavior. Foundations and Trends in Systems and Control, 2020, 7, 1-252.	3.8	9
1526	Survey of Smart Grid Concepts and Technological Demonstrations Worldwide Emphasizing on the Oman Perspective. Applied System Innovation, 2020, 3, 5.	2.7	49
1527	Toward a hydrogen society: Hydrogen and smart grid integration. International Journal of Hydrogen Energy, 2020, 45, 20164-20175.	3.8	84
1528	Heuristic Optimization for Microload Shedding in Generation Constrained Power Systems. IEEE Access, 2020, 8, 13294-13304.	2.6	2
1529	Predicting Stability of a Decentralized Power Grid Linking Electricity Price Formulation to Grid Frequency Applying an Optimized Data-Matching Learning Network to Simulated Data. Technology and Economics of Smart Grids and Sustainable Energy, 2020, 5, 1.	1.8	8
1530	Multilayer modeling of adoption dynamics in energy demand management. Chaos, 2020, 30, 013153.	1.0	7
1531	An Insight into Practical Solutions for Electric Vehicle Charging in Smart Grid. Energies, 2020, 13, 1545.	1.6	29
1532	Modeling and Analysis of Energy Harvesting and Smart Grid-Powered Wireless Communication Networks: A Contemporary Survey. IEEE Transactions on Green Communications and Networking, 2020, 4, 461-496.	3.5	83
1533	A systematical analysis on the dynamic pricing strategies and optimization methods for energy trading in smart grids. International Transactions on Electrical Energy Systems, 2020, 30, e12404.	1.2	5
1534	Optimal Operation Control of Microgrid Connected Photovoltaic-Diesel Generator Backup System Under Time of Use Tariff. Journal of Control, Automation and Electrical Systems, 2020, 31, 1001-1014.	1.2	24
1535	Energy scheduling of a smart microgrid with shared photovoltaic panels and storage: The case of the Ballen marina in SamsÃ, Energy, 2020, 198, 117188.	4.5	66
1536	A novel multitype-users welfare equilibrium based real-time pricing in smart grid. Future Generation Computer Systems, 2020, 108, 145-160.	4.9	11
1537	Aggregate in my way: Privacy-preserving data aggregation without trusted authority in ICN. Future Generation Computer Systems, 2020, 111, 107-116.	4.9	10
1538	Time Series Forecasting Based Day-Ahead Energy Trading in Microgrids: Mathematical Analysis and Simulation. IEEE Access, 2020, 8, 63885-63900.	2.6	5
1539	Cognitive Radio_Based Backup Protection Scheme for Smart Grid Applications. IEEE Access, 2020, 8, 71866-71879.	2.6	5
1540	Recent advancement in smart grid technology: Future prospects in the electrical power network. Ain Shams Engineering Journal, 2021, 12, 687-695.	3.5	174
1541	Progress on the demand side management in smart grid and optimization approaches. International Journal of Energy Research, 2021, 45, 36-64.	2.2	119

#	Article	IF	Citations
1542	EPDAS: Efficient privacy-preserving data analysis scheme for smart grid network. Journal of King Saud University - Computer and Information Sciences, 2021, 33, 208-217.	2.7	10
1543	Renewable energy powered sustainable 5G network infrastructure: Opportunities, challenges and perspectives. Journal of Network and Computer Applications, 2021, 175, 102910.	5.8	47
1544	Demand response in consumer-Centric electricity market: Mathematical models and optimization problems. Electric Power Systems Research, 2021, 193, 106923.	2.1	47
1545	Internet of things and cloud computingâ€based energy management system for demand side management in smart grid. International Journal of Energy Research, 2021, 45, 1007-1022.	2.2	90
1546	Evaluating the NSF broader impacts with the Inclusion-Immediacy Criterion: A retrospective analysis of nanotechnology grants. Technovation, 2021, 101, 102210.	4.2	5
1547	The implementation framework of a microgrid: A review. International Journal of Energy Research, 2021, 45, 3523-3547.	2.2	55
1548	Correcting "PALK: Password-based anonymous lightweight key agreement framework for smart grid― International Journal of Electrical Power and Energy Systems, 2021, 125, 106529.	3.3	47
1549	Security aspects of Internet of Things aided smart grids: A bibliometric survey. Internet of Things (Netherlands), 2021, 14, 100111.	4.9	108
1550	Deep Learning-Aided Sensorless Control Approach for PV Converters in DC Nanogrids. IEEE Access, 2021, 9, 106641-106654.	2.6	2
1551	Deep Learning Anomaly Detection for Cellular IoT With Applications in Smart Logistics. IEEE Access, 2021, 9, 59406-59419.	2.6	34
1552	The Smart Appliance Scheduling Problem: A Bayesian Optimization Approach. Lecture Notes in Computer Science, 2021, , 100-115.	1.0	1
1553	Blockchain-Based Decentralized Privacy-Preserving Data Aggregation (BDPDA). Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 448-459.	0.2	0
1554	Realizing Internet of Things with Network Slicing: Opportunities and Challenges. , 2021, , .		12
1555	Observation and Control of Smart Grid Using IoT and Cloud Technology. Lecture Notes in Electrical Engineering, 2021, , 559-575.	0.3	1
1556	Implementation of Load Control for Smart Metering in Smart Grids. Advances in Computer and Electrical Engineering Book Series, 2021, , 119-155.	0.2	0
1557	Robust Online Overhead Transmission Line Monitoring With Cost Efficiency in Smart Power Grid. IEEE Access, 2021, 9, 86449-86459.	2.6	7
1558	P2PEdge: A Decentralised, Scalable P2P Architecture for Energy Trading in Real-Time. Energies, 2021, 14, 606.	1.6	14
1559	Coordination strategies in distribution network considering multiple aggregators and high penetration of electric vehicles. Procedia Computer Science, 2021, 186, 698-705.	1.2	6

#	Article	IF	CITATIONS
1560	Hardware Design and Development of Intelligent Meter Data Acquisition Module Based on WIFI. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 95-103.	0.2	0
1561	Latency Critical Data Processing in Cloud for Smart Grid Applications. Advances in Intelligent Systems and Computing, 2021, , 663-676.	0.5	2
1562	A Data-Driven Approach for Blockchain-Based Smart Grid System. IEEE Access, 2021, 9, 70061-70070.	2.6	9
1563	Event Tree Reliability Analysis of Safety-Critical Systems Using Theorem Proving. IEEE Systems Journal, 2022, 16, 2899-2910.	2.9	6
1564	A Machine Learning Approach for Anomaly Detection to Secure Smart Grid Systems. Advances in Information Security, Privacy, and Ethics Book Series, 2021, , 199-213.	0.4	3
1565	Efficient Online Heuristic Approach for Handling Fluctuation in Renewable Energy in a Microgrid. IEEE Systems Journal, 2022, 16, 2471-2482.	2.9	1
1566	Energy Sustainability–Survey on Technology and Control of Microgrid, Smart Grid and Virtual Power Plant. IEEE Access, 2021, 9, 104663-104694.	2.6	30
1567	Harnessing Solar Energy for Sustainable Development of Livelihoods. , 2021, , 1-36.		0
1568	Survey on Network Slicing for Internet of Things Realization in 5G Networks. IEEE Communications Surveys and Tutorials, 2021, 23, 957-994.	24.8	216
1569	Auction-based Truthful Distributed Resource Allocation for Smart Grid Systems. , 2021, , .		2
1569 1570		0.4	2
	Auction-based Truthful Distributed Resource Allocation for Smart Grid Systems. , 2021, , . Automatic Classification of Energy Consumption Profiles in Processes of the Oil & Gas Industry in	0.4	
1570	Auction-based Truthful Distributed Resource Allocation for Smart Grid Systems. , 2021, , . Automatic Classification of Energy Consumption Profiles in Processes of the Oil & Gas Industry in Colombia. Communications in Computer and Information Science, 2021, , 49-59. An Effective Data Fusion Model for Detecting the Risk of Transmission Line in Smart Grid. IEEE Internet		0
1570 1571	Auction-based Truthful Distributed Resource Allocation for Smart Grid Systems. , 2021, , . Automatic Classification of Energy Consumption Profiles in Processes of the Oil & Gas Industry in Colombia. Communications in Computer and Information Science, 2021, , 49-59. An Effective Data Fusion Model for Detecting the Risk of Transmission Line in Smart Grid. IEEE Internet of Things Journal, 2022, 9, 22256-22266. Evaluation and Assessment of Smart Grid Reliability Using Fuzzy Multi-criteria Decision-Making. Power	5.5	0 3
1570 1571 1572	Auction-based Truthful Distributed Resource Allocation for Smart Grid Systems. , 2021, , . Automatic Classification of Energy Consumption Profiles in Processes of the Oil & Gas Industry in Colombia. Communications in Computer and Information Science, 2021, , 49-59. An Effective Data Fusion Model for Detecting the Risk of Transmission Line in Smart Grid. IEEE Internet of Things Journal, 2022, 9, 22256-22266. Evaluation and Assessment of Smart Grid Reliability Using Fuzzy Multi-criteria Decision-Making. Power Systems, 2021, , 67-104. The Secure Lattice-Based Data Aggregation Scheme in Residential Networks for Smart Grid. IEEE	5.5 0.3	0 3 3
1570 1571 1572 1573	Auction-based Truthful Distributed Resource Allocation for Smart Grid Systems. , 2021, , . Automatic Classification of Energy Consumption Profiles in Processes of the Oil & Gas Industry in Colombia. Communications in Computer and Information Science, 2021, , 49-59. An Effective Data Fusion Model for Detecting the Risk of Transmission Line in Smart Grid. IEEE Internet of Things Journal, 2022, 9, 22256-22266. Evaluation and Assessment of Smart Grid Reliability Using Fuzzy Multi-criteria Decision-Making. Power Systems, 2021, , 67-104. The Secure Lattice-Based Data Aggregation Scheme in Residential Networks for Smart Grid. IEEE Internet of Things Journal, 2022, 9, 2153-2164.	5.5 0.3 5.5	0 3 3 11
1570 1571 1572 1573 1574	Auction-based Truthful Distributed Resource Allocation for Smart Grid Systems. , 2021, , . Automatic Classification of Energy Consumption Profiles in Processes of the Oil & Gas Industry in Colombia. Communications in Computer and Information Science, 2021, , 49-59. An Effective Data Fusion Model for Detecting the Risk of Transmission Line in Smart Grid. IEEE Internet of Things Journal, 2022, 9, 22256-22266. Evaluation and Assessment of Smart Grid Reliability Using Fuzzy Multi-criteria Decision-Making. Power Systems, 2021, , 67-104. The Secure Lattice-Based Data Aggregation Scheme in Residential Networks for Smart Grid. IEEE Internet of Things Journal, 2022, 9, 2153-2164. Consumer satisfaction-oriented residential appliance scheduling algorithms. Systems Science and Control Engineering, 2021, 9, 663-672. Internet of Things Applications in Electric Vehiclesâ€"A Review. Lecture Notes in Electrical Engineering,	5.50.35.51.8	0 3 3 11 1

#	Article	IF	CITATIONS
1578	Fair and Privacy-Aware EV Discharging Strategy Using Decentralized Whale Optimization Algorithm for Minimizing Cost of EVs and the EV Aggregator. IEEE Systems Journal, 2021, 15, 5571-5582.	2.9	10
1580	Demand Response Frameworks for Smart Residential Buildings. Power Systems, 2021, , 93-130.	0.3	0
1581	Hybrid PLC and LoRaWAN Smart Metering Networks: Modeling and Optimization. IEEE Transactions on Industrial Informatics, 2022, 18, 1572-1582.	7.2	5
1582	Data-driven sector coupling in 5G-based smart networks. Competition and Regulation in Network Industries, 2021, 22, 53-68.	0.3	1
1583	Cyber Attacks in Transactive Energy Market-Based Microgrid Systems. Energies, 2021, 14, 1137.	1.6	17
1584	Multi-agent System for Management of Data from Electrical Smart Meters. International Journal of Information Technology and Computer Science, 2021, 13, 18-43.	0.8	1
1585	Demand Side Electric Energy Consumption Optimization in a Smart Household Using Scheduling and Model Predictive Temperature Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2021, 143, .	0.9	3
1586	Real-time energy data compression strategy for reducing data traffic based on smart grid AMI networks. Journal of Supercomputing, 2021, 77, 10097-10116.	2.4	7
1587	A Technical Review on Self-Healing Control Strategy for Smart Grid Power Systems. IOP Conference Series: Materials Science and Engineering, 2021, 1055, 012153.	0.3	17
1588	A comprehensive taxonomy of security and privacy issues in RFID. Complex & Intelligent Systems, 2021, 7, 1327-1347.	4.0	19
1589	Unfulfilled promise: social acceptance of the smart grid. Environmental Research Letters, 2021, 16, 034019.	2.2	13
1590	Smart grid encounters edge computing: opportunities and applications. Advances in Applied Energy, 2021, 1, 100006.	6.6	68
1591	Lightweight authentication protocol in edge-based smart grid environment. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	14
1592	Bird Swarm Algorithm Applied to the Wide-Area Damping Controller Design. , 2021, , .		1
1593	Smart Grid: Problems, Avenues for Study & Attainable Solutions. , 2021, , .		0
1594	Mutual authentication protocol for low cost passive tag in RFID system. International Journal of Information Technology (Singapore), 2021, 13, 1209-1215.	1.8	5
1595	Design of an IoT-Enabled Microgrid Architecture for a Partial Grid-Connected Mode. , 2021, , .		3
1596	A Survey of Sensing Methodologies in Smart Grids. , 2021, , .		4

#	Article	IF	CITATIONS
1597	MADDPG-Based Security Situational Awareness for Smart Grid with Intelligent Edge. Applied Sciences (Switzerland), 2021, 11, 3101.	1.3	30
1598	An Optimal Uplink Scheduling in Heterogeneous PLC and LTE Communication for Delay-aware Smart Grid Applications. Mobile Networks and Applications, 0, , 1.	2.2	1
1600	Optimal sharing energy of a complex of houses through energy trading in the Internet of energy. Energy, 2021, 220, 119613.	4.5	15
1601	Mobile netware, social graphs, and the reconfiguration of space. New Media and Society, 0, , 146144482110101.	3.1	1
1602	The Optimal EV Charging Strategy in Smart Grid and Insight into Practical Solutions. Journal of Physics: Conference Series, 2021, 1871, 012040.	0.3	0
1603	P4G2Go: A Privacy-Preserving Scheme for Roaming Energy Consumers of the Smart Grid-to-Go. Sensors, 2021, 21, 2686.	2.1	18
1604	Greedy is Optimal for Online Restricted Assignment and Smart Grid Scheduling for Unit Size Jobs. Theory of Computing Systems, 2021, 65, 1009.	0.7	1
1605	WaveLines: towards effective visualization and analysis of stability in power grid simulation. Frontiers of Computer Science, 2021, 15, 1.	1.6	5
1606	A partial information network growth and evolution model based on power system topology. , 2021, , .		0
1608	Review of distributed control and optimization in energy internet: From traditional methods to artificial intelligenceâ€based methods. IET Cyber-Physical Systems: Theory and Applications, 2021, 6, 63-79.	1.9	34
1609	A Power Data Reconstruction Method Based on Super-Resolution Generative Adversarial Network. , 2021, , .		2
1610	Regional Flexibility Markets—Solutions to the European Energy Distribution Grid—A Systematic Review and Research Agenda. Energies, 2021, 14, 2403.	1.6	3
1611	AnSMart: A SVM-based anomaly detection scheme via system profiling in Smart Grids. , 2021, , .		7
1613	A Comprehensive Survey on Cyber-Physical Smart Grid Testbed Architectures: Requirements and Challenges. Electronics (Switzerland), 2021, 10, 1043.	1.8	42
1614	Localized and Distributed H_{2} State Feedback Control. , 2021, , .		3
1615	A secure and privacy-preserving protocol for holding double auctions in smart grid. Information Sciences, 2021, 557, 108-129.	4.0	21
1616	Enhancing Cybersecurity in Smart Grids: False Data Injection and Its Mitigation. Energies, 2021, 14, 2657.	1.6	17
1617	Single Phase to Ground Fault Line Selection in Distribution Network Based on Signal Injection and Variational Mode Decomposition. , 2021, , .		3

#	Article	IF	CITATIONS
1619	Blockchain-Based Cyber Security and Advanced Distribution in Smart Grid. , 2021, , .		6
1620	An Overview of IoT-Enabled Monitoring and Control Systems for Electric Vehicles. IEEE Instrumentation and Measurement Magazine, 2021, 24, 91-97.	1.2	25
1621	Bridge Resistance Compensation for Noise Reduction in a Self-Balanced PHMR Sensor. Sensors, 2021, 21, 3585.	2.1	5
1622	Resilience Quantification of Smart Distribution Networks—A Bird's Eye View Perspective. Energies, 2021, 14, 2888.	1.6	4
1623	A Combined Framework for Demand Side Management and Power Quality Enhancement in Smart Grid Under Different Distributed Energy Resource Penetration. , 2021, , .		2
1624	ZGridBC: Zero-Knowledge Proof based Scalable and Private Blockchain Platform for Smart Grid. , 2021,		9
1625	DensityÂBasedÂFuzzy C MeansÂClustering to prolong NetworkÂÂLifetimeÂinÂSmart Grids. Wireless Personal Communications, 2021, 119, 2817-2836.	1.8	3
1627	Two Secure and Efficient Lightweight Data Aggregation Schemes for Smart Grid. IEEE Transactions on Smart Grid, 2021, 12, 2625-2637.	6.2	20
1628	Performance improvement of integrated CO2 systems with HVAC and hot water for hotels. Thermal Science and Engineering Progress, 2021, 23, 100869.	1.3	3
1629	Integrated Access and Backhauling with Energy Harvesting and Dynamic Sleeping in HetNets. , 2021, , .		4
1630	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
1631	Improved resilience measure for component recovery priority in power grids. Frontiers of Engineering Management, 2021, 8, 545-556.	3.3	28
1632	A total least squares enhanced smart DFT technique for frequency estimation of unbalanced three-phase power systems. International Journal of Electrical Power and Energy Systems, 2021, 128, 106722.	3.3	7
1633	A Deep Learning-Based Classification Scheme for False Data Injection Attack Detection in Power System. Electronics (Switzerland), 2021, 10, 1459.	1.8	9
1634	LAKAF: Lightweight authentication and key agreement framework for smart grid network. Journal of Systems Architecture, 2021, 116, 102053.	2.5	50
1635	Evolutionary Algorithms for Energy Scheduling under uncertainty considering Multiple Aggregators. , 2021, , .		8
1636	Cost-Aware Dynamic Bayesian Coalitional Game for Energy Trading among Microgrids. , 2021, , .		2
1637	A Blind Signature-Aided Privacy-Preserving Power Request Scheme for Smart Grid. Wireless Communications and Mobile Computing, 2021, 2021, 1-10.	0.8	5

		CITATION RE	PORT	
#	Article		IF	CITATIONS
1638	Dynamic optimization approach to coordinate industrial production and cogeneration under electricity price fluctuations. Computers and Chemical Engineering, 2021, 149, 1	operation 07292.	2.0	8
1639	A Survey on Machine-Learning Based Security Design for Cyber-Physical Systems. Applic (Switzerland), 2021, 11, 5458.	ed Sciences	1.3	25
1640	A Variational Autoencoder-Based Dimensionality Reduction Technique for Generation F Cyber-Physical Smart Grids. , 2021, , .	orecasting in		8
1641	Intent-based Network Management and Orchestration for Smart Distribution Grids. , 20	021,,.		6
1642	An Energy-Efficient Stream Join for the Internet of Things. , 2021, , .			5
1644	A Novel Hybrid Spatio-Temporal Forecasting of Multisite Solar Photovoltaic Generation. Sensing, 2021, 13, 2605.	Remote	1.8	16
1645	Advanced security and privacy technique for digital text in smart grid communications. and Electrical Engineering, 2021, 93, 107205.	Computers	3.0	13
1646	Detection of influential nodes with multi-scale information*. Chinese Physics B, 2021, 3	0, 088902.	0.7	4
1647	Dynamic Voltage Control Using Unified Power Quality Conditioner with Storage. , 202	., , .		0
1648	False Data Injection Attacks Detection in Smart Grid: A Structural Sparse Matrix Separa IEEE Transactions on Network Science and Engineering, 2021, 8, 2545-2558.	tion Method.	4.1	30
1649	Improving smart grid security through 5G enabled IoT and edge computing. Concurrent Practice and Experience, 2021, 33, e6466.	cy Computation	1.4	24
1650	The intention of households in the Daklak province to instal smart grid rooftop solar ele systems. Energy, Sustainability and Society, 2021, 11, .	ectricity	1.7	5
1651	Analysis of smart grid technology application for power distribution system reliability en A case study on Bahir Dar power distribution. Scientific African, 2021, 12, e00840.	1hancement:	0.7	6
1652	loT for Home Energy Management (HEM) Using FPGA. , 2021, , .			4
1653	Blockchain Management in Smart Grid. Management Studies, 2021, 9, .		0.0	1
1654	Dynamic State Estimation of Smart Grid Based on CKF under False Data Injection Attac	ks. , 2021, , .		0
1655	A deep learningâ€based classification scheme for cyberâ€attack detection in power sys Systems Integration, 2021, 3, 274-284.	tem. IET Energy	1.1	5
1656	Physical layer attack identification and localization in cyber–physical grid: An ensemb based approach. Physical Communication, 2021, 47, 101394.	le deep learning	1.2	17

#	Article	IF	CITATIONS
1657	Data-Driven Consumption Load Monitoring and Adjustment Strategy in Smart Grid. Journal of Mathematics, 2021, 2021, 1-11.	0.5	0
1658	A Decoupling Strategy for Protecting Sensitive Process Information in Cooperative Optimization of Power Flow. AICHE Journal, 0, , e17429.	1.8	2
1659	Gym-ANM: Reinforcement learning environments for active network management tasks in electricity distribution systems. Energy and AI, 2021, 5, 100092.	5.8	11
1660	Deep learning for time series forecasting: The electric load case. CAAI Transactions on Intelligence Technology, 2022, 7, 1-25.	3.4	80
1662	An Adaptive Sampling Strategy for Online Monitoring and Diagnosis of High-Dimensional Streaming Data. Technometrics, 2022, 64, 253-269.	1.3	9
1663	Machine learningâ€based model for prediction of power consumption in smart grid―smart way towards smart city. Expert Systems, 2022, 39, e12832.	2.9	27
1664	A Consortium Blockchain-Based Energy Trading for Demand Response Management in Vehicle-to-Grid. IEEE Transactions on Vehicular Technology, 2021, 70, 9480-9494.	3.9	42
1665	Collaborative optimization of distribution network and 5G mobile network with renewable energy sources in smart grid. International Journal of Electrical Power and Energy Systems, 2021, 130, 107027.	3.3	19
1666	Intermittently differential privacy in smart meters via rechargeable batteries. Electric Power Systems Research, 2021, 199, 107410.	2.1	7
1667	Reviewing the opportunities, challenges, and future directions for the digitalization of energy. Energy Research and Social Science, 2021, 81, 102243.	3.0	62
1668	A PV generation data reconstruction method based on improved super-resolution generative adversarial network. International Journal of Electrical Power and Energy Systems, 2021, 132, 107129.	3.3	7
1669	Distributed Successive Convex Approximation for Nonconvex Economic Dispatch in Smart Grid. IEEE Transactions on Industrial Informatics, 2021, 17, 8288-8298.	7.2	8
1670	On the resilience of modern power systems: A comprehensive review from the cyber-physical perspective. Renewable and Sustainable Energy Reviews, 2021, 152, 111642.	8.2	44
1671	A cooperative demand response strategy based on repeated game and cartel mechanism. Electric Power Systems Research, 2021, 201, 107475.	2.1	3
1672	Smart Cities, Smart Grids, and Smart Grid Analytics. , 2022, , 50-76.		1
1673	DSM for Energy Optimization and Communications Within Smart Grid CPSs. , 2022, , 506-528.		0
1674	Advances and opportunities in the model predictive control of microgrids: Part II–Secondary and tertiary layers. International Journal of Electrical Power and Energy Systems, 2022, 134, 107339.	3.3	22
1675	Implementation of Load Control for Smart Metering in Smart Grids. , 2022, , 127-164.		0

#	Article	IF	CITATIONS
1676	Emerging Ecosystems Empowered by AI and IoT Technologies. Advances in Business Strategy and Competitive Advantage Book Series, 2022, , 97-131.	0.2	0
1677	Advances and opportunities in the model predictive control of microgrids: Part l–primary layer. International Journal of Electrical Power and Energy Systems, 2022, 134, 107411.	3.3	28
1678	Quadratic function based price adjustment strategy on monitoring process of power consumption load in smart grid. International Journal of Electrical Power and Energy Systems, 2022, 134, 107124.	3.3	4
1679	Internet of Things Technologies for Smart Grid. , 2022, , 805-832.		3
1680	Smart Grid Implementation of the Industrial Sector. , 2022, , 721-735.		0
1681	A Machine Learning Approach for Anomaly Detection to Secure Smart Grid Systems. , 2022, , 911-923.		12
1682	Trust Management Issues for Sensors Security and Privacy in the Smart Grid. , 2022, , 1317-1334.		0
1683	Smart Grids and Smart Buildings. , 2021, , 1-56.		0
1684	Model-Driven Interoperability Layer for Normalized Connectivity Across Smart Grid Domains. IEEE Access, 2021, 9, 98639-98653.	2.6	6
1685	Blockchain-Based Peer-to-Peer Sustainable Energy Trading in Microgrid using Smart Contracts. , 2021, ,		7
1686	On Short-Term Load Forecasting Using Machine Learning Techniques and a Novel Parallel Deep LSTM-CNN Approach. IEEE Access, 2021, 9, 31191-31212.	2.6	118
1687	Integration of electric vehicles in local energy markets. , 2021, , 21-36.		2
1688	Privacy-Preserving Optimal Energy Management for Smart Grid With Cloud-Edge Computing. IEEE Transactions on Industrial Informatics, 2022, 18, 4029-4038.	7.2	11
1689	A Privacy-Aware Data Aggregation Scheme for Smart Grid Based on Elliptic Curve Cryptography With Provable Security Against Internal Attacks. , 2021, , 651-682.		0
1690	Cause-Consequence Diagram Reliability Analysis Using Formal Techniques With Application to Electrical Power Networks. IEEE Access, 2021, 9, 23929-23943.	2.6	7
1691	Reducing Transmission Losses via Reactive Power Control. Mathematics in Industry, 2021, , 219-232.	0.1	2
1692	Machine Type Communications in 6G. Computer Communications and Networks, 2021, , 207-231.	0.8	5
1693	Positive Consensus of Directed Multiagent Systems. IEEE Transactions on Automatic Control, 2022, 67, 3641-3646.	3.6	9

ARTICLE IF CITATIONS Smart Energy Trend Observation., 2021,, 797-838. 0 1694 Services of Energy Storage Technologies in Renewable-Based Power Systems. Communications in 0.4 Computer and Information Science, 2019, , 53-64. Greedy Is Optimal for Online Restricted Assignment and Smart Grid Scheduling for Unit Size Jobs. 1696 1.0 2 Lecture Notes in Computer Science, 2020, , 217-231. Identity and Access Management for IoT in Smart Grid. Advances in Intelligent Systems and Computing, 0.5 2020, , 1215-1226. Wireless Sensor Networks and Advanced Metering Infrastructure Deployment in Smart Grid. Lecture 1699 Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications 0.2 6 Engineering, 2014, , 167-171. Techniques, Taxonomy, and Challenges of Privacy Protection in the Smart Grid. Computer Communications and Networks, 2015, , 343-390. 0.8 Reactive Security for Smart Grids Using Models@run.time-Based Simulation and Reasoning. Lecture 1701 1.0 7 Notes in Computer Science, 2014, , 139-153. A Concept for the Control, Monitoring and Visualization Center in Energy Lab 2.0. Lecture Notes in 1.0 Computer Science, 2015, , 83-94. Complex-Demand Scheduling Problem with Application in Smart Grid. Lecture Notes in Computer 1703 1.0 4 Science, 2016, , 496-509. 1704 Self-awareness of Cloud Applications., 2017, , 575-610. An Evolvable and Adaptable Agent Based Smart Grid Managementâ€"A Simulation Environment. Studies 1705 0.7 1 in Computational Intelligence, 2017, , 417-426. Industrial Systems. Studies in Systems, Decision and Control, 2017, , 139-157. 0.8 A Novel Smart Distribution System for an Islanded Region. Lecture Notes in Networks and Systems, 1708 0.5 4 2018, , 269-279. Cloud-Fog Based Smart Grid Paradigm for Effective Resource Distribution. Lecture Notes on Data 1710 Engineering and Communications Technologies, 2019, , 234-247. Towards Service Orchestration Between Smart Grids and Telecom Networks. Lecture Notes in 1712 1.0 4 Computer Science, 2013, , 300-309. Privacy-Preserving Meter Reading Transmission in Smart Grid. Springer Briefs in Electrical and Computer Engineering, 2017, , 33-52. 1713 Decentralized H\$\$_infty \$\$ Load Frequency Control for Multi-area Power Systems with 1714 0.4 2 Communication Uncertainties. Communications in Computer and Information Science, 2017, , 429-438. Cryptanalysis of a Pairing-Based Anonymous Key Agreement Scheme for Smart Grid. Smart Innovation, 1715 Systems and Technologies, 2020, , 125-131.

#	Article	IF	CITATIONS
1716	Energy Management System of a Microgrid Using Particle Swarm Optimization (PSO) and Communication System. Lecture Notes in Electrical Engineering, 2020, , 263-288.	0.3	4
1717	Different Types of Energy Storage Systems: A Literature Survey. Lecture Notes in Electrical Engineering, 2020, , 515-540.	0.3	1
1719	Internet of Things Management Based on Software Defined Networking: A Survey. International Journal of Wireless Information Networks, 2020, 27, 385-410.	1.8	24
1720	The Evolution of Smart Grids Begs Disaggregated Nodal Pricing. , 2016, , 267-280.		6
1721	Super Resolution Perception for Smart Meter Data. Information Sciences, 2020, 526, 263-273.	4.0	32
1722	A preference-based demand response mechanism for energy management in a microgrid. Journal of Cleaner Production, 2020, 255, 120034.	4.6	49
1724	Reliability analysis of cyberâ€physical microgrids: Study of gridâ€connected microgrids with communicationâ€based control systems. IET Generation, Transmission and Distribution, 2021, 15, 645-663.	1.4	11
1725	Resilient wireless sensor networks for cyber-physical systems. , 2016, , 239-267.		5
1726	Control and energy management system in microgrids. , 2017, , 109-133.		30
1727	DC microgrid in residential buildings. , 2018, , 367-388.		12
1728	Stochastic properties of the frequency dynamics in real and synthetic power grids. Physical Review Research, 2020, 2, .	1.3	18
1729	Reliability analysis for a multi-stack solid oxide fuel cell system subject to operation condition-dependent degradation. Journal of Quality in Maintenance Engineering, 2022, 28, 102-130.	1.0	1
1730	An overview of renewable energy and challenges of integrating renewable energy in a smart grid system in Turkey. , 2020, , .		3
1731	Stability and Total Harmonic Distortion Analysis with Performance of Grid-Tied PV Systems. , 2020, , .		6
1732	Advances in Solar Photovoltaic Grid Parity. , 2019, , .		10
1733	New Challenges in the Design of Microgrid Systems: Communication Networks, Cyberattacks, and Resilience. IEEE Electrification Magazine, 2020, 8, 98-106.	1.8	37
1734	Merging Microgrids for Optimal Distribution Grid Restoration under Explicit Communication Constraints. , 2020, , .		2
1735	An Ultra-Lightweight and Secure Scheme for Communications of Smart Meters and Neighborhood Gateways by Utilization of an ARM Cortex-M Microcontroller. IEEE Transactions on Smart Grid, 2018, 9, 6194-6205.	6.2	31

#	Article	IF	CITATIONS
1736	How to Bid the Cloud. , 2015, , .		79
1737	A Resilient Dynamic Gateway Selection Algorithm Based on Quality Aware Metrics for Smart Grids. , 2015, , .		6
1738	How to Bid the Cloud. Computer Communication Review, 2015, 45, 71-84.	1.5	59
1739	Energy minimum encrypted data aggregation scheme for WSN in smart grid. , 2019, , .		2
1740	Modeling the Seismic Impacts on Communication Networks in Smart Grid. International Journal of Distributed Sensor Networks, 2015, 11, 587640.	1.3	2
1741	Study on Security and Privacy in 5G-Enabled Applications. Wireless Communications and Mobile Computing, 2020, 2020, 1-15.	0.8	10
1743	Visualizing and gamifying consumption data for resource saving: challenges, lessons learnt and a research agenda for the future. Energy Informatics, 2019, 2, .	1.4	11
1744	A Novel LTE Scheduling Algorithm for Green Technology in Smart Grid. PLoS ONE, 2015, 10, e0121901.	1.1	20
1745	Redes inteligentes en el sistema eléctrico colombiano: Revisión de tema. Tecnura, 2017, 21, 119-137.	0.1	11
1746	An innovative learning approach for solar power forecasting using genetic algorithm and artificial neural network. Open Engineering, 2020, 10, 630-641.	0.7	24
1747	AN OPTIMIZATION FRAMEWORK FOR CLOUD-BASED DATA MANAGEMENT MODEL IN SMART GRID. International Journal of Research in Engineering and Technology, 2015, 04, 751-758.	0.1	3
1748	A power management and control strategy with grid-ancillary services for a microgrid based on DC Bus. International Review of Electrical Engineering, 2014, 9, 792.	0.1	15
1749	Adaptive Channel Access Control Solving Compound Problem of Hidden Nodes and Continuous Collisions among Periodic Data Flows. IEICE Transactions on Communications, 2019, E102.B, 2113-2125.	0.4	1
1750	Smart infrastructure: an emerging frontier for multidisciplinary research. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 2017, 170, 8-16.	1.1	36
1751	Digitalization and Ways for the Development of the Electric Energy Industry with the Participation of Consumers: New Challenges for Shaping the Investment Climate. Journal of Siberian Federal University - Humanities and Social Sciences, 2019, , 545-564.	0.2	5
1752	Self-Healing In Smart Grid: A Review. Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2018, 7, 492-503.	0.1	8
1753	Validation of a Distributed Energy Management Approach for Smart Grid Based on a Generic Colored Petri Nets Model. Journal of Clean Energy Technologies, 2018, 6, 20-25.	0.1	4
1754	Smart Grids and Smart Cities - A Systematic Mapping Study. Celal Bayar Universitesi Fen Bilimleri Dergisi, 0, , 227-233.	0.1	1

#	Article	IF	CITATIONS
1755	Design of Smart Grid Prosumer Communities via Online Social Networking Communities. FEBS Journal, 2012, 5, 544-556.	2.2	16
1756	Data Model Development for Security Information Sharing in Smart Grids. International Journal for Information Security Research, 2014, 4, 478-489.	0.3	1
1757	Development of a Home Energy Management System in Smart Grids: A Laboratory Test-bed and a Mobile Application. International Journal of Sustainable Energy Development, 2015, 4, 219-227.	0.4	2
1758	Using Entrepreneurial Marketing to Foster Reseller Adoption of Smart Micro-Grid Technology. Technology Innovation Management Review, 2015, 5, 5-16.	1.0	1
1759	A Review on Big Data Management and Decision-Making in Smart Grid. Power Electronics and Drives, 2019, 4, 1-13.	0.6	14
1760	Proof-of-PUF Enabled Blockchain: Concurrent Data and Device Security for Internet-of-Energy. Sensors, 2021, 21, 28.	2.1	22
1761	Rethinking the Framework of Smart Water System: A Review. Water (Switzerland), 2020, 12, 412.	1.2	62
1762	DEVELOPMENT OF AN EFFICIENT SMART GRID WITH ERROR CONTROL ALGORITHM. Journal of Electrical Engineering and Automation, 2019, 01, 1-11.	0.7	7
1763	SECURE AND SUSTAINABLE SMART GRID FRAMEWORK USING THE CLOUD COMPUTING. Journal of ISMAC, 2019, 01, 137-146.	2.2	3
1764	Authenticated Smart Powercomm: A Review. Information Technology Journal, 2014, 14, 10-15.	0.3	1
1765	How Can Industry 4.0 Contribute to Combatting Climate Change?. Revue D'Economie Industrielle, 2020, , 161-193.	0.4	6
1766	Optimized Energy Consumption and Demand Side Management in Smart Grid. Advances in Environmental Engineering and Green Technologies Book Series, 2016, , 1-25.	0.3	2
1767	Optimized Energy Consumption and Demand Side Management in Smart Grid. , 0, , 550-574.		5
1768	Future Directions to the Application of Distributed Fog Computing in Smart Grid Systems. Advances in Computer and Electrical Engineering Book Series, 0, , 162-195.	0.2	3
1769	Future Directions to the Application of Distributed Fog Computing in Smart Grid Systems. , 2019, , 2186-2212.		3
1770	Smart Grid Implementation of the Industrial Sector. International Journal of Energy Optimization and Engineering, 2019, 8, 1-14.	0.4	4
1771	A Privacy-Aware Data Aggregation Scheme for Smart Grid Based on Elliptic Curve Cryptography With Provable Security Against Internal Attacks. International Journal of Information Security and Privacy, 2019, 13, 109-138.	0.6	6
1772	Study of Smart Grid Communication Network Architectures and Technologies. Journal of Computer and Communications, 2019, 07, 19-29.	0.6	22

		CITATION REPORT		
#	Article	I	IF	Citations
1773	Holonic Architecture of the Smart Grid. Smart Grid and Renewable Energy, 2013, 04, 20	2-212.	0.7	25
1774	Insights from Stakeholders of Five Residential Smart Grid Pilot Projects in the Netherland Grid and Renewable Energy, 2016, 07, 1-15.	ls. Smart	0.7	11
1775	Making the World More Sustainable: Enabling Localized Energy Generation and Distribu Decentralized Smart Grid Systems. World Journal of Engineering and Technology, 2018,	tion on 06, 350-382.	0.3	16
1776	Analysis of Channel Transfer Functions in Power Line Communication System for Smart Home Area Network. Advances in Electrical and Computer Engineering, 2016, 16, 51-56	Metering and	0.5	25
1777	Optimization of Charge/Discharge Coordination to Satisfy Network Requirements Using Algorithms in Vehicle-to-Grid Concept. Advances in Electrical and Computer Engineering 121-130.	Heuristic , 2018, 18, 0	0.5	14
1778	Artificial Immunity Based Wound Healing Algorithm for Power Loss Optimization in Sma Advances in Electrical and Computer Engineering, 2020, 20, 11-18.	rt Grids.	0.5	3
1779	Citizens Collaboration to Minimize Power Costs in Smart Grids - A Game Theoretic Appro	oach. , 2015, , .		4
1780	Enhanced Markov-Difference Based Power Consumption Prediction for Smart Grids. Jour Electrical Engineering and Technology, 2017, 12, 1053-1063.	nal of	1.2	1
1781	Channel Coding and Receiver Design for Simultaneous Wireline Information and Power Open Journal of Power Electronics, 2021, 2, 545-558.	Fransfer. IEEE	4.0	8
1782	Smart Energy Management in Renewable Energy Systems. , 2021, , 1-1-1-24.			0
1783	A Novel GaN-Based Solid-State Circuit Breaker With Voltage Overshoot Suppression. IEE on Industrial Electronics, 2022, 69, 8949-8960.	E Transactions	5.2	14
1784	Personalized Privacy Preservation for Smart Grid. , 2021, , .			1
1785	Using IoT Data-Driven Analysis of Water Consumption to support Design for Sustainable during the COVID-19 Pandemic. , 2021, , .	? Behaviour		3
1786	Cognitive Dynamic System for AC State Estimation and Cyber-Attack Detection in Smar	: Grid. , 0, , .		0
1787	Data Compression Strategies for Use in Advanced Metering Infrastructure Networks. , O	,,.		1
1788	MSDA: multi-subset data aggregation scheme without trusted third party. Frontiers of C Science, 2022, 16, 1.	omputer	1.6	7
1789	Survey on blockchain for future smart grids: Technical aspects, applications, integration and future research. Energy Reports, 2021, 7, 6530-6564.	challenges	2.5	58
1790	Peak load minimization in smart grid by optimal coordinated ON–OFF scheduling of a compressors. Sustainable Energy, Grids and Networks, 2021, 28, 100545.	r conditioning	2.3	2

#	Article	IF	CITATIONS
1791	Node-ÂFailure and Islanding in National Grid Scale Electricity Distribution Networks. , 2012, , .		2
1792	Design and Implementation of Optical Fiber Communication System for Field Area Networks of Smart Grid. , 2013, , .		2
1794	Strategies of Diffusing Smart Grids for Low-carbon Green Growth: Grounded Theory Approach. The Journal of Information Systems, 2013, 22, 225-248.	0.0	0
1795	Control Strategy For Intelligent Grid With Distributed Generation During Grid Connected And Islanding Mode. I-manager S Journal on Power Systems Engineering, 2013, 1, 18-23.	0.1	2
1796	Modelagem de comandos de sincronização DNP3 em rede P2P por interface IEEE 802.15.4. , 0, , .		0
1797	Interconnected Autonomous Microgrids in Smart Grids with Self-Healing Capability. Green Energy and Technology, 2014, , 347-381.	0.4	1
1798	Game-Based Control Approach for Smart Grid. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 429-446.	0.3	0
1799	Game Theory for Smart Grid. Advances in Wireless Technologies and Telecommunication Book Series, 2014, , 146-157.	0.3	0
1800	Cost Benefit Analysis for the Renewable Installation in Inter-Intelligent Renewable Energy Network. IEEJ Transactions on Electronics, Information and Systems, 2014, 134, 1925-1933.	0.1	0
1802	On Proving Recoverability of Smart Electrical Grids. Lecture Notes in Computer Science, 2014, , 77-91.	1.0	3
1803	Forthcoming smart DC nano-grid for green buildings—A reflective vision. International Journal of Smart Grid and Clean Energy, 2014, , .	0.4	0
1805	Interconnection and Capacity Allocation for All-IP Networks: Walled Gardens or Full Integration?. SSRN Electronic Journal, 0, , .	0.4	2
1806	Smart Grid Testbed using SCADA Software and Xbee Wireless Communication. International Journal of Advanced Computer Science and Applications, 2015, 6, .	0.5	2
1807	Smart-Grid Based Real-Time Load Management Methodology for Power Deficient Systems. International Journal of Electronics and Electrical Engineering, 2015, 3, .	0.2	3
1808	Interconnecting Smart Grids and Clouds to save Energy. , 2015, , .		3
1809	Smart Grid. , 2015, , 1-30.		0
1810	Design and Analysis of a PLCC Based Home Automation System. International Journal of Science Technology and Society, 2015, 3, 36.	0.1	1
1811	Design and Analysis of a Sophisticated Malware Attack Against Smart Grid. Lecture Notes in Computer Science, 2015, , 130-139.	1.0	0

# 1812	ARTICLE Next-Generation Optical Access Networks. , 2015, , 5984-5997.	IF	CITATIONS
1813	A Modular and Flexible Network Architecture for Smart Grids. Lecture Notes in Computer Science, 2015, , 273-287.	1.0	0
1814	Analysis and Implementation of Semaphore Signalling in Railway Tracks. International Journal of Science Technology and Society, 2015, 3, 65.	0.1	0
1816	How Regulation Affects Energy Saving: Smart Grid Innovation in Tall Buildings. Lecture Notes in Computer Science, 2015, , 607-616.	1.0	2
1817	Consumer Concerns About Smart Meters. Lecture Notes in Computer Science, 2015, , 625-635.	1.0	1
1818	An Efficient Simulator for Fault Detection and Recovery in Smart Grids - FDIRSY. , 2015, , .		0
1819	Multipath Routing of Fragmented Data Transfer in a Smart Grid Environment. International Journal of Computer Applications, 2015, 111, 37-41.	0.2	0
1820	OFDMA Based Power Line Communication for Smart Grids. Przeglad Elektrotechniczny, 2015, 1, 133-136.	0.1	0
1821	- Transmission Power Allocation in a Cognitive Radio Network for Cellular Communication. , 2015, , 72-89.		0
1822	Raspberry Pi based Smart Home for Deployment in the Smart Grid. International Journal of Computer Applications, 2015, 119, 6-10.	0.2	4
1823	Cloud-Based Cost Optimization Model for Information Management of Cyber-Physical Systems. , 2015, , 371-392.		0
1825	A Survey of Recent Power Line Communication Technologies for Smart Micro Grid. International Journal of Software Engineering and Its Applications, 2015, 9, 251-258.	0.2	5
1826	Cloud-Based Cost Optimization Model for Information Management of Cyber-Physical Systems. , 2015, , 390-411.		0
1827	Global Smart Grid Transferability: Insights from Europe, the U.S., and China. Journal of Energy and Power Engineering, 2015, 9, .	0.2	1
1828	Efficient Detection Method for Data Integrity Attacks in Smart Grid. Lecture Notes in Computer Science, 2016, , 240-250.	1.0	1
1829	LTE-D2D Communications to Smart Grid Applications with Reliability and Latency Constraints. , 2016, , .		0
1830	Controllability Assessment for Cascade Effects in ICT-enabled Power Grids. Lecture Notes in Computer Science, 2016, , 147-158.	1.0	0
1831	A Survey of Communication Technologies for the Energy Local Area Network in the Energy Internet. , 2016, , .		1

		CITATION RE	PORT	
#	Article		IF	CITATIONS
1833	Fundamentals of Power Systems. Studies in Systems, Decision and Control, 2016, , 1-1	13.	0.8	3
1834	Signal Processing Techniques in Smart Grids. Advances in Environmental Engineering a Technologies Book Series, 2016, , 273-297.	ind Green	0.3	0
1835	Implementation of Improved Control Strategy of DC-AC Converter using Delta-Sigma N Advances in Environmental Engineering and Green Technologies Book Series, 2016, , 2	Modulator. 149-272.	0.3	0
1836	Smart Grid. Advances in Computer and Electrical Engineering Book Series, 2016, , 121	-146.	0.2	1
1838	An Adaptive Game Theoretic Framework for Self-coexistence among Cognitive Radio E Grid Networks. , 2016, , 349-367.	nabled Smart		0
1839	An Expert Committee Evaluation for Load Forecasting in a Smart Grid Environment. Sp Proceedings in Energy, 2017, , 135-141.	ringer	0.2	0
1840	Efficient Energy Performance within Smart Grid. Smart Grid and Renewable Energy, 20	17, 08, 75-86.	0.7	1
1841	Adopting DDS to Smart Grids: Towards Reliable Data Communication. Communication and Information Science, 2017, , 154-169.	is in Computer	0.4	2
1842	Signal Processing Techniques in Smart Grids. , 2017, , 1278-1302.			0
1843	10 Gas for Heat, Electricity, and Mobile Applications. , 2017, , 613-674.			0
1844	ê°€ì•ìš© ì—ë" î§€ê €ë¦ ¬ìœìФ.œìē ì ~ìš© ìēë, ë¶,,ì,,• Productivity Review, 2017, 31, 19.	3-225.	0.0	0
1845	On bidding strategies for competitive generators based on PSO method under incomp , 2017, , .	lete information.		0
1846	Integrating renewable energy sources into smart grids: opportunities and challenges. ,	2017, , 251-260.		1
1847	Comparison of BFA and EWA in Home Energy Management System Using RTP. Lecture Engineering and Communications Technologies, 2018, , 270-282.	Notes on Data	0.5	1
1848	Demand Side Optimization in Smart Grid Using Harmony Search Algorithm and Social Algorithm. Lecture Notes on Data Engineering and Communications Technologies, 202		0.5	1
1850	ĐŸĐ¾Đ²Ñ‹Ñ^ĐµĐ½Đ,е ÑĐ½ĐµÑ€Đ³Đ¾ÑÑ"Ñ"ĐµĐºÑ,Đ,Đ²Đ½Đ¾ÑÑ,Đ, Ñ…Đ¾Đ;	»Đ¾ĐĐ¸Đ»ÑŒĐ½Ñ‹Ñ ř	ĺĐૢŴĨð,еĐ	⁰¹ ∕4 Đ² Đ _s Đ ¹ ∕
1851	Adjustment of Model Parameters to Estimate Distribution Transformers Remaining Life Grid and Renewable Energy, 2018, 09, 151-170.	espan. Smart	0.7	2
1852	ICS/SCADA System Security for CPS. Studies in Computational Intelligence, 2018, , 89	-113.	0.7	6

#	Article	IF	CITATIONS
1853	Trust Management Issues for Sensors Security and Privacy in the Smart Grid. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 86-103.	0.4	0
1854	Green-Aware Token Based Demand Scheduling for Electricity Markets. Smart Grid and Renewable Energy, 2018, 09, 16-31.	0.7	0
1855	Data Privacy Protection in Smart Grid. Springer Briefs in Electrical and Computer Engineering, 2018, , 67-85.	0.3	0
1856	Anomaly Detection for Power Grid Based on Network Flow. Lecture Notes in Computer Science, 2018, , 437-445.	1.0	Ο
1857	Research and Deployment of Power User Behavior Analysis Platform Based on Big Data. Smart Grid, 2018, 08, 565-570.	0.0	0
1858	Autonomous Distributed Energy Management for Intelligent Microgrids. Journal of Clean Energy Technologies, 2018, 6, 31-40.	0.1	2
1859	DSM for Energy Optimization and Communications Within Smart Grid CPSs. Advances in Computer and Electrical Engineering Book Series, 2018, , 1-25.	0.2	0
1860	Optimization of Routing in Smart Grids Using Intelligent Techniques. SSRN Electronic Journal, 0, , .	0.4	Ο
1861	Computational Viability of Fog Methodologies in IoT Enabled Smart City Architectures-A Smart Grid Case Study. EAI Endorsed Transactions on Smart Cities, 2018, 2, 154104.	0.6	0
1862	Finding the Better Solutions for the Smart Meter Gateway Placement in a Power Distribution System Through an Evolutionary Algorithm. Smart Innovation, Systems and Technologies, 2019, , 321-330.	0.5	0
1863	ĐžĐ±Đ»Đ°Ñ‡Đ½Ñ‹Đ¹ ĐºĐ¾Đ¼Đ¿ÑŒÑŽÑ,Đ,Đ½Đ³ ĐʹĐ»Ñ•ÑĐ½Đ,жĐμĐ½Đ,Ñ•Đ¿Đ¾Ñ,Ñ€ĐμблĐμĐ½Đ,Ñ•Ň	Ň Ðŀ∕ø ер	ĐởĐ,Đ,Đ²Ñ
1864	CRRP Analysis of Cloud Computing in Smart Grid. Advances in Intelligent Systems and Computing, 2019, , 64-74.	0.5	1
1865	Desempeño de Controladores Inalámbricos Codificados Aplicados en Turbinas Eólicas Conectadas a una Smart Grid. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2018, 15, 448.	0.6	1
1866	Smart Grid Communication Based on IEEE 2030 Standard. , 2019, , 1-7.		0
1867	Prospection and Retrospection. Lecture Notes in Intelligent Transportation and Infrastructure, 2019, , 155-187.	0.3	1
1868	Optimizing Electricity Load and Cost for Demand Side Management in Smart Grid. Mehran University Research Journal of Engineering and Technology, 2018, 37, 633-644.	0.3	1
1869	Optimizing Electricity Load and Cost for Demand Side Management in Smart Grid. Mehran University Research Journal of Engineering and Technology, 2018, 37, 633-644.	0.3	1
1870	Konvergenzerkennung im verteilten Scheduling erneuerbarer Energieerzeugung im Smart Grid. , 2019, , 807-820.		0

#	Article	IF	CITATIONS
1871	Cryptographic Reverse Firewalls for Identity-Based Encryption. Communications in Computer and Information Science, 2019, , 36-52.	0.4	4
1872	An Efficient Attribute Based Encryption Scheme in Smart Grid. Lecture Notes in Computer Science, 2019, , 159-172.	1.0	1
1873	Game Theoretic Equilibrium Analysis of Energy Auction in Microgrid. International Journal of Electrical and Electronic Engineering and Telecommunications, 2019, , 39-44.	3.4	13
1874	Robustness of Delayed Multistable Systems. Advances in Delays and Dynamics, 2019, , 83-97.	0.4	0
1875	Batch Verification of Linkable Ring Signature in Smart Grid. Communications in Computer and Information Science, 2019, , 161-176.	0.4	2
1876	Towards Attaining Reliable and Efficient Green Cloud Computing Using Micro-Smart Grids to Power Internet Data Center. Journal of Computer and Communications, 2019, 07, 195-205.	0.6	4
1877	Energy Scheduling of Residential Appliances by a Pigeon-Inspired Algorithm under a Load Shaping Demand Response Program. International Journal on Electrical Engineering and Informatics, 2019, 11, 18-34.	0.3	2
1879	Management Challenges of Smart Grids. Ecoproduction, 2020, , 393-415.	0.8	0
1880	Método de Autenticação Multi-canal Baseado em Proximidade. , 0, , .		0
1881	Hierarchical control system for a flexible microgrid with dynamic boundary: design, implementation and testing. IET Smart Grid, 2019, 2, 669-676.	1.5	6
1882	Fractal IoT. , 2019, , .		6
1884	Enhanced TCP to Improve the Network Communication Performance in Smart Metering Applications. Lecture Notes in Networks and Systems, 2020, , 547-555.	0.5	0
1885	Forecasting-Based Adaptive Optimized Dispatch in Smart Grid Online. International Journal of Modern Nonlinear Theory and Application, 2020, 09, 1-18.	0.1	0
1886	Smart Grid Communication Based on IEEE 2030 Standard. , 2020, , 1311-1318.		0
1887	Study of IPv6 Protocol in the Data Model of the Smart Grid Distribution Domain. IngenierÃa Solidaria, 2020, 16, .	0.1	0
1889	Prevention of Replay Attack for Isolated Smart Grid. Advances in Intelligent Systems and Computing, 2021, , 251-258.	0.5	4
1891	Decentralizing Privacy-Preserving Data Aggregation Scheme Using Blockchain in Smart Grid. Communications in Computer and Information Science, 2020, , 131-142.	0.4	1
1893	Development of Smart Grid System. , 2020, , .		1

#	Article	IF	CITATIONS
1894	An Effective Optimizer based on Global and Local Searched Experiences for Short-term Electricity Consumption Forecasting. , 2020, , .		0
1895	A Survey on the Development of Smart Grid in China. , 2020, , .		1
1896	Demand Response in Smart Residential Buildings. Algorithms for Intelligent Systems, 2021, , 361-390.	0.5	0
1897	An Energy Operating System Adaptive for The Sustainable And Green Energy. , 2020, , .		0
1898	Research on the Transmission Characteristics of Low-voltage Power Line Communication Channel. , 2020, , .		0
1899	The Stackelberg Game Park Agent Pricing Strategy Considering the Thermal Inertia of Buildings. , 2020, , .		0
1900	Electrical Power Consumption Profile Modelling of Air Conditioner for Smart Grid Load Management. , 2020, , .		0
1901	Towards a Testbed for Dependable Power Distribution Grids. Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, 2020, 9, 1865-1871.	0.1	1
1902	Price-Based Residential Demand Response Management in Smart Grids: A Reinforcement Learning-Based Approach. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 123-134.	8.5	33
1903	Flexible multijunction solar cells embedded inside smart dust modules for outdoor applications to Smart Grids. Applied Energy, 2022, 306, 117970.	5.1	3
1904	An efficient authenticated key agreement scheme supporting privacy-preservation for smart grid communication. Electric Power Systems Research, 2022, 203, 107630.	2.1	12
1905	A holistic review on Cyber-Physical Power System (CPPS) testbeds for secure and sustainable electric power grid – Part – I: Background on CPPS and necessity of CPPS testbeds. International Journal of Electrical Power and Energy Systems, 2022, 136, 107718.	3.3	14
1906	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
1907	Bidirectional DC–AC Converter-Based Communication Solution for Microgrid. Power Electronics and Drives, 2020, 5, 177-188.	0.6	0
1908	Distributed Online Optimization of Edge Computing With Mixed Power Supply of Renewable Energy and Smart Grid. IEEE Transactions on Communications, 2022, 70, 389-403.	4.9	8
1909	Energy Scheduling of a Household with Integration of Renewable Energy Considering Different Dynamic Pricing Schemes. Algorithms for Intelligent Systems, 2020, , 1327-1336.	0.5	0
1910	SDN-based cross layer resilience approach for secondary distribution power grid automation: Review and recommendation. International Journal of Smart Grid and Clean Energy, 2020, , 69-82.	0.4	0
1911	Identifying Key Business Processes that Can Benefit from Industry 4.0 in the Gas Sector. IFIP Advances in Information and Communication Technology, 2020, , 373-380.	0.5	1

		CITATION REPOR	RT	
#	Article	IF		CITATIONS
1912	Al and Security of Critical Infrastructure. , 2020, , 7-36.			6
1913	Burst Traffic Awareness WRR Scheduling Algorithm in Wide Area Network for Smart Gr Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunicatio Engineering, 2020, , 117-128.		2	1
1914	A New Framework for Increasing the Sustainability of Infrastructure Measurement of Sı Kiyfiyyat Va Bahrah/varÄ«-i á¹£anÌ'at-i Barq-i ĪrÄn, 2020, 8, 10-21.	mart Grid. 0.	1	0
1915	Data Leakage Prevention System for Smart Grid. Communications in Computer and Inf Science, 2020, , 541-549.	ormation O.	4	0
1916	Leveraging SDN for Smart City Applications Support. Communications in Computer an Science, 2020, , 95-119.	d Information O.	4	2
1917	Internet of Things Technologies for Smart Grid. Advances in Computer and Electrical Er Book Series, 2020, , 256-284.	ngineering 0.	2	0
1918	Information Communication Technologies. , 2020, , 931-931.			0
1919	MDRP: An Energy-Efficient Multi-Disjoint Routing protocol in WSNs for Smart Grids. Int Journal on Smart Sensing and Intelligent Systems, 2020, 13, 1-15.	ernational 0.	4	0
1920	Deploying Smart Micro Grids for Researchers: a Practical Approach. , 2021, , .			1
1922	Household electricity usage optimization using MPC and mixed integer programming. Periodica, 2020, 15, 136-147.	Pollack o.	2	2
1923	IoT Based Protection of Microgrid With Grid-Connected and Islanded mode Using Wave 2021, , .	elet Approach. ,		2
1924	A Review of Big Data Resource Management: Using Smart Grid Systems as a Case Stud Communications and Mobile Computing, 2021, 2021, 1-18.	y. Wireless 0.	8	9
1925	Overview of Signal Processing and Machine Learning for Smart Grid Condition Monitor Electronics (Switzerland), 2021, 10, 2725.	ing. 1.8	8	20
1926	Threat landscape for smart grid systems. , 2020, , .			10
1927	Research on the optimised transceiver impedances for lowâ€voltage broadband PLC sy Communications, 2020, 14, 2601-2606.	stem. IET 1.8	5	1
1928	Smart Cities, Smart Grids, and Smart Grid Analytics. Advances in Computer and Electric Book Series, 2018, , 103-137.	al Engineering 0.	2	1
1929	Communication and Security Technologies for Smart Grid. , 0, , 305-331.			1
1931	Small-signal stability analysis of smart grids considering high penetration of power elec converters and energy markets. , 2020, , .	tronics		0

#	Article	IF	CITATIONS
1932	A Capacitance Measurement Device for Running Hardware Devices and Its Evaluations. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2020, E103.A, 1018-1027.	0.2	0
1933	The Impact and Application of Smart Grid on Global Energy Delivery. Asian Journal of Interdisciplinary Research, 0, , 78-91.	0.0	0
1934	A Strategy and Architecture Based on Big Data for Power Internet of Things. , 2020, , .		0
1935	Design of a Management Algorithm for Energy Trading in Microgrids. Recent Advances in Electrical and Electronic Engineering, 2020, 13, 1028-1040.	0.2	0
1936	Virtualization of Protection Systems - Tests Performed on a Large Environment Based on Data Center Solutions. IEEE Transactions on Power Delivery, 2022, 37, 3401-3411.	2.9	6
1937	Cooling seasonal performance of inverter air conditioner using model prediction control for demand response. Energy and Buildings, 2022, 256, 111708.	3.1	19
1938	Adversarial attacks on deep learning models in smart grids. Energy Reports, 2022, 8, 123-129.	2.5	9
1939	Improving Quality of Smart Grid Data by Functional Data Analysis. , 2021, , .		0
1940	Smart Grid Information Processes Using IoT and Big Data with Cloud and Edge Computing. , 2021, , .		2
1941	Al-Enabled Quality Prediction of 5G Wireless Network in Smart Grid. , 2021, , .		1
1942	A holistic review on Cyber-Physical Power System (CPPS) testbeds for secure and sustainable electric power grid – Part – II: Classification, overview and assessment of CPPS testbeds. International Journal of Electrical Power and Energy Systems, 2022, 137, 107721.	3.3	9
1943	Smart Grid: A Survey. Green Energy and Technology, 2022, , 147-159.	0.4	1
1944	Privacy-Preserving Push-sum Average Consensus Algorithm over Directed Graph Via State Decomposition. , 2021, , .		1
1945	Demonstration of Blockchain Based Peer to Peer Energy Trading System with Real-Life Used PHEV and HEMS Charge Control. Energies, 2021, 14, 7484.	1.6	11
1946	Aggregating buildings as a virtual power plant: Architectural design, supporting technologies, and case studies. IET Energy Systems Integration, 2022, 4, 423-435.	1.1	5
1947	Privacy Preserving distributed smart grid system based on Hyperledger Fabric and Wireguard. International Journal of Network Management, 2023, 33, e2193.	1.4	3
1948	Differential Privacy for IoT-Enabled Critical Infrastructure: A Comprehensive Survey. IEEE Access, 2021, 9, 153276-153304.	2.6	27
1949	A Multi-Stage Information Protection Scheme for CDA-Based Energy Trading Market in Smart Grids. IEEE Transactions on Smart Grid, 2022, 13, 2305-2317.	6.2	2

#	Article	IF	CITATIONS
1950	PETS: P2P Energy Trading Scheduling Scheme for Electric Vehicles in Smart Grid Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14361-14374.	4.7	10
1952	A Review on Microgrids' Challenges & Perspectives. IEEE Access, 2021, 9, 166502-166517.	2.6	182
1953	Practical Insights to Design a Blockchain-Based Energy Trading Platform. IEEE Access, 2021, 9, 154827-154844.	2.6	10
1954	A refined consumer behavior model for energy systems: Application to the pricing and energy-efficiency problems. Applied Energy, 2022, 308, 118239.	5.1	2
1955	A priority-based approach for peer-to-peer energy trading using cooperative game theory in local energy community. International Journal of Electrical Power and Energy Systems, 2022, 137, 107865.	3.3	43
1956	Augmenting Zero Trust Network Architecture to enhance security in virtual power plants. Energy Reports, 2022, 8, 1309-1320.	2.5	16
1957	PMU Reporting Rate optimization for Data Transfer Enhancement in Wide Area Monitoring Systems. , 2020, , .		1
1958	Fault Detection in Active Hybrid Distribution Networks: Overcoming Uncertainty. , 2020, , .		0
1959	Design of an economical and reliable net-metering device for residential consumption measurement using loT. , 2020, , .		2
1960	A Novel Multi-agent Cooperative Reinforcement Learning Method for Home Energy Management under a Peak Power-limiting. , 2020, , .		5
1961	Localization of Voltage Sag Sources Using Convolutional Neural Network in IEEE 34-bus System. , 2020, , .		0
1962	Multi-agent Deep Reinforcement Learning Algorithm for Distributed Economic Dispatch in Smart Grid. , 2020, , .		1
1963	The Power Measuring Method for Individual PV Using Frequncy Modulation on Single Line. , 2020, , .		0
1964	A Host-based Intrusion Detection Model Based on OS Diversity for SCADA. , 2020, , .		9
1965	Holistic Multi-timescale Attack Resilient Control Framework for Power Electronics Dominated Grid. , 2020, , .		9
1966	Q-Learning Algorithm Based Topology Control of Power Line Communication Networks. , 2020, , .		1
1967	A Novel Smart Metering Approaches for the Load and Photovoltaic Generation Measurement Arwa ben farhat, Electrical engineering department. , 2020, , .		1
1968	Smart Grid Networks enabled Electricity-Theft Detection and Fault Tolerance. , 2020, , .		2

#	Article	IF	CITATIONS
1969	Optimal Demand Management for Smart Distribution Networks. , 2020, , .		0
1970	Designing of Smart Net Energy Meter with Multi-Mode Tariff Computations for the Diverse Energy Prosumers in Pakistan. , 2020, , .		2
1971	Developing Faster Restoration Technique for Industrial Microgrid under Post-Isolation Scenarios. , 2020, , .		0
1972	Determining a tight worst-case delay of switched Ethernet network in IEC 61850 architectures. , 2020, ,		1
1973	Link Failure Analysis and Routing Planning for Fiber Network of Smart Grid. , 2020, , .		2
1974	Quantized Reservoir Computing on Edge Devices for Communication Applications. , 2020, , .		2
1975	Containerization: For Over-the-Air Programming of Field Deployed Internet-of-Energy Based on Cost Effective LPWAN. , 2020, , .		0
1976	Fog Computing enabled Smart Grid Blockchain Architecture and Performance Optimization with DRL Approach. , 2020, , .		2
1977	LED LIGHTING SYSTEM IN MIXED DC AND AC NETWORKS. Vestnik Ûžno-Uralʹskogo Gosudarstvennogo Universiteta: Seriâ Ã^nergetika, 2021, 21, 73-81.	1.0	0
1979	A Smart Grid Intrusion Detection System Based on Optimization. , 2021, , .		1
1981	A Smart Home Demand Response System based on Artificial Neural Networks Augmented with Constraint Satisfaction Heuristic. , 2021, , .		1
1983	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
1984	Novel scheme for reducing communication data traffic in advanced metering infrastructure networks. Journal of Supercomputing, 2022, 78, 8219-8246.	2.4	0
1986	A wireless coded modulated FCS-MPC DPC for renewable energy sources in smart grid environment. , 2022, , 67-83.		0
1987	Blockchain-Based Secure Energy Trading With Mutual Verifiable Fairness in a Smart Community. IEEE Transactions on Industrial Informatics, 2022, 18, 7412-7422.	7.2	15
1988	Design, Deployment and Performance Evaluation of an IoT Based Smart Energy Management System for Demand Side Management in Smart Grid. IEEE Access, 2022, 10, 15261-15278.	2.6	36
1990	A Distributed Proximal Primal–Dual Algorithm for Energy Management With Transmission Losses in Smart Grid. IEEE Transactions on Industrial Informatics, 2022, 18, 7608-7618.	7.2	7
1992	Predicting Residential Energy Consumption by Explainable Deep Learning with Long-Term and Short-Term Latent Variables. Cybernetics and Systems. 2023, 54, 270-285.	1.6	3

#	Article	IF	CITATIONS
1993	Automated Demand Response in Smart Distribution Grid: A Review on Metering Infrastructure, Communication Technology and Optimization Models. Electric Power Systems Research, 2022, 206, 107835.	2.1	24
1994	EVs vehicle-to-grid implementation through virtual power plants. , 2022, , 299-324.		4
1995	A Mutual Authentication and Key Agreement Protocol for Smart Grid Environment Using Lattice. Algorithms for Intelligent Systems, 2022, , 239-248.	0.5	7
1996	Research on Zoning, Optimization, Stability, and Nonlinear Control of Wireless Network in Power Grid Communication. Journal of Interconnection Networks, 2022, 22, .	0.6	4
1997	Reliability aspects in microgrid design and planning: Status and power electronics-induced challenges. Renewable and Sustainable Energy Reviews, 2022, 159, 112127.	8.2	58
1998	Dynamic Reliability Based Multicast Routing Scheme of Power Line Communication Networks. , 2021, , .		0
2001	Data-Integrity Aware Stochastic Model for Cascading Failures in Power Grids. IEEE Transactions on Power Systems, 2023, 38, 142-154.	4.6	0
2002	Target-Value-Competition-Based Multi-Agent Deep Reinforcement Learning Algorithm for Distributed Nonconvex Economic Dispatch. IEEE Transactions on Power Systems, 2023, 38, 204-217.	4.6	10
2003	Effective Integratıon of Distributed Generation System in Smart Grid. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 243-251.	0.5	1
2004	Gridtopo-GAN for Distribution System Topology Identification. IEEE Transactions on Industrial Informatics, 2023, 19, 5356-5366.	7.2	8
2005	VNF Orchestration and Power-Disjoint Traffic Flow Routing for Optimal Communication Robustness in Smart Grid With Cyber-Physical Interdependence. IEEE Transactions on Network and Service Management, 2022, 19, 4479-4490.	3.2	3
2007	Robust Optimal Control for Demand Side Management of Multi-Carrier Microgrids. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1338-1351.	3.4	43
2008	Gateway Redundancy Protocols in the Smart Grid. , 2022, , .		1
2009	Smart grid metering: security, privacy, and open challenges. , 2022, , 255-272.		0
2010	Research on Electrical Equipment Monitoring and Early Warning System Based on Internet of Things Technology. Mathematical Problems in Engineering, 2022, 2022, 1-12.	0.6	6
2011	Energy Sustainability of a Cluster of Buildings with the Application of Smart Grids and the Decentralization of Renewable Energy Sources. Energies, 2022, 15, 1649.	1.6	4
2012	Implementation and Test of an IEC 61850-Based Automation Framework for the Automated Data Model Integration of DES (ADMID) into DSO SCADA. Energies, 2022, 15, 1552.	1.6	1
2014	Optimal hybrid participation of customers in a smart micro-grid based on day-ahead electrical market. Artificial Intelligence Review, 2022, 55, 5891-5915.	9.7	19

		CITATION RE	EPORT	
#	ARTICLE		IF	CITATIONS
2015	Power Electronics for Modern Sustainable Power Systems: Distributed Generation, Micr Smart Grids—A Review. Sustainability, 2022, 14, 3597.	ogrias and	1.6	31
2016	Distributed generation monitoring: a cost-effective Raspberry Pi-based device. , 2022, ,			3
2017	Smart grid reliability evaluation and assessment. Kybernetes, 2023, 52, 3261-3291.		1.2	3
2018	Data redundancy management for leaf-edges in connected environments. Computing (Vienna/New) Tj ETQq1 1 (0.784314 3.2	rg&T /Overlo
2019	Privacy-preserving dynamic average consensus via state decomposition: Case study on formation control. Automatica, 2022, 139, 110182.	multi-robot	3.0	12
2020	Smart Grid Cost Optimization: Comparing Bellman and Genetic Algorithms. , 2021, , .			5
2021	Power Line Communication Parameters in Smart Grid for Different Power Transmission	Lines. , 2021, , .		1
2022	Machine Learning Based Intrusion Detection System for Real-Time Smart Grid Security.	, 2021, , .		0
2023	Adaptive Power Control Scheme for Noise Suppressing in Quantum-Secured Distribution Communication Networks. , 2021, , .	n		0
2024	Optimal Management of the Peak Power Penalty for Smart Grids Using MPC-based Reir Learning. , 2021, , .	forcement		7
2025	Strategies for Reducing Traffic Volume and Security on Smart Grid. , 2021, , .			0
2026	Robustness Evaluation of a WAMPAC Scheme Considering Problems with Communicat .	ion Links. , 2021, ,		1
2027	Power Quality Issues Associated with Smart Grid: A Review. , 2021, , .			2
2028	Adaptive Load Identification Considering Effects of Harmonics and Voltage Variations. ,	2021,,.		0
2029	Optimal Layout Model of Distribution Automation Terminals Based on Improved Quant Algorithm. , 2021, , .	um Genetic		1
2030	Self-Explosion Defect Detection Method of Glass Insulator Based on YOLOv4. , 2021, , .			1
2031	Design of a Partially Grid-Connected Photovoltaic Microgrid Using IoT Technology. Appl (Switzerland), 2021, 11, 11651.	ied Sciences	1.3	5
2032	A Reinforcement Learning-Based Detection Method for False Data Injection Attack in D Grid. , 2021, , .	stributed Smart		0

#	Article	IF	Citations
2033	Consumer Energy Management in Residential Distribution Power System Considering Consumer's Privacy. , 2021, , .		4
2034	A micro grid information architecture with open source components. , 2021, , .		1
2035	Design of a Patrol Robot Based on the Plug-In Service Architecture. , 2021, , .		0
2036	Systematic review on the smart energy transmission through "SMART GRID" - An application of IoT. , 2021, , .		2
2037	Privacy-Preserving Average Consensus in Finite Time. , 2021, , .		1
2038	Tackling Climate Change with Machine Learning. ACM Computing Surveys, 2023, 55, 1-96.	16.1	195
2039	IoET-SG: Integrating internet of energy things with smart grid. , 2022, , 49-61.		0
2040	Week Ahead Electricity Power and Price Forecasting Using Improved DenseNet-121 Method. Computers, Materials and Continua, 2022, 72, 4249-4265.	1.5	2
2041	Electricity Theft Detection in Smart Grids Based on Deep Neural Network. IEEE Access, 2022, 10, 39638-39655.	2.6	42
2042	Understanding Microgrid Sustainability: A Systemic and Comprehensive Review. Energies, 2022, 15, 2906.	1.6	15
2043	Delineating Effluent Exposure and Cumulative Ecotoxicological Risk of Metals Downstream of a Saskatchewan Uranium Mill Using Autonomous Sensors. Environmental Toxicology and Chemistry, 2022, 41, 1765-1777.	2.2	1
2045	Closed-loop home energy management system with renewable energy sources in a smart grid: A comprehensive review. Journal of Energy Storage, 2022, 50, 104609.	3.9	44
2046	Smart grids co-simulations: Survey & research directions. Sustainable Computing: Informatics and Systems, 2022, 35, 100726.	1.6	6
2047	Real-time pricing for smart grid considering energy complementarity of a microgrid interacting with the large grid. International Journal of Electrical Power and Energy Systems, 2022, 141, 108217.	3.3	12
2048	Decision support system for long-term reinforcement planning of distribution networks. Electric Power Systems Research, 2022, 209, 107999.	2.1	4
2051	Smart Grid Security and Privacy: From Conventional to Machine Learning Issues (Threats and) Tj ETQq1 1 0.7843	14.rgBT /C 2.g	Overlock 10
2052	Wearable Cyberphysical Systems for Biomedicine. , 2022, , .		0
2053	FDI Attack Detection at the Edge of Smart Grids Based on Classification of Predicted Residuals. IEEE Transactions on Industrial Informatics, 2022, 18, 9302-9311.	7.2	10

#	Article	IF	Citations
2055	Demand Response Mechanism in User-Centric Markets Integrated with Electric Vehicles. , 2022, , .		2
2056	Distributed Secondary Control for Voltage Restoration of ESSs in a DC Microgrid. , 2022, , .		0
2057	Forecasting of Short-Term Load Using the MFF-SAM-GCN Model. Energies, 2022, 15, 3140.	1.6	12
2058	Towards a Blockchain-Based Peer-to-Peer Energy Marketplace. Energies, 2022, 15, 3046.	1.6	15
2059	A privacy-preserving data aggregation scheme with fault tolerance for smart grid based on blockchain. , 2022, , .		0
2060	Cybersecurity Roadmap for Active Buildings. Green Energy and Technology, 2022, , 219-249.	0.4	2
2061	Cluster Automation System for Dynamic Grid Control at Distribution Level. , 2022, , .		5
2064	Detection and Prevention of False Data Injection Attacks in the Measurement Infrastructure of Smart Grids. Sustainability, 2022, 14, 6407.	1.6	7
2065	Smart Grids and Smart Buildings. , 2022, , 2215-2270.		0
2066	A Deep Learning Model for ProbabilisticÂShort-Term Load and Pv Forecasting. SSRN Electronic Journal, 0, , .	0.4	0
2067	Harnessing Solar Energy for Sustainable Development of Livelihoods. , 2022, , 1249-1284.		1
2068	Optimal Task Offloading and Resource Allocation for C-NOMA Heterogeneous Air-Ground Integrated Power Internet of Things Networks. IEEE Transactions on Wireless Communications, 2022, 21, 9276-9292.	6.1	22
2069	Analysis of NOMA based UAV assisted short-packet communication system and blocklength minimization for IoT applications. Wireless Networks, 0, , .	2.0	0
2070	An integrated technical, economic, and environmental framework for evaluating the rooftop photovoltaic potential of old residential buildings. Journal of Environmental Management, 2022, 317, 115296.	3.8	84
2071	Trends of Using Blockchain Technology in the Smart Grid. , 2021, , .		2
2072	Optimization of Distribution Network and Mobile Network With Interactive Balance of Flexibility and Power. IEEE Transactions on Power Systems, 2023, 38, 2512-2524.	4.6	5
2073	Noncooperative Equilibrium-Seeking in Distributed Energy Systems Under AC Power Flow Nonlinear Constraints. IEEE Transactions on Control of Network Systems, 2022, 9, 1731-1742.	2.4	28
2074	Mechanisms Regulating Energy Homeostasis in Plant Cells and Their Potential to Inspire Electrical Microgrids Models. Biomimetics, 2022, 7, 83.	1.5	2

#	Article	IF	CITATIONS
2075	Fairness vs welfare. , 2022, , .		1
2076	Platform for transverse evaluation of control strategies for multi-energy smart grids. Smart Energy, 2022, 7, 100079.	2.6	6
2077	A Research Trend on Anonymous Signature and Authentication Methods for Privacy Invasion Preventability on Smart Grid and Power Plant Environments. Energies, 2022, 15, 4363.	1.6	3
2078	Privacy-Preserving Outsourcing Algorithms for Multidimensional Data Encryption in Smart Grids. Sensors, 2022, 22, 4365.	2.1	6
2080	A Novel Unsupervised Data-Driven Method for Electricity Theft Detection in AMI Using Observer Meters. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	18
2081	Dynamic Encryption of Power Internet of Things Data Based on National Secret Algorithm. Communications in Computer and Information Science, 2022, , 518-528.	0.4	1
2082	LiDAR Point Cloud Tower Type Identification Method for Overhead Transmission Line Tower. Geomatics Science and Technology, 2022, 10, 161-172.	0.2	0
2083	Electricity-Theft Detection in Smart Grids Using Wireless Sensor Networks. , 2022, , .		0
2084	The Role of Power Electronics in Renewable Energy System. , 2022, , .		2
2085	The Impact of Communication Technologies on the Smart Grid. , 2022, , .		2
2086	Edge-Computing Oriented Robust Routing Scheme in PLC-IoT Networks. , 2022, , .		0
2087	A Perspective on Research Initiatives in Cybersecurity Engineering for Future SmartGrids. , 2022, , .		0
2088	Trustworthy Distributed Intelligence for Smart Cities. , 2022, , .		0
2089	Security Analysis of Smart Grids. Security and Communication Networks, 2022, 2022, 1-11.	1.0	2
2090	Analyzing Data Privacy for Edge Systems. , 2022, , .		1
2091	PMU Spoof Detection via Image Classification Methodology against Repeated Value Attacks by using Deep Learning. , 2022, , .		1
2092	An Integration of IoT, IoC, and IoE towards Building a Green Society. Scientific Programming, 2022, 2022, 1-8.	0.5	0
2093	Power Line Communication and Sensing Using Time Series Forecasting. Sensors, 2022, 22, 5320.	2.1	5

#	Article	IF	CITATIONS
2094	Hierarchical Optimization and Grid Scheduling Model for Energy Internet: A Genetic Algorithm-Based Layered Approach. Frontiers in Energy Research, 0, 10, .	1.2	0
2095	A holistic educational platform for the study of the smart grid. International Journal on Interactive Design and Manufacturing, 0, , .	1.3	1
2096	Blockchain for Modern Applications: A Survey. Sensors, 2022, 22, 5274.	2.1	58
2097	A novel Hypertuned Prophet based power saving approach for IoT enabled smart homes. Transactions on Emerging Telecommunications Technologies, 2023, 34, .	2.6	0
2098	Quantized memory proportional–integral control of active power sharing and frequency regulation in island microgrid under abnormal cyber attacks. Applied Energy, 2022, 322, 119540.	5.1	31
2099	Fast Electrical Demand Optimization Under Real-Time Pricing. Proceedings of the AAAI Conference on Artificial Intelligence, 2017, 31, .	3.6	0
2102	Protecting infrastructure performance from disinformation attacks. Scientific Reports, 2022, 12, .	1.6	2
2103	Economic model predictive control for energy management of a microgrid connected to the main electrical grid. Journal of Process Control, 2022, 117, 40-51.	1.7	6
2104	Agent Cooperatives for Effective Power Consumption Shifting. Proceedings of the AAAI Conference on Artificial Intelligence, 2013, 27, 1263-1269.	3.6	13
2105	Simulation of hybrid electrical vehicle charging station in multimode operation. I-manager S Journal on Power Systems Engineering, 2022, 9, 18.	0.1	0
2106	Research on Power Line Carrier Adaptation for Internet of Things. , 2022, , .		0
2107	A Review on Distributed Denial of Service Attack in Smart Grid. , 2022, , .		7
2108	Real-time Pricing Demand Response Scheme based on Marginal Emission Factors. , 2022, , .		2
2109	A QoS-Guaranteed and Congestion-Controlled SDN Routing Strategy for Smart Grid. Applied Sciences (Switzerland), 2022, 12, 7629.	1.3	4
2110	Revision of the 5G Concept Rollout and Its Application in Smart Cities: A Study Case in South America. Smart Innovation, Systems and Technologies, 2023, , 229-238.	0.5	8
2111	Pre-training Models Based Knowledge Graph Multi-hop Reasoning for Smart Grid Technology. Lecture Notes in Electrical Engineering, 2023, , 1866-1875.	0.3	1
2112	Edge Intelligence in Smart Grids: A Survey on Architectures, Offloading Models, Cyber Security Measures, and Challenges. Journal of Sensor and Actuator Networks, 2022, 11, 47.	2.3	14
2113	Design and Implementation of a Hybrid Solar-Wind-Biomass Renewable Energy System considering Meteorological Conditions with the Power System Performances. International Journal of Photoenergy, 2022, 2022, 1-17.	1.4	15

#	Article	IF	CITATIONS
2114	LED Lighting Agrosystem with Parallel Power Supply from Photovoltaic Modules and a Power Grid. Agriculture (Switzerland), 2022, 12, 1215.	1.4	2
2115	A linear regression data compression algorithm for an islanded DC microgrid. Sustainable Energy, Grids and Networks, 2022, 32, 100901.	2.3	2
2116	Data-driven load profiles and the dynamics of residential electricity consumption. Nature Communications, 2022, 13, .	5.8	25
2117	Model-based valuation of smart grid initiatives: Foundations, open issues, requirements, and a research outlook. Data and Knowledge Engineering, 2022, 141, 102052.	2.1	3
2118	A comprehensive optimal energy control in interconnected microgrids through multiport converter under Nâ^'1 criterion and demand response program. Renewable Energy, 2022, 199, 957-976.	4.3	8
2119	Time-alignment of electrical network measurements through time series of cycle RMS values. International Journal of Electrical Power and Energy Systems, 2023, 144, 108518.	3.3	2
2120	Blockchain-based secured payment in IoE. , 2023, , 185-200.		0
2121	Provably Secure ECC-Based Authentication and Key Agreement Scheme for Advanced Metering Infrastructure in the Smart Grid. IEEE Transactions on Industrial Informatics, 2023, 19, 5985-5994.	7.2	6
2122	Integration of ICN and MEC in 5G and Beyond Networks: Mutual Benefits, Use Cases, Challenges, Standardization, and Future Research. IEEE Open Journal of the Communications Society, 2022, 3, 1382-1412.	4.4	14
2123	Intelligent Computing in Electrical Utility Industry 4.0: Concept, Key Technologies, Applications and Future Directions. IEEE Access, 2022, 10, 100312-100336.	2.6	2
2124	Network Architecture and Authentication Scheme for LoRa 2.4 GHz Smart Homes. IEEE Access, 2022, 10, 93212-93230.	2.6	2
2125	A Hybrid ConvLSTM-Based Anomaly Detection Approach for Combating Energy Theft. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	7
2126	Future Education for Harnessing Electrical Energy Resources Using Real-Time Simulation. Transactions on Computer Systems and Networks, 2022, , 79-96.	0.5	0
2127	Smart Grid and Demand Side Management. , 2022, , 681-703.		0
2128	FSDA: Flexible Subset Data Aggregation for Smart Grid. IEEE Systems Journal, 2023, 17, 569-578.	2.9	4
2129	Cybersecurity of Smart Inverters in the Smart Grid: A Survey. IEEE Transactions on Power Electronics, 2023, 38, 2364-2383.	5.4	15
2130	Economic Emission and Energy Scheduling for Renewable Rich Network Using Bio-Inspired Optimization. IEEE Access, 2022, 10, 79713-79729.	2.6	7
2131	PMU Tracker: A Visualization Platform for Epicentric Event Propagation Analysis in the Power Grid. IEEE Transactions on Visualization and Computer Graphics, 2022, , 1-10.	2.9	1

#	Article	IF	CITATIONS
2132	Two-Phase IPOS DC-DC Step-up Converter for PV Interface. , 2022, , .		0
2133	Spatio-Temporal Graph Neural Networks for Aggregate Load Forecasting. , 2022, , .		2
2134	Cloud Edge Architecture Leveraging Artificial Intelligence and Analytics for Microgrid Energy Optimisation and Net Zero Carbon Emissions. , 2022, , .		6
2135	Peer-to-Peer Communication Trade-Offs for Smart Grid Applications. , 2022, , .		1
2136	Research on Intelligent Communication Scheduling System Based on Network Slices. , 2022, , .		0
2137	A Study of Time Series Image Generation Method for Analyzing Electric Power Usage Patterns. Journal of Digital Contents Society, 2022, 23, 1469-1475.	0.1	0
2138	An International Collaboration Strategy Based on the Scientific Strengths and Weaknesses in Security Domain. , 2022, , .		0
2139	Extending the Operating Life of Thermoplastic Components via On-Demand Patching and Repair Using Fused Filament Fabrication. Journal of Manufacturing and Materials Processing, 2022, 6, 103.	1.0	1
2140	Multiobjective Decision-Making Model for Power Scheduling Problem in Smart Homes. Sustainability, 2022, 14, 11867.	1.6	2
2143	Condition monitoring of IoT based Wind-SVC Integrated Two Area Power System Network Protection scheme using Neuro-wavelet approach. , 2022, , .		0
2144	Billing Models for Peer-to-Peer Electricity Trading Markets with Imperfect Bid-Offer Fulfillment. , 2022, , .		3
2145	Research on MEMS-based Multi-characteristic Parameter Monitoring System for Power Transmission and Distribution Line Pole and Tower. , 2022, , .		0
2146	On the relevance of TSN for Substation Communication Networks. , 2022, , .		3
2147	Energy Management Systems Using Smart Grids: An Exhaustive Parametric Comprehensive Analysis of Existing Trends, Significance, Opportunities, and Challenges. International Transactions on Electrical Energy Systems, 2022, 2022, 1-38.	1.2	13
2148	Failure and fault classification for smart grids. Energy Informatics, 2022, 5, .	1.4	6
2149	Microgrid to smart grid's evolution: Technical challenges, current solutions, and future scopes. Energy Science and Engineering, 2023, 11, 874-928.	1.9	5
2150	Resilient control for T-S fuzzy systems with multiple transmission channels under asynchronous denial-of-Service attacks. Journal of the Franklin Institute, 2023, 360, 2215-2233.	1.9	1
2151	Primal–dual interior-point algorithm for electricity cost minimization in a prosumer-based smart grid environment: A convex optimization approach. Energy Reports, 2022, 8, 681-695.	2.5	9

#	Article	IF	CITATIONS
2152	Very short-term residential load forecasting based on deep-autoformer. Applied Energy, 2022, 328, 120120.	5.1	19
2154	Improving convergence properties of autonomous demand side management algorithms. International Journal of Electrical Power and Energy Systems, 2023, 146, 108764.	3.3	4
2155	Electric Power Asynchronous Heterogeneous Data Accelerated Compression for Edge Computing. , 2022, , .		0
2156	Recent Developments and Trends in Energy Management Systems for Microgrids. Energies, 2022, 15, 8226.	1.6	1
2157	A fine-grained privacy protection data aggregation scheme for outsourcing smart grid. Frontiers of Computer Science, 2023, 17, .	1.6	3
2158	Event-triggered scheme for finite-time distributed economic dispatch in smart grids. Journal of the Franklin Institute, 2022, 359, 10602-10627.	1.9	4
2159	Cryptographic Protocols inÂAdvanced Metering Infrastructures inÂSmart Grids. Lecture Notes in Networks and Systems, 2023, , 114-124.	0.5	0
2160	Micro grid Communication Technologies: An Overview. , 2022, , .		0
2161	Performance evaluation methodologies for Smart Grid Substation Communication Networks: A survey. Computer Communications, 2023, 198, 228-246.	3.1	7
2162	Smart grid (SG) properties and challenges: an overview. Discover Energy, 2022, 2, .	1.1	8
2163	Distribution Games: A New Class of Games with Application to User Provided Networks. IEEE Access, 2022, , 1-1.	2.6	0
2164	Independent Power Supply Through Off-Grid Microgrids in South Africa: Potentials of AI Enhanced Business Models. Progress in IS, 2022, , 119-137.	0.5	0
2165	Distributed Attribute-Based Signature With Attribute Dynamic Update for Smart Grid. IEEE Transactions on Industrial Informatics, 2023, 19, 9424-9435.	7.2	3
2166	Novel Training Methods Based Artificial Neural Network for the Dynamic Prediction of the Consumed Energy. Lecture Notes in Computer Science, 2022, , 210-217.	1.0	0
2167	An Improved Fault Detection Method for Overhead Transmission Lines Based on Differential Tunnel Magnetoresistive Sensor Array Approach. Canadian Journal of Electrical and Computer Engineering, 2022, 45, 409-417.	1.5	3
2168	Robust, distributed and optimal control of smart grids. EPJ Web of Conferences, 2022, 268, 00016.	0.1	0
2169	Control Method for Single-Phase Active Filter Using Universal Smart Power Module (USPM). IEEJ Journal of Industry Applications, 2022, , .	0.9	0
2170	Multi-Classification of Electric Power Metadata based on Prompt-tuning. Lecture Notes in Computer Science, 2022, , 102-114.	1.0	Ο

#	Article	IF	CITATIONS
2171	Formal Verification of Fault Isolation and Restoration Algorithms in Smart Grid. , 2022, , .		0
2172	Modeling and Simulation of Smart Bidirectional DC Watt-Hour Meter for DC House. , 2022, , .		0
2173	A Service-Oriented Digital Twins Framework for Smart Grid Management. , 2022, , .		0
2174	Resource Allocation for Intelligent Reflecting Surface-Assisted Cooperative NOMA-URLLC Networks in Smart Grid. , 2022, , .		0
2175	SecLoRa: A Secure LoRa Based Communication System for Residential Smart-grids. , 2022, , .		0
2176	PLC based Efficient Energy Management System in The Smart Grid. , 2022, , .		0
2178	Framework of Transactive Energy Market Strategies for Lucrative Peer-to-Peer Energy Transactions. Energies, 2023, 16, 6.	1.6	6
2179	Experimental Validation of Systems Engineering Resilience Models for Islanded Microgrids. Systems, 2022, 10, 245.	1.2	3
2180	Would you add some kWhs to your food order? A forward-looking perspective on the energy landscape disruption portrayed by future actors in a distributed system. Energy Research and Social Science, 2022, 94, 102877.	3.0	1
2181	Exploring Cyber-Physical Energy and Power System: Concepts, Applications, Challenges, and Simulation Approaches. Energies, 2023, 16, 42.	1.6	5
2182	Blockchain and Machine Learning for Future Smart Grids: A Review. Energies, 2023, 16, 528.	1.6	30
2183	An electrical vehicle-assisted demand response management system: A reinforcement learning method. Frontiers in Energy Research, 0, 10, .	1.2	2
2184	A State-of-the-Art Review of Smart Energy Systems and Their Management in a Smart Grid Environment. Energies, 2023, 16, 472.	1.6	12
2185	Demand Response Management of a Residential Microgrid Using Chaotic Aquila Optimization. Sustainability, 2023, 15, 1484.	1.6	7
2186	Towards Sustainable Distributed Sensor Networks: An Approach for Addressing Power Limitation Issues in WSNs. Sensors, 2023, 23, 975.	2.1	5
2187	Enhanced intelligent terminal unit under smart distribution network. Electrical Engineering, 2023, 105, 1199-1207.	1.2	1
2188	A Review of Denial of Service Attack and Mitigation in the Smart Grid Using Reinforcement Learning. Energies, 2023, 16, 635.	1.6	16
2189	A Comparative Study ofÂEnergy Domain Ontologies. Lecture Notes in Business Information Processing, 2023, , 43-58.	0.8	2

#	Article	IF	CITATIONS
2190	Overview and comparative analysis of bidirectional cascaded modular isolated medium-voltage AC–low-voltage DC (MVAC-LVDC) power conversion for renewable energy rich microgrids. Renewable and Sustainable Energy Reviews, 2023, 174, 113118.	8.2	5
2191	Al-oriented Smart Power System Transient Stability: The Rationality, Applications, Challenges and Future Opportunities. Sustainable Energy Technologies and Assessments, 2023, 56, 102990.	1.7	7
2192	Deep Security Analysis Model for Smart Grid. , 2022, , .		1
2193	Intrusion Detection Model Using SSMOTE in Power Grid. , 2022, , .		0
2194	Secure Smart Grids: Based on Post-Quantum Blockchain. , 2022, , .		3
2195	ASSMA-SLM: Autonomous System for Smart Motor-Vehicles integrating Artificial and Soft Learning Mechanisms. , 2022, , .		57
2196	Advanced Measurement Systems with Smart Grid in Turkey: Roadmap 2032. , 2022, , .		0
2197	Mapping Threats in Smart Grid System Using the MITRE ATT&CK ICS Framework. , 2022, , .		3
2198	Secure Privacy and Utility Preserving Transformation of Smart Grid Networks. , 2022, , .		1
2199	Energy Contour Forecasting Optimization with Smart Metering in Distribution Power Networks. Sensors, 2023, 23, 1490.	2.1	0
2200	An Insight of Deep Learning Based Demand Forecasting in Smart Grids. Sensors, 2023, 23, 1467.	2.1	8
2201	A Survey of Cyber-Physical Systems From a Game-Theoretic Perspective. IEEE Access, 2023, 11, 9799-9834.	2.6	11
2202	Asymmetry induces critical desynchronization of power grids. Chaos, 2023, 33, .	1.0	3
2203	Super-Resolution Perception Assisted Spatiotemporal Graph Deep Learning Against False Data Injection Attacks in Smart Grid. IEEE Transactions on Smart Grid, 2023, 14, 4035-4046.	6.2	6
2204	An Efficient and Secured Energy Management System for Automated Guided Vehicles. , 2022, , .		5
2205	Q-Learning Algorithm Enabled Topology Control Scheme in Power Line Communication Networks. , 2022, , .		0
2206	Management of a Microgrid using Deep Learning Techniques. , 2022, , .		1
2207	A Resilient Group-Based Multisubset Data Aggregation Scheme for Smart Grid. IEEE Internet of Things Journal, 2023, 10, 13649-13661.	5.5	3

#	Article	IF	CITATIONS
2208	Trust-Based Communities forÂSmart Grid Security andÂPrivacy. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 28-43.	0.2	0
2209	Short Survey on Using Blockchain Technology in Modern Wireless Networks, IoT and Smart Grids. , 2023, , 163-173.		1
2210	A narrative perspective of island detection methods under the lens of cyber-attack in data-driven smart grid. Journal of Electrical Systems and Information Technology, 2023, 10, .	1.2	5
2211	An IOT based smart grid system for advanced cooperative transmission and communication. Physical Communication, 2023, 58, 102069.	1.2	7
2213	Long-Term Workload Forecasting in Grid Cloud using Deep Ensemble Model. , 2022, , .		0
2214	A Maximally disjoint Dual Paths Method to Enhancing the Robustness of Interdependent Power grids and Communication Networks. , 2022, , .		0
2215	An improved encoder-decoder-based CNN model for probabilistic short-term load and PV forecasting. Electric Power Systems Research, 2023, 217, 109153.	2.1	9
2216	Energy Not Exchanged: A Metric to Quantify Energy Resilience in Smart Grids. Sustainability, 2023, 15, 2596.	1.6	1
2217	Future Energy System Analyses. , 2022, , 1-26.		0
2218	An enhanced intrusion detection method for AIM of smart grid. Journal of Ambient Intelligence and Humanized Computing, 0, , .	3.3	2
2219	Named Entity Recognition for Smart Grid Operation and Inspection Domain using Attention Mechanism. , 2022, , .		0
2220	ACTS: A Near-Memory FPGA Graph Processing Framework. , 2023, , .		0
2221	A Feasibility Study of Implementing IEEE 1547 and IEEE 2030 Standards for Microgrid in the Kingdom of Saudi Arabia. Energies, 2023, 16, 1777.	1.6	5
2222	Autonomous Smart Grid Fault Detection. IEEE Communications Standards Magazine, 2023, 7, 40-47.	3.6	3
2223	ALKAF: An Anonymous Lightweight Key Agreement Framework For Smart Grid Network. , 2022, , .		1
2224	Climate Change Impacts Quantification on the Domestic Side of Electrical Grid and Respective Mitigation Strategy across Medium Horizon 2030. Sustainability, 2023, 15, 3674.	1.6	1
2225	Optimization of micro grid with distributed energy resources using physics based meta heuristic techniques. IET Renewable Power Generation, 0, , .	1.7	2
2226	An Improved Control Scheme of Current Transformer Harvester for Power Transmission Line Monitoring Sensors. , 2022, , .		0

#	Article	IF	CITATIONS
2227	Learning Regionally Decentralized AC Optimal Power Flows With ADMM. IEEE Transactions on Smart Grid, 2023, 14, 4863-4876.	6.2	2
2228	A Review on the Implementation of the BIM Methodology in the Operation Maintenance and Transport Infrastructure. Applied Sciences (Switzerland), 2023, 13, 3176.	1.3	11
2229	IoT-Based Smart Grid Security Challenges. Studies in Infrastructure and Control, 2023, , 261-273.	0.4	0
2230	Laser point cloud location-based research on patrol inspection of transmission line UAV. , 2023, , .		0
2231	Accelerating the renewable energy sector through Industry 4.0: Optimization opportunities in the digital revolution. International Journal of Innovation Studies, 2023, 7, 171-188.	1.4	15
2232	Insights and New Practices for Advanced Metering Infrastructure and Smart Energy Metering Framework in Smart Grid- A Case Study. , 2022, , .		2
2233	Resilient Distributed Optimization Algorithm for Economic Dispatch Against Cyber-Attacks in Smart Grid. , 2022, , .		0
2234	Power Quality Disturbances Characterization Using Signal Processing and Pattern Recognition Techniques: A Comprehensive Review. Energies, 2023, 16, 2685.	1.6	5
2235	A Dual Routing Planning Method based on Risk-aware and Deterministic Latency. , 2022, , .		0
2236	An Energy-Saving Scheme With Edge Computing and Energy Harvesting in mmWaves Backhauling HetNets. IEEE Access, 2023, 11, 29116-29127.	2.6	0
2237	A Survey on Role of Blockchain for IoT: Applications and Technical Aspects. Computer Networks, 2023, 227, 109726.	3.2	18
2238	Blockchain-based data aggregation scheme for fault-tolerant privacy-preserving in smart grid. , 2021, ,		0
2239	A comprehensive overview on demand side energy management towards smart grids: challenges, solutions, and future direction. Energy Informatics, 2023, 6, .	1.4	15
2240	A Study on Smart Homes And Grids Under IoT Components. , 2023, , .		0
2241	Deep reinforcement learning for real-time economic energy management of microgrid system considering uncertainties. Frontiers in Energy Research, 0, 11, .	1.2	0
2242	Proposing a matrix model in fog computing for expanding the efficiency of computing frameworks. I-manager's Journal on Cloud Computing, 2022, 9, 1.	1.2	0
2243	An Access Selection Scheme in 5G Heterogeneous Wireless Networks for Smart Distribution Grids. , 2022, , .		0
2244	Network Intrusion Detection in Internet of Blended Environment Using Ensemble of Heterogeneous Autoencoders (E-HAE). Computer Systems Science and Engineering, 2023, 46, 3261-3284.	1.9	0

#	Article	IF	CITATIONS
2245	Using an IPsec VPN to Secure The Network Communication in The Smart Grid. , 2023, , .		0
2246	Cyber-Physical Power and Energy Systems with Wireless Sensor Networks: A Systematic Review. Journal of Electrical Engineering and Technology, 2023, 18, 4353-4365.	1.2	2
2247	Smart Grid Synchronization Techniques with PV Generating System and its Challenges: An Overview of Power Sector in India. , 2023, , .		0
2248	Deterministic approach-based energy management of smart microgrids. , 2023, , .		0
2249	XGBoost based fake data injection attack detection method for power grid. , 2022, , .		1
2250	The determinants of reliable smart grid from experts' perspective. Energy Informatics, 2023, 6, .	1.4	6
2251	A Lightweight Authentication and Key Agreement Protocol for IoT-Enabled Smart Grid System. Sensors, 2023, 23, 3991.	2.1	1
2252	Technological Developments in Control Models Using Petri Nets for Smart Grids: A Review. Energies, 2023, 16, 3541.	1.6	1
2263	AutoPV: Automated photovoltaic forecasts with limited information using an ensemble of pre-trained models. , 2023, , .		2
2266	Services Sequential Model of Edge Computing Terminal in Internet of Things. , 2022, , .		0
2267	Internet of Things in Power Systems: A Bibliometric Analysis. , 2023, , .		0
2268	Applications of Fog Computing. , 2023, , 19-31.		1
2273	A Systematic Literature Review: Approach Toward Blockchain Future Research Trends. , 2023, , .		0
2274	Secure Communication inÂDigital Twin-enabled Smart Grid Platform withÂaÂLightweight Authentication Scheme. Smart Innovation, Systems and Technologies, 2023, , 525-536.	0.5	0
2275	Dynamic Pricing for Improving Bi-Directional Interactions with Reduced Power Imbalance. Sustainable Development Goals Series, 2023, , 425-444.	0.2	0
2277	Treating Common Problems Observed During Smart Building Control Real-Life Testing: Sharing Practical Experience. IFIP Advances in Information and Communication Technology, 2023, , 254-265.	0.5	Ο
2281	Resident Load Disaggregation Based on Dilated Causal Convolution and Variational Autoencoder. , 2023, , .		0
2282	Renewable Energy Power Assimilation to the Smart Grid and Electric Vehicles via Wireless Power Transfer Technology. , 2023, , .		Ο

# 2284	ARTICLE Algorithmic Approaches for DER Sizing and Spatial Placement in Radial Networks. , 2023, , .	IF	CITATIONS
2284	Power Load Estimation in Smart Grids via k-Means Clustering using Sensor Networks. , 2023, , .		0
2289	Control of Isolated AC Microgrids with Constant Power Loads: A Set Invariance Approach. , 2023, , .		0
2290	Area Under Time Series Transformation for Home Appliance Classification. , 2023, , .		0
2292	AloT-Empowered Smart Grid Energy Management with Distributed Control and Non-Intrusive Load Monitoring. , 2023, , .		0
2294	Named Data Networking (NDN) for Data Collection of Digital Twins-based IoT Systems. , 2023, , .		0
2295	Detecting Cyber-Attacks andÂPower System Disturbances inÂSmart Grids withÂDeep Forest. Lecture Notes in Networks and Systems, 2023, , 146-155.	0.5	0
2297	Reliability Analysis of Smart Grids Using Formal Methods. , 2023, , 147-163.		0
2298	Identity-Based Key Agreement Algorithm for Smart Meter Technology to ensure Anonymity. , 2023, , .		0
2311	Advancements in DC Microgrids: Integrating Machine Learning and Communication Technologies for a Decentralized Future. Power Systems, 2023, , 357-387.	0.3	0
2320	Future Energy System Analyses. , 2023, , 2303-2328.		0
2321	Generalized framework for protecting privacy in the smart grid environment and measuring the efficacy of privacy attacks $*.$, 2023, , .		0
2326	IoT-Based Protection of PV-Wind Integrated Microgrid System Fault Analysis Using Wavelet Approach. Advances in Intelligent Systems and Computing, 2023, , 309-322.	0.5	1
2327	Green Energy Cloud -Taxonomy, Infrastructure, Platform, and Services. , 2023, , .		0
2328	Genetic Algorithm-Based Optimal Protection Scheme for the Coordination of Bi-Directional Overcurrent Relays in a Carbon-Free AC Microgrid. , 0, , .		0
2330	Security Attacks and itâ \in Ms Countermeasures on Smart Grid: A Review. , 2023, , .		0
2331	Edge computing based An Efficient Lightweight authentication protocol for Smart Grid communication. , 2023, , .		0
2333	Liquid Cooling System for a High Power, Medium Frequency, and Medium Voltage Isolated Power Converter. , 2023, , .		0

#	Article	IF	CITATIONS
2337	Technological Approach Toward Smart Grid Security: A Review. Algorithms for Intelligent Systems, 2023, , 739-752.	0.5	0
2340	Task-Oriented Communication for Real-Time Demand Response in Smart Grids. , 2023, , .		1
2344	Modeling and Application of Cross Scene Propagation Model for Local Wireless Communication in Power Systems. , 2023, , .		0
2345	Modeling and Analysis of Residential DC Microgrid Energy Management Using System of Systems Architecture. , 2023, , .		0
2347	Two-Scale Stochastic Optimization of Mobile Edge Computing Systems Powered by Smart Grid. , 2023, , .		0
2348	ECC: Enhancing Smart Grid Communication with Ethereum Blockchain, Asymmetric Cryptography, and Cloud Services. , 2023, , .		0
2351	Short Message Service System Applied in Predictive Control of Inverters Connected to the Electric Grid in Smart Grids Environments. Green Energy and Technology, 2024, , 359-374.	0.4	0
2354	Data Extraction from a Multifunction Meter with RS-485 Support for Power Distribution System Monitoring and Control. , 2023, , .		0
2355	Applications ofÂConsortium Blockchain inÂPower Grid Security: A Systematic Review. Communications in Computer and Information Science, 2024, , 102-115.	0.4	0
2358	Electric Vehicle Charging Station Infrastructure: A Comprehensive Review of Technologies, Challenges, and Mitigation Strategies. , 2023, , .		0
2359	Deep Learning Based Electrical Load Forecasting Using Temporal Fusion Transformer and Trend-Seasonal Decomposition. , 2023, , .		0
2360	Communication Latency Assessment for an Interoperability Interface Prototype Applied to Power Converters in Laboratory Microgrids. , 2023, , .		0
2363	A Survey on Smart Grid and its Applications. , 2023, , .		0
2364	Distributed Economic Dispatch of Microgrids Based on Event-Triggered Mechanisms with Watermarking. , 2023, , .		0
2365	Consequence Verification During Risk Assessments ofÂSmart Grids. IFIP Advances in Information and Communication Technology, 2024, , 40-61.	0.5	2
2366	A Distributed Algorithm for Optimal Energy Management With Network-Independent Stepsize. , 2023, , .		0
2368	A Private Blockchain Based P2P Energy Trading Platform for Energy Users. , 2023, , .		0
2369	A Compact Dual-Band Directional Button Antenna Based on Metamaterial Lens for New Power Services. Lecture Notes in Electrical Engineering, 2024, , 366-373.	0.3	0

#	Article	IF	CITATIONS
2373	A Robust Dynamic Average Consensus Algorithm that Ensures both Differential Privacy and Accurate Convergence. , 2023, , .		0
2374	Live Systems of Varying Dimension: Modeling and Stability. , 2023, , .		0
2375	Energy systems as a critical infrastructure: Threats, solutions, and future outlook. , 2024, , 287-305.		0
2376	Navigating the Future Data-Driven Automation Tools: State-of-the-Art and Research Roadmap for Digital Twins of Energy Systems. , 2023, , .		0
2378	Analysis of Smart Meter Data for Energy Waste Management. , 2024, , 153-173.		0
2379	Optimal distribution network reconfiguration of CHP-based hybrid AC-DC microgrids considering wind turbines and economic model of fuel cells. , 2023, , .		0
2380	Strategy of integrated humanity for specific applications. , 2024, , 125-167.		0
2381	Smart Cities: An Integrated Framework Using IoT. , 2023, , .		0
2384	Research on Fault Diagnosis of Electrical Equipment Based on Deep Learning and Infrared Imaging Technology. , 2023, , .		0
2386	Feed Forward Cascaded Neural Network Enhanced Stochastic Predictive Model Control for Microgrid Energy Management. , 2023, , .		0
2389	Revolution Towards DC Microgrids. Impact of Meat Consumption on Health and Environmental Sustainability, 2023, , 225-251.	0.4	0
2391	Response Analysis of MEMS Magnetic Field Sensor Based on Eddy Current Effect. , 2023, , .		0
2392	Optimal Control-Based Energy Management in a Real Smart Grid. , 2023, , .		0
2393	An Overview of E-Mobility-Based Threats to the Power Grid. Advances in Mechatronics and Mechanical Engineering, 2024, , 142-155.	1.0	0
2395	When Blockchain Meets Smart Cities: Opportunities, Security and Future Research. Advances in Information Security, 2024, , 423-463.	0.9	0
2396	The priority control strategy-based smart grid and sustainable energy monitoring system. AIP Conference Proceedings, 2024, , .	0.3	0
2397	Future of Energy Transition Relies on Prosumer-Based Smart Grid-Integrated Renewable Distributed Generation System. Advances in Geospatial Technologies Book Series, 2024, , 149-166.	0.1	0