AlÄº Äºmran

List of Publications by Year
in descending order

764 papers	20,270 citations	20817 60 h-index	22166 113 g-index
807 all docs	807 docs citations	807 times ranked	15313 citing authors

#	Article	IF	Citations
1	How much energy is needed to run a wireless network?. IEEE Wireless Communications, 2011, 18, 40-49.	9.0	1,269
2	Non-Intrusive Load Monitoring Approaches for Disaggregated Energy Sensing: A Survey. Sensors, 2012, 12, 16838-16866.	3.8	801
3	5G Backhaul Challenges and Emerging Research Directions: A Survey. IEEE Access, 2016, 4, 1743-1766.	4.2	558
4	A Speculative Study on 6G. IEEE Wireless Communications, 2020, 27, 118-125.	9.0	472
5	AI4COVID-19: AI enabled preliminary diagnosis for COVID-19 from cough samples via an app. Informatics in Medicine Unlocked, 2020, 20, 100378.	3.4	412
6	Challenges in 5G: how to empower SON with big data for enabling 5G. IEEE Network, 2014, 28, 27-33.	6.9	364
7	A Survey of Machine Learning Techniques Applied to Self-Organizing Cellular Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 2392-2431.	39.4	352
8	MmWave massive-MIMO-based wireless backhaul for the 5G ultra-dense network. IEEE Wireless Communications, 2015, 22, 13-21.	9.0	339
9	A Survey of Self Organisation in Future Cellular Networks. IEEE Communications Surveys and Tutorials, 2013, 15, 336-361.	39.4	331
10	Uplink non-orthogonal multiple access for 5G wireless networks. , 2014, , .		270
11	Deep learning and big data technologies for IoT security. Computer Communications, 2020, 151, 495-517.	5.1	209
12	Complementing IoT Services Through Software Defined Networking and Edge Computing: A Comprehensive Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 1761-1804.	39.4	208
13	6G Wireless Systems: A Vision, Architectural Elements, and Future Directions. IEEE Access, 2020, 8, 147029-147044.	4.2	193
14	Load Aware Self-Organising User-Centric Dynamic CoMP Clustering for 5G Networks. IEEE Access, 2016, 4, 2895-2906.	4.2	190
15	A Survey of the Challenges, Opportunities and Use of Multiple Antennas in Current and Future 5G Small Cell Base Stations. IEEE Access, 2016, 4, 2952-2964.	4.2	187
16	A Scalable Multi-Layer PBFT Consensus for Blockchain. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1146-1160.	5.6	184
17	Enabling Massive IoT in 5G and Beyond Systems: PHY Radio Frame Design Considerations. IEEE Access, 2016, 4, 3322-3339.	4.2	182
18	Blockchain-Enabled Wireless Internet of Things: Performance Analysis and Optimal Communication Node Deployment. IEEE Internet of Things Journal, 2019, 6, 5791-5802.	8.7	182

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19	Flexible power modeling of LTE base stations. , 2012, , .		177
20	Big data analytics for preventive medicine. Neural Computing and Applications, 2020, 32, 4417-4451.	5.6	175
21	Cellular Energy Efficiency Evaluation Framework. , 2011, , .		162
22	Unmanned aerial vehicle for internet of everything: Opportunities and challenges. Computer Communications, 2020, 155, 66-83.	5.1	138
23	BeepTrace: Blockchain-Enabled Privacy-Preserving Contact Tracing for COVID-19 Pandemic and Beyond. IEEE Internet of Things Journal, 2021, 8, 3915-3929.	8.7	138
24	Link Between Sustainability and Industry 4.0: Trends, Challenges and New Perspectives. IEEE Access, 2020, 8, 140079-140096.	4.2	134
25	Terahertz Channel Characterization Inside the Human Skin for Nano-Scale Body-Centric Networks. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 427-434.	3.1	131
26	Individual energy use and feedback in an office setting: A field trial. Energy Policy, 2013, 62, 717-728.	8.8	129
27	Coordinated Multi-Point Clustering Schemes: A Survey. IEEE Communications Surveys and Tutorials, 2017, 19, 743-764.	39.4	128
28	Mobile Health in the Developing World: Review of Literature and Lessons From a Case Study. IEEE Access, 2017, 5, 11540-11556.	4.2	126
29	Internet of Things (IoT) in 5G Wireless Communications. IEEE Access, 2016, 4, 10310-10314.	4.2	123
30	How 5G Wireless (and Concomitant Technologies) Will Revolutionize Healthcare?. Future Internet, 2017, 9, 93.	3.8	122
31	On the Energy Efficiency-Spectral Efficiency Trade-off over the MIMO Rayleigh Fading Channel. IEEE Transactions on Communications, 2012, 60, 1345-1356.	7.8	120
32	Blockchain-enabled resource management and sharing for 6G communications. Digital Communications and Networks, 2020, 6, 261-269.	5.0	119
33	Quality of Service Optimization in an IoT-Driven Intelligent Transportation System. IEEE Wireless Communications, 2019, 26, 10-17.	9.0	117
34	Radio Resource Management Scheme in NB-IoT Systems. IEEE Access, 2018, 6, 15051-15064.	4.2	115
35	Machine Learning Techniques for 5G and Beyond. IEEE Access, 2021, 9, 23472-23488.	4.2	111
36	EARTH &#x2014; Energy Aware Radio and Network Technologies. , 2009, , .		110

#	ARTICLE	IF	CITATIONS
37	Separation Framework: An Enabler for Cooperative and D2D Communication for Future 5G Networks. IEEE Communications Surveys and Tutorials, 2016, 18, 419-445.	39.4	109
38	Recent Advances in Fabrication Methods for Flexible Antennas in Wearable Devices: State of the Art. Sensors, 2019, 19, 2312.	3.8	107
39	Selfâ€Powered Implantable Medical Devices: Photovoltaic Energy Harvesting Review. Advanced Healthcare Materials, 2020, 9, e2000779.	7.6	107
40	State-of-the-art in terahertz sensing for food and water security â€" A comprehensive review. Trends in Food Science and Technology, 2019, 85, 241-251.	15.1	106
41	Millimeter-Wave Liquid Crystal Polymer Based Conformal Antenna Array for 5G Applications. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 84-88.	4.0	105
42	Challenges, Applications, and Future of Wireless Sensors in Internet of Things: A Review. IEEE Sensors Journal, 2022, 22, 5482-5494.	4.7	105
43	An Intelligent Non-Invasive Real-Time Human Activity Recognition System for Next-Generation Healthcare. Sensors, 2020, 20, 2653.	3.8	104
44	Control-Data Separation Architecture for Cellular Radio Access Networks: A Survey and Outlook. IEEE Communications Surveys and Tutorials, 2016, 18, 446-465.	39.4	102
45	Optical Non-Orthogonal Multiple Access for Visible Light Communication. IEEE Wireless Communications, 2018, 25, 82-88.	9.0	100
46	Ultrawideband Band-Notched Flexible Antenna for Wearable Applications. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1606-1609.	4.0	94
47	M2M Communications in 5G: State-of-the-Art Architecture, Recent Advances, and Research Challenges. , 2017, 55, 194-201.		92
48	A Cell Outage Management Framework for Dense Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 2097-2113.	6.3	91
49	Energy efficiency in heterogeneous wireless access networks. IEEE Wireless Communications, 2013, 20, 37-43.	9.0	90
50	High quality bio-oil from catalytic flash pyrolysis of lignocellulosic biomass over alumina-supported sodium carbonate. Fuel Processing Technology, 2014, 127, 72-79.	7.2	89
51	Planning Wireless Cellular Networks of Future: Outlook, Challenges and Opportunities. IEEE Access, 2017, 5, 4821-4845.	4.2	88
52	Anomaly Detection in Wireless Sensor Networks in a Non-Stationary Environment. IEEE Communications Surveys and Tutorials, 2014, 16, 1413-1432.	39.4	87
53	Edge computing in smart health care systems: Review, challenges, and research directions. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3710.	3.9	87
54	Nano-Communication for Biomedical Applications: A Review on the State-of-the-Art From Physical Layers to Novel Networking Concepts. IEEE Access, 2016, 4, 3920-3935.	4.2	84

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55	On Receiver Design for Uplink Low Density Signature OFDM (LDS-OFDM). IEEE Transactions on Communications, 2012, 60, 3499-3508.	7.8	82
56	A Survey of Self-Interference Management Techniques for Single Frequency Full Duplex Systems. IEEE Access, 2018, 6, 30242-30268.	4.2	81
57	Precision Techniques and Agriculture 4.0 Technologies to Promote Sustainability in the Coffee Sector: State of the Art, Challenges and Future Trends. IEEE Access, 2020, 8, 149854-149867.	4.2	81
58	On the Energy Efficiency-Spectral Efficiency Trade-Off in the Uplink of CoMP System. IEEE Transactions on Wireless Communications, 2012, 11, 556-561.	9.2	79
59	On the multicell processing capacity of the cellular MIMO uplink channel in correlated rayleigh fading environment. IEEE Transactions on Wireless Communications, 2009, 8, 3704-3715.	9.2	78
60	Self-Healing in Emerging Cellular Networks: Review, Challenges, and Research Directions. IEEE Communications Surveys and Tutorials, 2018, 20, 1682-1709.	39.4	78
61	Distributed Drone Base Station Positioning for Emergency Cellular Networks Using Reinforcement Learning. Cognitive Computation, 2018, 10, 790-804.	5.2	77
62	Energy Efficiency Benefits of RAN-as-a-Service Concept for a Cloud-Based 5G Mobile Network Infrastructure. IEEE Access, 2014, 2, 1586-1597.	4.2	75
63	A Review on the Role of Nano-Communication in Future Healthcare Systems: A Big Data Analytics Perspective. IEEE Access, 2018, 6, 41903-41920.	4.2	70
64	The role of satellites in 5G. , 2015, , .		69
65	On the Energy Efficiency-Spectral Efficiency Trade-Off of Distributed MIMO Systems. IEEE Transactions on Communications, 2013, 61, 3741-3753.	7.8	68
66	A Review of the State of the Art in Non-Contact Sensing for COVID-19. Sensors, 2020, 20, 5665.	3.8	64
67	A novel deep learning driven, low-cost mobility prediction approach for 5G cellular networks: The case of the Control/Data Separation Architecture (CDSA). Neurocomputing, 2019, 358, 479-489.	5.9	63
68	Energy-Efficient LoRaWAN for Industry 4.0 Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 891-902.	11.3	62
69	Low-power appliance monitoring using Factorial Hidden Markov Models. , 2013, , .		60
70	Toward Real-Time Control in Future Wireless Networks: Communication-Control Co-Design. IEEE Communications Magazine, 2019, 57, 138-144.	6.1	60
71	Routing Schemes in FANETs: A Survey. Sensors, 2020, 20, 38.	3.8	60
72	An Enhanced Energy Balanced Data Transmission Protocol for Underwater Acoustic Sensor Networks. Sensors, 2016, 16, 487.	3.8	59

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73	Interference Mitigation in D2D Communication Underlaying LTE-A Network. IEEE Access, 2016, 4, 7967-7987.	4.2	57
74	Machine Learning Driven Approach Towards the Quality Assessment of Fresh Fruits Using Non-Invasive Sensing. IEEE Sensors Journal, 2020, 20, 2075-2083.	4.7	57
75	Semi-Persistent RRC Protocol for Machine-Type Communication Devices in LTE Networks. IEEE Access, 2015, 3, 864-874.	4.2	56
76	A Review on the State of the Art in Atrial Fibrillation Detection Enabled by Machine Learning. IEEE Reviews in Biomedical Engineering, 2021, 14, 219-239.	18.0	55
77	Full Ground Ultra-Wideband Wearable Textile Antenna for Breast Cancer and Wireless Body Area Network Applications. Micromachines, 2021, 12, 322.	2.9	55
78	Green heterogeneous small-cell networks: toward reducing the CO_2 emissions of mobile communications industry using uplink power adaptation. , 2013, 51, 52-61.		54
79	An Overview of Post-Disaster Emergency Communication Systems in the Future Networks. IEEE Wireless Communications, 2019, 26, 132-139.	9.0	54
80	Recent Advances of Wearable Antennas in Materials, Fabrication Methods, Designs, and Their Applications: State-of-the-Art. Micromachines, 2020, 11, 888.	2.9	54
81	Numerical Treatment for the Three-Dimensional Eyring-Powell Fluid Flow over a Stretching Sheet with Velocity Slip and Activation Energy. Advances in Mathematical Physics, 2019, 2019, 1-12.	0.8	53
82	Mobility prediction for handover management in cellular networks with control/data separation. , 2015, , .		52
83	Energy efficient hybrid satellite terrestrial 5G networks with software defined features. Journal of Communications and Networks, 2017, 19, 147-161.	2.6	51
84	Low-Cost Inkjet-Printed UHF RFID Tag-Based System for Internet of Things Applications Using Characteristic Modes. IEEE Internet of Things Journal, 2019, 6, 3962-3975.	8.7	51
85	Securing Internet of Medical Things with Friendly-jamming schemes. Computer Communications, 2020, 160, 431-442.	5.1	51
86	DEKCS: A Dynamic Clustering Protocol to Prolong Underwater Sensor Networks. IEEE Sensors Journal, 2021, 21, 9457-9464.	4.7	51
87	The 3-D flow of Casson nanofluid over a stretched sheet with chemical reactions, velocity slip, thermal radiation and Brownian motion. Thermal Science, 2020, 24, 2929-2939.	1.1	50
88	Computationally Intelligent Techniques for Resource Management in MmWave Small Cell Networks. IEEE Wireless Communications, 2018, 25, 32-39.	9.0	47
89	Impact of IoT on Manufacturing Industry 4.0: A New Triangular Systematic Review. Sustainability, 2021, 13, 12506.	3.2	47
90	Collaborative Spectrum Sensing Optimisation Algorithms for Cognitive Radio Networks. International Journal of Digital Multimedia Broadcasting, 2010, 2010, 1-20.	0.6	46

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91	Robust and Efficient Integrated Antenna With EBG-DGS Enabled Wide Bandwidth for Wearable Medical Device Applications. IEEE Access, 2020, 8, 56346-56358.	4.2	46
92	Low-Complexity Symbol Detection and Interference Cancellation for OTFS System. IEEE Transactions on Communications, 2021, 69, 1524-1537.	7.8	46
93	Catalytic Flash Pyrolysis of Biomass Using Different Types of Zeolite and Online Vapor Fractionation. Energies, 2016, 9, 187.	3.1	45
94	LiFi through Reconfigurable Intelligent Surfaces: A New Frontier for 6G?. IEEE Vehicular Technology Magazine, 2022, 17, 37-46.	3.4	45
95	Feasibility, architecture and cost considerations of using TVWS for rural Internet access in 5G. , 2017, , .		44
96	Efficient Handover Mechanism for Radio Access Network Slicing by Exploiting Distributed Learning. IEEE Transactions on Network and Service Management, 2020, 17, 2620-2633.	4.9	44
97	A Comprehensive Survey on Hybrid Communication in Context of Molecular Communication and Terahertz Communication for Body-Centric Nanonetworks. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 107-133.	2.1	44
98	A Survey of Machine Learning Applications to Handover Management in 5G and Beyond. IEEE Access, 2021, 9, 45770-45802.	4.2	44
99	Social-Aware Resource Allocation and Optimization for D2D Communication. IEEE Wireless Communications, 2017, 24, 122-129.	9.0	43
100	A Computational Analysis of Two-Phase Casson Nanofluid Passing a Stretching Sheet Using Chemical Reactions and Gyrotactic Microorganisms. Mathematical Problems in Engineering, 2019, 2019, 1-12.	1.1	43
101	A numerical approach for 2-D Sutterby fluid-flow bounded at a stagnation point with an inclined magnetic field and thermal radiation impacts. Thermal Science, 2021, 25, 1975-1987.	1.1	43
102	Cognition-Inspired 5G Cellular Networks: A Review and the Road Ahead. IEEE Access, 2018, 6, 35072-35090.	4.2	42
103	Non-Orthogonal Multiple Access (NOMA) for Future Radio Access. , 2017, , 135-163.		41
104	Spatiotemporal Mobility Prediction in Proactive Self-Organizing Cellular Networks. IEEE Communications Letters, 2017, 21, 370-373.	4.1	41
105	Wireless Backhaul: Performance Modeling and Impact on User Association for 5G. IEEE Transactions on Wireless Communications, 2018, 17, 3095-3110.	9.2	41
106	A Heterogeneous IoV Architecture for Data Forwarding in Vehicle to Infrastructure Communication. Mobile Information Systems, 2019, 2019, 1-12.	0.6	40
107	Service Provisioning Framework for RAN Slicing: User Admissibility, Slice Association and Bandwidth Allocation. IEEE Transactions on Mobile Computing, 2021, 20, 3409-3422.	5.8	40
108	An Application Development Framework for Internet-of-Things Service Orchestration. IEEE Internet of Things Journal, 2020, 7, 4543-4556.	8.7	40

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109	An Overview of Neuromorphic Computing for Artificial Intelligence Enabled Hardware-Based Hopfield Neural Network. IEEE Access, 2020, 8, 67085-67099.	4.2	39
110	Insights and Approaches for Low-Complexity 5G Small-Cell Base-Station Design for Indoor Dense Networks. IEEE Access, 2015, 3, 1562-1572.	4.2	38
111	Ultra-Reliable Communications for Industrial Internet of Things: Design Considerations and Channel Modeling. IEEE Network, 2019, 33, 104-111.	6.9	38
112	A Distributed SON-Based User-Centric Backhaul Provisioning Scheme. IEEE Access, 2016, 4, 2314-2330.	4.2	37
113	Cognitive health care system and its application in pillâ€rolling assessment. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2632.	1.9	37
114	Sensor Fusion for Identification of Freezing of Gait Episodes Using Wi-Fi and Radar Imaging. IEEE Sensors Journal, 2020, 20, 14410-14422.	4.7	37
115	Localized Algorithm for Segregation of Critical/Non-critical Nodes in Mobile Ad Hoc and Sensor Networks. Procedia Computer Science, 2013, 19, 1167-1172.	2.0	35
116	Design of Joint Sparse Graph for OFDM System. IEEE Transactions on Wireless Communications, 2015, 14, 1823-1836.	9.2	35
117	S -Band Sensing-Based Motion Assessment Framework for Cerebellar Dysfunction Patients. IEEE Sensors Journal, 2019, 19, 8460-8467.	4.7	35
118	Ellipsoidal neighbourhood outlier factor for distributed anomaly detection in resource constrained networks. Pattern Recognition, 2014, 47, 2867-2879.	8.1	34
119	A Survey and Tutorial of Electromagnetic Radiation and Reduction in Mobile Communication Systems. IEEE Communications Surveys and Tutorials, 2015, 17, 790-802.	39.4	34
120	LTE-advanced self-organizing network conflicts and coordination algorithms. IEEE Wireless Communications, 2015, 22, 108-117.	9.0	34
121	Predictive and Core-Network Efficient RRC Signalling for Active State Handover in RANs With Control/Data Separation. IEEE Transactions on Wireless Communications, 2017, 16, 1423-1436.	9.2	34
122	Mobile Edge Computing-Based Data-Driven Deep Learning Framework for Anomaly Detection. IEEE Access, 2019, 7, 137656-137667.	4.2	34
123	Privacy-Preserving Contact Tracing and Public Risk Assessment Using Blockchain for COVID-19 Pandemic. IEEE Internet of Things Magazine, 2020, 3, 58-63.	2.6	34
124	Software-defined networks for resource allocation in cloud computing: A survey. Computer Networks, 2021, 195, 108151.	5.1	34
125	Anatomical Region-Specific In Vivo Wireless Communication Channel Characterization. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1254-1262.	6.3	33
126	Energy Harvesting in LoRaWAN: A Cost Analysis for the Industry 4.0. IEEE Communications Letters, 2018, 22, 2358-2361.	4.1	33

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127	A Machine Learning Based 3D Propagation Model for Intelligent Future Cellular Networks. , 2019, , .		33
128	Artificial Intelligence-Powered Mobile Edge Computing-Based Anomaly Detection in Cellular Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 4986-4996.	11.3	33
129	Intelligent IoT Framework for Indoor Healthcare Monitoring of Parkinson's Disease Patient. IEEE Journal on Selected Areas in Communications, 2021, 39, 593-602.	14.0	33
130	6G Opportunities Arising from Internet of Things Use Cases: A Review Paper. Future Internet, 2021, 13, 159.	3.8	33
131	Contactless Small-Scale Movement Monitoring System Using Software Defined Radio for Early Diagnosis of COVID-19. IEEE Sensors Journal, 2021, 21, 17180-17188.	4.7	33
132	Energy Consumption Analysis and Optimization of BER-Constrained Amplify-and-Forward Relay Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 1256-1269.	6.3	32
133	Diagnosis of the Hypopnea syndrome in the early stage. Neural Computing and Applications, 2020, 32, 855-866.	5.6	32
134	An Efficient Method for Complex Antenna Design Based on a Self Adaptive Surrogate Model-Assisted Optimization Technique. IEEE Transactions on Antennas and Propagation, 2021, 69, 2302-2315.	5.1	32
135	Is blockchain for Internet of Medical Things a panacea for COVID-19 pandemic?. Pervasive and Mobile Computing, 2021, 75, 101434.	3.3	32
136	Discrete Human Activity Recognition and Fall Detection by Combining FMCW RADAR Data of Heterogeneous Environments for Independent Assistive Living. Electronics (Switzerland), 2021, 10, 2237.	3.1	32
137	Service Level Agreements for 5G and Beyond: Overview, Challenges and Enablers of 5G-Healthcare Systems. IEEE Access, 2021, 9, 1044-1061.	4.2	32
138	Enablers for Energy Efficient Wireless Networks. , 2010, , .		31
139	Distributed Anomaly Detection Using Minimum Volume Elliptical Principal Component Analysis. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2320-2333.	5.7	31
140	Energy-Aware Radio Resource Management in D2D-Enabled Multi-Tier HetNets. IEEE Access, 2018, 6, 16610-16622.	4.2	31
141	Utilizing a 5G spectrum for health care to detect the tremors and breathing activity for multiple sclerosis. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3454.	3.9	31
142	How Much Communication Resource is Needed to Run a Wireless Blockchain Network?. IEEE Network, 2022, 36, 128-135.	6.9	31
143	Comprehensive Survey of IoT, Machine Learning, and Blockchain for Health Care Applications: A Topical Assessment for Pandemic Preparedness, Challenges, and Solutions. Electronics (Switzerland), 2021, 10, 2501.	3.1	31
144	Coverage Gain and Device-to-Device User Density: Stochastic Geometry Modeling and Analysis. IEEE Communications Letters, 2015, 19, 1742-1745.	4.1	30

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145	THz Time-Domain Spectroscopy of Human Skin Tissue for In-Body Nanonetworks. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 803-809.	3.1	30
146	Critical Data-Based Incremental Cooperative Communication for Wireless Body Area Network. Sensors, 2018, 18, 3661.	3.8	30
147	Energy-Aware Smart Connectivity for IoT Networks: Enabling Smart Ports. Wireless Communications and Mobile Computing, 2018, 2018, 1-11.	1.2	30
148	Breathing Rhythm Analysis in Body Centric Networks. IEEE Access, 2018, 6, 32507-32513.	4.2	30
149	Concurrent Optimization of Coverage, Capacity, and Load Balance in HetNets Through Soft and Hard Cell Association Parameters. IEEE Transactions on Vehicular Technology, 2018, 67, 8781-8795.	6.3	30
150	Cell Fault Management Using Machine Learning Techniques. IEEE Access, 2019, 7, 124514-124539.	4.2	30
151	An efficient monitoring of eclamptic seizures in wireless sensors networks. Computers and Electrical Engineering, 2019, 75, 16-30.	4.8	30
152	Machine learning driven non-invasive approach of water content estimation in living plant leaves using terahertz waves. Plant Methods, 2019, 15, 138.	4.3	30
153	Mobility Management in Emerging Ultra-Dense Cellular Networks: A Survey, Outlook, and Future Research Directions. IEEE Access, 2020, 8, 183505-183533.	4.2	30
154	Network slicing: a next generation 5G perspective. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	2.4	30
155	Radar Sensing for Activity Classification in Elderly People Exploiting Micro-Doppler Signatures Using Machine Learning. Sensors, 2021, 21, 3881.	3.8	30
156	Machine learning empowered COVID-19 patient monitoring using non-contact sensing: An extensive review. Journal of Pharmaceutical Analysis, 2022, 12, 193-204.	5.3	30
157	Low-Cost Inkjet-Printed RFID Tag Antenna Design for Remote Healthcare Applications. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2019, 3, 261-268.	3.4	29
158	On the Capacity of Variable Density Cellular Systems under Multicell Decoding. IEEE Communications Letters, 2008, 12, 496-498.	4.1	28
159	Semi-Adaptive Beamforming for OFDM Based Hybrid Terrestrial-Satellite Mobile System. IEEE Transactions on Wireless Communications, 2012, 11, 3424-3433.	9.2	28
160	Expanding cellular coverage via cell-edge deployment in heterogeneous networks: spectral efficiency and backhaul power consumption perspectives. , 2014, 52, 140-149.		28
161	Physical Layer Authentication in Nano Networks at Terahertz Frequencies for Biomedical Applications. IEEE Access, 2017, 5, 7808-7815.	4.2	28
162	Coverage, Capacity, and Energy Efficiency Analysis in the Uplink of mmWave Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 3982-3997.	6.3	28

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164	On the Viable Area of Wireless Practical Byzantine Fault Tolerance (PBFT) Blockchain Networks. , 2019, , .		28
165	The Role of Artificial Intelligence Driven 5G Networks in COVID-19 Outbreak: Opportunities, Challenges, and Future Outlook. Frontiers in Communications and Networks, 2020, 1, .	3.0	28
166	Intelligent handover decision scheme using double deep reinforcement learning. Physical Communication, 2020, 42, 101133.	2.1	28
167	Receiver and resource allocation optimization for uplink NOMA in 5G wireless networks. , 2015, , .		27
168	The Cognitive Internet of Things: A Unified Perspective. Mobile Networks and Applications, 2015, 20, 72-85.	3.3	27
169	Energy-Efficient and Load-Proportional eNodeB for 5G User-Centric Networks: A Multilevel Sleep Strategy Mechanism. IEEE Vehicular Technology Magazine, 2018, 13, 51-59.	3.4	27
170	Establishing effective communications in disaster affected areas and artificial intelligence based detection using social media platform. Future Generation Computer Systems, 2020, 112, 1057-1069.	7.5	27
171	Low-Dimensional Subspace Estimation of Continuous-Doppler-Spread Channel in OTFS Systems. IEEE Transactions on Communications, 2021, 69, 4717-4731.	7.8	27
172	Future RAN Architecture: SD-RAN Through a General-Purpose Processing Platform. IEEE Vehicular Technology Magazine, 2015, 10, 52-60.	3.4	26
173	Mobility Prediction-Based Autonomous Proactive Energy Saving (AURORA) Framework for Emerging Ultra-Dense Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 958-971.	5.5	26
174	Controlling self healing cellular networks using fuzzy logic. , 2012, , .		25
175	Self Organization of Tilts in Relay Enhanced Networks: A Distributed Solution. IEEE Transactions on Wireless Communications, 2014, 13, 764-779.	9.2	25
176	An adaptive backhaul-aware cell range extension approach. , 2015, , .		25
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178	Energy Efficient Inter-Frequency Small Cell Discovery in Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 7122-7135.	6.3	25
179	User-Centric Cloud RAN: An Analytical Framework for Optimizing Area Spectral and Energy Efficiency. IEEE Access, 2018, 6, 19859-19875.	4.2	25
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185	Designing a Wind Energy Harvester for Connected Vehicles in Green Cities. Energies, 2021, 14, 5408.	3.1	24
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