A survey of routing protocols for smart grid communication

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#	Article	IF	CITATIONS
1	Load balancing techniques for extending smart metering system lifetime. , 2012, , .		1
2	Topology Estimation for Smart Micro Grids via Powerline Communications. IEEE Transactions on Signal Processing, 2013, 61, 3368-3377.	3.2	51
3	Secure and robust multipath routings for advanced metering infrastructure. Journal of Supercomputing, 2013, 66, 1071-1092.	2.4	6
4	The role of communication systems in smart grids: Architectures, technical solutions and research challenges. Computer Communications, 2013, 36, 1665-1697.	3.1	277
5	Design and Implementation of Energy Hub for Smart Grid. , 2013, , .		0
6	Performance and applicability of geographic-based routing in smart grid's neighbor area networks. , 2013, , .		5
7	Optimal topological design of power communication networks using genetic algorithm. Scientia Iranica, 2013, 20, 945-945.	0.3	7
8	Analysis of low power wireless links in smart grid environments. Computer Networks, 2013, 57, 1192-1203.	3.2	38
9	Advanced communication system for rich and green smart Grid networking. , 2013, , .		0
10	Maximizing energy utilization of routing in wireless sensor networks. , 2013, , .		1
11	Energy, Traffic Load, and Link Quality Aware Ad Hoc Routing Protocol for Wireless Sensor Network Based Smart Metering Infrastructure. International Journal of Distributed Sensor Networks, 2013, 9, 597582.	1.3	32
12	Heterogeneous Communication Architecture to Enable Demand Response Management for the Smart Grid. Advanced Materials Research, 0, 760-762, 652-655.	0.3	O
13	Design of Optical Fiber Communication Networks for Feeder Automation. Applied Mechanics and Materials, 2013, 336-338, 1823-1826.	0.2	0
14	A Proposed Communication System for Field Area Networks of Smart Grid. Advanced Materials Research, 2013, 732-733, 1288-1291.	0.3	O
15	A Survey on EPON-Based Communication Networks for Smart Grid. Advanced Materials Research, 0, 765-767, 2633-2636.	0.3	2
16	Performance Analysis of AODV Routing Protocol for Wireless Sensor Network based Smart Metering. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012003.	0.2	4
17	Efficient generation and distribution of CRLs for IEEE 802.11s-based Smart Grid AMI networks. , 2014, , .		8
18	Evaluation of RPL for medium voltage power line communication. , 2014, , .		7

#	Article	IF	CITATIONS
19	Periodic data reporting strategies for IEEE 802.11s-based Smart Grid AMI networks. , 2014, , .		8
20	Study on the emergence and expansion of smart grids in divergent cities. , 2014, , .		1
21	A Survey of Vehicle-to-Grid Implementation through Virtual Power Plants. Applied Mechanics and Materials, 0, 631-632, 314-317.	0.2	0
22	Software Design of Smart Home Terminal System. Applied Mechanics and Materials, 0, 568-570, 1459-1462.	0.2	0
23	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
24	Resilient distributed consensus for tree topology. , 2014, , .		5
26	A neurofuzzy QoS-aware routing protocol for smart grids. , 2014, , .		0
27	A Wireless Network of Acoustic Sensors for Environmental Monitoring. Key Engineering Materials, 2014, 605, 43-46.	0.4	7
28	Unidirectional Link-Aware DTN-based sensor network in building monitoring scenario. , 2014, , .		0
29	The present and future of smart power grid in developing countries. Renewable and Sustainable Energy Reviews, 2014, 29, 828-834.	8.2	132
30	Multicriteria evaluation of alternatives for remote monitoring systems of municipal buildings. Energy and Buildings, 2014, 72, 229-237.	3.1	18
31	Computational awareness for smart grid: a review. International Journal of Machine Learning and Cybernetics, 2014, 5, 151-163.	2.3	17
32	Routing protocol design guidelines for smart grid environments. Computer Networks, 2014, 60, 160-170.	3.2	34
33	Information and Communication Technologies for sustainable renewable energy sources promoting green environmental growth. , 2014, , .		3
34	Quality-of-service differentiation in single-path and multi-path routing for wireless sensor network-based smart grid applications. Ad Hoc Networks, 2014, 22, 43-60.	3.4	40
35	Challenges and Research Directions for the Future Internetworking. IEEE Communications Surveys and Tutorials, 2014, 16, 1050-1079.	24.8	17
36	Performance and applicability of candidate routing protocols for smart grid's wireless mesh neighbor area networks. , 2014, , .		12
37	Routing as a Bayesian Coalition Game in Smart Grid Neighborhood Area Networks: Learning Automata-based approach. , 2014, , .		4

#	Article	IF	CITATIONS
38	Wireless Communications Networks for the Smart Grid. SpringerBriefs in Computer Science, 2014, , .	0.2	22
39	Choices available for implementing smart grid communication network. , 2014, , .		9
40	Preserving consumer privacy on IEEE 802.11s-based smart grid AMI networks using data obfuscation. , 2014, , .		27
41	Resilient wireless communication networking for Smart grid BAN. , 2014, , .		13
42	A maximum likelihood routing algorithm for smart grid wireless network. Eurasip Journal on Wireless Communications and Networking, 2014, 2014, .	1.5	6
43	Opportunistic Routing for Smart Grid With Power Line Communication Access Networks. IEEE Transactions on Smart Grid, 2014, 5, 303-311.	6.2	73
44	Energy efficient network protocol architecture for narrowband power line communication networks. Computer Networks, 2014, 69, 35-50.	3.2	7
45	Adding accurate timestamping capability to wireless networks for smart grids. Computer Networks, 2014, 67, 1-13.	3.2	12
46	The impact of scalable routing on lifetime of smart grid communication networks. Ad Hoc Networks, 2014, 22, 27-42.	3.4	5
47	Interference-aware QoS multicast routing for smart grid. Ad Hoc Networks, 2014, 22, 13-26.	3.4	21
48	A four-way-handshake protocol for energy forwarding networks in the smart grid. Ad Hoc Networks, 2014, 22, 83-92.	3.4	5
50	Sensor Based Communication Network for WACS with DNP3. Procedia Technology, 2015, 21, 76-81.	1.1	2
51	A novel embedded system-based backbone communication network for smart grid. , 2015, , .		3
52	Privacy-preserving and secure communication scheme for power injection in smart grid., 2015,,.		12
54	A Novel Scheduling Algorithm Based on Game Theory and Multicriteria Decision Making in LTE Network. International Journal of Distributed Sensor Networks, 2015, 11, 604752.	1.3	14
55	Path error-aware RTO design for smart meter data traffic in IEEE 802.11s-based AMI networks. , 2015, , .		3
56	Performance Analysis of AODV, OLSR and GPSR MANET Routing Protocols with Respect to Network Size and Density. Research Journal of Applied Sciences, Engineering and Technology, 2015, 11, 400-406.	0.1	4
57	Resilient communication for smart grid ubiquitous sensor network: State of the art and prospects for next generation. Computer Communications, 2015, 71, 34-49.	3.1	27

#	Article	IF	CITATIONS
58	Formal analysis of a ZigBee-based routing protocol for smart grids using UPPAAL., 2015, , .		6
59	Assessing the feasibility of fully homomorphic encryption for Smart Grid AMI networks. , 2015, , .		10
60	Interleaving-based orphan channel Scanning for the IEEE 802.15.4m in TVWS smart grid networks. , 2015, , .		2
61	Privacy-aware communication protocol for hybrid IEEE 802.11s/LTE Smart Grid architectures., 2015,,.		8
62	Software defined networking for wireless local networks in Smart Grid., 2015,,.		13
63	A Game Theoretic Model for Smart Grids Demand Management. IEEE Transactions on Smart Grid, 2015, 6, 1386-1393.	6.2	46
64	Customized Certificate Revocation Lists for IEEE 802.11s-Based Smart Grid AMI Networks. IEEE Transactions on Smart Grid, 2015, 6, 2366-2374.	6.2	27
65	Secure and energy-efficient multicast routing in smart grids. , 2015, , .		6
66	Routing in Neighborhood Area Networks: A survey in the context of AMI communications. Journal of Network and Computer Applications, 2015, 55, 68-80.	5.8	74
67	Analytical evaluation of the impacts of Sybil attacks against RPL under mobility. , 2015, , .		17
68	Geographic routing protocol for peer-to-peer smart grid neighborhood area network. , 2015, , .		3
69	Communication opportunities in smart grids. , 2015, , .		0
70	AFAR: A robust and delay-constrained communication framework for smart grid applications. Computer Networks, 2015, 91, 1-25.	3.2	9
71	Robustness of the routing protocol for low-power and lossy networks (RPL) in smart grid's neighbor-area networks. , 2015, , .		5
72	From MANET to people-centric networking: Milestones and open research challenges. Computer Communications, 2015, 71, 1-21.	3.1	61
73	PARP-S: A secure piggybacking-based ARP for IEEE 802.11s-based Smart Grid AMI networks. Computer Communications, 2015, 58, 16-28.	3.1	20
74	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
75	Design and Implementation of Remote Wireless Monitoring and Control of Smart Power System Using Personal Area Network. Indian Journal of Science and Technology, 2016, 9, .	0.5	4

#	Article	IF	CITATIONS
76	Developing of scalable SCADA in view of acquiring multi-protocol smart grid devices. , 2016, , .		0
77	Rescuing Algorithm for Link-List Wireless Network with Wormhole Mechanism. , 2016, , .		0
78	Testbed and Simulation-Based Evaluation of Privacy-Preserving Algorithms for Smart Grid AMI Networks. , $2016, , .$		5
79	Improving the reliability of HWMP for smart grid neighborhood area networks. , 2016, , .		4
80	Addressing Network Interoperability in Hybrid IEEE 802.11s/LTE Smart Grid Communications. , 2016, , .		3
81	Smart Grid Framework Test Bed Using OPNET and Power Line Communication. , 2016, , .		12
82	A methodology for the evaluation and deployment of wireless multi-hop networks in smart grids. , 2016, , .		0
83	Smart grid architecture and impact analysis of a residential microgrid. , 2016, , .		5
84	Balancing network performance and network security in a smart grid application. , 2016, , .		0
85	A reliable data aggregation mechanism with Homomorphic Encryption in Smart Grid AMI networks. , 2016, , .		11
86	A secure Neighborhood Area Network using IPsec. , 2016, , .		1
87	PLC-oriented access point location planning algorithm in smart-grid communication networks. China Communications, 2016, 13, 91-102.	2.0	8
88	Investigating the impact of intrusion detection system performance on communication latency and power system stability. , 2016 , , .		3
89	Communication technologies for smart grid applications: A survey. Journal of Network and Computer Applications, 2016, 74, 133-148.	5.8	111
90	Emerging smart metering trends and integration at MV-LV level. , 2016, , .		6
91	Vehicle-to-Grid Networks: Issues and Challenges. , 2016, , 347-369.		5
92	Sensor Network Infrastructure for AMI in Smart Grid. Procedia Technology, 2016, 24, 854-863.	1.1	7
93	Software defined networking for resilient communications in Smart Grid active distribution networks. , $2016, \ldots$		28

#	Article	IF	CITATIONS
94	Analysis of bluetooth and Wi-Fi interference in smart home. , 2016, , .		3
95	Combating distance limitation for communications within Multiple Micro-Grids by Virtual routers. , 2016, , .		0
96	Channel-aware routing and priority-aware multi-channel scheduling for WSN-based smart grid applications. Journal of Network and Computer Applications, 2016, 71, 50-58.	5.8	39
97	A reliable opportunistic routing for smart grid with in-home power line communication networks. Science China Information Sciences, 2016, 59, 1.	2.7	8
98	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
99	A review of the development of Smart Grid technologies. Renewable and Sustainable Energy Reviews, 2016, 59, 710-725.	8.2	556
100	Geographic routing protocol for the deployment of virtual power plant within the smart grid. Sustainable Cities and Society, 2016, 25, 39-48.	5.1	23
101	Preserving privacy and efficiency in data communication and aggregation for AMI network. Journal of Network and Computer Applications, 2016, 59, 333-344.	5.8	36
102	Tuning Parameters of the QoS-Aware Routing Protocol for Smart Grids Using Genetic Algorithm. Applied Artificial Intelligence, 2016, 30, 52-76.	2.0	2
103	Highâ€resolution and lowâ€complexity dynamic topology estimation for PLC networks assisted by impulsive noise source detection. IET Communications, 2016, 10, 443-451.	1.5	10
104	Security Assessment of Time Synchronization Mechanisms for the Smart Grid. IEEE Communications Surveys and Tutorials, 2016, 18, 1952-1973.	24.8	32
105	A survey on smart metering and smart grid communication. Renewable and Sustainable Energy Reviews, 2016, 57, 302-318.	8.2	477
106	Secure Data Obfuscation Scheme to Enable Privacy-Preserving State Estimation in Smart Grid AMI Networks. IEEE Internet of Things Journal, 2016, 3, 709-719.	5.5	50
107	A survey on the critical issues in smart grid technologies. Renewable and Sustainable Energy Reviews, 2016, 54, 396-405.	8.2	216
108	Scalable Certificate Revocation Schemes for Smart Grid AMI Networks Using Bloom Filters. IEEE Transactions on Dependable and Secure Computing, 2017, 14, 420-432.	3.7	46
109	Adaptive intelligent techniques for microgrid control systems: A survey. International Journal of Electrical Power and Energy Systems, 2017, 90, 292-305.	3.3	110
110	Development of Smart Grid System in India: A Survey. Lecture Notes in Electrical Engineering, 2017, , 275-285.	0.3	4
111	Investigation of Smart Meter Data Reporting Strategies for Optimized Performance in Smart Grid AMI Networks. IEEE Internet of Things Journal, 2017, 4, 894-904.	5 . 5	49

#	Article	IF	CITATIONS
112	Interferenceâ€eware QoS routing for neighbourhood area network in smart grid. IET Communications, 2017, 11, 756-764.	1.5	25
114	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
115	Peer-to-peer decentralized control structure for real time monitoring and control of microgrids. , 2017, , .		13
116	Smart Cities: A Survey on Data Management, Security, and Enabling Technologies. IEEE Communications Surveys and Tutorials, 2017, 19, 2456-2501.	24.8	383
117	Review of network technologies in intelligent power system. , 2017, , .		3
118	A Survey on Smart Grid Cyber-Physical System Testbeds. IEEE Communications Surveys and Tutorials, 2017, 19, 446-464.	24.8	281
119	Vehicle-to-Grid Networks., 2017,, 347-369.		1
120	Simulating Smart Grid Cyber Security. , 2017, , 97-116.		1
121	An adaptive fuzzy logic system for residential energy management in smart grid environments. Applied Energy, 2017, 186, 68-81.	5.1	95
122	Efficient Management of Certificate Revocation Lists in Smart Grid Advanced Metering Infrastructure. , 2017, , .		4
123	Mitigating Selective Jamming Attacks in Smart Meter Data Collection using Moving Target Defense., 2017,,.		9
124	An attribute-based reliable multicast-over-broadcast protocol for firmware updates in smart meter networks., 2017,,.		8
125	Evaluation of clustering algorithms for DAP placement in wireless smart meter network. , 2017, , .		7
126	A Codebook Design for Ensuring Reliable Communication in Smart Grid Neighbourhood Area Networks. , 2017, , .		0
127	An Attribute & Detwork Coding-Based Secure Multicast Protocol for Firmware Updates in Smart Grid AMI Networks., 2017, , .		9
128	Controlling energy consumption with the world-wide adaptive thermostat using fuzzy inference system in smart grid., 2017,,.		4
129	Communication costs versus smart grid system performance for energy prosumers' participation in liberalized electricity markets: A trade-off analysis. , 2017, , .		2
130	Wireless Sensor Network Based Smart Grid Communications: Cyber Attacks, Intrusion Detection System and Topology Control. Electronics (Switzerland), 2017, 6, 5.	1.8	78

#	Article	IF	CITATIONS
131	Using LSTM Networks to Identify False Data of Smart Terminals in the Smart Grid. , 2017, , .		3
132	Lightweight Data Aggregation Scheme against Internal Attackers in Smart Grid Using Elliptic Curve Cryptography. Wireless Communications and Mobile Computing, 2017, 2017, 1-11.	0.8	28
133	Lightweight Secure RPL: A Need in IoT., 2017,,.		7
134	A robust backup routing protocol for neighbor area network in the smart grid. , 2017, , .		O
135	Certificateless Provable Data Possession Scheme for Cloud-Based Smart Grid Data Management Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 1232-1241.	7.2	67
136	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
137	Geo-Routing Algorithms and Protocols for Power Line Communications in Smart Grids. IEEE Transactions on Smart Grid, 2018, 9, 1472-1481.	6.2	21
138	Privacy-preserving protocols for secure and reliable data aggregation in IoT-enabled Smart Metering systems. Future Generation Computer Systems, 2018, 78, 547-557.	4.9	111
139	Decentralized Cloud-SDN Architecture in Smart Grid: A Dynamic Pricing Model. IEEE Transactions on Industrial Informatics, 2018, 14, 1220-1231.	7.2	98
140	OpenAMI: Software-Defined AMI Load Balancing. IEEE Internet of Things Journal, 2018, 5, 206-218.	5.5	22
141	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
142	The impact of transmission power levels set size on lifetime of wireless sensor networks in smart grids. Turkish Journal of Electrical Engineering and Computer Sciences, 2018, 26, 3058-3072.	0.9	0
143	An Analytical Model of Energy-Aware RPL for Wireless Sensor Networks. , 2018, , .		0
144	Efficient Public-Key Revocation Management for Secure Smart Meter Communications Using One-Way Cryptographic Accumulators. , 2018, , .		2
146	IoT-Based Implementation of Field Area Network Using Smart Grid Communication Infrastructure. Smart Cities, 2018, 1, 176-189.	5 . 5	26
147	Physicochemical characteristics of tuber modified by acetylation method and its application in dry noodle product. IOP Conference Series: Earth and Environmental Science, 0, 205, 012044.	0.2	1
148	Providing a New Energy Management Approach in Smart Homes Using the Glowpan Protocol., 2018,,.		1
149	Volunteers in the Smart City: Comparison of Contribution Strategies on Human-Centered Measures. Sensors, 2018, 18, 3707.	2.1	8

#	ARTICLE	IF	CITATIONS
150	Cross Layer Optimization and Simulation of Smart Grid Home Area Network. Modelling and Simulation in Engineering, 2018, 2018, 1-14.	0.4	2
151	Smart grid communication and information technologies in the perspective of Industry 4.0: Opportunities and challenges. Computer Science Review, 2018, 30, 1-30.	10.2	251
152	Implementation of a Smart Grid Communication System Compliant with IEEE 2030.5., 2018, , .		8
153	Trends and Future Directions of Research for Smart Grid IoT Sensor Networks. , 2018, , 45-61.		11
154	A comparison of cyber-security oriented testbeds for IoT-based smart grids. , 2018, , .		9
155	Energy Management With a World-Wide Adaptive Thermostat Using Fuzzy Inference System. IEEE Access, 2018, 6, 33489-33502.	2.6	14
156	Optimal Deployment of FiWi Networks Using Heuristic Method for Integration Microgrids with Smart Metering. Sensors, 2018, 18, 2724.	2.1	8
158	Ticket-based QoS routing optimization using genetic algorithm for WSN applications in smart grid. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1325-1338.	3.3	38
159	Generating Scale-Free Topology for Wireless Neighborhood Area Networks in Smart Grid. IEEE Transactions on Smart Grid, 2019, 10, 4245-4252.	6.2	22
160	Comparative Analysis of Transmission Power Level and Packet Size Optimization Strategies for WSNs. IEEE Systems Journal, 2019, 13, 2264-2274.	2.9	11
161	A Two-Stage Household Electricity Demand Estimation Approach Based on Edge Deep Sparse Coding. Information (Switzerland), 2019, 10, 224.	1.7	5
162	A Survey on Communication Technologies in Smart Grid. , 2019, , .		27
163	Smart grid network architectures. , 2019, , 97-118.		0
164	Demonstrability of Narrowband Internet of Things technology in advanced metering infrastructure. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	1.5	21
165	Routing Protocols for Low Power and Lossy Networks in Internet of Things Applications. Sensors, 2019, 19, 2144.	2.1	76
166	Computer Networks. Communications in Computer and Information Science, 2019, , .	0.4	2
167	Future Generation 5G Wireless Networks for Smart Grid: A Comprehensive Review. Energies, 2019, 12, 2140.	1.6	108
168	SDN-enabled recovery for Smart Grid teleprotection applications in post-disaster scenarios. Journal of Network and Computer Applications, 2019, 138, 39-50.	5.8	14

#	ARTICLE	IF	Citations
170	Key Management Systems for Smart Grid Advanced Metering Infrastructure: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 2831-2848.	24.8	171
172	RPL Routing Protocol Performance in Smart Grid Applications Based Wireless Sensors: Experimental and Simulated Analysis. Electronics (Switzerland), 2019, 8, 186.	1.8	36
173	Survey of Communication Techniques in Smart Grids. , 2019, , .		3
174	Optimal placement of data concentrators for expansion of the smart grid communications network. IET Smart Grid, 2019, 2, 537-548.	1.5	6
175	Stabilising control strategy for cyberâ€physical power systems. IET Cyber-Physical Systems: Theory and Applications, 2019, 4, 265-275.	1.9	14
176	A Review on Importance of Smart Grid in Electrical Power System., 2019,,.		5
177	Impact of communication systems on grid node voltage and operation of a vehicleâ€toâ€grid controller in a smartâ€grid scenario. IET Power Electronics, 2019, 12, 3499-3509.	1.5	6
178	Introduction to Smart Grid Architecture. Engergy Systems in Electrical Engineering, 2019, , 3-45.	0.5	17
179	Robust Advanced Metering Infrastructures and Networks for Smart Grid. Engergy Systems in Electrical Engineering, 2019, , 551-605.	0.5	3
180	Efficient certificate revocation management schemes for IoT-based advanced metering infrastructures in smart cities. Ad Hoc Networks, 2019, 92, 101801.	3.4	16
181	A Survey of Limitations and Enhancements of the IPv6 Routing Protocol for Low-Power and Lossy Networks: A Focus on Core Operations. IEEE Communications Surveys and Tutorials, 2019, 21, 1607-1635.	24.8	92
182	Smart Metering Technology., 2019,, 97-137.		5
183	SDN-Based Quality of Service Networking for Wide Area Measurement System. IEEE Transactions on Industrial Informatics, 2020, 16, 3018-3028.	7.2	29
184	Lightweight Cipher Using GRP Bit Permutation and Tweak. Advances in Intelligent Systems and Computing, 2020, , 1050-1059.	0.5	O
185	A Game Theoretic Model for the Multiperiodic Smart Grid Demand Response Problem. IEEE Systems Journal, 2020, 14, 1147-1158.	2.9	11
186	Constrained Broadcast With Minimized Latency in Neighborhood Area Networks of Smart Grid. IEEE Transactions on Industrial Informatics, 2020, 16, 309-318.	7.2	15
187	A Survey of Denial-of-Service Attacks and Solutions in the Smart Grid. IEEE Access, 2020, 8, 177447-177470.	2.6	80
188	Control Networks and Smart Grid Teleprotection: Key Aspects, Technologies, Protocols, and Case-Studies. IEEE Access, 2020, 8, 174049-174079.	2.6	22

#	Article	IF	CITATIONS
189	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
190	Broadcast and Reliable Coverage based Efficient Recursive Routing in Large-Scale WSNs. Telecommunication Systems, 2020, 75, 63-78.	1.6	5
191	Robust Smart Grid Monitoring Network Based on Direct Sequence Spread Spectrum Intelligence. SN Computer Science, 2020, 1, 1.	2.3	0
192	An adaptive packets hopping mechanism for transmission line monitoring systems with a long chain topology. International Journal of Electrical Power and Energy Systems, 2021, 124, 106394.	3.3	9
193	Communication-efficient certificate revocation management for Advanced Metering Infrastructure and IoT Integration. Future Generation Computer Systems, 2021, 115, 267-278.	4.9	3
194	Formal Verification of ZigBee-Based Routing Protocol for Smart Grids. Advances in Information Quality and Management, 2021, , 1002-1017.	0.3	0
195	Application of Data Mining in Smart Grid Technology. Advances in Information Quality and Management, 2021, , 815-827.	0.3	1
196	A Review on Requirements for Data Communication and Information Technology Areas for Smart Grid. Lecture Notes in Electrical Engineering, 2021, , 3259-3271.	0.3	2
197	CVSS Based Attack Analysis Using a Graphical Security Model: Review and Smart Grid Case Study. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 116-134.	0.2	1
198	Lightweight authentication protocol in edge-based smart grid environment. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	1.5	14
199	A fault tolerant routing scheme for advanced metering infrastructure: an approach towards smart grid. Cluster Computing, 2021, 24, 2193-2211.	3.5	15
200	DensityÂBasedÂFuzzy C MeansÂClustering to prolong NetworkÂÂLifetimeÂinÂSmart Grids. Wireless Personal Communications, 2021, 119, 2817-2836.	1.8	3
201	The use of supercapacitor in smart metering gateway. International Journal of Energy Applications and Technologies, 2021, 8, 53-59.	0.1	0
202	A Review on Various Routing Protocol Designing Features for Flying Ad Hoc Networks. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 315-325.	0.5	12
203	IoT-Based Management of Smart Microgrid. , 2022, , 833-842.		0
204	Application of Data Mining in Smart Grid Technology. , 2022, , 869-882.		0
205	Formal Verification of ZigBee-Based Routing Protocol for Smart Grids. , 2022, , 942-957.		0
206	Transforming the Catholic University of Lille Campus into a Smart Grid. Lecture Notes in Information Systems and Organisation, 2021, , 177-184.	0.4	1

#	Article	IF	Citations
207	A Resilient Dynamic Gateway Selection Algorithm Based on Quality Aware Metrics for Smart Grids. , 2015, , .		6
209	A specter of logical challenges haunts smart grid. International Journal of Smart Grid and Clean Energy, 2013, , 383-397.	0.4	5
210	Proof-of-PUF Enabled Blockchain: Concurrent Data and Device Security for Internet-of-Energy. Sensors, 2021, 21, 28.	2.1	22
211	loT-Based Management of Smart Microgrid. Advances in Multimedia and Interactive Technologies Book Series, 2019, , 1-13.	0.1	1
212	Improving the AODV Protocol to Satisfy the Required Level of Reliability for Home Area Networks. International Journal of Computer Network and Information Security, 2016, 8, 22-28.	1.8	2
213	A Study of Power Line Communication-based Smart Outlet System Expandable at Home. Journal of Korea Multimedia Society, 2016, 19, 901-909.	0.1	6
214	Design and Implementation of Optical Fiber Communication System for Field Area Networks of Smart Grid., 2013,,.		2
215	FLAME: A Flexible and Low-Power Architecture for Wireless Mesh Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 171-184.	0.2	0
216	An Efficient and Secure ARP for Large-Scale IEEE 802.11s-based Smart Grid Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 214-228.	0.2	1
217	Wireless Routing Protocols for NANs. SpringerBriefs in Computer Science, 2014, , 51-69.	0.2	0
218	Power Management in Microgrids. Advances in Computational Intelligence and Robotics Book Series, 2014, , 141-164.	0.4	1
219	An Innovative Transport Layer Protocol for Smart Grid Communications. International Journal of Computer Applications, 2014, 96, 37-42.	0.2	0
220	Light Routing Algorithm for Utility Networks. Journal of Networks, 2014, 9, .	0.4	0
221	A Novel Energy-Efficient Architecture Based on QoS for the Smart Grid. Journal of Clean Energy Technologies, 2015, 3, 247-253.	0.1	0
222	An Energy-Efficient and Low-Latency MAC Protocol in Smart Grid (SG-MAC). Journal of Clean Energy Technologies, 2015, 3, 242-246.	0.1	1
223	Implementation of Flooding Free Routing in Smart Grid. Advances in Environmental Engineering and Green Technologies Book Series, 2016, , 298-322.	0.3	0
226	Implementation of the AODV Routing Protocol for Message Notification in a Wireless Sensor Microgrid. Communications in Computer and Information Science, 2018, , 357-369.	0.4	2
227	Related Research. Advances in Computer and Electrical Engineering Book Series, 2018, , 1-21.	0.2	0

#	Article	IF	Citations
228	Optimization of Routing in Smart Grids Using Intelligent Techniques. SSRN Electronic Journal, 0, , .	0.4	0
229	Cost- and reliability-oriented aggregation point association in long-term evolution and passive optical network hybrid access infrastructure for smart grid neighborhood area network. Optical Engineering, 2018, 57, 1.	0.5	1
230	A Highly Reliable and Efficient-Route-Recovery Routing Algorithm for Smart Grid Neighborhood Area Networks. DEStech Transactions on Computer Science and Engineering, 2018, , .	0.1	0
231	Communication Model of Smart Substation for Cyber-Detection Systems. Communications in Computer and Information Science, 2019, , 256-271.	0.4	4
232	Threats and Challenges of Smart Grids Deployments - A Developing Nations' Perspective. ELEKTRIKA- Journal of Electrical Engineering, 2019, 18, 33-43.	0.2	1
233	Smart Grid communication applications: measurement equipment and networks architecture for data and energy flow. Journal of Mechatronics, Electrical Power, and Vehicular Technology, 2019, 10, 73-84.	0.2	0
234	Smart Grids and Green Wireless Communications. , 2020, , 1-35.		0
235	Lightweight Secure Technology Future of Internet of Things. Studies in Systems, Decision and Control, 2020, , 305-321.	0.8	0
236	Study of IPv6 Protocol in the Data Model of the Smart Grid Distribution Domain. IngenierÃa Solidaria, 2020, 16, .	0.1	0
237	A specialized review on outlook of future Cyber-Physical Power System (CPPS) testbeds for securing electric power grid. International Journal of Electrical Power and Energy Systems, 2022, 136, 107720.	3.3	25
238	A holistic review on Cyber-Physical Power System (CPPS) testbeds for secure and sustainable electric power grid $\hat{a} \in \text{``Part } \hat{a} \in \text{``I:}$ Background on CPPS and necessity of CPPS testbeds. International Journal of Electrical Power and Energy Systems, 2022, 136, 107718.	3.3	14
239	A New Framework for Increasing the Sustainability of Infrastructure Measurement of Smart Grid. Kiyfiyyat Va Bahrah/varÄ«-i á¹£anl'at-i Barq-i ĪrÄn, 2020, 8, 10-21.	0.1	0
240	Implementation of Flooding Free Routing in Smart Grid., 0,, 575-598.		0
241	An Efficient and Secure ARP for Large-Scale IEEE 802.11s-based Smart Grid Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 214-228.	0.2	2
242	Improved Cluster Based Routing Algorithm for Wireless Sensor Networks. , 2020, , .		0
243	Guidance on Communication Media Selection for Advanced Metering Infrastructure in Indonesia. , 2021, , .		4
244	A holistic review on Cyber-Physical Power System (CPPS) testbeds for secure and sustainable electric power grid $\hat{a} \in \mathbb{C}$ Part $\hat{a} \in \mathbb{C}$ II: Classification, overview and assessment of CPPS testbeds. International Journal of Electrical Power and Energy Systems, 2022, 137, 107721.	3.3	9
245	Demand Response Application as a Service: An SDN-Based Management Framework. IEEE Transactions on Smart Grid, 2022, 13, 1952-1966.	6.2	8

#	Article	IF	CITATIONS
246	Containerization: For Over-the-Air Programming of Field Deployed Internet-of-Energy Based on Cost Effective LPWAN. , 2020, , .		0
247	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
248	Towards a high precision in AMI-based smart meters and new technologies in the smart grid. Sustainable Computing: Informatics and Systems, 2022, 35, 100690.	1.6	5
249	Communication Technologies for Smart Grid: A Comprehensive Survey. Sensors, 2021, 21, 8087.	2.1	71
252	Secure Smart Grid Management Maturity Within Big Data. Impact of Meat Consumption on Health and Environmental Sustainability, 2022, , 221-244.	0.4	0
253	Understanding Microgrid Sustainability: A Systemic and Comprehensive Review. Energies, 2022, 15, 2906.	1.6	15
254	An Efficient Framework for Securing the Smart City Communication Networks. Sensors, 2022, 22, 3053.	2.1	5
256	A Supervisor-Based Control Architecture for Constrained Cyber-Physical Systems Subject to Network Attacks. IEEE Transactions on Control of Network Systems, 2022, , 1-11.	2.4	1
257	GridAttackAnalyzer: A Cyber Attack Analysis Framework for Smart Grids. Sensors, 2022, 22, 4795.	2.1	4
258	Micro-flexibility: Challenges for power system modeling and control. Electric Power Systems Research, 2023, 216, 109002.	2.1	2
259	A selfish node trust aware with Optimized Clustering for reliable routing protocol in Manet. Measurement: Sensors, 2023, 26, 100680.	1.3	5
260	Evaluation of the Safety Aspects of Using Electric Vehicle Home Charging Devices in Indonesia. , 2022, , .		0
261	Insights and New Practices for Advanced Metering Infrastructure and Smart Energy Metering Framework in Smart Grid- A Case Study. , 2022, , .		2
262	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
263	Research and Implementation of Intelligent Recovery Technology for Fault Routing in Power Communication Networks Based on Deep Learning. , 2022, , .		0
265	A Historic-Best Particle Swarm Optimization Approach for Trust-based Routing in Smart Grid Networks. , 2023, , .		0
266	The Role of Data Collection, Storage, and Processing in the Intelligent Energy Systems of Tomorrow. , 2023, , 1733-1755.		0
267	Edge computing based An Efficient Lightweight authentication protocol for Smart Grid communication., 2023,,.		0

#	Article	IF	CITATIONS
268	The Communication and Security Technology of IoT. , 2023, , 211-299.		0
269	Improving the Reliability in Smart Grid Neighbourhood Area Networks by Avoiding Frequent Path Selection. , 2023, , .		O