

# Muhammad Zeeshan Shakir

## 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.

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	Solution Processable Holey Graphene Oxide and Its Derived Macrostructures for High-Performance Supercapacitors. <i>Nano Letters</i> , <b>2015</b> , 15, 4605-10	11.5	349
89	MmWave massive-MIMO-based wireless backhaul for the 5G ultra-dense network. <i>IEEE Wireless Communications</i> , <b>2015</b> , 22, 13-21	13.4	256
88	FSO-Based Vertical Backhaul/Fronthaul Framework for 5G+ Wireless Networks <b>2018</b> , 56, 218-224		245
87	Backhaul-aware robust 3D drone placement in 5G+ wireless networks <b>2017</b> ,		150
86	. <i>IEEE Communications Surveys and Tutorials</i> , <b>2016</b> , 18, 419-445	37.1	82
85	Green heterogeneous small-cell networks: toward reducing the CO2 emissions of mobile communications industry using uplink power adaptation <b>2013</b> , 51, 52-61		48
84	A survey on energy trading in smart grid <b>2014</b> ,		42
83	High-Current-Density Vertical-Tunneling Transistors from Graphene/Highly Doped Silicon Heterostructures. <i>Advanced Materials</i> , <b>2016</b> , 28, 4120-5	24	35
82	Coverage Gain and Device-to-Device User Density: Stochastic Geometry Modeling and Analysis. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 1742-1745	3.8	26
81	Throughput analysis for cognitive radio networks with multiple primary users and imperfect spectrum sensing. <i>IET Communications</i> , <b>2012</b> , 6, 2787-2795	1.3	26
80	The Cognitive Internet of Things: A Unified Perspective. <i>Mobile Networks and Applications</i> , <b>2015</b> , 20, 72-859		25
79	Geometric mean decomposition based hybrid precoding for millimeter-wave massive MIMO. <i>China Communications</i> , <b>2018</b> , 15, 229-238	3	25
78	A Distributed Approach for Networked Flying Platform Association with Small Cells in 5G+ Networks <b>2017</b> ,		24
77	. <i>IEEE Transactions on Communications</i> , <b>2013</b> , 61, 1242-1253	6.9	24
76	. <i>IEEE Transactions on Cloud Computing</i> , <b>2017</b> , 5, 208-220	3.3	20
75	Efficient k-NN Implementation for Real-Time Detection of Cough Events in Smartphones. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2018</b> , 22, 1662-1671	7.2	18
74	Expanding cellular coverage via cell-edge deployment in heterogeneous networks: spectral efficiency and backhaul power consumption perspectives <b>2014</b> , 52, 140-149		18

73	A Novel Airborne Self-Organising Architecture for 5G+ Networks <b>2017</b> ,		17
72	Blockchain-Based Energy Trading in Electric-Vehicle-Enabled Microgrids. <i>IEEE Consumer Electronics Magazine</i> , <b>2020</b> , 9, 66-71	3.2	16
71	Association of networked flying platforms with small cells for network centric 5G+ C-RAN <b>2017</b> ,		16
70	On the area spectral efficiency improvement of heterogeneous network by exploiting the integration of macro-femto cellular networks <b>2012</b> ,		16
69	Area green efficiency (AGE) of two tier heterogeneous cellular networks <b>2012</b> ,		15
68	Internet of Things (IoT) Based Indoor Air Quality Sensing and Predictive Analytics COVID-19 Perspective. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 184	2.6	15
67	A MIH and SDN-based Framework for network selection in 5G HetNet: Backhaul requirement perspectives <b>2015</b> ,		13
66	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> , <b>2013</b> , 12, 974-983	9.6	13
65	Analytical Bounds on the Area Spectral Efficiency of Uplink Heterogeneous Networks Over Generalized Fading Channels. <i>IEEE Transactions on Vehicular Technology</i> , <b>2014</b> , 63, 2306-2318	6.8	12
64	From D2D to Ds2D: Prolonging the Battery Life of Mobile Devices via Ds2D Communications. <i>IEEE Wireless Communications</i> , <b>2017</b> , 24, 55-63	13.4	11
63	Distance Based Cooperation Region for D2D Pair <b>2015</b> ,		9
62	Nonorthogonal Multiple Access for 5G and Beyond. <i>Wireless Communications and Mobile Computing</i> , <b>2018</b> , 2018, 1-2	1.9	9
61	<b>2016</b> ,		9
60	Spectral and energy efficiency analysis of uplink heterogeneous networks with small-cells on edge. <i>Physical Communication</i> , <b>2014</b> , 13, 27-41	2.2	8
59	Optimal 3D UAV base station placement by considering autonomous coverage hole detection, wireless backhaul and user demand. <i>Journal of Communications and Networks</i> , <b>2020</b> , 22, 467-475	4.1	8
58	Machine Learning Based Approach for Indoor Localization Using Ultra-Wide Bandwidth (UWB) System for Industrial Internet of Things (IIoT) <b>2020</b> ,		8
57	Human Bond Communications: Architectures, Challenges, and Possibilities. <i>IEEE Communications Magazine</i> , <b>2019</b> , 57, 19-25	9.1	8
56	. <i>IEEE Transactions on Vehicular Technology</i> , <b>2017</b> , 66, 9328-9337	6.8	7

55	Spectral efficiency improvements in HetNets by exploiting device-to-device communications <b>2014,</b>		7
54	Collaborative spectrum sensing based on the ratio between largest eigenvalue and Geometric mean of eigenvalues <b>2011,</b>		7
53	End-to-end downlink power consumption of heterogeneous small-cell networks based on the probabilistic traffic model <b>2014,</b>		6
52	Towards Energy Efficient and Quality of Service Aware Cell Zooming in 5G Wireless Networks <b>2015,</b>		6
51	Downlink power consumption of HetNets based on the probabilistic traffic model of mobile users <b>2013,</b>		6
50	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, 2015,</i> 790-801		5
49	New Development and Evaluation Model for Self-Regulated Smart Learning Environment in Higher Education <b>2019,</b>		5
48	Internet of Things (IoT) Enabled Architecture for Social Distancing During Pandemic. <i>Frontiers in Communications and Networks, 2021,</i> 2,	3-3	5
47	Smart backhauling and fronthauling for 5G networks: from precoding to network architecture [Guest editorial]. <i>IEEE Wireless Communications, 2015,</i> 22, 10-12	13-4	4
46	Artificial Neural Network (ANN) Enabled Internet of Things (IoT) Architecture for Music Therapy. <i>Electronics (Switzerland), 2020,</i> 9, 2019	2-6	4
45	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, 2020,</i> 34, 1023-1036	3-5	4
44	<b>2012,</b>		4
43	S3TFPAS: Scalable shoulder surfing resistant textual-formula base password authentication system <b>2010,</b>		4
42	Narrowband Beamforming Algorithm for Smart Antennas <b>2007,</b>		4
41	EVaaS: A Novel On-Demand Outage Mitigation Framework for Electric Vehicle Enabled Microgrids <b>2018,</b>		4
40	Resilience of airborne networks <b>2018,</b>		4
39	IEEE 1900.7 Standard for White Space Dynamic Spectrum Access Radio Systems <b>2018,</b> 56, 188-192		3
38	On the Traffic Offloading in Wi-Fi Supported Heterogeneous Wireless Networks. <i>Journal of Signal Processing Systems, 2016,</i> 83, 225-240	1-4	3

37	Intracell Interference Characterization and Cluster Interference for D2D Communication. <i>IEEE Transactions on Vehicular Technology</i> , <b>2018</b> , 67, 8536-8548	6.8	3
36	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> , <b>2014</b> , 13, 356-369	9.6	3
35	Cognitive impairments in human brain due to wireless signals and systems: An experimental study using EEG signal analysis <b>2013</b> ,		3
34	Eigenvalue Ratio Detection Based On Exact Moments of Smallest and Largest Eigenvalues <b>2011</b> ,		3
33	A GPS-free Passive Acoustic Localization Scheme for Underwater Wireless Sensor Networks <b>2011</b> ,		3
32	Public-Key Authentication for Cloud-based WBANs <b>2014</b> ,		3
31	Efficient selection of source devices and radio interfaces for green Ds2D communications <b>2016</b> ,		3
30	IEEE Access Special Section Editorial: Mission Critical Public-Safety Communications: Architectures, Enabling Technologies, and Future Applications. <i>IEEE Access</i> , <b>2018</b> , 6, 79258-79262	3.5	3
29	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> , <b>2021</b> , 16, 185	1.4	3
28	<b>2015</b> , 53, 66-68		2
27	Fronthaul design for mmWave massive MIMO <b>2017</b> , 289-312		2
26	Fronthaul data compression for Uplink CoMP in cloud radio access network (C-RAN). <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2016</b> , 27, 1409-1425	1.9	2
25	Spectral and energy efficient cognitive radio-aided heterogeneous cellular network with uplink power adaptation. <i>Wireless Communications and Mobile Computing</i> , <b>2016</b> , 16, 2144-2162	1.9	2
24	On the reduction in specific absorption rate using uplink power adaptation in heterogeneous small-cell networks <b>2013</b> ,		2
23	Cognitive Internet of Things: A Unified Perspective (Invited Paper). <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2015</b> , 201-210	0.2	2
22	3-D Placement Schemes of Multiple UAVs in NFP-based Wireless Networks <b>2018</b> ,		2
21	Review on condition monitoring techniques for water pipelines. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2022</b> , 193, 110895	4.6	2
20	On the bits per joule optimization in cellular cognitive radio networks <b>2014</b> ,		1

19	2014,			1
18	K-tier heterogeneous small-cell networks: Towards balancing the spectrum usage and power consumption with aggressive frequency reuse 2013,			1
17	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
16	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
15	IEEE 1900.7 standard for white space dynamic spectrum access radio systems 2015,			1
14	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
13	Generalized Eigenvalue Based Spectrum Sensing. <i>Lecture Notes in Electrical Engineering</i> , 2012, 139-176	0.2		1
12	Device-to-Device Communication in Heterogeneous Networks 2014, 219-235			1
11	WIP: Model of Self-Regulated Smart Learning Environment 2021,			1
10	Mode selection schemes for D2D enabled unmanned aerial vehicle-based wireless networks. <i>IET Communications</i> , 2019, 13, 1397-1404	1.3		1
9	Achievable rate of hybrid precoding for hardware impaired MIMO underground mine channel. <i>Electronics Letters</i> , 2019, 55, 425-426	1.1		0
8	Combined economic emission based resource allocation for electric vehicle enabled microgrids. <i>IET Smart Grid</i> , 2020, 3, 768-776	2.7		0
7	Dynamic symbol allocation for spectral and energy efficient millimetre wave multi-antenna systems. <i>Electronics Letters</i> , 2019, 55, 157-159	1.1		0
6	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
5	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
4	Interference Suppression Capabilities of Smart Cognitive-Femto Networks (SCFN) 111-135			
3	UAV-Enabled IoT Networks: Architecture, Opportunities, and Challenges 2021, 263-288			
2	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		

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