

# Osama Amin

## List of Publications by Year in descending order

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58  
papers

2,243  
citations

393982

19  
h-index

344852

36  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2168  
citing authors

#	ARTICLE	IF	CITATIONS
1	What should 6G be?. Nature Electronics, 2020, 3, 20-29.	13.1	845
2	Terahertz Band: The Last Piece of RF Spectrum Puzzle for Communication Systems. IEEE Open Journal of the Communications Society, 2020, 1, 1-32.	4.4	279
3	Terahertz communication: The opportunities of wireless technology beyond 5G. , 2018, , .		141
4	Energy Efficiencyâ€“Spectral Efficiency Tradeoff: A Multiobjective Optimization Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 1975-1981.	3.9	83
5	Visible Light Communications via Intelligent Reflecting Surfaces: Metasurfaces vs Mirror Arrays. IEEE Open Journal of the Communications Society, 2021, 2, 1-20.	4.4	82
6	Downlink Resource Allocation for Dynamic TDMA-Based VLC Systems. IEEE Transactions on Wireless Communications, 2019, 18, 108-120.	6.1	48
7	Performance Analysis of Single-Photon Avalanche Diode Underwater VLC System Using ARQ. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	43
8	In-Band $\alpha$ -Duplex Scheme for Cellular Networks: A Stochastic Geometry Approach. IEEE Transactions on Wireless Communications, 2016, 15, 6797-6812.	6.1	41
9	Underlay Cognitive Radio Systems With Improper Gaussian Signaling: Outage Performance Analysis. IEEE Transactions on Wireless Communications, 2016, 15, 4875-4887.	6.1	39
10	Underlay Spectrum Sharing Techniques With In-Band Full-Duplex Systems Using Improper Gaussian Signaling. IEEE Transactions on Wireless Communications, 2017, 16, 235-249.	6.1	39
11	Communication through Breath: Aerosol Transmission. IEEE Communications Magazine, 2019, 57, 33-39.	4.9	39
12	Coverage maximization for a poisson field of drone cells. , 2017, , .		37
13	Latency-Aware Offloading in Integrated Satellite Terrestrial Networks. IEEE Open Journal of the Communications Society, 2020, 1, 490-500.	4.4	33
14	Modeling of Viral Aerosol Transmission and Detection. IEEE Transactions on Communications, 2020, 68, 4859-4873.	4.9	33
15	Spectral Efficiency and Energy Harvesting in Multi-Cell SLIPT Systems. IEEE Transactions on Wireless Communications, 2020, 19, 3304-3318.	6.1	27
16	Fairness-Aware Energy-Efficient Resource Allocation for AF Co-Operative OFDMA Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2478-2493.	9.7	24
17	Performance Analysis of Multiple-Relay Cooperative Systems With Signal Space Diversity. IEEE Transactions on Vehicular Technology, 2015, 64, 3414-3425.	3.9	23
18	On Alternate Relaying With Improper Gaussian Signaling. IEEE Communications Letters, 2016, 20, 1683-1686.	2.5	23

#	ARTICLE	IF	CITATIONS
19	Multiple Antenna Systems With Hardware Impairments: New Performance Limits. IEEE Transactions on Vehicular Technology, 2019, 68, 1593-1606.	3.9	23
20	Full-Duplex Relaying With Improper Gaussian Signaling Over Nakagami- $m$ Fading Channels. IEEE Transactions on Communications, 2018, 66, 64-78.	4.9	20
21	A Journey From Improper Gaussian Signaling to Asymmetric Signaling. IEEE Communications Surveys and Tutorials, 2020, 22, 1539-1591.	24.8	19
22	Channel Characterization of IRS-Based Visible Light Communication Systems. IEEE Transactions on Communications, 2022, 70, 1913-1926.	4.9	19
23	Spectral-Efficiency-Illumination Pareto Front for Energy Harvesting Enabled VLC Systems. IEEE Transactions on Communications, 2019, 67, 8557-8572.	4.9	18
24	Improper Gaussian Signaling for Hardware Impaired Multihop Full-Duplex Relaying Systems. IEEE Transactions on Communications, 2019, 67, 1858-1871.	4.9	18
25	Downlink resource allocation for multichannel TDMA visible light communications. , 2016, , .		17
26	Asymmetric Hardware Distortions in Receive Diversity Systems: Outage Performance Analysis. IEEE Access, 2017, 5, 4492-4504.	2.6	15
27	Asymmetric Modulation for Hardware Impaired Systems-Error Probability Analysis and Receiver Design. IEEE Transactions on Wireless Communications, 2019, 18, 1723-1738.	6.1	15
28	Improper Gaussian signaling in full-duplex relay channels with residual self-interference. , 2016, , .		14
29	On Outage Performance of Terahertz Wireless Communication Systems. IEEE Transactions on Communications, 2022, 70, 649-663.	4.9	14
30	Impact of improper Gaussian signaling on hardware impaired systems. , 2017, , .		13
31	Full-duplex relaying under I/Q imbalance using improper Gaussian signaling. , 2017, , .		12
32	Resource Allocation for Outdoor Visible Light Communications with Energy Harvesting Capabilities. , 2017, , .		11
33	Spectrum sharing opportunities of full-duplex systems using improper Gaussian signaling. , 2015, , .		10
34	Outage performance of cognitive radio systems with Improper Gaussian signaling. , 2015, , .		10
35	Overlay Spectrum Sharing using Improper Gaussian Signaling. IEEE Journal on Selected Areas in Communications, 2016, , 1-1.	9.7	10
36	Opportunistic Energy-Aware Amplify-and-Forward Cooperative Systems With Imperfect CSI. IEEE Transactions on Vehicular Technology, 2016, 65, 4875-4886.	3.9	10

#	ARTICLE	IF	CITATIONS
37	On the Achievable Rate of Hardware-Impaired Transceiver Systems. , 2017, , .		10
38	System Modeling of Virus Transmission and Detection in Molecular Communication Channels. , 2018, , .		9
39	Revolutionizing Optical Wireless Communications via Smart Optics. IEEE Open Journal of the Communications Society, 2022, 3, 654-669.	4.4	9
40	Energy-Efficient Resource Allocation for Phantom Cellular Networks With Imperfect CSI. IEEE Transactions on Wireless Communications, 2017, 16, 3799-3813.	6.1	7
41	Benefits of Improper Gaussian Signaling in Interweave Cognitive Radio With Full and Partial CSI. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 1256-1268.	4.9	7
42	Hyperloop Communications: Challenges, Advances, and Approaches. IEEE Open Journal of the Communications Society, 2021, 2, 2413-2435.	4.4	7
43	Interweave Cognitive Radio with Improper Gaussian Signaling. , 2017, , .		6
44	Energy Efficiency, Spectral Efficiency and Delay Analysis for Selective ARQ Multichannel Systems. IEEE Transactions on Green Communications and Networking, 2018, 2, 612-622.	3.5	6
45	Resource allocation for phantom cellular networks: Energy efficiency vs spectral efficiency. , 2016, , .		5
46	Mode Selection and Power Allocation in Multi-Level Cache-Enabled Networks. IEEE Communications Letters, 2020, 24, 1789-1793.	2.5	5
47	Viral Aerosol Concentration Characterization and Detection in Bounded Environments. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 185-199.	1.4	5
48	When Probabilistic Shaping Realizes Improper Signaling for Hardware Distortion Mitigation. IEEE Transactions on Communications, 2021, 69, 5028-5042.	4.9	4
49	Energy-Aware Underwater Optical System With Combined Solar Cell and SPAD Receiver. IEEE Communications Letters, 2022, 26, 59-63.	2.5	4
50	On the Optimal Detection and Error Performance Analysis of the Hardware Impaired Systems. , 2017, , .		3
51	Energy-efficient power allocation of two-hop cooperative systems with imperfect channel estimation. , 2015, , .		2
52	Energy and spectral efficiency analysis for selective ARQ multi-channel systems. , 2017, , .		2
53	On the Optimization of Multi-Cell SLIPT Systems. , 2018, , .		2
54	Energy efficiency for cloud-radio access networks with imperfect channel state information. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
55	Impact of Improper Gaussian Signaling on the Achievable Rate of Overlay Cognitive Radio. , 2017, , .		1
56	Improper signaling in two-path relay channels. , 2017, , .		1
57	Generalized Cooperative Spectrum Sharing Scheme for Internet of Things Systems. , 2018, , .		0
58	Energy-Aware Cognitive Radio Systems. Studies in Systems, Decision and Control, 2016, , 247-272.	0.8	0