Qammer H Abbasi

List of Publications by Year
in descending order

460 papers	8,184 citations	66234 42 h-index	85405 71 g-index
511 all docs	511 docs citations	511 times ranked	6594 citing authors

#	Article	IF	Citations
1	A Survey of Machine Learning Techniques Applied to Self-Organizing Cellular Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 2392-2431.	24.8	352
2	A Survey of Self Organisation in Future Cellular Networks. IEEE Communications Surveys and Tutorials, 2013, 15, 336-361.	24.8	331
3	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.	2.6	187
4	Enabling Massive IoT in 5G and Beyond Systems: PHY Radio Frame Design Considerations. IEEE Access, 2016, 4, 3322-3339.	2.6	182
5	Multi-dimensional data indexing and range query processing via Voronoi diagram for internet of things. Future Generation Computer Systems, 2019, 91, 382-391.	4.9	157
6	Compact and Low-Profile Textile EBG-Based Antenna for Wearable Medical Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2550-2553.	2.4	143
7	Link Between Sustainability and Industry 4.0: Trends, Challenges and New Perspectives. IEEE Access, 2020, 8, 140079-140096.	2.6	134
8	Terahertz Channel Characterization Inside the Human Skin for Nano-Scale Body-Centric Networks. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 427-434.	2.0	131
9	Individual energy use and feedback in an office setting: A field trial. Energy Policy, 2013, 62, 717-728.	4.2	129
10	How 5G Wireless (and Concomitant Technologies) Will Revolutionize Healthcare?. Future Internet, 2017, 9, 93.	2.4	122
11	Quality of Service Optimization in an IoT-Driven Intelligent Transportation System. IEEE Wireless Communications, 2019, 26, 10-17.	6.6	117
12	Recent Advances in Fabrication Methods for Flexible Antennas in Wearable Devices: State of the Art. Sensors, 2019, 19, 2312.	2.1	107
13	Self‐Powered Implantable Medical Devices: Photovoltaic Energy Harvesting Review. Advanced Healthcare Materials, 2020, 9, e2000779.	3.9	107
14	State-of-the-art in terahertz sensing for food and water security – A comprehensive review. Trends in Food Science and Technology, 2019, 85, 241-251.	7.8	106
15	Millimeter-Wave Liquid Crystal Polymer Based Conformal Antenna Array for 5G Applications. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 84-88.	2.4	105
16	Challenges, Applications, and Future of Wireless Sensors in Internet of Things: A Review. IEEE Sensors Journal, 2022, 22, 5482-5494.	2.4	105
17	An Intelligent Non-Invasive Real-Time Human Activity Recognition System for Next-Generation Healthcare. Sensors, 2020, 20, 2653.	2.1	104
18	Control-Data Separation Architecture for Cellular Radio Access Networks: A Survey and Outlook. IEEE Communications Surveys and Tutorials, 2016, 18, 446-465.	24.8	102

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19	Ultrawideband Band-Notched Flexible Antenna for Wearable Applications. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1606-1609.	2.4	94
20	A Cell Outage Management Framework for Dense Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 2097-2113.	3.9	91
21	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.	2.6	84
22	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.	2.6	81
23	A Review on the Role of Nano-Communication in Future Healthcare Systems: A Big Data Analytics Perspective. IEEE Access, 2018, 6, 41903-41920.	2.6	70
24	An Overview of Electromagnetic Band-Gap Integrated Wearable Antennas. IEEE Access, 2020, 8, 7641-7658.	2.6	66
25	Inverted E-Shaped Wearable Textile Antenna for Medical Applications. IEEE Access, 2018, 6, 35214-35222.	2.6	64
26	A Review of the State of the Art in Non-Contact Sensing for COVID-19. Sensors, 2020, 20, 5665.	2.1	64
27	Numerical Characterization and Modeling of Subject-Specific Ultrawideband Body-Centric Radio Channels and Systems for Healthcare Applications. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 221-227.	3.6	63
28	Design of band‐notched ultra wideband antenna for indoor and wearable wireless communications. IET Microwaves, Antennas and Propagation, 2015, 9, 243-251.	0.7	57
29	Machine Learning Driven Approach Towards the Quality Assessment of Fresh Fruits Using Non-Invasive Sensing. IEEE Sensors Journal, 2020, 20, 2075-2083.	2.4	57
30	Efficient AoA-Based Wireless Indoor Localization for Hospital Outpatients Using Mobile Devices. Sensors, 2018, 18, 3698.	2.1	56
31	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.	13.1	55
32	Full Ground Ultra-Wideband Wearable Textile Antenna for Breast Cancer and Wireless Body Area Network Applications. Micromachines, 2021, 12, 322.	1.4	55
33	Recent Advances of Wearable Antennas in Materials, Fabrication Methods, Designs, and Their Applications: State-of-the-Art. Micromachines, 2020, 11, 888.	1.4	54
34	A Low Profile Antenna for Millimeter-Wave Body-Centric Applications. IEEE Transactions on Antennas and Propagation, 2017, 65, 6329-6337.	3.1	54
35	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.	5.5	51
36	Securing Internet of Medical Things with Friendly-jamming schemes. Computer Communications, 2020, 160, 431-442.	3.1	51

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37	DEKCS: A Dynamic Clustering Protocol to Prolong Underwater Sensor Networks. IEEE Sensors Journal, 2021, 21, 9457-9464.	2.4	51
38	Impact of IoT on Manufacturing Industry 4.0: A New Triangular Systematic Review. Sustainability, 2021, 13, 12506.	1.6	47
39	WBSN in IoT Health-Based Application: Toward Delay and Energy Consumption Minimization. Journal of Sensors, 2019, 2019, 1-14.	0.6	46
40	Robust and Efficient Integrated Antenna With EBG-DGS Enabled Wide Bandwidth for Wearable Medical Device Applications. IEEE Access, 2020, 8, 56346-56358.	2.6	46
41	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.	1.4	44
42	A Survey of Machine Learning Applications to Handover Management in 5G and Beyond. IEEE Access, 2021, 9, 45770-45802.	2.6	44
43	Predicting long-term type 2 diabetes with support vector machine using oral glucose tolerance test. PLoS ONE, 2019, 14, e0219636.	1.1	43
44	Internet of Things for Sensing: A Case Study in the Healthcare System. Applied Sciences (Switzerland), 2018, 8, 508.	1.3	42
45	Compact Low-Profile Dual-Port Single Wideband Planar Inverted-F MIMO Antenna. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1673-1675.	2.4	41
46	Analytical modelling of the effect of noise on the terahertz in-vivo communication channel for body-centric nano-networks. Nano Communication Networks, 2018, 15, 59-68.	1.6	41
47	Cooperative In-Vivo Nano-Network Communication at Terahertz Frequencies. IEEE Access, 2017, 5, 8642-8647.	2.6	40
48	An Overview of Neuromorphic Computing for Artificial Intelligence Enabled Hardware-Based Hopfield Neural Network. IEEE Access, 2020, 8, 67085-67099.	2.6	39
49	On-Body Radio Channel Characterization and System-Level Modeling for Multiband OFDM Ultra-Wideband Body-Centric Wireless Network. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	2.9	38
50	Insights and Approaches for Low-Complexity 5G Small-Cell Base-Station Design for Indoor Dense Networks. IEEE Access, 2015, 3, 1562-1572.	2.6	38
51	Inkjet-Printed Millimetre-Wave PET-Based Flexible Antenna for 5G Wireless Applications. , 2018, , .		38
52	Metamaterial inspired fabric antenna for wearable applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21640.	0.8	38
53	Cognitive health care system and its application in pillâ€rolling assessment. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2632.	1.2	37
54	Sensor Fusion for Identification of Freezing of Gait Episodes Using Wi-Fi and Radar Imaging. IEEE Sensors Journal, 2020, 20, 14410-14422.	2.4	37

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55	EXPERIMENTAL INVESTIGATION OF ULTRA WIDEBAND DIVERSITY TECHNIQUES FOR ON-BODY RADIO COMMUNICATIONS. Progress in Electromagnetics Research C, 2013, 34, 165-181.	0.6	36
56	Miniaturized and Flexible FSS-Based EM Shields for Conformal Applications. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1703-1710.	1.4	36
57	S -Band Sensing-Based Motion Assessment Framework for Cerebellar Dysfunction Patients. IEEE Sensors Journal, 2019, 19, 8460-8467.	2.4	35
58	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.	6.1	34
59	Mobile Edge Computing-Based Data-Driven Deep Learning Framework for Anomaly Detection. IEEE Access, 2019, 7, 137656-137667.	2.6	34
60	Anatomical Region-Specific In Vivo Wireless Communication Channel Characterization. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1254-1262.	3.9	33
61	Artificial Intelligence-Powered Mobile Edge Computing-Based Anomaly Detection in Cellular Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 4986-4996.	7.2	33
62	6G Opportunities Arising from Internet of Things Use Cases: A Review Paper. Future Internet, 2021, 13, 159.	2.4	33
63	Contactless Small-Scale Movement Monitoring System Using Software Defined Radio for Early Diagnosis of COVID-19. IEEE Sensors Journal, 2021, 21, 17180-17188.	2.4	33
64	Intrusion Detection Framework for the Internet of Things Using a Dense Random Neural Network. IEEE Transactions on Industrial Informatics, 2022, 18, 6435-6444.	7.2	33
65	Diagnosis of the Hypopnea syndrome in the early stage. Neural Computing and Applications, 2020, 32, 855-866.	3.2	32
66	Discrete Human Activity Recognition and Fall Detection by Combining FMCW RADAR Data of Heterogeneous Environments for Independent Assistive Living. Electronics (Switzerland), 2021, 10, 2237.	1.8	32
67	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.	2.6	31
68	THz Time-Domain Spectroscopy of Human Skin Tissue for In-Body Nanonetworks. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 803-809.	2.0	30
69	Critical Data-Based Incremental Cooperative Communication for Wireless Body Area Network. Sensors, 2018, 18, 3661.	2.1	30
70	Breathing Rhythm Analysis in Body Centric Networks. IEEE Access, 2018, 6, 32507-32513.	2.6	30
71	Cell Fault Management Using Machine Learning Techniques. IEEE Access, 2019, 7, 124514-124539.	2.6	30
72	An efficient monitoring of eclamptic seizures in wireless sensors networks. Computers and Electrical Engineering, 2019, 75, 16-30.	3.0	30

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73	Machine learning driven non-invasive approach of water content estimation in living plant leaves using terahertz waves. Plant Methods, 2019, 15, 138.	1.9	30
74	Radar Sensing for Activity Classification in Elderly People Exploiting Micro-Doppler Signatures Using Machine Learning. Sensors, 2021, 21, 3881.	2.1	30
75	Machine learning empowered COVID-19 patient monitoring using non-contact sensing: An extensive review. Journal of Pharmaceutical Analysis, 2022, 12, 193-204.	2.4	30
76	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.	2.3	29
77	Enhancement of the Duty Cycle Cooperative Medium Access Control for Wireless Body Area Networks. IEEE Access, 2019, 7, 3348-3359.	2.6	29
78	Physical Layer Authentication in Nano Networks at Terahertz Frequencies for Biomedical Applications. IEEE Access, 2017, 5, 7808-7815.	2.6	28
79	Novel QoS-Aware Proactive Spectrum Access Techniques for Cognitive Radio Using Machine Learning. IEEE Access, 2019, 7, 70811-70827.	2.6	28
80	The Role of Artificial Intelligence Driven 5G Networks in COVID-19 Outbreak: Opportunities, Challenges, and Future Outlook. Frontiers in Communications and Networks, 2020, 1, .	1.9	28
81	Intelligent handover decision scheme using double deep reinforcement learning. Physical Communication, 2020, 42, 101133.	1.2	28
82	Arm movements effect on ultra wideband on-body propagation channels and radio systems. , 2009, , .		25
83	Monitoring of atopic dermatitis using leaky coaxial cable. Healthcare Technology Letters, 2017, 4, 244-248.	1.9	25
84	Energy harvesting Internet of Things health-based paradigm: Towards outage probability reduction through inter€"wireless body area network cooperation. International Journal of Distributed Sensor Networks, 2019, 15, 155014771987987.	1.3	25
85	Power Management Using Photovoltaic Cells for Implantable Devices. IEEE Access, 2018, 6, 42156-42164.	2.6	24
86	Non-Invasive Hydration Level Estimation in Human Body Using Galvanic Skin Response. IEEE Sensors Journal, 2020, 20, 4891-4900.	2.4	24
87	Grand Challenges in IoT and Sensor Networks. Frontiers in Communications and Networks, 2020, 1, .	1.9	24
88	Analytical Characterisation of the Terahertz In-Vivo Nano-Network in the Presence of Interference Based on TS-OOK Communication Scheme. IEEE Access, 2017, 5, 10172-10181.	2.6	23
89	Reliable emergency data transmission using transmission mode selection in wireless body area network. Cogent Engineering, 2018, 5, 1562859.	1.1	23
90	Characterization and Water Content Estimation Method of Living Plant Leaves Using Terahertz Waves. Applied Sciences (Switzerland), 2019, 9, 2781.	1.3	23

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91	WiFreeze: Multiresolution Scalograms for Freezing of Gait Detection in Parkinsonâ€™s Leveraging 5G Spectrum with Deep Learning. Electronics (Switzerland), 2019, 8, 1433.	1.8	23
92	Privacy-Preserving Non-Wearable Occupancy Monitoring System Exploiting Wi-Fi Imaging for Next-Generation Body Centric Communication. Micromachines, 2020, 11, 379.	1.4	23
93	Privacy-Preserving Wandering Behavior Sensing in Dementia Patients Using Modified Logistic and Dynamic Newton Leipnik Maps. IEEE Sensors Journal, 2021, 21, 3669-3679.	2.4	23
94	Fully Fabric High Impedance Surface-Enabled Antenna for Wearable Medical Applications. IEEE Access, 2021, 9, 6948-6960.	2.6	23
95	Making assembly line in supply chain robust and secure using UHF RFID. Scientific Reports, 2021, 11, 18041.	1.6	23
96	Intelligent wireless walls for contactless in-home monitoring. Light: Science and Applications, 2022, 11, .	7.7	23
97	Experimental characterisation of ultraâ€wideband offâ€body radio channels considering antenna effects. IET Microwaves, Antennas and Propagation, 2013, 7, 370-380.	0.7	22
98	A Systematic Review of Non-Contact Sensing for Developing a Platform to Contain COVID-19. Micromachines, 2020, 11, 912.	1.4	22
99	Energy and Performance Trade-Off Optimization in Heterogeneous Computing via Reinforcement Learning. Electronics (Switzerland), 2020, 9, 1812.	1.8	22
100	5G-enabled contactless multi-user presence and activity detection for independent assisted living. Scientific Reports, 2021, 11, 17590.	1.6	22
101	In Vivo Communications: Steps Toward the Next Generation of Implantable Devices. IEEE Vehicular Technology Magazine, 2016, 11, 32-42.	2.8	21
102	Compact Base Station Antenna Based on Image Theory for UWB/5G RTLS Embraced Smart Parking of Driverless Cars. IEEE Access, 2019, 7, 180898-180909.	2.6	21
103	Toward Convergence of AI and IoT for Energy-Efficient Communication in Smart Homes. IEEE Internet of Things Journal, 2021, 8, 9664-9671.	5.5	21
104	Suitability of NB-IoT for Indoor Industrial Environment: A Survey and Insights. Sensors, 2021, 21, 5284.	2.1	21
105	Terahertz characterisation of living plant leaves for quality of life assessment applications. , 2018, , .		20
106	Multiple Traffics Support in Wireless Body Area Network over Cognitive Cooperative Communication. , 2019, , .		20
107	Wireless Channel Modelling for Identifying Six Types of Respiratory Patterns With SDR Sensing and Deep Multilayer Perceptron. IEEE Sensors Journal, 2021, 21, 20833-20840.	2.4	20
108	Spatial Correlation Analysis of On-Body Radio Channels Considering Statistical Significance. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 780-783.	2.4	19

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109	AN ADVANCED UWB CHANNEL MODEL FOR BODY-CENTRIC WIRELESS NETWORKS. Progress in Electromagnetics Research, 2013, 136, 79-99.	1.6	19
110	Modelling of the terahertz communication channel for in-vivo nano-networks in the presence of noise. , 2016, , .		19
111	FREQUENCY RECONFIGURABLE PATCH ANTENNA FOR 4G LTE APPLICATIONS. Progress in Electromagnetics Research M, 2018, 69, 1-13.	0.5	19
112	Empty Substrate Integrated Waveguide Slot Antenna Array for 5G Applications. , 2018, , .		19
113	Channel Access and Power Control for Energy-Efficient Delay-Aware Heterogeneous Cellular Networks for Smart Grid Communications Using Deep Reinforcement Learning. IEEE Access, 2019, 7, 133474-133484.	2.6	19
114	A Secure Occupational Therapy Framework for Monitoring Cancer Patients' Quality of Life. Sensors, 2019, 19, 5258.	2.1	19
115	Non-Invasive RF Sensing for Detecting Breathing Abnormalities Using Software Defined Radios. IEEE Sensors Journal, 2021, 21, 5111-5118.	2.4	19
116	Internet of Things (IoT) Enabled Smart Indoor Air Quality Monitoring System. , 2020, , .		19
117	A Comparative Review on the Wireless Implantable Medical Devices Privacy and Security. , 2014, , .		19
118	Post-surgical fall detection by exploiting the 5 G C-Band technology for eHealth paradigm. Applied Soft Computing Journal, 2019, 81, 105537.	4.1	18
119	Reinforcement Learning for Scalable and Reliable Power Allocation in SDN-based Backscatter Heterogeneous Network. , 2020, , .		18
120	Planar Pyramid Shaped UHF RFID Tag Antenna With Polarisation Diversity for IoT Applications Using Characteristics Mode Analysis. IEEE Access, 2020, 8, 103684-103696.	2.6	18
121	Wireless Communication and Power Harvesting in Wearable Contact Lens Sensors. IEEE Sensors Journal, 2021, 21, 12484-12497.	2.4	18
122	RF Sensing Based Breathing Patterns Detection Leveraging USRP Devices. Sensors, 2021, 21, 3855.	2.1	18
123	Notice of Retraction: Infrared Sensing Based Non-Invasive Initial Diagnosis of Chronic Liver Disease Using Ensemble Learning. IEEE Sensors Journal, 2021, 21, 19395-19406.	2.4	18
124	An Ultrawideband Microfabricated Gold-Based Antenna Array for Terahertz Communication. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2156-2160.	2.4	18
125	Experimental Characterization and Statistical Analysis of the Pseudo-Dynamic Ultrawideband On-Body Radio Channel. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 748-751.	2.4	17
126	Physical layer security for wireless implantable medical devices. , 2015, , .		17

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127	Channel Impulse Response-Based Distributed Physical Layer Authentication. , 2017, , .		17
128	Inkjet‐printed UHF RFID tag based system for salinity and sugar detection. Microwave and Optical Technology Letters, 2019, 61, 2161-2168.	0.9	17
129	Dielectric and Double Debye Parameters of Artificial Normal Skin and Melanoma. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 657-672.	1.2	17
130	Terahertz Antenna Array Based on a Hybrid Perovskite Structure. IEEE Open Journal of Antennas and Propagation, 2020, 1, 464-471.	2.5	17
131	A Review on Wearable and Contactless Sensing for COVID-19 With Policy Challenges. Frontiers in Communications and Networks, 2021, 2, .	1.9	17
132	Portable UWB RADAR Sensing System for Transforming Subtle Chest Movement Into Actionable Micro-Doppler Signatures to Extract Respiratory Rate Exploiting ResNet Algorithm. IEEE Sensors Journal, 2021, 21, 23518-23526.	2.4	17
133	Millimeter-Wave Smart Antenna Solutions for URLLC in Industry 4.0 and Beyond. Sensors, 2022, 22, 2688.	2.1	17
134	A Compact Wearable Antenna Using EBG for Smart-Watch Applications. , 2018, , .		16
135	Frequency reconfigurable patch antenna with bias tee for wireless LAN applications. IET Microwaves, Antennas and Propagation, 2018, 12, 2248-2254.	0.7	16
136	A Wideband Beamforming Antenna Array for 802.11ac and 4.9 GHz in Modern Transportation Market. IEEE Transactions on Vehicular Technology, 2020, 69, 2659-2670.	3.9	16
137	Travelers-Tracing and Mobility Profiling Using Machine Learning in Railway Systems. , 2020, , .		16
138	Autonomous D2D Transmission Scheme in URLLC for Real-Time Wireless Control Systems. IEEE Transactions on Communications, 2021, 69, 5546-5558.	4.9	16
139	Improving Machine Learning Classification Accuracy for Breathing Abnormalities by Enhancing Dataset. Sensors, 2021, 21, 6750.	2.1	16
140	A Bra Monitoring System Using a Miniaturized Wearable Ultra-Wideband MIMO Antenna for Breast Cancer Imaging. Electronics (Switzerland), 2021, 10, 2563.	1.8	16
141	Antenna incorporated with Electromagnetic Bandgap (EBG) for wearable application at 2.4 GHz wireless bands. , 2016, , .		15
142	Fibroblasts cell number density based human skin characterization at THz for in-body nanonetworks. Nano Communication Networks, 2016, 10, 60-67.	1.6	15
143	Leveraging Intelligence from Network CDR Data for Interference Aware Energy Consumption Minimization. IEEE Transactions on Mobile Computing, 2018, 17, 1569-1582.	3.9	15
144	Impact of Cell Density and Collagen Concentration on the Electromagnetic Properties of Dermal Equivalents in the Terahertz Band. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 381-389.	2.0	15

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145	A multiband circular polarization selective metasurface for microwave applications. Scientific Reports, 2021, 11, 1774.	1.6	15
146	Hybrid Workload Enabled and Secure Healthcare Monitoring Sensing Framework in Distributed Fog-Cloud Network. Electronics (Switzerland), 2021, 10, 1974.	1.8	15
147	Chronic Obstructive Pulmonary Disease Warning in the Approximate Ward Environment. Applied Sciences (Switzerland), 2018, 8, 1915.	1.3	14
148	A Load-Aware Clustering Model for Coordinated Transmission in Future Wireless Networks. IEEE Access, 2019, 7, 92693-92708.	2.6	14
149	Mobility Prediction-Based Optimisation and Encryption of Passenger Traffic-Flows Using Machine Learning. Sensors, 2020, 20, 2629.	2.1	14
150	A Cooperative Massive MIMO System for Future <i>In Vivo</i> Nanonetworks. IEEE Systems Journal, 2021, 15, 331-337.	2.9	14
151	Millimetre-Wave Metamaterial-Based Sensor for Characterisation of Cooking Oils. International Journal of Antennas and Propagation, 2021, 2021, 1-10.	0.7	14
152	A Zero Placement Algorithm for Synthesis of Flat Top Beam Pattern With Low Sidelobe Level. IEEE Access, 2020, 8, 225935-225944.	2.6	14
153	Solar Irradiance Forecasting Using a Data-Driven Algorithm and Contextual Optimisation. Applied Sciences (Switzerland), 2022, 12, 134.	1.3	14
154	A non-invasive remote health monitoring system using visible light communication. , 2015, , .		13
155	Mathematical Modeling of Ultra Wideband <italic>in Vivo</italic> Radio Channel. IEEE Access, 2018, 6, 20848-20854.	2.6	13
156	Contactless Finger Tapping Detection at C-Band. IEEE Sensors Journal, 2021, 21, 5249-5258.	2.4	13
157	Compact Elliptical UWB Antenna for Underwater Wireless Communications. Micromachines, 2021, 12, 411.	1.4	13
158	Design and Evaluation of a Flexible Dual-Band Meander Line Monopole Antenna for On- and Off-Body Healthcare Applications. Micromachines, 2021, 12, 475.	1.4	13
159	Two-Dimensional Materials for Future Terahertz Wireless Communications. IEEE Open Journal of Antennas and Propagation, 2022, 3, 217-228.	2.5	13
160	System-level modelling of optimal ultra wideband body-centric wireless network. , 2009, , .		12
161	Dual band and dual mode antenna for power efficient body-centric wireless communications. , 2011, , .		12
162	Performance of Ultrawideband Wireless Tags for On-Body Radio Channel Characterisation. International Journal of Antennas and Propagation, 2012, 2012, 1-10.	0.7	12

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164	Ultra wideband antenna diversity characterisation for off‐body communications in an indoor environment. IET Microwaves, Antennas and Propagation, 2014, 8, 1161-1169.	0.7	12
165	A K_a‐band antenna based on an enhanced Franklin model for 5G cellular networks. Microwave and Optical Technology Letters, 2018, 60, 1562-1566.	0.9	12
166	Unmanned Aerial Vehicle-to-Wearables (UAV2W) Indoor Radio Propagation Channel Measurements and Modeling. IEEE Access, 2019, 7, 73741-73750.	2.6	12
167	Assessment of Worn Textile Antennas' Exposure on the Physiological Parameters and Well-Being of Adults. IEEE Access, 2019, 7, 98946-98958.	2.6	12
168	Delay-Aware Energy-Efficient Joint Power Control and Mode Selection in Device-to-Device Communications for FREEDM Systems in Smart Grids. IEEE Access, 2019, 7, 87369-87381.	2.6	12
169	Optimal Filter Length and Zero Padding Length Design for Universal Filtered Multi-Carrier (UFMC) System. IEEE Access, 2019, 7, 21687-21701.	2.6	12
170	A low‐profile 28‐GHz Rotman lens‐fed array beamformer for 5G conformal subsystems. Microwave and Optical Technology Letters, 2019, 61, 671-675.	0.9	12
171	Hardware-Based Hopfield Neuromorphic Computing for Fall Detection. Sensors, 2020, 20, 7226.	2.1	12
172	Wireless on Walls: Revolutionizing the future of health care. IEEE Antennas and Propagation Magazine, 2021, 63, 87-93.	1.2	12
173	A Business and Legislative Perspective of V2X and Mobility Applications in 5G Networks. IEEE Access, 2020, 8, 67426-67435.	2.6	12
174	Collagen Analysis at Terahertz Band Using Double-Debye Parameter Extraction and Particle Swarm Optimisation. IEEE Access, 2017, 5, 27850-27856.	2.6	11
175	Packet-Drop Design in URLLC for Real-Time Wireless Control Systems. IEEE Access, 2019, 7, 183081-183090.	2.6	11
176	Modulation Mode Detection and Classification for *In Vivo* Nano-Scale Communication Systems Operating in Terahertz Band. IEEE Transactions on Nanobioscience, 2019, 18, 10-17.	2.2	11
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178	Review on frequency reconfigurable antenna using substrate-integrated waveguide for cognitive radio application. Journal of Electromagnetic Waves and Applications, 2021, 35, 958-990.	1.0	11
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180	Wearable Metamaterial Dual-Polarized High Isolation UWB MIMO Vivaldi Antenna for 5G and Satellite Communications. Micromachines, 2021, 12, 1559.	1.4	11

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