Fazal Muhammad

List of Publications by Year in Descending Order

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	Deducing of Optical and Electronic Domains Based Distortions in Radio over Fiber Network. *Applied Sciences (Switzerland)*, **2022**, 12, 753	2.6	2
61	Corrigendum to 𝔰quare-Framed T Shape mmwave Antenna Array at 28 GHz for Future 5G Devices𝔰 *International Journal of Antennas and Propagation*, **2022**, 2022, 1-1	1.2	
60	Solar Power System Assessments Using ANN and Hybrid Boost Converter Based MPPT Algorithm. *Applied Sciences (Switzerland)*, **2021**, 11, 11332	2.6	2
59	Chlorodifluoromethane (R22) Gas and Its Mixtures with CO2/N2/Air as an Alternative to SF6. *Journal of Electrical Engineering and Technology*, **2021**, 16, 1573-1581	1.4	0
58	Palliation of Four-Wave Mixing in Optical Fibers Using Improved DSP Receiver. *Electronics (Switzerland)*, **2021**, 10, 611	2.6	
57	Improvement of Traveling Salesman Problem Solution Using Hybrid Algorithm Based on Best-Worst Ant System and Particle Swarm Optimization. *Applied Sciences (Switzerland)*, **2021**, 11, 4780	2.6	7
56	Modeling and minimization of FWM effects in DWDM-based long-haul optical communication systems. *Photonic Network Communications*, **2021**, 41, 36-46	1.7	12
55	Investigation of multiple-stresses on mechanical and thermal properties of 9000 h Aged RTV-SiR composites for high-voltage insulation. *Journal of Elastomers and Plastics*, **2021**, 53, 489-503	1.6	2
54	An Optimal Framework for WDM Systems Using Analytical Characterization of Refractive Index-Related Nonlinear Impairments. *Electronics (Switzerland)*, **2021**, 10, 221	2.6	3
53	Enabling Soft Frequency Reuse and Stienen's Cell Partition in Two-Tier Heterogeneous Networks: Cell Deployment and Coverage Analysis. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 613-626	6.8	5
52	Mitigation of Phase Noise and Nonlinearities for High Capacity Radio-over-Fiber Links. *Electronics (Switzerland)*, **2021**, 10, 345	2.6	2
51	Square-Framed T Shape mmwave Antenna Array at 28 GHz for Future 5G Devices. *International Journal of Antennas and Propagation*, **2021**, 2021, 1-9	1.2	5
50	Beyond 4⊠00 Gbps Optical Backhaul Network With DSP Assistance Based Nonlinear Impairments Mitigation. *Radio Science*, **2021**, 56, e2020RS007111	1.4	
49	Empirical Assessment of Machine Learning Techniques for Software Requirements Risk Prediction. *Electronics (Switzerland)*, **2021**, 10, 168	2.6	3
48	Mitigation of Nonlinear Distortions for a 100 Gb/s Radio-Over-Fiber-Based WDM Network. *Electronics (Switzerland)*, **2020**, 9, 1796	2.6	5
47	Big Data Analytics for Short and Medium-Term Electricity Load Forecasting Using an AI Techniques Ensembler. *Energies*, **2020**, 13, 5193	3.1	6
46	S6AE: Securing 6LoWPAN Using Authenticated Encryption Scheme. *Sensors*, **2020**, 20,	3.8	19

45	Interference Management in Ultra-Dense 5G Networks With Excessive Drone Usage. *IEEE Access*, **2020**, 8, 102155-102164	3.5	11
44	An Effective Fairness Scheme for Named Data Networking. *Electronics (Switzerland)*, **2020**, 9, 749	2.6	3
43	An Empirical Evaluation of Machine Learning Techniques for Chronic Kidney Disease Prophecy. *IEEE Access*, **2020**, 8, 55012-55022	3.5	23
42	Multiscale Image Matting Based Multi-Focus Image Fusion Technique. *Electronics (Switzerland)*, **2020**, 9, 472	2.6	11
41	Extenuation of phase shift influenced nonlinear impairments in fiber optics network. *Transactions on Emerging Telecommunications Technologies*, **2020**, 31, e3930	1.9	7
40	A Novel High Gain Wideband MIMO Antenna for 5G Millimeter Wave Applications. *Electronics (Switzerland)*, **2020**, 9, 1031	2.6	38
39	Time Domain Equalization and Digital Back-Propagation Method-Based Receiver for Fiber Optic Communication Systems. *International Journal of Optics*, **2020**, 2020, 1-13	0.9	12
38	Capacity driven small cell deployment in heterogeneous cellular networks: Outage probability and rate coverage analysis. *Transactions on Emerging Telecommunications Technologies*, **2020**, 31, e3876	1.9	4
37	Analysis of Interference Management in Heterogeneous Cellular Networks in the Presence of Wideband Jammers. *IEEE Communications Letters*, **2020**, 24, 1138-1141	3.8	2
36	Proactive Uplink Interference Management for Nonuniform Heterogeneous Cellular Networks. *IEEE Access*, **2020**, 8, 55501-55512	3.5	6
35	Gain-Enhanced Metamaterial Based Antenna for 5G Communication Standards. *Computers, Materials and Continua*, **2020**, 64, 1587-1599	3.9	13
34	V-Shaped Monopole Antenna with Chichena Itzia Inspired Defected Ground Structure for UWB Applications. *Computers, Materials and Continua*, **2020**, 65, 19-32	3.9	5
33	Design and Experimental Analysis of Multiband Frequency Reconfigurable Antenna for 5G and Sub-6 GHz Wireless Communication. *Micromachines*, **2020**, 12,	3.3	6
32	Evaluation of Quality and Readability of Online Health Information on High Blood Pressure Using DISCERN and Flesch-Kincaid Tools. *Applied Sciences (Switzerland)*, **2020**, 10, 3214	2.6	3
31	Likelihood ascent search augmented sphere decoding receiver for MIMO systems using M-QAM constellations. *IET Communications*, **2020**, 14, 4152-4158	1.3	1
30	Coverage analysis of cell-edge users in heterogeneous wireless networks using Stienen's model and RFA scheme. *International Journal of Communication Systems*, **2020**, 33, e4147	1.7	9
29	Outage Probability Analysis of User-Centric SBS-Based HCNets Under Hybrid Rician/Rayleigh Fading. *IEEE Communications Letters*, **2020**, 24, 297-301	3.8	4
28	Analysis of decoupled association in HetNets using soft frequency reuse scheme. *AEU - International Journal of Electronics and Communications*, **2020**, 113, 152961	2.8	7

No.	Title	IF	Cit.
27	Analysis of coverage-oriented small base station deployment in heterogeneous cellular networks. *Physical Communication*, **2020**, 38, 100908	2.2	11
26	DSP-Assisted Nonlinear Impairments Tolerant 100 Gbps Optical Backhaul Network for Long-Haul Transmission. *Entropy*, **2020**, 22,	2.8	3
25	Optical-Interference Mitigation in Visible Light Communication for Intelligent Transport Systems Applications. *Energies*, **2020**, 13, 5064	3.1	3
24	A Deep Learning Approach for Mobility-Aware and Energy-Efficient Resource Allocation in MEC. *IEEE Access*, **2020**, 8, 179530-179546	3.5	11
23	Performance analysis of user-centric SBS deployment with load balancing in heterogeneous cellular networks: A Thomas cluster process approach. *Computer Networks*, **2020**, 170, 107120	5.4	6
22	LWE-CPPA: a scheme for secure delivery of warning messages in VANETs. *International Journal of Ad Hoc and Ubiquitous Computing*, **2020**, 34, 170	0.7	3
21	Mechanical Pressure Characterization of CNT-Graphene Composite Material. *Micromachines*, **2020**, 11,	3.3	6
20	Eight Element Side Edged Framed MIMO Antenna Array for Future 5G Smart Phones. *Micromachines*, **2020**, 11,	3.3	24
19	5G Cellular Networks: Coverage Analysis in the Presence of Inter-Cell Interference and Intentional Jammers. *Electronics (Switzerland)*, **2020**, 9, 1538	2.6	2
18	Uplink Performance Analysis of User- Centric Small Cell Aided Dense HCNets With Uplink-Downlink Decoupling. *IEEE Access*, **2020**, 8, 148460-148474	3.5	3
17	Fuzzy-Based Fault-Tolerant Control for Omnidirectional Mobile Robot. *Machines*, **2020**, 8, 55	2.9	18
16	Multilevel LVDC Distribution System With Voltage Unbalancing and Disturbance Rejection Control Topology. *IEEE Access*, **2020**, 8, 133787-133801	3.5	2
15	Nature Inspired MIMO Antenna System for Future mmWave Technologies. *Micromachines*, **2020**, 11,	3.3	12
14	Coverage analysis of ultra-dense heterogeneous cellular networks with interference management. *Wireless Networks*, **2020**, 26, 2013-2025	2.5	12
13	SIR analysis for non-uniform HetNets with joint decoupled association and interference management. *Computer Communications*, **2020**, 155, 48-57	5.1	10
12	PDMAC: A Priority-Based Enhanced TDMA Protocol for Warning Message Dissemination in VANETs. *Sensors*, **2019**, 20,	3.8	16
11	Uplink Interference Management for Hetnets Stressed by Clustered Wide-Band Jammers. *IEEE Access*, **2019**, 7, 182679-182690	3.5	7
10	Proactive Uplink Interference Mitigation in HetNets Stressed by Uniformly Distributed Wideband Jammers. *Electronics (Switzerland)*, **2019**, 8, 1496	2.6	3

LIST OF PUBLICATIONS

9	Adaptive Equalization for Dispersion Mitigation in Multi-Channel Optical Communication Networks. *Electronics (Switzerland)*, **2019**, 8, 1364	2.6	14
8	Analysis of Interference Mitigation in Heterogeneous Cellular Networks using Soft Frequency Reuse and Load Balancing **2018**,		7
7	A Novel Dynamic Link Connectivity Strategy Using Hello Messaging for Maintaining Link Stability in MANETs. *Wireless Communications and Mobile Computing*, **2018**, 2018, 1-23	1.9	6
6	Location-based coverage and capacity analysis of a two tier HetNet. *IET Communications*, **2017**, 11, 1067-1073	1.9	12
5	Analysis of Load Balancing and Interference Management in Heterogeneous Cellular Networks. *IEEE Access*, **2017**, 5, 14690-14705	3.5	30
4	. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 5241-5255	6.8	42
3	Decoupled Downlink-Uplink Coverage Analysis with Interference Management for Enriched Heterogeneous Cellular Networks. *IEEE Access*, **2016**, 4, 6250-6260	3.5	22
2	Analysis of interference avoidance with load balancing in heterogeneous cellular networks **2016**,		7
1	Alleviation of nonlinear channel effects in long-haul and high-capacity optical transmission networks. *International Journal of Communication Systems*, e5050	1.7	0