

# Rakesh Kumar Jha

## 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.

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	A Survey of 5G Network: Architecture and Emerging Technologies. <i>IEEE Access</i> , <b>2015</b> , 3, 1206-1232	3.5	1318
97	Device-to-Device Communication in Cellular Networks: A Survey. <i>Journal of Network and Computer Applications</i> , <b>2016</b> , 71, 99-117	7.9	156
96	Power Optimization in 5G Networks: A Step Towards GrEEen Communication. <i>IEEE Access</i> , <b>2016</b> , 4, 1355-1374	3.5	155
95	Green Communication in Next Generation Cellular Networks: A Survey. <i>IEEE Access</i> , <b>2017</b> , 5, 11727-11758	3.5	147
94	A survey on device-to-device (D2D) communication: Architecture and security issues. <i>Journal of Network and Computer Applications</i> , <b>2017</b> , 78, 9-29	7.9	128
93	A Survey on Energy Efficient Narrowband Internet of Things (NBloT): Architecture, Application and Challenges. <i>IEEE Access</i> , <b>2019</b> , 7, 16739-16776	3.5	111
92	A Survey on Beyond 5G Network With the Advent of 6G: Architecture and Emerging Technologies. <i>IEEE Access</i> , <b>2021</b> , 9, 67512-67547	3.5	59
91	A Survey on Software Defined Networking: Architecture for Next Generation Network. <i>Journal of Network and Systems Management</i> , <b>2017</b> , 25, 321-374	2.1	54
90	A survey on green communication and security challenges in 5G wireless communication networks. <i>Journal of Network and Computer Applications</i> , <b>2017</b> , 96, 39-61	7.9	53
89	A survey on ultra-dense network and emerging technologies: Security challenges and possible solutions. <i>Journal of Network and Computer Applications</i> , <b>2017</b> , 95, 54-78	7.9	35
88	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> , <b>2017</b> , 74, 94-106	2.8	27
87	Bandwidth Spoofing and Intrusion Detection System for Multistage 5G Wireless Communication Network. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 618-632	6.8	27
86	Performance comparison of various modulation schemes over free space optical (FSO) link employing Gamma-Gamma fading model. <i>Optical and Quantum Electronics</i> , <b>2017</b> , 49, 1	2.4	25
85	A comprehensive survey on spectrum sharing: Architecture, energy efficiency and security issues. <i>Journal of Network and Computer Applications</i> , <b>2018</b> , 103, 29-57	7.9	25
84	Device to device communication: A survey. <i>Journal of Network and Computer Applications</i> , <b>2019</b> , 129, 71-89	7.9	24
83	Chromatic dispersion compensation techniques and characterization of fiber Bragg grating for dispersion compensation. <i>Optical and Quantum Electronics</i> , <b>2017</b> , 49, 1	2.4	23
82	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> , <b>2018</b> , 50, 1	2.4	23

81	Sector-Based Radio Resource Allocation (SBRRRA) Algorithm for Better Quality of Service and Experience in Device-to-Device (D2D) Communication. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 5750-5765	6.8	18
80	Performance Analysis of Proposed OpenFlow-Based Network Architecture Using Mininet. <i>Wireless Personal Communications</i> , <b>2016</b> , 86, 943-958	1.9	17
79	Green NOMA With Multiple Interference Cancellation (MIC) Using Sector-Based Resource Allocation. <i>IEEE Transactions on Network and Service Management</i> , <b>2018</b> , 15, 1006-1017	4.8	17
78	A novel method for parallel indexing of real time geospatial big data generated by IoT devices. <i>Future Generation Computer Systems</i> , <b>2019</b> , 97, 433-452	7.5	17
77	Possible Security Attack Modeling in Ultradense Networks Using High-Speed Handover Management. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 2178-2192	6.8	14
76	NB-IoT Security: A Survey. <i>Wireless Personal Communications</i> , <b>2020</b> , 113, 2661-2708	1.9	14
75	Power optimization using massive MIMO and small cells approach in different deployment scenarios. <i>Wireless Networks</i> , <b>2017</b> , 23, 959-973	2.5	13
74	Prolonging User Battery Lifetime Using Green Communication in Spectrum Sharing Networks. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 1490-1493	3.8	13
73	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> , <b>2017</b> , 64, 555-566	1.1	13
72	Layer based security in Narrow Band Internet of Things (NB-IoT). <i>Computer Networks</i> , <b>2021</b> , 185, 107592	5.4	12
71	Attack modeling and intrusion detection system for 5G wireless communication network. <i>International Journal of Communication Systems</i> , <b>2017</b> , 30, e3237	1.7	10
70	A Comparative Performance Analysis of Routing Protocols in MANET using NS3 Simulator. <i>International Journal of Computer Network and Information Security</i> , <b>2015</b> , 7, 62-68	1.6	10
69	Energy-efficient device-to-device communication using adaptive resource-block allocation. <i>International Journal of Communication Systems</i> , <b>2019</b> , 32, e3922	1.7	8
68	Security threats of wireless networks: A survey <b>2015</b> ,		8
67	Joint power allocation and relay selection strategy for 5G network: a step towards green communication. <i>Telecommunication Systems</i> , <b>2018</b> , 68, 201-215	2.3	8
66	Rank-Based Secrecy Rate Improvement Using NOMA for Ultra Dense Network. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 10687-10702	6.8	7
65	Security Comparison of Wired and Wireless Network with Firewall and Virtual Private Network (VPN) <b>2010</b> ,		7
64	FILTERLESS 16-TUPLED OPTICAL MILLIMETER-WAVE GENERATION USING CASCADED PARALLEL MACH-ZEHNDER MODULATORS WITH EXTINCTION RATIO TOLERANCE. <i>Progress in Electromagnetics Research Letters</i> , <b>2020</b> , 91, 129-135	0.5	7

63	Novel Beamforming Approach for Secure Communication in UDN to Maximize Secrecy Rate and Fairness Security Assessment. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 5935-5947	10.7	7
62	A survey on security issues of 5G NR: Perspective of artificial dust and artificial rain. <i>Journal of Network and Computer Applications</i> , <b>2020</b> , 160, 102597	7.9	6
61	Zonal-Based GrEEEn Algorithm for Augmenting the Battery Life in Spectrum Shared Networks via D2D Communication. <i>IEEE Transactions on Vehicular Technology</i> , <b>2019</b> , 68, 405-419	6.8	6
60	Power optimization using optimal small cell arrangements in different deployment scenarios. <i>International Journal of Communication Systems</i> , <b>2017</b> , 30, e3279	1.7	5
59	Performance Analysis of Disaster Management Using WSN Technology. <i>Procedia Computer Science</i> , <b>2015</b> , 49, 162-169	1.6	5
58	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> , <b>2020</b> , 34, 4107-4115	1.6	5
57	Electromagnetic Radiation Reduction in 5G Networks and Beyond Using Thermal Radiation Mode. <i>IEEE Transactions on Vehicular Technology</i> , <b>2020</b> , 69, 11841-11856	6.8	5
56	TWDM-PON-AN optical backhaul solution for hybrid optical wireless networks. <i>Journal of Modern Optics</i> , <b>2016</b> , 63, 1899-1916	1.1	5
55	SDOWN: A novel algorithm for better Quality of Service and Experience in Software Defined Optical Wireless Network. <i>Optik</i> , <b>2019</b> , 176, 662-684	2.5	5
54	Power and energy optimization with reduced complexity in different deployment scenarios of massive MIMO network. <i>International Journal of Communication Systems</i> , <b>2019</b> , 32, e3907	1.7	4
53	Computing over encrypted spatial data generated by IoT. <i>Telecommunication Systems</i> , <b>2019</b> , 70, 193-229	2.3	4
52	Analysis of Si/SiGe Heterostructure Solar Cell. <i>Journal of Energy</i> , <b>2014</b> , 2014, 1-7	1	4
51	Performance Analysis under the Influence of Jamming for WiMAX System <b>2011</b> ,		4
50	Adaptive Small Cell position algorithm (ASPA) for green farming using NB-IoT. <i>Journal of Network and Computer Applications</i> , <b>2021</b> , 173, 102841	7.9	4
49	Security issues in ultra dense network for 5G scenario <b>2018</b> ,		3
48	Power Optimization using Spectrum Sharing for 5G Wireless Networks <b>2019</b> ,		3
47	MATLAB User Interface for Simulation of Silicon Germanium Solar Cell. <i>Journal of Materials</i> , <b>2015</b> , 2015, 1-6		3
46	IPv6 <b>2011</b> ,		3

45	WiMAX System Simulation and Performance Analysis under the Influence of Jamming. <i>Wireless Engineering and Technology</i> , <b>2010</b> , 01, 20-26	0.8	3
44	Location Based Performance of WiMAX Network for QoS with Optimal Base Stations (BS). <i>Wireless Engineering and Technology</i> , <b>2011</b> , 02, 135-145	0.8	3
43	Modelling and Simulation of Hydro Power Plant using MATLAB & WatPro 3.0. <i>International Journal of Intelligent Systems and Applications</i> , <b>2015</b> , 7, 1-8	1.5	3
42	Energy and spectral efficiency optimization using probabilistic based spectrum slicing (PBSS) in different zones of 5G wireless communication network. <i>Telecommunication Systems</i> , <b>2020</b> , 73, 59-73	2.3	3
41	AR-Based Half-Duplex Attack in Beyond 5G Networks. <i>IEEE Systems Journal</i> , <b>2021</b> , 15, 1693-1704	4.3	3
40	Filterless optical millimeter-wave generation using cascaded-parallel Mach-Zehnder modulators with tunable frequency multiplication factor. <i>Optical and Quantum Electronics</i> , <b>2021</b> , 53, 1	2.4	3
39	TPA: Prediction of Spoofing Attack Using Thermal Pattern Analysis in Ultra Dense Network for High Speed Handover Scenario. <i>IEEE Access</i> , <b>2018</b> , 6, 66268-66284	3.5	3
38	Security Architecture of 5G Wireless Communication Network. <i>International Journal of Sensors, Wireless Communications and Control</i> , <b>2018</b> , 8, 92-99	0.4	3
37	Protocol design and resource allocation for power optimization using spectrum sharing for 5G networks. <i>Telecommunication Systems</i> , <b>2019</b> , 72, 95-113	2.3	2
36	Power Optimization using Spectrum Sharing for Next Generation Cellular Networks <b>2019</b> ,		2
35	A performance Comparison with cost for QoS Application in On-Demand Cloud Computing <b>2011</b> ,		2
34	Notice of Violation of IEEE Publication Principles: A Performance Comparison of Routing Protocols for Security Issue in Wireless Mobile Ad Hoc Networks <b>2010</b> ,		2
33	Location based WiMAX network optimization <b>2011</b> ,		2
32	Detection and Fortification Analysis of WiMAX Network: With Misbehavior Node Attack. <i>International Journal of Communications, Network and System Sciences</i> , <b>2012</b> , 05, 353-367	0.2	2
31	Performance Analysis of Grouped Multilevel Space-Time Trellis Coding Technique Using Cognitive Radio in Different Deployment Models. <i>Wireless Communications and Mobile Computing</i> , <b>2019</b> , 2019, 1-20	1.9	2
30	SDown: A Novel Algorithm and Comparative Performance Analysis of Underlying Infrastructure in Software Defined Heterogeneous Network. <i>Fiber and Integrated Optics</i> , <b>2019</b> , 38, 43-75	0.8	2
29	Green IoT: A Short Survey on Technical Evolution & Techniques. <i>Wireless Personal Communications</i> , <b>2019</b> , 1	1.9	2
28	A comprehensive survey on Green ICT with 5G-NB-IoT: Towards sustainable planet. <i>Computer Networks</i> , <b>2021</b> , 199, 108433	5.4	2

27	Technology Involved in Bridging Physical, Cyber, and Hyper World. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 735-743	0.4	1
26	Half-Duplex Radio: Toward Green 5G NR. <i>IEEE Consumer Electronics Magazine</i> , <b>2020</b> , 9, 34-40	3.2	1
25	Software Defined Optical Networks (SDON): proposed architecture and comparative analysis. <i>Journal of the European Optical Society-Rapid Publications</i> , <b>2019</b> , 15,	2.5	1
24	A Survey on Wireless Security: IP Security Concern. <i>Advances in Intelligent Systems and Computing</i> , <b>2017</b> , 711-722	0.4	1
23	Performance Analysis of Black Hole Attack on WiMAX-WLAN Interface Network <b>2012</b> ,		1
22	Geo-Encryption - A New Direction to Secure Traditional SSL VPN <b>2011</b> ,		1
21	VLC Enabled Hybrid Wireless Network for B5G/6G Communications. <i>Wireless Personal Communications</i> ,1	1.9	1
20	Tactile based Intelligence Touch Technology in IoT configured WCN in B5G/6G-A Survey. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	1
19	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> , <b>2022</b> , 44, 1	2	1
18	A Performance of Security Aspect in WiMAX Physical Layer with Different Modulation Schemes. <i>Communications in Computer and Information Science</i> , <b>2011</b> , 433-440	0.3	1
17	Access Control Based on Location and Time. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2012</b> , 102-107	0.2	1
16	RBA: Region Based Algorithm for secure harvesting in Ultra Dense Network. <i>Journal of Network and Computer Applications</i> , <b>2019</b> , 125, 179-189	7.9	1
15	ANGUISH: Security attack in narrowband-Internet of Things (NB-IoT) using game theory and hardware analysis. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2021</b> , 32, e3987	1.9	1
14	Adaptive Resource Block Allocation for Green 5G Wireless Communication Networks <b>2018</b> ,		1
13	Comparison and Selection of Wavelets for Vibration Signals Denoising and Fault Detection of Rotating Machines using Neighborhood Correlation of SWT Coefficients <b>2018</b> ,		1
12	E2ARC: Energy-efficient adaptive resource block allocation with low complexity in device-to-device communication. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2018</b> , 29, e3525	1.9	1
11	Behavioral Model for Live Detection of Apps Based Attack. <i>IEEE Transactions on Computational Social Systems</i> , <b>2022</b> , 1-13	4.5	1
10	A Comprehensive Survey on Security Issues in 5G Wireless Communication Network using Beamforming Approach. <i>Wireless Personal Communications</i> , <b>2021</b> , 119, 3447-3501	1.9	0

9	Power optimization with low complexity using scaled beamforming approach for a massive MIMO and small cell scenario. <i>Wireless Networks</i> , <b>2020</b> , 26, 1165-1176	2.5	o
8	Green NOMA assisted NB-IoT based urban farming in multistory buildings. <i>Computer Networks</i> , <b>2021</b> , 199, 108410	5.4	o
7	RBA: Detection and Protection Analysis Using Region-Based Algorithm in Ultra-Dense Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 52997-53011	3.5	
6	Electronic Governance in Rural Areas: A Performance Case Study with WiMAX Technology. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 279-288	0.9	
5	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> , <b>2012</b> , 943-950		
4	An Optimum Approach for Radio Resource Allocation(RRA) in Mobile WiMAX Network. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 357-365	0.9	
3	Performance Analysis of Network Layer Security Attack in WiMAX System. <i>Advances in Intelligent Systems and Computing</i> , <b>2013</b> , 535-542	0.4	
2	Dispersed beamforming approach for secure communication in UDN. <i>Wireless Networks</i> , <b>2020</b> , 26, 3227-3244	3.5	
1	RFID based food rationing system. <i>HardwareX</i> , <b>2018</b> , 4, e00043	2.7	