

Masood Ur-Rehman

List of Publications by Year in descending order

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118
papers

1,889
citations

304743

22
h-index

315739

38
g-index

139
all docs

139
docs citations

139
times ranked

1581
citing authors

#	ARTICLE	IF	CITATIONS
1	Single Feed Stacked Patch Circular Polarized Antenna for Triple Band GPS Receivers. IEEE Transactions on Antennas and Propagation, 2012, 60, 4479-4484.	5.1	134
2	Advances in Sensor Technologies in the Era of Smart Factory and Industry 4.0. Sensors, 2020, 20, 6783.	3.8	130
3	Challenges, Applications, and Future of Wireless Sensors in Internet of Things: A Review. IEEE Sensors Journal, 2022, 22, 5482-5494.	4.7	105
4	Ultrawideband Band-Notched Flexible Antenna for Wearable Applications. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 1606-1609.	4.0	94
5	Advances in Body-Centric Wireless Communication: Applications and state-of-the-art. , 2016, , .		73
6	Design of band-notched ultra wideband antenna for indoor and wearable wireless communications. IET Microwaves, Antennas and Propagation, 2015, 9, 243-251.	1.4	57
7	Interference Mitigation in D2D Communication Underlying LTE-A Network. IEEE Access, 2016, 4, 7967-7987.	4.2	57
8	Wandering Pattern Sensing at S-Band. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1863-1870.	6.3	56
9	Freezing of Gait Detection Considering Leaky Wave Cable. IEEE Transactions on Antennas and Propagation, 2019, 67, 554-561.	5.1	56
10	Implantable Antennas for Bio-Medical Applications. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 84-96.	3.4	55
11	A Low Profile Antenna for Millimeter-Wave Body-Centric Applications. IEEE Transactions on Antennas and Propagation, 2017, 65, 6329-6337.	5.1	54
12	Impact of IoT on Manufacturing Industry 4.0: A New Triangular Systematic Review. Sustainability, 2021, 13, 12506.	3.2	47
13	Internet of Things for Sensing: A Case Study in the Healthcare System. Applied Sciences (Switzerland), 2018, 8, 508.	2.5	42
14	Towards Supply Chain Visibility Using Internet of Things: A Dyadic Analysis Review. Sensors, 2021, 21, 4158.	3.8	38
15	Monitoring of Patients Suffering From REM Sleep Behavior Disorder. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2018, 2, 138-143.	3.4	37
16	Sleep Apnea Syndrome Sensing at C-Band. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-8.	3.7	37
17	An Internet of Things Based Bed-Egress Alerting Paradigm Using Wearable Sensors in Elderly Care Environment. Sensors, 2019, 19, 2498.	3.8	36
18	Diagnosis of the Hypopnea syndrome in the early stage. Neural Computing and Applications, 2020, 32, 855-866.	5.6	32

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19	Investigation of on-body Bluetooth transmission. IET Microwaves, Antennas and Propagation, 2010, 4, 871.	1.4	31
20	Energy Management in LTE Networks. IEEE Access, 2017, 5, 4264-4284.	4.2	27
21	On spectral radius and energy of complete multipartite graphs. Ars Mathematica Contemporanea, 2015, 9, 109-113.	0.6	25
22	Tri-band millimetre-wave antenna for body-centric networks. Nano Communication Networks, 2018, 18, 72-81.	2.9	24
23	A Novel Dual Ultrawideband CPW-Fed Printed Antenna for Internet of Things (IoT) Applications. Wireless Communications and Mobile Computing, 2018, 2018, 1-9.	1.2	24
24	TAEQ-A Thermal Aware & Energy Optimized Routing Protocol for Wireless Body Area Networks. Sensors, 2019, 19, 3275.	3.8	23
25	Achieving High Data Rate in Multiband-OFDM UWB Over Power-Line Communication System. IEEE Transactions on Power Delivery, 2012, 27, 1172-1177.	4.3	22
26	Detection of Essential Tremor at the \$\$\$ -Band. IEEE Journal of Translational Engineering in Health and Medicine, 2018, 6, 1-7.	3.7	22
27	Study of a printed split-ring monopole for dual-spectrum communications. Heliyon, 2021, 7, e07928.	3.2	22
28	Generation of orbital angular momentum (OAM) radio beams with phased patch array. , 2013, , .		21
29	Evaluation of a Statistical Model for the Characterization of Multipath Affecting Mobile Terminal GPS Antennas in Sub-Urban Areas. IEEE Transactions on Antennas and Propagation, 2012, 60, 1084-1094.	5.1	20
30	Continuous User Authentication Featuring Keystroke Dynamics Based on Robust Recurrent Confidence Model and Ensemble Learning Approach. IEEE Access, 2020, 8, 156177-156189.	4.2	20
31	Dual Band and Dual Diversity Four-Element MIMO Dipole for 5G Handsets. Sensors, 2021, 21, 767.	3.8	20
32	Authentication in Millimeter-Wave Body-Centric Networks Through Wireless Channel Characterization. IEEE Transactions on Antennas and Propagation, 2017, 65, 6616-6623.	5.1	17
33	Millimeter-Wave Smart Antenna Solutions for URLLC in Industry 4.0 and Beyond. Sensors, 2022, 22, 2688.	3.8	17
34	Biometric Behavior Authentication Exploiting Propagation Characteristics of Wireless Channel. IEEE Access, 2016, 4, 4789-4796.	4.2	16
35	Multiband Split-Ring Resonator Based Planar Inverted-F Antenna for 5G Applications. International Journal of Antennas and Propagation, 2017, 2017, 1-7.	1.2	15
36	Printed quadrifilar helix antenna with enhanced bandwidth. IET Microwaves, Antennas and Propagation, 2017, 11, 732-736.	1.4	14

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37	IoT for 5G/B5G Applications in Smart Homes, Smart Cities, Wearables and Connected Cars. , 2019, , .		13
38	Contactless Finger Tapping Detection at C-Band. IEEE Sensors Journal, 2021, 21, 5249-5258.	4.7	13
39	Ultra wideband antenna diversity characterisation for off-body communications in an indoor environment. IET Microwaves, Antennas and Propagation, 2014, 8, 1161-1169.	1.4	12
40	Internet of things: Architecture, technology and key problems in implementation. , 2015, , .		12
41	Antenna and Propagation Considerations for Amateur UAV Monitoring. IEEE Access, 2018, 6, 28001-28007.	4.2	12
42	Environment effects and system performance characterisation of GPS antennas for mobile terminals. Electronics Letters, 2009, 45, 243.	1.0	11
43	Design of a compact multiband circularly polarized antenna for global navigation satellite systems and 5G/B5G applications. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22182.	1.2	11
44	NUMERICAL MODELLING OF HUMAN BODY FOR BLUETOOTH BODY-WORN APPLICATIONS. Progress in Electromagnetics Research, 2013, 143, 623-639.	4.4	10
45	Millimetre-Wave Antennas and Systems for the Future 5G. International Journal of Antennas and Propagation, 2017, 2017, 1-2.	1.2	10
46	A Wearable Antenna for mmWave IoT Applications. , 2018, , .		10
47	Planar SIW Leaky Wave Antenna With Electronically Reconfigurable E- and H-Plane Scanning. IEEE Access, 2019, 7, 171206-171213.	4.2	10
48	Design of an LCP-based Antenna Array for 5G/B5G Wearable Applications. , 2019, , .		9
49	Double Threshold Authentication Using Body Area Radio Channel Characteristics. IEEE Communications Letters, 2016, 20, 2099-2102.	4.1	8
50	Review and Critical Analysis of Privacy-Preserving Infection Tracking and Contact Tracing. Frontiers in Communications and Networks, 2020, 1, .	3.0	8
51	Comparative analysis of scheduling algorithms for radio resource allocation in future communication networks. PeerJ Computer Science, 2021, 7, e546.	4.5	8
52	A compact multi-band slot-ring microstrip patch antenna for wireless applications. , 2013, , .		7
53	A circular patch frequency reconfigurable antenna for wearable applications. , 2015, , .		7
54	Design of a finger ring antenna for wireless sensor networks. , 2016, , .		7

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55	Design and Study of a Circular Polarised Conical-Disc-Backed Spiral Antenna for X-Band Applications. IEEE Access, 2017, 5, 21344-21354.	4.2	7
56	Antenna Systems for Internet of Things. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	1.2	7
57	A Vision-Based Amateur Drone Detection Algorithm for Public Safety Applications. , 2019, , .		7
58	Flexible and Wearable Graphene-based Terahertz Antenna for Body-Centric Applications. , 2019, , .		7
59	Green Communications: Techniques and Challenges. EAI Endorsed Transactions on Energy Web, 2017, 4, 153162.	0.4	7
60	Study of a microstrip patch antenna with multiple circular slots for portable devices. , 2015, , .		6
61	Design and Development of MIMO Antennas for WiGig Terminals. Electronics (Switzerland), 2019, 8, 1548.	3.1	6
62	A low profile penta-band antenna for portable devices. , 2016, , .		5
63	RSSI indoor localization through a Bayesian strategy. , 2017, , .		5
64	Miniature implantable antenna design for blood glucose monitoring. , 2018, , .		5
65	On-body bluetooth link budget: Effects of surrounding objects and role of surface waves. , 2008, , .		4
66	Design of a slotted-patch microstrip antenna for mobile terminals. , 2015, , .		4
67	Printed microstrip antenna for harvesting energy from mobile phone base stations. , 2016, , .		4
68	Secure Online Banking With Biometrics. , 2020, , .		4
69	A Compact Size Implantable Antenna for Bio-medical Applications. , 2020, , .		4
70	Detection of malicious consumer interest packet with dynamic threshold values. PeerJ Computer Science, 2021, 7, e435.	4.5	4
71	Ultra-wideband Hybrid PICA Terahertz Antenna for High-Resolution Biomedical Imaging. , 2020, , .		4
72	Design of a 60 GHz Microstrip Antenna for Multi-Gigabit Industrial Communication in Viewpoint of Industry 4.0. , 2022, , .		4

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73	Analysis of GPS antenna performance in a multipath environment. , 2008, , .		3
74	Design of a compact wearable single-arm spiral antenna for satellite communications. , 2013, , .		3
75	Ultra wideband in vivo radio channel characterisation and system modeling. , 2014, , .		3
76	Study of a novel multi-band antenna for body-centric wireless networks. , 2015, , .		3
77	A Wearable Health Monitoring System. , 2020, , .		3
78	A Tri-band Implantable Antenna for Biotelemetry Applications. , 2020, , .		3
79	Design Of A Compact Ultra-Wideband Microstrip Antenna for Millimeter-Wave Communication. , 2021, , .		3
80	Stacked patch circular polarized antenna for GPS/Galileo receiver applications. , 2012, , .		2
81	Patterns-of-Life Aided Authentication. Sensors, 2016, 16, 1574.	3.8	2
82	Analysis of Subchannel Correlation in Dual-Polarised MIMO Systems via a Polarisation Diversity Scheme. IEEE Transactions on Antennas and Propagation, 2017, 65, 2635-2644.	5.1	2
83	Extremely low profile flexible antenna for medical body area networks. , 2017, , .		2
84	Nano-Ferrite Near-Field Microwave Imaging for In-Body Applications. IEEE Access, 2018, 6, 29551-29557.	4.2	2
85	A Dipole Sub-Array With Reduced Mutual Coupling for Large Antenna Array Applications. IEEE Access, 2019, 7, 171495-171502.	4.2	2
86	Design of 1-Bit Digital Subwavelength Metasurface Element for Sub-6 GHz Applications. , 2020, , .		2
87	The integrally representable trees of norm $\$3\$$. Annals of Mathematical Sciences and Applications, 2017, 2, 385-408.	0.4	2
88	On-Body Bluetooth Link Budget: Effects of Surrounding Objects and Role of Surface Waves. , 2007, , .		1
89	A Study of Cross Ring Antenna for UWB Applications. , 2007, , .		1
90	Mobile terminal GPS antennas in multipath environment and effects of human body presence. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
91	Multiple input multiple output radio channel characterisation for ultra wideband body centric wireless communication. , 2013, , .		1
92	Characterization of the on-body received signal strength indication considering different propagation environment. , 2015, , .		1
93	Towards sparse characterisation of onâ€body ultraâ€wideband wireless channels. Healthcare Technology Letters, 2015, 2, 74-77.	3.3	1
94	Call blocking and outage probability in energyâ€efficient LTE networks. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3310.	3.9	1
95	Design and Modeling of Robust Multi Degree of Freedom Micro Gyroscope with Wide Bandwidth. , 2018, , .		1
96	Detection of Pressure and Heat in a Compressive Orthotic for Diabetes Prevention Using Nanotechnology. , 2018, , .		1
97	Hand Palm Local Channel Characterization for Millimeter-Wave Body-Centric Applications. IEEE Access, 2019, 7, 150976-150982.	4.2	1
98	Point Controlled Energy Efficient Medium Access in WLANs for Low Latency Communications. , 2019, , .		1
99	A Novel Approach to Policy Development under Disruptive Circumstances using Situation Awareness and Scenario Planning in Higher Education. , 2020, , .		1
100	A Corrugated SIW Based Slot Antenna for Terahertz Application. , 2020, , .		1
101	Flexible Ultra-Wideband Antenna for 5G and Beyond Wearable Applications. , 2021, , .		1
102	Numerical radio propagation characterisation and system level modelling for ultra wideband on-body communications. , 2013, , .		0
103	Software design of a monitoring and management system in the Internet of Things. , 2015, , .		0
104	IEEE Access Special Section: Advances in Interference Mitigation Techniques for Device-to-Device Communications. IEEE Access, 2019, 7, 177827-177831.	4.2	0
105	A 1-bit High-Gain Flexible Metasurface Reflectarray for Terahertz Application. , 2020, , .		0
106	Securing Health Monitoring via Body-Centric Time-Frequency Signature Authorization. IEEE Internet of Things Journal, 2021, 8, 4711-4722.	8.7	0
107	A Miniaturized Series Fed Tri-Slot Coplanar Vivaldi Antenna for RADAR Application With Reduced Ground Plane Effect. IEEE Open Journal of Antennas and Propagation, 2021, 2, 949-953.	3.7	0
108	Broadband Antennas. , 2016, , 27-71.		0

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109	Assessment and Feedback Under Disruptive Circumstances in Trans-National Education. , 2020, , .		0
110	Tunable Phantoms and Their Verification. Journal of Medical Imaging and Health Informatics, 2020, 10, 1-10.	0.3	0
111	A 60 GHz Broadband Wearable Antenna for Body-to-Body Communications. , 2021, , .		0
112	A resonant cavity system for exposing cell cultures to intense pulsed RF fields. Scientific Reports, 2022, 12, 4755.	3.3	0
113	Three-Port Lorentz Resonance Based Permittivity Sensor and Microwave Comparator. , 2021, , .		0
114	A Miniaturized Wideband 3 dB Rat-Race Coupler Utilizing Meander Lines. , 2021, , .		0
115	A wideband miniaturized 3 dB hybrid coupler for passive beam switching application. , 2021, , .		0
116	A Millimeter-wave Broadband Magneto-electric Dipole Antenna Using Complementary Back Reflectors and Air-gaps. , 2021, , .		0
117	On Fast Estimation of SAR for Metallic Rim-based MIMO Handsets. , 2022, , .		0
118	Flexible and Wearable Terahertz Antenna for Future Wireless Communication. , 2022, , .		0