

Osama Amin

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.

54
papers

1,227
citations

16
h-index

34
g-index

58
ext. papers

1,638
ext. citations

7.5
avg, IF

5.54
L-index

#	Paper	IF	Citations
54	Energy-Aware Underwater Optical System With Combined Solar Cell and SPAD Receiver. <i>IEEE Communications Letters</i> , 2022 , 26, 59-63	3.8	1
53	Channel Characterization of IRS-based Visible Light Communication Systems. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	2
52	Revolutionizing Optical Wireless Communications via Smart Optics. <i>IEEE Open Journal of the Communications Society</i> , 2022 , 1-1	6.7	3
51	On Outage Performance of Terahertz Wireless Communication Systems. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	2
50	Hyperloop Communications: Challenges, Advances, and Approaches. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 2413-2435	6.7	2
49	Visible Light Communications via Intelligent Reflecting Surfaces: Metasurfaces vs Mirror Arrays. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 1-20	6.7	29
48	. <i>IEEE Transactions on Communications</i> , 2021 , 69, 5028-5042	6.9	1
47	Viral Aerosol Concentration Characterization and Detection in Bounded Environments. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , 2021 , 7, 185-199	2.3	1
46	A Journey From Improper Gaussian Signaling to Asymmetric Signaling. <i>IEEE Communications Surveys and Tutorials</i> , 2020 , 22, 1539-1591	37.1	12
45	Latency-Aware Offloading in Integrated Satellite Terrestrial Networks. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 490-500	6.7	16
44	Mode Selection and Power Allocation in Multi-Level Cache-Enabled Networks. <i>IEEE Communications Letters</i> , 2020 , 24, 1789-1793	3.8	4
43	Modeling of Viral Aerosol Transmission and Detection. <i>IEEE Transactions on Communications</i> , 2020 , 68, 4859-4873	6.9	19
42	Benefits of Improper Gaussian Signaling in Interweave Cognitive Radio With Full and Partial CSI. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2020 , 6, 1256-1268	6.6	3
41	Spectral Efficiency and Energy Harvesting in Multi-Cell SLIPT Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 3304-3318	9.6	16
40	What should 6G be?. <i>Nature Electronics</i> , 2020 , 3, 20-29	28.4	401
39	Terahertz Band: The Last Piece of RF Spectrum Puzzle for Communication Systems. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 1-32	6.7	121
38	Communication through Breath: Aerosol Transmission. <i>IEEE Communications Magazine</i> , 2019 , 57, 33-39	9.1	25

37	Asymmetric Modulation for Hardware Impaired Systems Error Probability Analysis and Receiver Design. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 1723-1738	9.6	10
36	Spectral-Efficiency Illumination Pareto Front for Energy Harvesting Enabled VLC Systems. <i>IEEE Transactions on Communications</i> , 2019 , 67, 8557-8572	6.9	11
35	Multiple Antenna Systems With Hardware Impairments: New Performance Limits. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 1593-1606	6.8	16
34	Downlink Resource Allocation for Dynamic TDMA-Based VLC Systems. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 108-120	9.6	25
33	Improper Gaussian Signaling for Hardware Impaired Multihop Full-Duplex Relaying Systems. <i>IEEE Transactions on Communications</i> , 2019 , 67, 1858-1871	6.9	13
32	Full-Duplex Relaying With Improper Gaussian Signaling Over Nakagami- m Fading Channels. <i>IEEE Transactions on Communications</i> , 2018 , 66, 64-78	6.9	16
31	System Modeling of Virus Transmission and Detection in Molecular Communication Channels 2018 ,		7
30	Energy Efficiency, Spectral Efficiency and Delay Analysis for Selective ARQ Multichannel Systems. <i>IEEE Transactions on Green Communications and Networking</i> , 2018 , 2, 612-622	4	5
29	On the Optimization of Multi-Cell SLIPT Systems 2018 ,		2
28	Terahertz communication: The opportunities of wireless technology beyond 5G 2018 ,		66
27	Impact of Improper Gaussian Signaling on the Achievable Rate of Overlay Cognitive Radio 2017 ,		1
26	Asymmetric Hardware Distortions in Receive Diversity Systems: Outage Performance Analysis. <i>IEEE Access</i> , 2017 , 5, 4492-4504	3.5	12
25	Energy-Efficient Resource Allocation for Phantom Cellular Networks With Imperfect CSI. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3799-3813	9.6	7
24	Underlay Spectrum Sharing Techniques With In-Band Full-Duplex Systems Using Improper Gaussian Signaling. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 235-249	9.6	28
23	Energy and spectral efficiency analysis for selective ARQ multi-channel systems 2017 ,		2
22	Impact of improper Gaussian signaling on hardware impaired systems 2017 ,		12
21	Performance Analysis of Single-Photon Avalanche Diode Underwater VLC System Using ARQ. <i>IEEE Photonics Journal</i> , 2017 , 9, 1-11	1.8	28
20	Full-duplex relaying under I/Q imbalance using improper Gaussian signaling 2017 ,		12

19	Coverage maximization for a poisson field of drone cells 2017 ,		31
18	Resource Allocation for Outdoor Visible Light Communications with Energy Harvesting Capabilities 2017 ,		7
17	On the Optimal Detection and Error Performance Analysis of the Hardware Impaired Systems 2017 ,		3
16	Interweave Cognitive Radio with Improper Gaussian Signaling 2017 ,		4
15	On the Achievable Rate of Hardware-Impaired Transceiver Systems 2017 ,		6
14	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 4875-4886	6.8	9
13	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 1975-1981	6.8	62
12	In-Band α -Duplex Scheme for Cellular Networks: A Stochastic Geometry Approach. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6797-6812	9.6	31
11	Improper Gaussian signaling in full-duplex relay channels with residual self-interference 2016 ,		13
10	On Alternate Relaying With Improper Gaussian Signaling. <i>IEEE Communications Letters</i> , 2016 , 20, 1683-1686		18
9	Overlay Spectrum Sharing Using Improper Gaussian Signaling. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 1-1	14.2	1
8	Downlink resource allocation for multichannel TDMA visible light communications 2016 ,		14
7	Underlay Cognitive Radio Systems With Improper Gaussian Signaling: Outage Performance Analysis. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 4875-4887	9.6	32
6	Resource allocation for phantom cellular networks: Energy efficiency vs spectral efficiency 2016 ,		4
5	. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 3414-3425	6.8	16
4	. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 2478-2493	14.2	22
3	Energy-efficient power allocation of two-hop cooperative systems with imperfect channel estimation 2015 ,		2
2	Spectrum sharing opportunities of full-duplex systems using improper Gaussian signaling 2015 ,		10

1 Outage performance of cognitive radio systems with Improper Gaussian signaling **2015**,

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