

# Nadeem Javaid

## List of Publications by Citations

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

772 papers	10,209 citations	45 h-index	75 g-index
854 ext. papers	13,118 ext. citations	2 avg, IF	7.05 L-index

#	Paper	IF	Citations
772	Modeling Routing Overhead of Reactive Protocols at Link Layer and Network Layer in Wireless Multihop Networks. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-14	1.1	878
771	Exploiting heuristic algorithms to efficiently utilize energy management controllers with renewable energy sources. <i>Energy and Buildings</i> , <b>2016</b> , 129, 452-470	7	200
770	A review of wireless communications for smart grid. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 41, 248-260	16.2	197
769	Intelligence in IoT-Based 5G Networks: Opportunities and Challenges. <i>IEEE Communications Magazine</i> , <b>2018</b> , 56, 94-100	9.1	162
768	M-ATTEMPT: A New Energy-Efficient Routing Protocol for Wireless Body Area Sensor Networks. <i>Procedia Computer Science</i> , <b>2013</b> , 19, 224-231	1.6	139
767	An Optimized Home Energy Management System with Integrated Renewable Energy and Storage Resources. <i>Energies</i> , <b>2017</b> , 10, 549	3.1	123
766	A Hybrid Genetic Wind Driven Heuristic Optimization Algorithm for Demand Side Management in Smart Grid. <i>Energies</i> , <b>2017</b> , 10, 319	3.1	112
765	. <i>IEEE Access</i> , <b>2017</b> , 5, 13587-13600	3.5	103
764	MODLEACH: A Variant of LEACH for WSNs <b>2013</b> ,		100
763	Towards Dynamic Coordination Among Home Appliances Using Multi-Objective Energy Optimization for Demand Side Management in Smart Buildings. <i>IEEE Access</i> , <b>2018</b> , 6, 19509-19529	3.5	95
762	EDDEEC: Enhanced Developed Distributed Energy-efficient Clustering for Heterogeneous Wireless Sensor Networks. <i>Procedia Computer Science</i> , <b>2013</b> , 19, 914-919	1.6	94
761	Blockchain-Based Agri-Food Supply Chain: A Complete Solution. <i>IEEE Access</i> , <b>2020</b> , 8, 69230-69243	3.5	90
760	An Efficient Power Scheduling Scheme for Residential Load Management in Smart Homes. <i>Applied Sciences (Switzerland)</i> , <b>2015</b> , 5, 1134-1163	2.6	81
759	iM-SIMPLE: iMproved stable increased-throughput multi-hop link efficient routing protocol for Wireless Body Area Networks. <i>Computers in Human Behavior</i> , <b>2015</b> , 51, 1003-1011	7.7	79
758	. <i>IEEE Access</i> , <b>2018</b> , 6, 77077-77096	3.5	77
757	SIMPLE: Stable Increased-Throughput Multi-hop Protocol for Link Efficiency in Wireless Body Area Networks <b>2013</b> ,		76
756	Co-LAEIBA: Cooperative link aware and energy efficient protocol for wireless body area networks. <i>Computers in Human Behavior</i> , <b>2015</b> , 51, 1205-1215	7.7	76

755	An Efficient Demand Side Management System with a New Optimized Home Energy Management Controller in Smart Grid. <i>Energies</i> , <b>2018</b> , 11, 190	3.1	75
754	$\$(ACH)^{2\$}$ : Routing Scheme to Maximize Lifetime and Throughput of Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 3516-3532	4	75
753	Towards Efficient Energy Management of Smart Buildings Exploiting Heuristic Optimization with Real Time and Critical Peak Pricing Schemes. <i>Energies</i> , <b>2017</b> , 10, 2065	3.1	74
752	A Secure Data Sharing Platform Using Blockchain and Interplanetary File System. <i>Sustainability</i> , <b>2019</b> , 11, 7054	3.6	72
751	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 2587-2596	11.9	70
750	A new heuristically optimized Home Energy Management controller for smart grid. <i>Sustainable Cities and Society</i> , <b>2017</b> , 34, 211-227	10.1	68
749	RE-ATTEMPT: A New Energy-Efficient Routing Protocol for Wireless Body Area Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , <b>2014</b> , 10, 464010	1.7	68
748	BEENISH: Balanced Energy Efficient Network Integrated Super Heterogeneous Protocol for Wireless Sensor Networks. <i>Procedia Computer Science</i> , <b>2013</b> , 19, 920-925	1.6	67
747	Electricity Price and Load Forecasting using Enhanced Convolutional Neural Network and Enhanced Support Vector Regression in Smart Grids. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 122	2.6	65
746	Q-LEACH: A New Routing Protocol for WSNs. <i>Procedia Computer Science</i> , <b>2013</b> , 19, 926-931	1.6	64
745	Data Sharing System Integrating Access Control Mechanism using Blockchain-Based Smart Contracts for IoT Devices. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 488	2.6	63
744	TSEP: Threshold-Sensitive Stable Election Protocol for WSNs <b>2012</b> ,		63
743	A survey on deep learning methods for power load and renewable energy forecasting in smart microgrids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 144, 110992	16.2	59
742	A generic demand-side management model for smart grid. <i>International Journal of Energy Research</i> , <b>2015</b> , 39, 954-964	4.5	58
741	Survey of Extended LEACH-Based Clustering Routing Protocols for Wireless Sensor Networks <b>2012</b> ,		58
740	Pakistan's overall energy potential assessment, comparison of LNG, TAPI and IPI gas projects. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 31, 182-193	16.2	56
739	Realistic Scheduling Mechanism for Smart Homes. <i>Energies</i> , <b>2016</b> , 9, 202	3.1	56
738	Deep learning model integrating features and novel classifiers fusion for brain tumor segmentation. <i>Microscopy Research and Technique</i> , <b>2019</b> , 82, 1302-1315	2.8	53

737	. <i>IEEE Sensors Journal</i> , <b>2016</b> , 16, 4431-4442	4	53
736	. <i>IEEE Access</i> , <b>2017</b> , 5, 10040-10051	3.5	52
735	DEADS: Depth and Energy Aware Dominating Set Based Algorithm for Cooperative Routing along with Sink Mobility in Underwater WSNs. <i>Sensors</i> , <b>2015</b> , 15, 14458-86	3.8	51
734	Towards efficient energy management in smart grids considering microgrids with day-ahead energy forecasting. <i>Electric Power Systems Research</i> , <b>2020</b> , 182, 106232	3.5	50
733	Hybrid meta-heuristic optimization based home energy management system in smart grid. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2019</b> , 10, 4837-4853	3.7	49
732	Deep Long Short-Term Memory: A New Price and Load Forecasting Scheme for Big Data in Smart Cities. <i>Sustainability</i> , <b>2019</b> , 11, 987	3.6	49
731	CloudFogBased Smart Grid Model for Efficient Resource Management. <i>Sustainability</i> , <b>2018</b> , 10, 2079	3.6	49
730	A Cloud-Fog-Based Smart Grid Model for Efficient Resource Utilization <b>2018</b> ,		49
729	A Blockchain-Based Load Balancing in Decentralized Hybrid P2P Energy Trading Market in Smart Grid. <i>IEEE Access</i> , <b>2020</b> , 8, 47047-47062	3.5	48
728	iAMCTD: Improved Adaptive Mobility of Courier Nodes in Threshold-Optimized DBR Protocol for Underwater Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , <b>2014</b> , 10, 213012	1.7	47
727	Short-Term Load Forecasting in Smart Grids: An Intelligent Modular Approach. <i>Energies</i> , <b>2019</b> , 12, 164	3.1	45
726	Optimal Residential Load Scheduling Under Utility and Rooftop Photovoltaic Units. <i>Energies</i> , <b>2018</b> , 11, 611	3.1	45
725	Delay and energy consumption analysis of priority guaranteed MAC protocol for wireless body area networks. <i>Wireless Networks</i> , <b>2017</b> , 23, 1249-1266	2.5	44
724	Fault Detection in Wireless Sensor Networks through the Random Forest Classifier. <i>Sensors</i> , <b>2019</b> , 19,	3.8	44
723	Fuzzy energy management controller and scheduler for smart homes. <i>Sustainable Computing: Informatics and Systems</i> , <b>2019</b> , 21, 103-118	3	44
722	An Intelligent Hybrid Heuristic Scheme for Smart Metering based Demand Side Management in Smart Homes. <i>Energies</i> , <b>2017</b> , 10, 1258	3.1	43
721	Real Time Information Based Energy Management Using Customer Preferences and Dynamic Pricing in Smart Homes. <i>Energies</i> , <b>2016</b> , 9, 542	3.1	42
720	An Enhanced Energy Balanced Data Transmission Protocol for Underwater Acoustic Sensor Networks. <i>Sensors</i> , <b>2016</b> , 16,	3.8	42

719	Time and device based priority induced comfort management in smart home within the consumer budget limitation. <i>Sustainable Cities and Society</i> , <b>2018</b> , 41, 538-555	10.1	41
718	AEDG: AUV-aided Efficient Data Gathering Routing Protocol for Underwater Wireless Sensor Networks. <i>Procedia Computer Science</i> , <b>2015</b> , 52, 568-575	1.6	41
717	Priority and delay constrained demand side management in real-time price environment with renewable energy source. <i>International Journal of Energy Research</i> , <b>2016</b> , 40, 2002-2021	4.5	40
716	A Blockchain Model for Fair Data Sharing in Deregulated Smart Grids <b>2019</b> ,		40
715	Cloud Based Secure Service Providing for IoTs Using Blockchain <b>2019</b> ,		40
714	Towards Optimization of Metaheuristic Algorithms for IoT Enabled Smart Homes Targeting Balanced Demand and Supply of Energy. <i>IEEE Access</i> , <b>2019</b> , 7, 24267-24281	3.5	40
713	Co-UWSN: Cooperative Energy-Efficient Protocol for Underwater WSNs. <i>International Journal of Distributed Sensor Networks</i> , <b>2015</b> , 11, 891410	1.7	39
712	Towards Cost and Comfort Based Hybrid Optimization for Residential Load Scheduling in a Smart Grid. <i>Energies</i> , <b>2017</b> , 10, 1546	3.1	38
711	An Efficient Data-Gathering Routing Protocol for Underwater Wireless Sensor Networks. <i>Sensors</i> , <b>2015</b> , 15, 29149-81	3.8	38
710	Efficient Data Gathering in 3D Linear Underwater Wireless Sensor Networks Using Sink Mobility. <i>Sensors</i> , <b>2016</b> , 16,	3.8	38
709	Towards Efficient Energy Management and Power Trading in a Residential Area via Integrating a Grid-Connected Microgrid. <i>Sustainability</i> , <b>2018</b> , 10, 1245	3.6	38
708	Delay-Sensitive Routing Schemes for Underwater Acoustic Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , <b>2015</b> , 11, 532676	1.7	37
707	An overview of load management techniques in smart grid. <i>International Journal of Energy Research</i> , <b>2015</b> , 39, 1437-1450	4.5	37
706	Blockchain-Based Secure Data Storage for Distributed Vehicular Networks. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2011	2.6	36
705	Efficient Power Scheduling in Smart Homes Using Hybrid Grey Wolf Differential Evolution Optimization Technique with Real Time and Critical Peak Pricing Schemes. <i>Energies</i> , <b>2018</b> , 11, 384	3.1	36
704	AMCTD: Adaptive Mobility of Courier Nodes in Threshold-Optimized DBR Protocol for Underwater Wireless Sensor Networks <b>2013</b> ,		36
703	A Balanced Energy-Consuming and Hole-Alleviating Algorithm for Wireless Sensor Networks. <i>IEEE Access</i> , <b>2017</b> , 5, 6134-6150	3.5	35
702	A Review on Demand Response: Pricing, Optimization, and Appliance Scheduling. <i>Procedia Computer Science</i> , <b>2015</b> , 52, 843-850	1.6	35

701	Home Appliances Coordination Scheme for Energy Management (HACS4EM) Using Wireless Sensor Networks in Smart Grids. <i>Procedia Computer Science</i> , <b>2014</b> , 32, 469-476	1.6	35
700	Exploiting Deep Learning for Wind Power Forecasting Based on Big Data Analytics. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4417	2.6	35
699	An Efficient Power Scheduling in Smart Homes Using Jaya Based Optimization with Time-of-Use and Critical Peak Pricing Schemes. <i>Energies</i> , <b>2018</b> , 11, 3155	3.1	35
698	Blockchain Based Sustainable Local Energy Trading Considering Home Energy Management and Demurrage Mechanism. <i>Sustainability</i> , <b>2020</b> , 12, 3385	3.6	34
697	M-GEAR: Gateway-Based Energy-Aware Multi-hop Routing Protocol for WSNs <b>2013</b> ,		34
696	Demand Side Management in Nearly Zero Energy Buildings Using Heuristic Optimizations. <i>Energies</i> , <b>2017</b> , 10, 1131	3.1	34
695	Performance study of ETX based wireless routing metrics <b>2009</b> ,		34
694	Day Ahead Real Time Pricing and Critical Peak Pricing Based Power Scheduling for Smart Homes with Different Duty Cycles. <i>Energies</i> , <b>2018</b> , 11, 1464	3.1	34
693	. <i>IEEE Access</i> , <b>2017</b> , 5, 15206-15221	3.5	33
692	SEDG: Scalable and Efficient Data Gathering Routing Protocol for Underwater WSNs. <i>Procedia Computer Science</i> , <b>2015</b> , 52, 584-591	1.6	33
691	A Modified Feature Selection and Artificial Neural Network-Based Day-Ahead Load Forecasting Model for a Smart Grid. <i>Applied Sciences (Switzerland)</i> , <b>2015</b> , 5, 1756-1772	2.6	33
690	Distance Aware Relaying Energy-Efficient: DARE to Monitor Patients in Multi-hop Body Area Sensor Networks <b>2013</b> ,		33
689	IoT Operating System Based Fuzzy Inference System for Home Energy Management System in Smart Buildings. <i>Sensors</i> , <b>2018</b> , 18,	3.8	33
688	LSTM and Bat-Based RUSBoost Approach for Electricity Theft Detection. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4378	2.6	32
687	An Incentive-based Optimal Energy Consumption Scheduling Algorithm for Residential Users. <i>Procedia Computer Science</i> , <b>2015</b> , 52, 851-857	1.6	32
686	Cloud-based decision support system for the detection and classification of malignant cells in breast cancer using breast cytology images. <i>Microscopy Research and Technique</i> , <b>2019</b> , 82, 775-785	2.8	31
685	Short-Term Electric Load and Price Forecasting Using Enhanced Extreme Learning Machine Optimization in Smart Grids. <i>Energies</i> , <b>2019</b> , 12, 866	3.1	31
684	Mobile Sinks Assisted Geographic and Opportunistic Routing Based Interference Avoidance for Underwater Wireless Sensor Network. <i>Sensors</i> , <b>2018</b> , 18,	3.8	31

683	Scheduling Appliances with GA, TLBO, FA, OSR and Their Hybrids Using Chance Constrained Optimization for Smart Homes. <i>Energies</i> , <b>2018</b> , 11, 888	3.1	31
682	An Efficient Genetic Algorithm Based Demand Side Management Scheme for Smart Grid <b>2015</b> ,		31
681	Energy Efficient Sleep Awake Aware (EESAA) intelligent Sensor Network routing protocol <b>2012</b> ,		31
680	Interference and bandwidth adjusted ETX in wireless multi-hop networks <b>2010</b> ,		31
679	Secure Service Provisioning Scheme for Lightweight IoT Devices With a Fair Payment System and an Incentive Mechanism Based on Blockchain. <i>IEEE Access</i> , <b>2020</b> , 8, 1048-1061	3.5	31
678	Electricity Load and Price Forecasting Using Jaya-Long Short Term Memory (JLSTM) in Smart Grids. <i>Entropy</i> , <b>2019</b> , 22,	2.8	31
677	An energy-efficient distributed clustering algorithm for heterogeneous WSNs. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2015</b> , 2015,	3.2	30
676	A survey on hyperparameters optimization algorithms of forecasting models in smart grid. <i>Sustainable Cities and Society</i> , <b>2020</b> , 61, 102275	10.1	30
675	. <i>Journal of Communications and Networks</i> , <b>2012</b> , 14, 434-442	4.1	30
674	A Comprehensive Survey of MAC Protocols for Wireless Body Area Networks <b>2012</b> ,		30
673	Energy Optimization in Smart Homes Using Customer Preference and Dynamic Pricing. <i>Energies</i> , <b>2016</b> , 9, 593	3.1	30
672	Enhanced TDMA based MAC protocol for adaptive data control in wireless sensor networks. <i>Journal of Communications and Networks</i> , <b>2015</b> , 17, 247-255	4.1	29
671	An Innovative Heuristic Algorithm for IoT-Enabled Smart Homes for Developing Countries. <i>IEEE Access</i> , <b>2018</b> , 6, 15550-15575	3.5	29
670	Region based cooperative routing in underwater wireless sensor networks. <i>Journal of Network and Computer Applications</i> , <b>2017</b> , 92, 31-41	7.9	28
669	A Localization-Free Interference and Energy Holes Minimization Routing for Underwater Wireless Sensor Networks. <i>Sensors</i> , <b>2018</b> , 18,	3.8	28
668	A blockchain based incentive provisioning scheme for traffic event validation and information storage in VANETs. <i>Information Processing and Management</i> , <b>2021</b> , 58, 102464	6.3	28
667	Towards Reliable and Energy-Efficient Incremental Cooperative Communication for Wireless Body Area Networks. <i>Sensors</i> , <b>2016</b> , 16, 284	3.8	28
666	. <i>IEEE Access</i> , <b>2017</b> , 5, 11582-11593	3.5	27

665	Enhanced Time-of-Use Electricity Price Rate Using Game Theory. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 48	2.6	27
664	Chain-based communication in cylindrical underwater wireless sensor networks. <i>Sensors</i> , <b>2015</b> , 15, 3625-3638	3.8	27
663	. <i>IEEE Access</i> , <b>2018</b> , 6, 34670-34690	3.5	27
662	A Domestic Microgrid with Optimized Home Energy Management System. <i>Energies</i> , <b>2018</b> , 11, 1002	3.1	27
661	LAEEBA: Link Aware and Energy Efficient Scheme for Body Area Networks <b>2014</b> ,		27
660	A New Scheme for Demand Side Management in Future Smart Grid Networks. <i>Procedia Computer Science</i> , <b>2014</b> , 32, 477-484	1.6	27
659	HEER: Hybrid Energy Efficient Reactive protocol for Wireless Sensor Networks <b>2013</b> ,		27
658	Minimizing Electricity Theft Using Smart Meters in AMI <b>2012</b> ,		27
657	<b>2011</b> ,		27
656	ESAENARX and DE-RELM: Novel schemes for big data predictive analytics of electricity load and price. <i>Sustainable Cities and Society</i> , <b>2019</b> , 51, 101642	10.1	26
655	Fog Computing Over IoT: A Secure Deployment and Formal Verification. <i>IEEE Access</i> , <b>2017</b> , 5, 27132-27144	3.5	26
654	Electricity Theft Detection Using Supervised Learning Techniques on Smart Meter Data. <i>Sustainability</i> , <b>2020</b> , 12, 8023	3.6	26
653	<b>2018</b> ,		26
652	Detection of Non-Technical Losses Using SOSTLink and Bidirectional Gated Recurrent Unit to Secure Smart Meters. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3151	2.6	25
651	Towards Effective and Efficient Energy Management of Single Home and a Smart Community Exploiting Heuristic Optimization Algorithms with Critical Peak and Real-Time Pricing Tariffs in Smart Grids. <i>Energies</i> , <b>2018</b> , 11, 3125	3.1	25
650	On Performance Evaluation of Variants of DEEC in WSNs <b>2012</b> ,		24
649	ACH: Away cluster heads scheme for Energy Efficient Clustering Protocols in WSNs <b>2013</b> ,		23
648	CEEC: Centralized energy efficient clustering a new routing protocol for WSNs <b>2012</b> ,		23



647	Demand Side Management Using Hybrid Bacterial Foraging and Genetic Algorithm Optimization Techniques <b>2016,</b>		23
646	An Efficient Energy Management Approach Using Fog-as-a-Service for Sharing Economy in a Smart Grid. <i>Energies</i> , <b>2018</b> , 11, 3500	3.1	23
645	. <i>IEEE Access</i> , <b>2019</b> , 7, 140102-140125	3.5	22
644	A Survey of Home Energy Management Systems in Future Smart Grid Communications <b>2013,</b>		22
643	Jaya Learning-Based Optimization for Optimal Sizing of Stand-Alone Photovoltaic, Wind Turbine, and Battery Systems. <i>Engineering</i> , <b>2020</b> , 6, 812-826	9.7	22
642	Blockchain Based Data and Energy Trading in Internet of Electric Vehicles. <i>IEEE Access</i> , <b>2021</b> , 9, 7000-70205	3.5	22
641	Buffer-Aided Relay Selection With Equal-Weight Links in Cooperative Wireless Networks. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 133-136	3.8	21
640	Residential Energy Consumption Controlling Techniques to Enable Autonomous Demand Side Management in Future Smart Grid Communications <b>2013,</b>		21
639	Modeling mobility and psychological stress based human postural changes in wireless body area networks. <i>Computers in Human Behavior</i> , <b>2015</b> , 51, 1042-1053	7.7	21
638	CoDBR: Cooperative Depth Based Routing for Underwater Wireless Sensor Networks <b>2014,</b>		21
637	DRADS: depth and reliability aware delay sensitive cooperative routing for underwater wireless sensor networks. <i>Wireless Networks</i> , <b>2019</b> , 25, 777-789	2.5	21
636	A priority-induced demand side management system to mitigate rebound peaks using multiple knapsack. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2019</b> , 10, 1655-1678	3.7	21
635	Void Hole Avoidance for Reliable Data Delivery in IoT Enabled Underwater Wireless Sensor Networks. <i>Sensors</i> , <b>2018</b> , 18,	3.8	21
634	Multi-agent-based sharing power economy for a smart community. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 2074-2090	4.5	20
633	Towards Delay-sensitive Routing in Underwater Wireless Sensor Networks. <i>Procedia Computer Science</i> , <b>2014</b> , 37, 228-235	1.6	20
632	Effect of Packet Inter-arrival Time on the Energy Consumption of Beacon Enabled MAC Protocol for Body Area Networks. <i>Procedia Computer Science</i> , <b>2014</b> , 32, 579-586	1.6	20
631	Efficient Resource Provisioning for Smart Buildings Utilizing Fog and Cloud Based Environment <b>2018,</b>		20
630	Monitoring square and circular fields with sensors using energy-efficient cluster-based routing for underwater wireless sensor networks. <i>International Journal of Distributed Sensor Networks</i> , <b>2017</b> , 13, 155014771771718	1.7	19

629	. <i>IEEE Access</i> , <b>2020</b> , 8, 16876-16892	3.5	19
628	A convex optimization based decentralized real-time energy management model with the optimal integration of microgrid in smart grid. <i>Journal of Cleaner Production</i> , <b>2019</b> , 236, 117688	10.3	19
627	Adaptive-reliable medium access control protocol for wireless body area networks <b>2012</b> ,		19
626	On Adaptive Energy-Efficient Transmission in WSNs. <i>International Journal of Distributed Sensor Networks</i> , <b>2013</b> , 9, 923714	1.7	19
625	On energy efficiency in underwater wireless sensor networks with cooperative routing. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , <b>2017</b> , 72, 173-188	2	18
624	Game Theoretical Energy Management with Storage Capacity Optimization and Photo-Voltaic Cell Generated Power Forecasting in Micro Grid. <i>Sustainability</i> , <b>2019</b> , 11, 2763	3.6	18
623	An Enhanced Multi-Objective Gray Wolf Optimization for Virtual Machine Placement in Cloud Data Centers. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 218	2.6	18
622	A Relay Based Routing Protocol for Wireless In-Body Sensor Networks. <i>Wireless Personal Communications</i> , <b>2015</b> , 80, 1063-1078	1.9	18
621	Energy consumption model for density controlled divide-and-rule scheme for energy efficient routing in wireless sensor networks. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , <b>2016</b> , 21, 130	0.7	18
620	Realization of VANET-Based Cloud Services through Named Data Networking. <i>IEEE Communications Magazine</i> , <b>2018</b> , 56, 168-175	9.1	18
619	Ubiquitous HealthCare in Wireless Body Area Networks <b>2012</b> ,		18
618	A Meta-Heuristic Home Energy Management System <b>2017</b> ,		17
617	BEC: A novel routing protocol for balanced energy consumption in Wireless Body Area Networks <b>2015</b> ,		17
616	A Combined Deep Learning and Ensemble Learning Methodology to Avoid Electricity Theft in Smart Grids. <i>Energies</i> , <b>2020</b> , 13, 5599	3.1	17
615	An Innovative Home Energy Management Model with Coordination among Appliances using Game Theory. <i>Sustainability</i> , <b>2019</b> , 11, 6287	3.6	17
614	CNN and GRU based Deep Neural Network for Electricity Theft Detection to Secure Smart Grid <b>2020</b> ,		17
613	. <i>IEEE Access</i> , <b>2020</b> , 8, 148622-148643	3.5	17
612	Ant Colony Optimization Based Energy Management Controller for Smart Grid <b>2016</b> ,		17

611	. <i>IEEE Access</i> , <b>2021</b> , 9, 25036-25061	3.5	17
610	A multi-objective energy optimization in smart grid with high penetration of renewable energy sources. <i>Applied Energy</i> , <b>2021</b> , 299, 117104	10.7	17
609	Energy Efficient MAC Protocols <b>2012</b> ,		16
608	Towards Real-Time Energy Management of Multi-Microgrid Using a Deep Convolution Neural Network and Cooperative Game Approach. <i>IEEE Access</i> , <b>2020</b> , 8, 161377-161395	3.5	16
607	Performance Optimization of Priority Assisted CSMA/CA Mechanism of 802.15.6 under Saturation Regime. <i>Sensors</i> , <b>2016</b> , 16,	3.8	16
606	Region Aware Proactive Routing Approaches Exploiting Energy Efficient Paths for Void Hole Avoidance in Underwater WSNs. <i>IEEE Access</i> , <b>2019</b> , 7, 140703-140722	3.5	16
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428	An Energy Consumption Analysis of Beacon Enabled Slotted CSMA/CA IEEE 802.15.4 <b>2014</b> ,		5
427	Co-CEStat: Cooperative Critical Data Transmission in Emergency in Static Wireless Body Area Network <b>2014</b> ,		5
426	Simulation Analysis of Medium Access Techniques <b>2012</b> ,		5
425	On modeling geometric joint sink mobility with delay-tolerant cluster-less Wireless Sensor Networks <b>2013</b> ,		5
424	Optimal Number of Cluster Head Selection for Efficient Distribution of Sources in WSNs <b>2012</b> ,		5
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414	Enhanced Energy Efficient Depth Based Routing Protocol for Underwater WSNs <b>2016</b> ,		5

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411	Cost and Load Reduction Using Heuristic Algorithms in Smart Grid <b>2016</b> ,		5
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406	Towards sustainable smart cities: A secure and scalable trading system for residential homes using blockchain and artificial intelligence. <i>Sustainable Cities and Society</i> , <b>2021</b> , 76, 103371	10.1	5
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404	MEES: Mobile Energy Efficient Square Routing for Underwater Wireless Sensor Networks <b>2017</b> ,		4
403	Multiagent Control System for Residential Energy Management under Real Time Pricing Environment <b>2017</b> ,		4
402	A Balanced Energy Consuming and Hole Alleviating Algorithm for Wireless Sensor Networks <b>2017</b> ,		4
401	BTRS: Buffer-Threshold Based Relay Selection Scheme for Cooperative Wireless Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 23089-23099	3.5	4
400	Demand Response: From Classification to Optimization Techniques in Smart Grid <b>2015</b> ,		4
399	Application of PSO for HEMS and ED in Smart Grid <b>2015</b> ,		4
398	JAYA optimization based energy management controller for smart grid: JAYA optimization based energy management controller <b>2018</b> ,		4
397	Energy Management in Residential Area using Genetic and Strawberry Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 165-176	0.4	4
396	A Smart Home Energy Management Strategy Based on Demand Side Management <b>2016</b> ,		4

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394	An Approach Towards Efficient Scheduling of Home Energy Management System Using Backtracking Search Optimization and Tabu Search <b>2018,</b>		4
393	An Efficient Routing Algorithm for Void Hole Avoidance in Underwater Wireless Sensor Networks <b>2018,</b>		4
392	Time and Device Based Priority Induced Demand Side Load Management in Smart Home with Consumer Budget Limit <b>2018,</b>		4
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390	Peak Load Scheduling in Smart Grid Communication Environment <b>2014,</b>		4
389	Analysis and Modeling of Network Connectivity in Routing Protocols for MANETs and VANETs <b>2013</b> ,		4
388	Balanced Energy Efficient Rectangular routing protocol for Underwater Wireless Sensor Networks <b>2017,</b>		4
387	Performance analysis of a buffer-aided incremental relaying in cooperative wireless network <b>2017,</b>		4
386	<b>2017,</b>		4
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384	Peak Load Shaving Model Based on Individual's Habit <b>2015,</b>		4
383	An Energy Efficient Residential Load Management System for Multi-class Appliances in Smart Homes <b>2015,</b>		4
382	iA-MAC: Improved Adaptive Medium Access Control protocol for Wireless Body Area Networks <b>2014,</b>		4
381	Mobility Model for WBANs <b>2014,</b>		4
380	Modeling Propagation Characteristics for Arm-Motion in Wireless Body Area Sensor Networks <b>2012</b> ,		4
379	Simulation Analysis of IEEE 802.15.4 Non-beacon Mode at Varying Data Rates <b>2012,</b>		4
378	Routing Load of Route Discovery and Route Maintenance in Wireless Reactive Routing Protocols <b>2012,</b>		4

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375	A PLSTM, AlexNet and ESNN Based Ensemble Learning Model for Detecting Electricity Theft in Smart Grids. <i>IEEE Access</i> , <b>2021</b> , 9, 162935-162950	3.5	4
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364	GarliChain: A privacy preserving system for smart grid consumers using blockchain. <i>International Journal of Energy Research</i> ,	4.5	4
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361	DRADS: Depth and Reliability Aware Delay Sensitive Routing Protocol for Underwater WSNs <b>2016</b> ,		4
360	Min-Min Scheduling Algorithm for Efficient Resource Distribution Using Cloud and Fog in Smart Buildings. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 15-27	0.4	4



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348	An Enhanced Differential Evolution Based Energy Management System for Smart Grids <b>2017</b> ,		3
347	A Deep Learning Approach Towards Price Forecasting Using Enhanced Convolutional Neural Network in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 271-283	0.4	3
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340	EDHBPSO: Enhanced Differential Harmony Binary Particle Swarm Optimization for Demand Side Management in Smart Grid <b>2018</b> ,		3
339	Short Term Load Forecasting based on Deep Learning for Smart Grid Applications. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 276-288	0.4	3
338	Impact of Acoustic Propagation Models on Depth-Based Routing Techniques in Underwater Wireless Sensor Networks <b>2014</b> ,		3
337	AM-DisCNT: Angular Multi-hop DISTance Based Circular Network Transmission Protocol for WSNs <b>2013</b> ,		3
336	An Energy Efficient Adaptive Cooperative Routing Protocol for Underwater WSNs <b>2015</b> ,		3
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333	A Hybrid Algorithm for Energy Management in Smart Grid <b>2015</b> ,		3
332	Underwater Wireless Sensor Network's Performance Enhancement with Cooperative Routing and Sink Mobility <b>2014</b> ,		3
331	TSDDR: Threshold Sensitive Density Controlled Divide and Rule Routing Protocol for Wireless Sensor Networks <b>2014</b> ,		3
330	Modeling Enhancements in Routing Protocols under Mobility and Scalability Constraints in VANETs. <i>International Journal of Distributed Sensor Networks</i> , <b>2014</b> , 10, 261823	1.7	3
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321	Hourly Electricity Load Forecasting in Smart Grid Using Deep Learning Techniques. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 185-196	0.4	3
320	Day Ahead Electric Load Forecasting by an Intelligent Hybrid Model Based on Deep Learning for Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 36-49	0.4	3
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317	A Blockchain-Based Secure Data Storage and Trading Model for Wireless Sensor Networks. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 499-511	0.4	3
316	Energy Hole Minimization Technique for Energy Efficient Routing in Under Water Sensor Networks. <i>Communications in Computer and Information Science</i> , <b>2014</b> , 134-148	0.3	3
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313	Pigeon Inspired Optimization and Enhanced Differential Evolution Using Time of Use Tariff in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 563-575	0.4	3
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310	A Blockchain based Privacy-Preserving System for Electric Vehicles through Local Communication <b>2020</b> ,		3
309	Efficient Data Trading and Storage in Internet of Vehicles using Consortium Blockchain <b>2020</b> ,		3
308	ELS-Net: A New Approach to Forecast Decomposed Intrinsic Mode Functions of Electricity Load. <i>IEEE Access</i> , <b>2020</b> , 8, 198935-198949	3.5	3
307	Big Data Analytics for Electricity Theft Detection in Smart Grids <b>2021</b> ,		3
306	An Improved Forwarding of Diverse Events with Mobile Sinks in Underwater Wireless Sensor Networks. <i>Sensors</i> , <b>2016</b> , 16,	3.8	3

305	Appliance Scheduling for Energy Management with User Preferences <b>2016</b> ,		3
304	Heuristic Algorithm Based Energy Management System in Smart Grid <b>2016</b> ,		3
303	Load Stabilizing in Fog Computing Environment Using Load Balancing Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 737-750	0.4	3
302	Integration of Cloud-Fog Based Platform for Load Balancing Using Hybrid Genetic Algorithm Using Bin Packing Technique. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 279-292	0.4	3
301	An Efficient Virtual Machine Placement via Bin Packing in Cloud Data Centers. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 977-987	0.4	3
300	Using GANCNN and ERNET for Detection of Non Technical Losses to Secure Smart Grids. <i>IEEE Access</i> , <b>2021</b> , 9, 98679-98700	3.5	3
299	Enhanced Differential Evolution and Crow Search Algorithm Based Home Energy Management in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 73-86	0.4	3
298	An Efficient Home Energy Management Scheme Using Cuckoo Search. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 167-178	0.4	3
297	Enhanced Adaptive Geographic Opportunistic Routing with Interference Avoidance Assisted with Mobile Sinks for Underwater Wireless Sensor Network <b>2018</b> ,		3
296	Heuristic Algorithm Based Dynamic Scheduling Model of Home Appliances in Smart Grid <b>2018</b> ,		3
295	Optimum Unit Sizing of Stand-Alone PV-WT-Battery Hybrid System Components Using Jaya <b>2018</b> ,		3
294	. <i>IEEE Access</i> , <b>2018</b> , 6, 74648-74659	3.5	3
293	Buffer Occupancy Based Link Prioritization for Cooperative Wireless Networks <b>2018</b> ,		3
292	A Novel Pricing Mechanism for Demand Side Load Management in Smart Grid <b>2017</b> ,		2
291	Forecasting day, week and month ahead electricity load consumption of a building using empirical mode decomposition and extreme learning machine <b>2019</b> ,		2
290	Buffer Occupancy Based DF and AF Relaying in Nakagami-m Fading Channels <b>2019</b> ,		2
289	Outage Probability of Hybrid Decode-Amplify-Forward Relaying Protocol for Buffer-Aided Relays <b>2019</b> ,		2
288	Scalability Analysis of Depth-Based Routing and Energy-Efficient Depth-Based Routing Protocols in Terms of Delay, Throughput, and Path Loss in Underwater Acoustic Sensor Networks. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2019</b> , 171-185	0.6	2

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286	Prediction of Building Energy Consumption Using Enhance Convolutional Neural Network. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 1157-1168	0.4	2
285	An Efficient Scheduling of User Appliances Using Multi Objective Optimization in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 371-384	0.4	2
284	Efficient Scheduling of Smart Home Appliances for Energy Management by Cost and PAR Optimization Algorithm in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 398-411	0.4	2
283	Enhanced Robustness Strategy for IoT in Smart Cities Based on Data Driven Approach. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 1084-1096	0.4	2
282	A New Linear Cluster Handling (LCH) Technique Toward's Energy Efficiency in Linear WSNs <b>2015</b> ,		2
281	DYN-NbC-JSM: Dynamic Joint Sink Mobility with Need-Based Clustering in WSNs <b>2015</b> ,		2
280	Depth-Based Energy-Balanced Hybrid Routing Protocol for Underwater WSNs <b>2015</b> ,		2
279	<b>2020</b> ,		2
278	Cost Efficient Real Time Electricity Management Services for Green Community Using Fog. <i>Energies</i> , <b>2020</b> , 13, 3164	3.1	2
277	Pigeon Inspired Optimization and Enhanced Differential Evolution in Smart Grid Using Critical Peak Pricing. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 505-514	0.4	2
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274	Enhanced Single Chain-Based Scheme in Cylindrical Underwater Wireless Sensor Networks <b>2016</b> ,		2
273	On Utilizing Static Courier Nodes to Achieve Energy Efficiency with Depth Based Routing for Underwater Wireless Sensor Networks <b>2016</b> ,		2
272	Demand Side Energy Management Using Hybrid Chicken Swarm and Bacterial Foraging Optimization Techniques <b>2018</b> ,		2
271	An Energy Efficient Scheduling of a Smart Home Based on Optimization Techniques. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 3-14	0.4	2
270	Efficient Resource Allocation Model for Residential Buildings in Smart Grid Using Fog and Cloud Computing. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 289-298	0.4	2

269	HEAT: Horizontal Moveable Energy-efficient Adaptive Threshold-Based Routing Protocol for Wireless Body Area Networks <b>2014</b> ,	2
268	Depth-Based Energy-Balanced Hybrid Routing Protocol for Underwater WSNs <b>2015</b> ,	2
267	(LEACH)2: Combining LEACH with Linearly Enhanced Approach for Cluster Handling in WSNs <b>2015</b> ,	2
266	Energy Balanced Interference Aware Energy Efficient Depth Base Routing Protocol for UWSNs <b>2015</b> ,	2
265	EEHR: Energy Efficient Hybrid Routing Protocol for Underwater WSNs <b>2015</b> ,	2
264	Improved Adaptive Cooperative Routing in Underwater Wireless Sensor Networks <b>2015</b> ,	2
263	Real-Time Pricing with Demand Response Model for Autonomous Homes <b>2015</b> ,	2
262	Bio-inspired Routing in Wireless Sensor Networks <b>2015</b> ,	2
261	Transmission Delay of Multi-hop Heterogeneous Networks for Medical Applications <b>2012</b> ,	2
260	<b>2012</b> ,	2
259	<b>2012</b> ,	2
258	<b>2012</b> ,	2
257	<b>2012</b> ,	2
256	SRP-MS: A new routing protocol for delay tolerant Wireless Sensor Networks <b>2013</b> ,	2
255	Performance evaluation of DSDV, OLSR and DYMO using 802.11 and 802.lip MAC-protocols <b>2011</b> ,	2
254	<b>2012</b> ,	2
253	<b>2012</b> ,	2
252	Exploiting Machine Learning to Detect Malicious Nodes in Intelligent Sensor-Based Systems Using Blockchain. <i>Wireless Communications and Mobile Computing</i> , <b>2022</b> , 2022, 1-16	1.9 2

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248	A Bio-Inspired Heuristic Algorithm for Solving Optimal Power Flow Problem in Hybrid Power System. <i>IEEE Access</i> , <b>2021</b> , 9, 159809-159826	3.5	2
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246	Integration of Cloud-Fog Based Environment with Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 423-436	0.4	2
245	Enhanced Decentralized Management of Patient-Driven Interoperability Based on Blockchain. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 815-827	0.5	2
244	Data Analytics for Load and Price Forecasting via Enhanced Support Vector Regression. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 259-270	0.4	2
243	Energy Trading Between Prosumer and Consumer in P2P Network Using Blockchain. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 875-886	0.5	2
242	Node Recovery in Wireless Sensor Networks via Blockchain. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 94-105	0.5	2
241	Big Data Based Electricity Price Forecasting Using Enhanced Convolutional Neural Network in the Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 1189-1201	0.4	2
240	Monitoring of Power Transmission Lines Through Wireless Sensor Networks in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 162-170	0.4	2
239	Home Energy Management Using Enhanced Differential Evolution and Chicken Swarm Optimization Techniques. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 468-478	0.4	2
238	Energy Optimization Techniques for Demand-Side Management in Smart Homes. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 515-524	0.4	2
237	Cloud-Fog Based Smart Grid Paradigm for Effective Resource Distribution. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 234-247	0.4	2
236	Efficient Energy Management Using Fog Computing. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 286-299	0.4	2
235	IEEE 802.11e-EDCF evaluation through MAC-layer metrics over QoS-aware mobility constraints <b>2009</b> ,		2
234	<b>2020</b> ,		2



233	Electricity Theft Detection using Pipeline in Machine Learning <b>2020</b> ,		2
232	Big Data Analytics Based Short Term Load Forecasting Model for Residential Buildings in Smart Grids <b>2020</b> ,		2
231	DE-RUSBoost: An Efficient Electricity Theft Detection Scheme with Additive Communication Layer <b>2020</b> ,		2
230	RACE: Reliability and adaptive cooperation for efficient underwater sensor networks <b>2016</b> ,		2
229	A Zero Watermarking Scheme for Data Integrity in Wireless Sensor Networks <b>2016</b> ,		2
228	MC: Maximum Coverage Routing Protocol for Underwater Wireless Sensor Networks <b>2016</b> ,		2
227	Distributed Topology Control Protocols for Underwater Sensor Networks <b>2016</b> ,		2
226	<b>2016</b> ,		2
225	<b>2019</b> ,		2
224	Short-Term Electricity Price and Load Forecasting using Enhanced Support Vector Machine and K-Nearest Neighbor <b>2019</b> ,		2
223	Blockchain Based Vehicular Trust Management and Less Dense Area Optimization <b>2019</b> ,		2
222	A Cloud-Fog Based Smart Grid Model Using Max-Min Scheduling Algorithm for Efficient Resource Allocation. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 273-285	0.4	2
221	Modified Shortest Job First for Load Balancing in Cloud-Fog Computing. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 63-76	0.4	2
220	Cloud Computing Based Resource Allocation by Random Load Balancing Technique. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 28-39	0.4	2
219	Towards Efficient Scheduling of Smart Appliances for Energy Management by Candidate Solution Updation Algorithm in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 67-81	0.4	2
218	An Approximate Forecasting of Electricity Load and Price of a Smart Home Using Nearest Neighbor. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 521-533	0.4	2
217	Synthetic Theft Attacks Implementation for Data Balancing and a Gated Recurrent Unit Based Electricity Theft Detection in Smart Grids. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 395-405	0.5	2
216	A Privacy Preserving Hybrid Blockchain Based Announcement Scheme for Vehicular Energy Network. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 142-151	0.5	2



215	Demand Side Management in Smart Grid by Using Flower Pollination Algorithm and Genetic Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 424-436	0.4	2
214	Energy Efficiency Using Genetic and Crow Search Algorithms in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 63-75	0.4	2
213	A New Meta-heuristic Optimization Algorithm Inspired from Strawberry Plant for Demand Side Management in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 143-154	0.4	2
212	Energy Optimization in Smart Grid Using Grey Wolf Optimization Algorithm and Bacterial Foraging Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 166-177	0.4	2
211	Simultaneous Wireless Information and Power Transfer for Buffer-Aided Cooperative Relaying Systems <b>2018</b> ,		2
210	An Efficient Home Energy Optimization by Using Meta-heuristic Techniques While Incorporating Game-theoretic Approach for Real-time Coordination Among Home Appliances <b>2018</b> ,		2
209	Futuristic blockchain based scalable and cost-effective 5G vehicular network architecture. <i>Vehicular Communications</i> , <b>2021</b> , 31, 100386	5.7	2
208	Synthetic Theft Attacks and Long Short Term Memory-Based Preprocessing for Electricity Theft Detection Using Gated Recurrent Unit. <i>Energies</i> , <b>2022</b> , 15, 2778	3.1	2
207	Non-technical losses detection using autoencoder and bidirectional gated recurrent unit to secure smart grids. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	2
206	Node Density Analysis for WBAN Schemes in Terms of Stability and Throughput. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2019</b> , 247-261	0.6	1
205	Minimizing Daily Cost and Maximizing User Comfort Using a New Metaheuristic Technique. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 80-92	0.4	1
204	Load and Price Forecasting in Smart Grids Using Enhanced Support Vector Machine. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 247-258	0.4	1
203	Circular Joint Sink Mobility Scheme for Wireless Sensor Networks <b>2015</b> ,		1
202	Performance Evaluation of Experimental Setups in Home Energy Management Systems in Smart Grid <b>2015</b> ,		1
201	Enhanced Classification with Logistic Regression for Short Term Price and Load Forecasting in Smart Homes <b>2020</b> ,		1
200	Unification of RF energy harvesting schemes under mixed Rayleigh-Rician fading channels. <i>AEU - International Journal of Electronics and Communications</i> , <b>2020</b> , 123, 153244	2.8	1
199	Analysis of Packet Diversity in Buffer-Aided Relaying over Symmetric and Asymmetric Rayleigh Fading Channels. <i>Symmetry</i> , <b>2020</b> , 12, 241	2.7	1
198	Study of buffer-aided cooperative NOMA using incremental relaying in wireless networks. <i>Physical Communication</i> , <b>2020</b> , 39, 101011	2.2	1

197	Demand side management for residential areas using hybrid bacterial foraging and bat optimization algorithm: Demand side management using hybrid bacterial foraging and bat optimization algorithm <b>2018</b> ,		1
196	Fuzzy Energy Management Controller for Smart Homes. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 200-207	0.4	1
195	Managing Energy in Smart Homes Using Binary Particle Swarm Optimization. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 189-196	0.4	1
194	An Efficient Scheduling of Electrical Appliance in Micro Grid Based on Heuristic Techniques. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 164-173	0.4	1
193	Comparative Assessment of Performance for Home Energy Management Controller in Smart Grid <b>2016</b> ,		1
192	Dual Sink Efficient Balanced Energy Technique for Underwater Acoustic Sensor Networks <b>2016</b> ,		1
191	Energy efficient buildings based on occupants behaviour: A survey <b>2018</b> ,		1
190	Bio-Inspired Optimization Techniques for Home Energy Management in Smart Grid <b>2018</b> ,		1
189	A Hybrid Bacterial Foraging Tabu Search Heuristic Optimization for Demand Side Management in Smart Grid <b>2018</b> ,		1
188	Appliance Scheduling in Smart Homes with Harmony Search Algorithm for Different Operation Time Intervals <b>2018</b> ,		1
187	TBEENISH: Threshold Balanced Energy Efficient Network Integrated Super Heterogeneous Protocol for WSNs <b>2018</b> ,		1
186	Demand Side Management Using Hybrid Genetic Algorithm and Pigeon Inspired Optimization Techniques <b>2018</b> ,		1
185	Home Energy Management in Smart Grid Using Evolutionary Algorithms <b>2018</b> ,		1
184	Application of Bird Swarm Algorithm for Solution of Optimal Power Flow Problems. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 280-291	0.4	1
183	An Efficient Routing Protocol via Depth Adjustment and Energy Gradation in Underwater Wireless Sensor Networks. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 201-211	0.4	1
182	State Based Load Balancing Algorithm for Smart Grid Energy Management in Fog Computing. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 220-232	0.4	1
181	Cooperative Energy Management Using Coalitional Game Theory for Reducing Power Losses in Microgrids. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 317-328	0.4	1
180	An Efficient Home Energy Management and Power Trading in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 231-241	0.4	1

179	MCEEC: Multi-hop Centralized Energy Efficient Clustering routing protocol for WSNs <b>2014</b> ,		1
178	<b>2013</b> ,		1
177	SMPC: Singular division of Multipath Power Control tree based routing protocol for Underwater Wireless Sensor Networks <b>2017</b> ,		1
176	Towards Heuristic Algorithms: GA, WDO, BPSO, and BFOA for Home Energy Management in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2017</b> , 267-278	0.4	1
175	DYN-NbC: A New Routing Scheme to Maximize Lifetime and Throughput of WSNs <b>2015</b> ,		1
174	Optimized Energy Management System Using Electric Water Heater <b>2015</b> ,		1
173	Energy Efficient Transmission in Wireless Sensor Networks. <i>Research Journal of Applied Sciences, Engineering and Technology</i> , <b>2014</b> , 7, 723-727	0.2	1
172	Hop Adjusted Multi-chain Routing for Energy Efficiency in Wireless Sensor Networks. <i>Procedia Computer Science</i> , <b>2014</b> , 37, 236-243	1.6	1
171	Routing Load of Route Calculation and Route Maintenance in Wireless Proactive Routing Protocols <b>2012</b> ,		1
170	<b>2012</b> ,		1
169	Non-invasive Induction Link Model for Implantable Biomedical Microsystems: Pacemaker to Monitor Arrhythmic Patients in Body Area Networks <b>2013</b> ,		1
168	Energy aware error control in cooperative communication in wireless sensor networks <b>2013</b> ,		1
167	AlexNet, AdaBoost and Artificial Bee Colony based Hybrid Model for Electricity Theft Detection in Smart Grids. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
166	Cooperative energy transactions in micro and utility grids integrating energy storage systems. <i>Journal of Parallel and Distributed Computing</i> , <b>2022</b> , 161, 48-62	4.4	1
165	Appliances Scheduling Using State-of-the-Art Algorithms for Residential Demand Response. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 292-302	0.4	1
164	Optimal Energy Management in Microgrids Using Meta-heuristic Technique. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 303-314	0.4	1
163	Differential-Evolution-Earthworm Hybrid Meta-heuristic Optimization Technique for Home Energy Management System in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 15-31	0.4	1
162	Wind Power Forecasting Based on Efficient Deep Convolution Neural Networks. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 47-56	0.5	1

161	Data Sharing System Integrating Access Control Based on Smart Contracts for IoT. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 863-874	0.5	1
160	Consensus Based Mechanism Using Blockchain for Intensive Data of Vehicles. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 44-55	0.5	1
159	Secure Service Provisioning Scheme for Lightweight Clients with Incentive Mechanism Based on Blockchain. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 82-93	0.5	1
158	An Enhanced Convolutional Neural Network Model Based on Weather Parameters for Short-Term Electricity Supply and Demand. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 22-35	0.4	1
157	Classification and Regression Based Methods for Short Term Load and Price Forecasting: A Survey. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2020</b> , 416-426	0.4	1
156	An Innovative Model Based on FCRBM for Load Forecasting in the Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 49-62	0.4	1
155	Efficient Resource Utilization Using Blockchain Network for IoT Devices in Smart City. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 521-534	0.5	1
154	Block-VN: A Distributed Blockchain-Based Efficient Communication and Storage System. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 56-66	0.5	1
153	A Blockchain Based Incentive Mechanism for Crowd Sensing Network. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 568-578	0.5	1
152	Smart Contracts for Research Lab Sharing Scholars Data Rights Management over the Ethereum Blockchain Network. <i>Lecture Notes in Networks and Systems</i> , <b>2020</b> , 70-81	0.5	1
151	Home Energy Management Using HSA, FA, BFOA Algorithms in Smart Grids. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 257-269	0.4	1
150	Demand Side Management Using Strawberry and Enhanced Differential Evolution Algorithms. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 983-994	0.4	1
149	A Metaheuristic Scheduling of Home Energy Management System. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 214-224	0.4	1
148	Exploiting Meta-heuristic Technique for Optimal Operation of Microgrid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 281-291	0.4	1
147	A Hybrid Flower-Grey Wolf Optimizer Based Home Energy Management in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 46-59	0.4	1
146	Home Energy Management Using Hybrid Meta-heuristic Optimization Technique. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 599-609	0.4	1
145	Differential Evolution: An Updated Survey. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 681-691	0.4	1
144	Fog-Cloud Based Platform for Utilization of Resources Using Load Balancing Technique. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 554-567	0.4	1

143	A Cloud-Fog Based Environment Using Beam Search Algorithm in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 661-672	0.4	1
142	Optimized Energy Efficient Routing Using Dynamic Clustering in Wireless Sensor Networks. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 617-626	0.4	1
141	Demand Side Management Using Strawberry Algorithm and Bacterial Foraging Optimization Algorithm in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 191-202	0.4	1
140	Comparison of BFA and EWA in Home Energy Management System Using RTP. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 270-282	0.4	1
139	Home Energy Management Based on Harmony Search Algorithm and Crow Search Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 218-230	0.4	1
138	A Futuristic Blockchain based Vehicular Network Architecture and Trust Management System <b>2020</b> ,		1
137	Secure Energy Trading for Electric Vehicles using Consortium Blockchain and k-Nearest Neighbor <b>2020</b> ,		1
136	A novel cooperative link selection mechanism for enhancing the robustness in scale-free IoT networks <b>2020</b> ,		1
135	A Blockchain Based Secure Authentication and Routing Mechanism for Wireless Sensor Networks. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 87-95	0.5	1
134	Blockchain Based Authentication and Trust Evaluation Mechanism for Secure Routing in Wireless Sensor Networks. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 96-107	0.5	1
133	Transient Stability Analysis of an Islanded Microgrid under Variable Load <b>2016</b> ,		1
132	Improved Genetic Algorithm Based Energy Efficient Routing in Two-Tiered Wireless Sensor Networks <b>2016</b> ,		1
131	EEIRA: An Energy Efficient Interference and Route Aware Protocol for Underwater WSNs <b>2016</b> ,		1
130	Reliable Services from Service Providers Based on the Ratings of IoT Devices Using Blockchain <b>2019</b> ,		1
129	Data Analytics for Short Term Price and Load Forecasting in Smart Grids using Enhanced Recurrent Neural Network <b>2019</b> ,		1
128	Optimized Resource Allocation in Fog-Cloud Environment Using Insert Select. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 611-623	0.4	1
127	Cloud and Fog Based Smart Grid Environment for Efficient Energy Management. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 514-525	0.4	1
126	Smart Grid Management Using Cloud and Fog Computing. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 624-636	0.4	1

125	Cloud-Fog Based Load Balancing Using Shortest Remaining Time First Optimization. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 199-211	0.4	1
124	A Cloud Fog Based Framework for Efficient Resource Allocation Using Firefly Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 431-443	0.4	1
123	Round Robin Inspired History Based Load Balancing Using Cloud Computing. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 496-508	0.4	1
122	Threshold Based Load Balancer for Efficient Resource Utilization of Smart Grid Using Cloud Computing. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 167-179	0.4	1
121	Shortest Job First Load Balancing Algorithm for Efficient Resource Management in Cloud. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 49-62	0.4	1
120	Towards Efficient Energy Management in a Smart Home Using Updated Population. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 39-52	0.4	1
119	A New Memory Updation Heuristic Scheme for Energy Management System in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 53-66	0.4	1
118	Optimization of Response and Processing Time for Smart Societies Using Particle Swarm Optimization and Levy Walk. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 14-25	0.4	1
117	Electricity Load and Price Forecasting Using Enhanced Machine Learning Techniques. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 255-267	0.4	1
116	Blockchain and IPFS Based Service Model for the Internet of Things. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 259-270	0.5	1
115	Alexnet-Adaboost-ABC Based Hybrid Neural Network for Electricity Theft Detection in Smart Grids. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 249-258	0.5	1
114	Electricity Theft Detection in Smart Meters Using a Hybrid Bi-directional GRU Bi-directional LSTM Model. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 297-308	0.5	1
113	Blockchain Enabled Secure and Efficient Reputation Management for Vehicular Energy Network. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 406-416	0.5	1
112	Electricity Theft Detection With Automatic Labeling and Enhanced RUSBoost Classification Using Differential Evolution and Jaya Algorithm. <i>IEEE Access</i> , <b>2021</b> , 9, 128521-128539	3.5	1
111	Home Energy Management System Using Ant Colony Optimization Technique in Microgrid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 267-279	0.4	1
110	Pigeon Inspired Optimization and Bacterial Foraging Optimization for Home Energy Management. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 14-24	0.4	1
109	Scheduling of Appliances in HEMS Using Elephant Herding Optimization and Harmony Search Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 62-72	0.4	1
108	Using Meta-Heuristic and Numerical Algorithm Inspired by Evolution Differential Equation and Strawberry Plant for Demand Side Management in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 437-446	0.4	1



107	GreyWolf Optimization Technique for HEMS Using Day Ahead Pricing Scheme. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 25-36	0.4	1
106	Optimization of Home Energy Management System Through Application of Tabu Search. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 37-49	0.4	1
105	Load Scheduling in Home Energy Management System Using Meta-Heuristic Techniques and Critical Peak Pricing Tariff. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 50-62	0.4	1
104	Demand Side Management Using Harmony Search Algorithm and BAT Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 191-202	0.4	1
103	An Efficient Scheduling Using Meta Heuristic Algorithms for Home Demand-side Management in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 214-227	0.4	1
102	Data Analytics for Price Forecasting in Smart Grids: A Survey <b>2018</b> ,		1
101	Exploiting heuristic techniques for efficient energy management system in smart grid <b>2018</b> ,		1
100	Decoupled building-to-transmission-network for frequency support in PV systems dominated grid. <i>Renewable Energy</i> , <b>2021</b> , 178, 930-945	8.1	1
99	Geospatial Division Based Geographic Routing for Interference Avoidance in Underwater WSNs. <i>EAI/Springer Innovations in Communication and Computing</i> , <b>2019</b> , 207-214	0.6	0
98	Pro Utility Pro Consumer Comfort Demand Side Management in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 385-397	0.4	0
97	NADEEM: A Novel Reliable Data Delivery Routing Protocol for Underwater WSNs. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 103-115	0.4	0
96	Fog Computing Based Energy Management System Model for Smart Buildings. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 719-727	0.4	0
95	Efficient Routing in Geographic and Opportunistic Routing for Underwater WSNs. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 86-95	0.4	0
94	Computationally efficient topology optimization of scale-free IoT networks. <i>Computer Communications</i> , <b>2022</b> , 185, 1-12	5.1	0
93	Implementing Critical Peak Pricing in Home Energy Management Using Biography Based Optimization and Genetic Algorithm in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 560-569	0.4	0
92	CRRP Analysis of Cloud Computing in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 64-74	0.4	0
91	Load Balancing on Cloud Analyst Using First Come First Serve Scheduling Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 463-472	0.4	0
90	Short-Term Load Forecasting Using EEMD-DAE with Enhanced CNN in Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 1167-1180	0.4	0

89	Electricity Theft Detection Using Machine Learning Techniques to Secure Smart Grid. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 233-243	0.4	o
88	Electricity Price and Load Forecasting Using Data Analytics in Smart Grid: A Survey. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2020</b> , 427-439	0.4	o
87	Efficient Utilization of HEM Controller Using Heuristic Optimization Techniques. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 573-584	0.4	o
86	Cost and Comfort Based Optimization of Residential Load in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 563-572	0.4	o
85	Balancing Demand and Supply of Energy for Smart Homes. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 1000-1008	0.4	o
84	Home Energy Management Using Social Spider and Bacterial Foraging Algorithm. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 245-256	0.4	o
83	Meta-Heuristic and Nature Inspired Approaches for Home Energy Management. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 231-244	0.4	o
82	Comparative Study of Data Driven Approaches Towards Efficient Electricity Theft Detection in Micro Grids. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 120-131	0.5	o
81	Resource Allocation over Cloud-Fog Framework Using BA. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 222-233	0.4	o
80	On Maximizing User Comfort Using a Novel Meta-Heuristic Technique in Smart Home. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 26-38	0.4	o
79	A Novel Approach to Network Topology Evolution and Robustness Optimization of Scale Free Networks. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 214-224	0.5	o
78	Detection of Non-Technical Losses Using MLP-GRU Based Neural Network to Secure Smart Grids. <i>Lecture Notes in Networks and Systems</i> , <b>2021</b> , 383-394	0.5	o
77	Electricity Consumption Forecasting Using Gated-FCN With Ensemble Strategy. <i>IEEE Access</i> , <b>2021</b> , 9, 131365-131381	3.5	o
76	Optimal Residential Load Scheduling Under Utility and Rooftop Photovoltaic Units. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2018</b> , 142-153	0.4	o
75	Electricity theft detection using big data and genetic algorithm in electric power systems. <i>Electric Power Systems Research</i> , <b>2022</b> , 209, 107975	3.5	o
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21	Efficient Resource Allocation for Residential Smart Buildings Using Integrated Cloud and Fog Environment in Smart Grid. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 3-14	0.4
20	Priority Based Load Balancing in Cloud and Fog Based Systems. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , <b>2019</b> , 725-736	0.4
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