

Rakesh Kumar Jha

List of Publications by Year in Descending Order

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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.

98
papers

2,750
citations

18
h-index

52
g-index

120
ext. papers

3,745
ext. citations

3
avg, IF

6.39
L-index

#	Paper	IF	Citations
98	Tactile based Intelligence Touch Technology in IoT configured WCN in B5G/6G-A Survey. <i>IEEE Access</i> , 2022 , 1-1	3.5	1
97	Failure prognosis of rolling bearings using maximum variance wavelet subband selection and support vector regression. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022 , 44, 1	2	1
96	Behavioral Model for Live Detection of Apps Based Attack. <i>IEEE Transactions on Computational Social Systems</i> , 2022 , 1-13	4.5	1
95	A Comprehensive Survey on Security Issues in 5G Wireless Communication Network using Beamforming Approach. <i>Wireless Personal Communications</i> , 2021 , 119, 3447-3501	1.9	0
94	ANGUISH: Security attack in narrowband-Internet of Things (NB-IoT) using game theory and hardware analysis. <i>Transactions on Emerging Telecommunications Technologies</i> , 2021 , 32, e3987	1.9	1
93	AR-Based Half-Duplex Attack in Beyond 5G Networks. <i>IEEE Systems Journal</i> , 2021 , 15, 1693-1704	4.3	3
92	Adaptive Small Cell position algorithm (ASPA) for green farming using NB-IoT. <i>Journal of Network and Computer Applications</i> , 2021 , 173, 102841	7.9	4
91	A Survey on Beyond 5G Network With the Advent of 6G: Architecture and Emerging Technologies. <i>IEEE Access</i> , 2021 , 9, 67512-67547	3.5	59
90	Layer based security in Narrow Band Internet of Things (NB-IoT). <i>Computer Networks</i> , 2021 , 185, 107592-107604	5.4	12
89	Filterless optical millimeter-wave generation using cascaded-parallel Mach-Zehnder modulators with tunable frequency multiplication factor. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1	2.4	3
88	A comprehensive survey on Green ICT with 5G-NB-IoT: Towards sustainable planet. <i>Computer Networks</i> , 2021 , 199, 108433	5.4	2
87	Green NOMA assisted NB-IoT based urban farming in multistory buildings. <i>Computer Networks</i> , 2021 , 199, 108410	5.4	0
86	Half-Duplex Radio: Toward Green 5G NR. <i>IEEE Consumer Electronics Magazine</i> , 2020 , 9, 34-40	3.2	1
85	A survey on security issues of 5G NR: Perspective of artificial dust and artificial rain. <i>Journal of Network and Computer Applications</i> , 2020 , 160, 102597	7.9	6
84	FILTERLESS 16-TUPLED OPTICAL MILLIMETER-WAVE GENERATION USING CASCADED PARALLEL MACH-ZEHNDER MODULATORS WITH EXTINCTION RATIO TOLERANCE. <i>Progress in Electromagnetics Research Letters</i> , 2020 , 91, 129-135	0.5	7
83	Intelligent fault diagnosis of rolling bearing and gear system under fluctuating load conditions using image processing technique. <i>Journal of Mechanical Science and Technology</i> , 2020 , 34, 4107-4115	1.6	5
82	Electromagnetic Radiation Reduction in 5G Networks and Beyond Using Thermal Radiation Mode. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 11841-11856	6.8	5

81	Power optimization with low complexity using scaled beamforming approach for a massive MIMO and small cell scenario. <i>Wireless Networks</i> , 2020 , 26, 1165-1176	2.5	0
80	Dispersed beamforming approach for secure communication in UDN. <i>Wireless Networks</i> , 2020 , 26, 3227-3244		
79	Energy and spectral efficiency optimization using probabilistic based spectrum slicing (PBSS) in different zones of 5G wireless communication network. <i>Telecommunication Systems</i> , 2020 , 73, 59-73	2.3	3
78	NB-IoT Security: A Survey. <i>Wireless Personal Communications</i> , 2020 , 113, 2661-2708	1.9	14
77	Power and energy optimization with reduced complexity in different deployment scenarios of massive MIMO network. <i>International Journal of Communication Systems</i> , 2019 , 32, e3907	1.7	4
76	RBA: Detection and Protection Analysis Using Region-Based Algorithm in Ultra-Dense Networks. <i>IEEE Access</i> , 2019 , 7, 52997-53011	3.5	
75	Protocol design and resource allocation for power optimization using spectrum sharing for 5G networks. <i>Telecommunication Systems</i> , 2019 , 72, 95-113	2.3	2
74	Energy-efficient device-to-device communication using adaptive resource-block allocation. <i>International Journal of Communication Systems</i> , 2019 , 32, e3922	1.7	8
73	Computing over encrypted spatial data generated by IoT. <i>Telecommunication Systems</i> , 2019 , 70, 193-229	2.3	4
72	Power Optimization using Spectrum Sharing for 5G Wireless Networks 2019 ,		3
71	Power Optimization using Spectrum Sharing for Next Generation Cellular Networks 2019 ,		2
70	Rank-Based Secrecy Rate Improvement Using NOMA for Ultra Dense Network. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 10687-10702	6.8	7
69	Software Defined Optical Networks (SDON): proposed architecture and comparative analysis. <i>Journal of the European Optical Society-Rapid Publications</i> , 2019 , 15,	2.5	1
68	Performance Analysis of Grouped Multilevel Space-Time Trellis Coding Technique Using Cognitive Radio in Different Deployment Models. <i>Wireless Communications and Mobile Computing</i> , 2019 , 2019, 1-20	1.9	2
67	SDOWN: A novel algorithm for better Quality of Service and Experience in Software Defined Optical Wireless Network. <i>Optik</i> , 2019 , 176, 662-684	2.5	5
66	Zonal-Based GrEEn Algorithm for Augmenting the Battery Life in Spectrum Shared Networks via D2D Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 405-419	6.8	6
65	Device to device communication: A survey. <i>Journal of Network and Computer Applications</i> , 2019 , 129, 71-89	7.9	24
64	A Survey on Energy Efficient Narrowband Internet of Things (NBloT): Architecture, Application and Challenges. <i>IEEE Access</i> , 2019 , 7, 16739-16776	3.5	111

63	RBA: Region Based Algorithm for secure harvesting in Ultra Dense Network. <i>Journal of Network and Computer Applications</i> , 2019 , 125, 179-189	7.9	1
62	Novel Beamforming Approach for Secure Communication in UDN to Maximize Secrecy Rate and Fairness Security Assessment. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 5935-5947	10.7	7
61	A novel method for parallel indexing of real time geospatial big data generated by IoT devices. <i>Future Generation Computer Systems</i> , 2019 , 97, 433-452	7.5	17
60	SDOWN: A Novel Algorithm and Comparative Performance Analysis of Underlying Infrastructure in Software Defined Heterogeneous Network. <i>Fiber and Integrated Optics</i> , 2019 , 38, 43-75	0.8	2
59	Security issues in ultra dense network for 5G scenario 2018 ,		3
58	Sector-Based Radio Resource Allocation (SBRR) Algorithm for Better Quality of Service and Experience in Device-to-Device (D2D) Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 5750-5765	6.8	18
57	Performance analysis of an 80 (8 × 10) Gbps RZ-DPSK based WDM-FSO system under combined effects of various weather conditions and atmospheric turbulence induced fading employing Gamma-Gamma fading model. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	23
56	Prolonging User Battery Lifetime Using Green Communication in Spectrum Sharing Networks. <i>IEEE Communications Letters</i> , 2018 , 22, 1490-1493	3.8	13
55	Joint power allocation and relay selection strategy for 5G network: a step towards green communication. <i>Telecommunication Systems</i> , 2018 , 68, 201-215	2.3	8
54	Possible Security Attack Modeling in Ultradense Networks Using High-Speed Handover Management. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 2178-2192	6.8	14
53	Bandwidth Spoofing and Intrusion Detection System for Multistage 5G Wireless Communication Network. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 618-632	6.8	27
52	Green NOMA With Multiple Interference Cancellation (MIC) Using Sector-Based Resource Allocation. <i>IEEE Transactions on Network and Service Management</i> , 2018 , 15, 1006-1017	4.8	17
51	A comprehensive survey on spectrum sharing: Architecture, energy efficiency and security issues. <i>Journal of Network and Computer Applications</i> , 2018 , 103, 29-57	7.9	25
50	Adaptive Resource Block Allocation for Green 5G Wireless Communication Networks 2018 ,		1
49	Comparison and Selection of Wavelets for Vibration Signals Denoising and Fault Detection of Rotating Machines using Neighborhood Correlation of SWT Coefficients 2018 ,		1
48	RFID based food rationing system. <i>HardwareX</i> , 2018 , 4, e00043	2.7	
47	TPA: Prediction of Spoofing Attack Using Thermal Pattern Analysis in Ultra Dense Network for High Speed Handover Scenario. <i>IEEE Access</i> , 2018 , 6, 66268-66284	3.5	3
46	Security Architecture of 5G Wireless Communication Network. <i>International Journal of Sensors, Wireless Communications and Control</i> , 2018 , 8, 92-99	0.4	3

45	E2ARC: Energy-efficient adaptive resource block allocation with low complexity in device-to-device communication. <i>Transactions on Emerging Telecommunications Technologies</i> , 2018 , 29, e3525	1.9	1
44	Power optimization using massive MIMO and small cells approach in different deployment scenarios. <i>Wireless Networks</i> , 2017 , 23, 959-973	2.5	13
43	Power optimization using optimal small cell arrangements in different deployment scenarios. <i>International Journal of Communication Systems</i> , 2017 , 30, e3279	1.7	5
42	Chromatic dispersion compensation techniques and characterization of fiber Bragg grating for dispersion compensation. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	23
41	Implementation of Intrusion Detection System using Adaptive Neuro-Fuzzy Inference System for 5G wireless communication network. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 74, 94-106	2.8	27
40	Performance comparison of various modulation schemes over free space optical (FSO) link employing Gamma-Gamma fading model. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	25
39	Green Communication in Next Generation Cellular Networks: A Survey. <i>IEEE Access</i> , 2017 , 5, 11727-11758	5.5	147
38	A survey on ultra-dense network and emerging technologies: Security challenges and possible solutions. <i>Journal of Network and Computer Applications</i> , 2017 , 95, 54-78	7.9	35
37	A survey on green communication and security challenges in 5G wireless communication networks. <i>Journal of Network and Computer Applications</i> , 2017 , 96, 39-61	7.9	53
36	Design and comparative performance analysis of different chirping profiles of tanh apodized fiber Bragg grating and comparison with the dispersion compensation fiber for long-haul transmission system. <i>Journal of Modern Optics</i> , 2017 , 64, 555-566	1.1	13
35	A survey on device-to-device (D2D) communication: Architecture and security issues. <i>Journal of Network and Computer Applications</i> , 2017 , 78, 9-29	7.9	128
34	Attack modeling and intrusion detection system for 5G wireless communication network. <i>International Journal of Communication Systems</i> , 2017 , 30, e3237	1.7	10
33	A Survey on Software Defined Networking: Architecture for Next Generation Network. <i>Journal of Network and Systems Management</i> , 2017 , 25, 321-374	2.1	54
32	A Survey on Wireless Security: IP Security Concern. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 711-722	0.4	1
31	Technology Involved in Bridging Physical, Cyber, and Hyper World. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 735-743	0.4	1
30	Device-to-Device Communication in Cellular Networks: A Survey. <i>Journal of Network and Computer Applications</i> , 2016 , 71, 99-117	7.9	156
29	Performance Analysis of Proposed OpenFlow-Based Network Architecture Using Mininet. <i>Wireless Personal Communications</i> , 2016 , 86, 943-958	1.9	17
28	Power Optimization in 5G Networks: A Step Towards GrEEen Communication. <i>IEEE Access</i> , 2016 , 4, 1355-1374	3.4	155

27	TWDM-PON-AN optical backhaul solution for hybrid optical wireless networks. <i>Journal of Modern Optics</i> , 2016 , 63, 1899-1916	1.1	5
26	Performance Analysis of Disaster Management Using WSN Technology. <i>Procedia Computer Science</i> , 2015 , 49, 162-169	1.6	5
25	Security threats of wireless networks: A survey 2015 ,		8
24	A Survey of 5G Network: Architecture and Emerging Technologies. <i>IEEE Access</i> , 2015 , 3, 1206-1232	3.5	1318
23	MATLAB User Interface for Simulation of Silicon Germanium Solar Cell. <i>Journal of Materials</i> , 2015 , 2015, 1-6		3
22	A Comparative Performance Analysis of Routing Protocols in MANET using NS3 Simulator. <i>International Journal of Computer Network and Information Security</i> , 2015 , 7, 62-68	1.6	10
21	Modelling and Simulation of Hydro Power Plant using MATLAB & WatPro 3.0. <i>International Journal of Intelligent Systems and Applications</i> , 2015 , 7, 1-8	1.5	3
20	Analysis of Si/SiGe Heterostructure Solar Cell. <i>Journal of Energy</i> , 2014 , 2014, 1-7	1	4
19	Performance Analysis of Network Layer Security Attack in WiMAX System. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 535-542	0.4	
18	Performance Analysis of Black Hole Attack on WiMAX-WLAN Interface Network 2012 ,		1
17	Detection and Fortification Analysis of WiMAX Network: With Misbehavior Node Attack. <i>International Journal of Communications, Network and System Sciences</i> , 2012 , 05, 353-367	0.2	2
16	Electronic Governance in Rural Areas: A Performance Case Study with WiMAX Technology. <i>Lecture Notes in Computer Science</i> , 2012 , 279-288	0.9	
15	Access Control Based on Location and Time. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012 , 102-107	0.2	1
14	An Effective Defence Mechanism for Detection of DDoS Attack on Application Layer Based on Hidden Markov Model. <i>Advances in Intelligent and Soft Computing</i> , 2012 , 943-950		
13	An Optimum Approach for Radio Resource Allocation(RRA) in Mobile WiMAX Network. <i>Lecture Notes in Computer Science</i> , 2012 , 357-365	0.9	
12	Geo-Encryption - A New Direction to Secure Traditional SSL VPN 2011 ,		1
11	Performance Analysis under the Influence of Jamming for WiMAX System 2011 ,		4
10	A performance Comparison with cost for QoS Application in On-Demand Cloud Computing 2011 ,		2

9	Location based WiMAX network optimization 2011 ,		2
8	IPv6 2011 ,		3
7	Location Based Performance of WiMAX Network for QoS with Optimal Base Stations (BS). <i>Wireless Engineering and Technology</i> , 2011 , 02, 135-145	0.8	3
6	A Performance of Security Aspect in WiMAX Physical Layer with Different Modulation Schemes. <i>Communications in Computer and Information Science</i> , 2011 , 433-440	0.3	1
5	Notice of Violation of IEEE Publication Principles: A Performance Comparison of Routing Protocols for Security Issue in Wireless Mobile Ad Hoc Networks 2010 ,		2
4	Security Comparison of Wired and Wireless Network with Firewall and Virtual Private Network (VPN) 2010 ,		7
3	WiMAX System Simulation and Performance Analysis under the Influence of Jamming. <i>Wireless Engineering and Technology</i> , 2010 , 01, 20-26	0.8	3
2	VLC Enabled Hybrid Wireless Network for B5G/6G Communications. <i>Wireless Personal Communications</i> ,1	1.9	1
1	Green IoT: A Short Survey on Technical Evolution & Techniques. <i>Wireless Personal Communications</i> ,1	1.9	2