

Fazal Muhammad

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.

62

papers

534

citations

12

h-index

19

g-index

67

ext. papers

780

ext. citations

2.6

avg, IF

4.64

L-index

#	Paper	IF	Citations
62	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 5241-5255	6.8	42
61	A Novel High Gain Wideband MIMO Antenna for 5G Millimeter Wave Applications. <i>Electronics (Switzerland)</i> , 2020 , 9, 1031	2.6	38
60	Analysis of Load Balancing and Interference Management in Heterogeneous Cellular Networks. <i>IEEE Access</i> , 2017 , 5, 14690-14705	3.5	30
59	Eight Element Side Edged Framed MIMO Antenna Array for Future 5G Smart Phones. <i>Micromachines</i> , 2020 , 11,	3.3	24
58	An Empirical Evaluation of Machine Learning Techniques for Chronic Kidney Disease Prophecy. <i>IEEE Access</i> , 2020 , 8, 55012-55022	3.5	23
57	Decoupled Downlink-Uplink Coverage Analysis with Interference Management for Enriched Heterogeneous Cellular Networks. <i>IEEE Access</i> , 2016 , 4, 6250-6260	3.5	22
56	S6AE: Securing 6LoWPAN Using Authenticated Encryption Scheme. <i>Sensors</i> , 2020 , 20,	3.8	19
55	Fuzzy-Based Fault-Tolerant Control for Omnidirectional Mobile Robot. <i>Machines</i> , 2020 , 8, 55	2.9	18
54	PDMAC: A Priority-Based Enhanced TDMA Protocol for Warning Message Dissemination in VANETs. <i>Sensors</i> , 2019 , 20,	3.8	16
53	Adaptive Equalization for Dispersion Mitigation in Multi-Channel Optical Communication Networks. <i>Electronics (Switzerland)</i> , 2019 , 8, 1364	2.6	14
52	Gain-Enhanced Metamaterial Based Antenna for 5G Communication Standards. <i>Computers, Materials and Continua</i> , 2020 , 64, 1587-1599	3.9	13
51	Location-based coverage and capacity analysis of a two tier HetNet. <i>IET Communications</i> , 2017 , 11, 1067-1073	1.7	12
50	Time Domain Equalization and Digital Back-Propagation Method-Based Receiver for Fiber Optic Communication Systems. <i>International Journal of Optics</i> , 2020 , 2020, 1-13	0.9	12
49	Nature Inspired MIMO Antenna System for Future mmWave Technologies. <i>Micromachines</i> , 2020 , 11,	3.3	12
48	Coverage analysis of ultra-dense heterogeneous cellular networks with interference management. <i>Wireless Networks</i> , 2020 , 26, 2013-2025	2.5	12
47	Modeling and minimization of FWM effects in DWDM-based long-haul optical communication systems. <i>Photonic Network Communications</i> , 2021 , 41, 36-46	1.7	12
46	Interference Management in Ultra-Dense 5G Networks With Excessive Drone Usage. <i>IEEE Access</i> , 2020 , 8, 102155-102164	3.5	11

45	Multiscale Image Matting Based Multi-Focus Image Fusion Technique. <i>Electronics (Switzerland)</i> , 2020 , 9, 472	2.6	11
44	Analysis of coverage-oriented small base station deployment in heterogeneous cellular networks. <i>Physical Communication</i> , 2020 , 38, 100908	2.2	11
43	A Deep Learning Approach for Mobility-Aware and Energy-Efficient Resource Allocation in MEC. <i>IEEE Access</i> , 2020 , 8, 179530-179546	3.5	11
42	SIR analysis for non-uniform HetNets with joint decoupled association and interference management. <i>Computer Communications</i> , 2020 , 155, 48-57	5.1	10
41	Coverage analysis of cell-edge users in heterogeneous wireless networks using Stienen's model and RFA scheme. <i>International Journal of Communication Systems</i> , 2020 , 33, e4147	1.7	9
40	Extenuation of phase shift influenced nonlinear impairments in fiber optics network. <i>Transactions on Emerging Telecommunications Technologies</i> , 2020 , 31, e3930	1.9	7
39	Analysis of decoupled association in HetNets using soft frequency reuse scheme. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 113, 152961	2.8	7
38	Improvement of Traveling Salesman Problem Solution Using Hybrid Algorithm Based on Best-Worst Ant System and Particle Swarm Optimization. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4780	2.6	7
37	Analysis of interference avoidance with load balancing in heterogeneous cellular networks 2016 ,		7
36	Uplink Interference Management for Hetnets Stressed by Clustered Wide-Band Jammers. <i>IEEE Access</i> , 2019 , 7, 182679-182690	3.5	7
35	Analysis of Interference Mitigation in Heterogeneous Cellular Networks using Soft Frequency Reuse and Load Balancing 2018 ,		7
34	Big Data Analytics for Short and Medium-Term Electricity Load Forecasting Using an AI Techniques Ensembler. <i>Energies</i> , 2020 , 13, 5193	3.1	6
33	Proactive Uplink Interference Management for Nonuniform Heterogeneous Cellular Networks. <i>IEEE Access</i> , 2020 , 8, 55501-55512	3.5	6
32	Design and Experimental Analysis of Multiband Frequency Reconfigurable Antenna for 5G and Sub-6 GHz Wireless Communication. <i>Micromachines</i> , 2020 , 12,	3.3	6
31	Performance analysis of user-centric SBS deployment with load balancing in heterogeneous cellular networks: A Thomas cluster process approach. <i>Computer Networks</i> , 2020 , 170, 107120	5.4	6
30	Mechanical Pressure Characterization of CNT-Graphene Composite Material. <i>Micromachines</i> , 2020 , 11,	3.3	6
29	A Novel Dynamic Link Connectivity Strategy Using Hello Messaging for Maintaining Link Stability in MANETs. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-23	1.9	6
28	Mitigation of Nonlinear Distortions for a 100 Gb/s Radio-Over-Fiber-Based WDM Network. <i>Electronics (Switzerland)</i> , 2020 , 9, 1796	2.6	5

27	V-Shaped Monopole Antenna with Chichena Itzia Inspired Defected Ground Structure for UWB Applications. <i>Computers, Materials and Continua</i> , 2020 , 65, 19-32	3.9	5
26	Enabling Soft Frequency Reuse and Stienen's Cell Partition in Two-Tier Heterogeneous Networks: Cell Deployment and Coverage Analysis. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 613-626	6.8	5
25	Square-Framed T Shape mmwave Antenna Array at 28 GHz for Future 5G Devices. <i>International Journal of Antennas and Propagation</i> , 2021 , 2021, 1-9	1.2	5
24	Capacity driven small cell deployment in heterogeneous cellular networks: Outage probability and rate coverage analysis. <i>Transactions on Emerging Telecommunications Technologies</i> , 2020 , 31, e3876	1.9	4
23	Outage Probability Analysis of User-Centric SBS-Based HCNets Under Hybrid Rician/Rayleigh Fading. <i>IEEE Communications Letters</i> , 2020 , 24, 297-301	3.8	4
22	An Effective Fairness Scheme for Named Data Networking. <i>Electronics (Switzerland)</i> , 2020 , 9, 749	2.6	3
21	Evaluation of Quality and Readability of Online Health Information on High Blood Pressure Using DISCERN and Flesch-Kincaid Tools. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3214	2.6	3
20	DSP-Assisted Nonlinear Impairments Tolerant 100 Gbps Optical Backhaul Network for Long-Haul Transmission. <i>Entropy</i> , 2020 , 22,	2.8	3
19	Optical-Interference Mitigation in Visible Light Communication for Intelligent Transport Systems Applications. <i>Energies</i> , 2020 , 13, 5064	3.1	3
18	LWE-CPPA: a scheme for secure delivery of warning messages in VANETs. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , 2020 , 34, 170	0.7	3
17	Uplink Performance Analysis of User-Centric Small Cell Aided Dense HCNets With Uplink-Downlink Decoupling. <i>IEEE Access</i> , 2020 , 8, 148460-148474	3.5	3
16	Proactive Uplink Interference Mitigation in HetNets Stressed by Uniformly Distributed Wideband Jammers. <i>Electronics (Switzerland)</i> , 2019 , 8, 1496	2.6	3
15	An Optimal Framework for WDM Systems Using Analytical Characterization of Refractive Index-Related Nonlinear Impairments. <i>Electronics (Switzerland)</i> , 2021 , 10, 221	2.6	3
14	Empirical Assessment of Machine Learning Techniques for Software Requirements Risk Prediction. <i>Electronics (Switzerland)</i> , 2021 , 10, 168	2.6	3
13	Analysis of Interference Management in Heterogeneous Cellular Networks in the Presence of Wideband Jammers. <i>IEEE Communications Letters</i> , 2020 , 24, 1138-1141	3.8	2
12	Deducing of Optical and Electronic Domains Based Distortions in Radio over Fiber Network. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 753	2.6	2
11	Solar Power System Assessments Using ANN and Hybrid Boost Converter Based MPPT Algorithm. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11332	2.6	2
10	5G Cellular Networks: Coverage Analysis in the Presence of Inter-Cell Interference and Intentional Jammers. <i>Electronics (Switzerland)</i> , 2020 , 9, 1538	2.6	2

9	Multilevel LVDC Distribution System With Voltage Unbalancing and Disturbance Rejection Control Topology. <i>IEEE Access</i> , 2020 , 8, 133787-133801	3.5	2
8	Investigation of multiple-stresses on mechanical and thermal properties of 9000 h Aged RTV-SiR composites for high-voltage insulation. <i>Journal of Elastomers and Plastics</i> , 2021 , 53, 489-503	1.6	2
7	Mitigation of Phase Noise and Nonlinearities for High Capacity Radio-over-Fiber Links. <i>Electronics (Switzerland)</i> , 2021 , 10, 345	2.6	2
6	Likelihood ascent search augmented sphere decoding receiver for MIMO systems using M-QAM constellations. <i>IET Communications</i> , 2020 , 14, 4152-4158	1.3	1
5	Alleviation of nonlinear channel effects in long-haul and high-capacity optical transmission networks. <i>International Journal of Communication Systems</i> , e5050	1.7	0
4	Chlorodifluoromethane (R22) Gas and Its Mixtures with CO ₂ /N ₂ /Air as an Alternative to SF ₆ . <i>Journal of Electrical Engineering and Technology</i> , 2021 , 16, 1573-1581	1.4	0
3	Corrigendum to Square-Framed T Shape mmwave Antenna Array at 28 GHz for Future 5G Devices <i>International Journal of Antennas and Propagation</i> , 2022 , 2022, 1-1	1.2	
2	Palliation of Four-Wave Mixing in Optical Fibers Using Improved DSP Receiver. <i>Electronics (Switzerland)</i> , 2021 , 10, 611	2.6	
1	Beyond 4000 Gbps Optical Backhaul Network With DSP Assistance Based Nonlinear Impairments Mitigation. <i>Radio Science</i> , 2021 , 56, e2020RS007111	1.4	