

Muhammad Zeeshan Shakir

List of Publications by Year in Descending Order

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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.

90
papers

1,773
citations

17
h-index

40
g-index

120
ext. papers

2,189
ext. citations

5.2
avg, IF

5.18
L-index

#	Paper	IF	Citations
90	Review on condition monitoring techniques for water pipelines. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 193, 110895	4.6	2
89	Performance and User Association Optimization for UAV Relay-Assisted mm-Wave Massive MIMO Systems. <i>IEEE Access</i> , 2022 , 10, 49611-49624	3.5	0
88	UAV-Enabled IoT Networks: Architecture, Opportunities, and Challenges 2021 , 263-288		
87	WIP: Model of Self-Regulated Smart Learning Environment 2021 ,		1
86	Internet of Things (IoT) Enabled Architecture for Social Distancing During Pandemic. <i>Frontiers in Communications and Networks</i> , 2021 , 2,	3.3	5
85	Resource Efficient Vehicle-to-Grid (V2G) Communication Systems for Electric Vehicle Enabled Microgrids. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 4171-4180	6.1	0
84	Internet of Things (IoT) Based Indoor Air Quality Sensing and Predictive AnalyticA COVID-19 Perspective. <i>Electronics (Switzerland)</i> , 2021 , 10, 184	2.6	15
83	An Artificial Neural Network (ANN)-Based Learning Agent for Classifying Learning Styles in Self-Regulated Smart Learning Environment. <i>International Journal of Emerging Technologies in Learning</i> , 2021 , 16, 185	1.4	3
82	Artificial Neural Network (ANN) Enabled Internet of Things (IoT) Architecture for Music Therapy. <i>Electronics (Switzerland)</i> , 2020 , 9, 2019	2.6	4
81	Spatial modeling of Dengue prevalence and kriging prediction of Dengue outbreak in Khyber Pakhtunkhwa (Pakistan) using presence only data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 1023-1036	3.5	4
80	Blockchain-Based Energy Trading in Electric-Vehicle-Enabled Microgrids. <i>IEEE Consumer Electronics Magazine</i> , 2020 , 9, 66-71	3.2	16
79	Combined economic emission based resource allocation for electric vehicle enabled microgrids. <i>IET Smart Grid</i> , 2020 , 3, 768-776	2.7	0
78	Optimal 3D UAV base station placement by considering autonomous coverage hole detection, wireless backhaul and user demand. <i>Journal of Communications and Networks</i> , 2020 , 22, 467-475	4.1	8
77	Optimized Link Distribution Schemes for Ultrareliable and Low-Latent Communications in Multilayer Airborne Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 5866-5873	11.9	
76	Machine Learning Based Approach for Indoor Localization Using Ultra-Wide Bandwidth (UWB) System for Industrial Internet of Things (IIoT) 2020 ,		8
75	Achievable rate of hybrid precoding for hardware impaired MIMO underground mine channel. <i>Electronics Letters</i> , 2019 , 55, 425-426	1.1	0
74	New Development and Evaluation Model for Self-Regulated Smart Learning Environment in Higher Education 2019 ,		5

73	Human Bond Communications: Architectures, Challenges, and Possibilities. <i>IEEE Communications Magazine</i> , 2019 , 57, 19-25	9.1	8
72	Mode selection schemes for D2D enabled unmanned aerial vehicle-based wireless networks. <i>IET Communications</i> , 2019 , 13, 1397-1404	1.3	1
71	Dynamic symbol allocation for spectral and energy efficient millimetre wave multi-antenna systems. <i>Electronics Letters</i> , 2019 , 55, 157-159	1.1	0
70	Efficient k-NN Implementation for Real-Time Detection of Cough Events in Smartphones. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 1662-1671	7.2	18
69	FSO-Based Vertical Backhaul/Fronthaul Framework for 5G+ Wireless Networks 2018 , 56, 218-224		245
68	IEEE 1900.7 Standard for White Space Dynamic Spectrum Access Radio Systems 2018 , 56, 188-192		3
67	Intracell Interference Characterization and Cluster Interference for D2D Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 8536-8548	6.8	3
66	Nonorthogonal Multiple Access for 5G and Beyond. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-2	1.9	9
65	EVaaS: A Novel On-Demand Outage Mitigation Framework for Electric Vehicle Enabled Microgrids 2018 ,		4
64	IEEE Access Special Section Editorial: Mission Critical Public-Safety Communications: Architectures, Enabling Technologies, and Future Applications. <i>IEEE Access</i> , 2018 , 6, 79258-79262	3.5	3
63	3-D Placement Schemes of Multiple UAVs in NFP-based Wireless Networks 2018 ,		2
62	Resilience of airborne networks 2018 ,		4
61	Geometric mean decomposition based hybrid precoding for millimeter-wave massive MIMO. <i>China Communications</i> , 2018 , 15, 229-238	3	25
60	. <i>IEEE Transactions on Cloud Computing</i> , 2017 , 5, 208-220	3.3	20
59	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 9328-9337	6.8	7
58	Fronthaul design for mmWave massive MIMO 2017 , 289-312		2
57	Backhaul-aware robust 3D drone placement in 5G+ wireless networks 2017 ,		150
56	A Novel Airborne Self-Organising Architecture for 5G+ Networks 2017 ,		17

55	From D2D to Ds2D: Prolonging the Battery Life of Mobile Devices via Ds2D Communications. <i>IEEE Wireless Communications</i> , 2017 , 24, 55-63	13.4	11
54	IEEE Access Special Section Editorial: Physical and Medium Access Control Layer Advances in 5G Wireless Networks. <i>IEEE Access</i> , 2017 , 5, 27845-27849	3.5	1
53	Association of networked flying platforms with small cells for network centric 5G+ C-RAN 2017 ,		16
52	A Distributed Approach for Networked Flying Platform Association with Small Cells in 5G+ Networks 2017 ,		24
51	Fronthaul data compression for Uplink CoMP in cloud radio access network (C-RAN). <i>Transactions on Emerging Telecommunications Technologies</i> , 2016 , 27, 1409-1425	1.9	2
50	Spectral and energy efficient cognitive radio-aided heterogeneous cellular network with uplink power adaptation. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 2144-2162	1.9	2
49	High-Current-Density Vertical-Tunneling Transistors from Graphene/Highly Doped Silicon Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 4120-5	24	35
48	On the Traffic Offloading in Wi-Fi Supported Heterogeneous Wireless Networks. <i>Journal of Signal Processing Systems</i> , 2016 , 83, 225-240	1.4	3
47	. <i>IEEE Communications Surveys and Tutorials</i> , 2016 , 18, 419-445	37.1	82
46	Efficient selection of source devices and radio interfaces for green Ds2D communications 2016 ,		3
45	2016 ,		9
44	The Cognitive Internet of Things: A Unified Perspective. <i>Mobile Networks and Applications</i> , 2015 , 20, 72-859		25
43	Distance Based Cooperation Region for D2D Pair 2015 ,		9
42	Smart backhauling and fronthauling for 5G networks: from precoding to network architecture [Guest editorial]. <i>IEEE Wireless Communications</i> , 2015 , 22, 10-12	13.4	4
41	MmWave massive-MIMO-based wireless backhaul for the 5G ultra-dense network. <i>IEEE Wireless Communications</i> , 2015 , 22, 13-21	13.4	256
40	A Survey of Machine Learning Algorithms and Their Applications in Cognitive Radio. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 , 790-801	0.2	5
39	Coverage Gain and Device-to-Device User Density: Stochastic Geometry Modeling and Analysis. <i>IEEE Communications Letters</i> , 2015 , 19, 1742-1745	3.8	26
38	2015 , 53, 66-68		2

37	A MIH and SDN-based Framework for network selection in 5G HetNet: Backhaul requirement perspectives 2015 ,		13
36	Towards Energy Efficient and Quality of Service Aware Cell Zooming in 5G Wireless Networks 2015 ,		6
35	Solution Processable Holey Graphene Oxide and Its Derived Macrostructures for High-Performance Supercapacitors. <i>Nano Letters</i> , 2015 , 15, 4605-10	11.5	349
34	IEEE 1900.7 standard for white space dynamic spectrum access radio systems 2015 ,		1
33	Cognitive Internet of Things: A Unified Perspective (Invited Paper). <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 , 201-210	0.2	2
32	On the bits per joule optimization in cellular cognitive radio networks 2014 ,		1
31	2014 ,		1
30	On the Probabilistic Model for Primary and Secondary User Activity for OFDMA-Based Cognitive Radio Systems: Spectrum Occupancy and System Throughput Perspectives. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 356-369	9.6	3
29	Analytical Bounds on the Area Spectral Efficiency of Uplink Heterogeneous Networks Over Generalized Fading Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 2306-2318	6.8	12
28	Expanding cellular coverage via cell-edge deployment in heterogeneous networks: spectral efficiency and backhaul power consumption perspectives 2014 , 52, 140-149		18
27	End-to-end downlink power consumption of heterogeneous small-cell networks based on the probabilistic traffic model 2014 ,		6
26	A survey on energy trading in smart grid 2014 ,		42
25	Spectral efficiency improvements in HetNets by exploiting device-to-device communications 2014 ,		7
24	Spectral and energy efficiency analysis of uplink heterogeneous networks with small-cells on edge. <i>Physical Communication</i> , 2014 , 13, 27-41	2.2	8
23	Public-Key Authentication for Cloud-based WBANs 2014 ,		3
22	Device-to-Device Communication in Heterogeneous Networks 2014 , 219-235		1
21	Green heterogeneous small-cell networks: toward reducing the CO2 emissions of mobile communications industry using uplink power adaptation 2013 , 51, 52-61		48
20	K-tier heterogeneous small-cell networks: Towards balancing the spectrum usage and power consumption with aggressive frequency reuse 2013 ,		1

19	A scalable global positioning system-free localization scheme for underwater wireless sensor networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013 , 2013,	3.2	1
18	On the reduction in specific absorption rate using uplink power adaptation in heterogeneous small-cell networks 2013 ,		2
17	On the Decision Threshold of Eigenvalue Ratio Detector Based on Moments of Joint and Marginal Distributions of Extreme Eigenvalues. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 974-983	9.6	13
16	. <i>IEEE Transactions on Communications</i> , 2013 , 61, 1242-1253	6.9	24
15	Cognitive impairments in human brain due to wireless signals and systems: An experimental study using EEG signal analysis 2013 ,		3
14	Downlink power consumption of HetNets based on the probabilistic traffic model of mobile users 2013 ,		6
13	Throughput analysis for cognitive radio networks with multiple primary users and imperfect spectrum sensing. <i>IET Communications</i> , 2012 , 6, 2787-2795	1.3	26
12	2012 ,		4
11	Area green efficiency (AGE) of two tier heterogeneous cellular networks 2012 ,		15
10	On the area spectral efficiency improvement of heterogeneous network by exploiting the integration of macro-femto cellular networks 2012 ,		16
9	Generalized Eigenvalue Based Spectrum Sensing. <i>Lecture Notes in Electrical Engineering</i> , 2012 , 139-176	0.2	1
8	Eigenvalue Ratio Detection Based On Exact Moments of Smallest and Largest Eigenvalues 2011 ,		3
7	Hadamard upper bound on optimum joint decoding capacity of Wyner Gaussian cellular MAC. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2011 , 2011,	3.2	1
6	A GPS-free Passive Acoustic Localization Scheme for Underwater Wireless Sensor Networks 2011 ,		3
5	Collaborative spectrum sensing based on the ratio between largest eigenvalue and Geometric mean of eigenvalues 2011 ,		7
4	S3TFPAS: Scalable shoulder surfing resistant textual-formula base password authentication system 2010 ,		4
3	Narrowband Beamforming Algorithm for Smart Antennas 2007 ,		4
2	Interference Suppression Capabilities of Smart Cognitive-Femto Networks (SCFN)111-135		

- 1 Energy efficient heterogeneous networks 462-483