Alexandrosâ€“apostolos A Boulogeorgo

List of Publications by Year
in descending order

78 papers	1,852 citations	304743 22 h-index	315739 38 g-index
79 all docs	79 docs citations	79 times ranked	1172 citing authors

#	Article	IF	Citations
1	Terahertz Technologies to Deliver Optical Network Quality of Experience in Wireless Systems Beyond 5G. IEEE Communications Magazine, 2018, 56, 144-151.	6.1	232
2	Performance Analysis of Reconfigurable Intelligent Surface-Assisted Wireless Systems and Comparison With Relaying. IEEE Access, 2020, 8, 94463-94483.	4.2	182
3	Analytical Performance Assessment of THz Wireless Systems. IEEE Access, 2019, 7, 11436-11453.	4.2	118
4	Effects of RF Impairments in Communications Over Cascaded Fading Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 8878-8894.	6.3	65
5	Energy Detection Spectrum Sensing Under RF Imperfections. IEEE Transactions on Communications, 2016, 64, 2754-2766.	7.8	63
6	How Much do Hardware Imperfections Affect the Performance of Reconfigurable Intelligent Surface-Assisted Systems?. IEEE Open Journal of the Communications Society, 2020, 1, 1185-1195.	6.9	52
7	Error Analysis of Mixed THz-RF Wireless Systems. IEEE Communications Letters, 2020, 24, 277-281.	4.1	47
8	I/Q-Imbalance Self-Interference Coordination. IEEE Transactions on Wireless Communications, 2016, 15, 4157-4170.	9.2	43
9	A Distance and Bandwidth Dependent Adaptive Modulation Scheme for THz Communications. , 2018, , .		42
10	Impact of beam misalignment on THz wireless systems. Nano Communication Networks, 2020, 24, 100302.	2.9	42
11	OFDM Opportunistic Relaying Under Joint Transmit/Receive I/Q Imbalance. IEEE Transactions on Communications, 2014, 62, 1458-1468.	7.8	41
12	Spectrum Sensing in Full-Duplex Cognitive Radio Networks Under Hardware Imperfections. IEEE Transactions on Vehicular Technology, 2017, 66, 2072-2084.	6.3	41
13	An experimentally validated fading model for THz wireless systems. Scientific Reports, 2021, 11, 18717.	3.3	41
14	Performance Analysis of THz Wireless Systems in the Presence of Antenna Misalignment and Phase Noise. IEEE Communications Letters, 2020, 24, 1211-1215.	4.1	38
15	Reconfigurable Intelligent Surface Optimal Placement in Millimeter-Wave Networks. IEEE Open Journal of the Communications Society, 2021, 2, 704-718.	6.9	35
16	Coverage Analysis of Reconfigurable Intelligent Surface Assisted THz Wireless Systems. IEEE Open Journal of Vehicular Technology, 2021, 2, 94-110.	4.9	34
17	Performance Evaluation of THz Wireless Systems Operating in 275-400 GHz Band. , 2018, , .		32
18	Relay-Based Blockage and Antenna Misalignment Mitigation in THz Wireless Communications. , 2020, , .		30

#	Article	IF	Citations
19	Physical Layer Security in the Presence of Interference. IEEE Wireless Communications Letters, 2017, 6, 802-805.	5.0	29
20	Physical Layer Security With Uncertainty on the Location of the Eavesdropper. IEEE Wireless Communications Letters, 2016, 5, 540-543.	5.0	27
21	Outage Probability Analysis of THz Relaying Systems. , 2020, , .		27
22	Spectrum Sensing with Multiple Primary Users over Fading Channels. IEEE Communications Letters, 2016, , 1-1.	4.1	26
23	Drone-Base-Station for Next-Generation Internet-of-Things: A Comparison of Swarm Intelligence Approaches. IEEE Open Journal of Antennas and Propagation, 2022, 3, 32-47.	3.7	25
24	Energy Detection in Full-Duplex Systems With Residual RF Impairments Over Fading Channels. IEEE Wireless Communications Letters, 2018, 7, 246-249.	5.0	24
25	Users Association in Ultra Dense THz Networks. , 2018, , .		24
26	Ergodic capacity analysis of reconfigurable intelligent surface assisted wireless systems. , 2020, , .		24
27	Directional Terahertz Communication Systems for 6G: Fact Check. IEEE Vehicular Technology Magazine, 2021, 16, 68-77.	3.4	24
28	Optical wireless cochlear implants. Biomedical Optics Express, 2019, 10, 707.	2.9	23
29	Machine Learning in Nano-Scale Biomedical Engineering. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 10-39.	2.1	22
30	How much does I/Q Imbalance affect Secrecy Capacity?. IEEE Communications Letters, 2016, , 1-1.	4.1	21
31	Metasurface-Coated Devices: A New Paradigm for Energy-Efficient and Secure 6G Communications. IEEE Vehicular Technology Magazine, 2022, 17, 27-36.	3.4	21
32	Outage Performance Analysis of RIS-Assisted UAV Wireless Systems Under Disorientation and Misalignment. IEEE Transactions on Vehicular Technology, 2022, 71, 10712-10728.	6.3	18
33	Energy detection under RF impairments for cognitive radio. , 2015, , .		17
34	A new look to 275 to 400 GHz band: Channel model and performance evaluation. , 2018, , .		17
35	Optimal Reconfigurable Intelligent Surface Placement in Millimeter-Wave Communications. , 2021, , .		17
36	Signal Quality Assessment for Transdermal Optical Wireless Communications under Pointing Errors. Technologies, 2018, 6, 109.	5.1	16

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37	Cascaded Composite Turbulence and Misalignment: Statistical Characterization and Applications to Reconfigurable Intelligent Surface-Empowered Wireless Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 3821-3836.	6.3	16
38	The effects of RF impairments in vehicle-to-vehicle communications. , 2015, , .		15
39	Optical Wireless Communications for In-Body and Transdermal Biomedical Applications. IEEE Communications Magazine, 2021, 59, 119-125.	6.1	15
40	Analytical Performance Evaluation of THz Wireless Fiber Extenders. , 2019, , .		14
41	A New Look to THz Wireless Links: Fading Modeling and Capacity Assessment. , 2021, , .		14
42	Joint Wireless Resource and Computation Offloading Optimization for Energy Efficient Internet of Vehicles. IEEE Transactions on Green Communications and Networking, 2022, 6, 1468-1480.	5.5	14
43	A cooperative localization-aided tracking algorithm for THz wireless systems. , 2019, , .		13
44	All-Optical Cochlear Implants. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 13-24.	2.1	12
45	Outage Performance of Transdermal Optical Wireless Links in the Presence of Pointing Errors. , 2018, , .		11
46	On the Joint Effect of Rain and Beam Misalignment in Terahertz Wireless Systems. IEEE Access, 2022, 10, 58997-59012.	4.2	11
47	Performance evaluation of the initial access procedure in wireless THz systems. , 2019, , .		10
48	Performance Evaluation of Reconfigurable Intelligent Surface Assisted D-band Wireless Communication. , 2020, , .		10
49	Non-Orthogonal Multiple Access in the Presence of Phase Noise. IEEE Communications Letters, 2020, 24, 1133-1137.	4.1	10
50	Machine Learning: A Catalyst for THz Wireless Networks. Frontiers in Communications and Networks, 2021, 2, .	3.0	10
51	On the impact of misalignment fading in transdermal optical wireless communications. , 2018, , .		9
52	Analytical Performance Evaluation of Beamforming Under Transceivers Hardware Imperfections. , 2019, , .		9
53	A Low-Overhead Hierarchical Beam-tracking Algorithm for THz Wireless Systems. , 2020, , .		8
54	A Low Complexity Indoor Visible Light Positioning Method. IEEE Access, 2021, 9, 57658-57673.	4.2	8

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55	Semi-Grant-Free Non-Orthogonal Multiple Access for Tactile Internet of Things. , 2021, , .		7
56	Stochastic Analysis of Indoor THz Uplink with Co-Channel Interference and Phase Noise. , 2020, , .		6
57	Dual-hop OFDM opportunistic AF relaying under joint transmit/receive I/Q imbalance. , 2013, , .		5
58	Pathloss modeling of reconfigurable intelligent surface assisted THz wireless systems. , 2021, , .		5
59	LoRaWAN Communication Protocols: A Comprehensive Survey under an Energy Efficiency Perspective. Telecom, 2022, 3, 322-357.	2.6	5
60	Fading Modeling in Indoor THz Wireless Systems. , 2021, , .		4
61	Inter-band carrier aggregation in heterogeneous networks: Design and assessment. , 2014, , .		3
62	On the effects of I/Q imbalance on sensing performance in full-duplex cognitive radios. , 2016, , .		3
63	On the effects of I/Q imbalance on sensing performance in full-duplex cognitive radios. , 2016, , .		3
64	Optimal Power Allocation for OFDMA Systems under I/Q Imbalance. IEEE Signal Processing Letters, 2016, , 1-1.	3.6	3
65	Electrical vs Optical Cell Stimulation: A Communication Perspective. IEEE Access, 2020, 8, 192259-192269.	4.2	3
66	Antenna Misalignment and Blockage in THz Communications. , 2021, , 213-247.		3
67	Outage probability under I/Q imbalance and cascaded fading effects. , 2016, , .		2
68	Comparison of CSMA/CA protocols applied in wireless body area network standards. , 2016, , .		2
69	On the Impact of Beam Misalignment in Reconfigurable Intelligent Surface Assisted THz Systems. , 2021, , .		2
70	Comparative analysis of medium access techniques in wireless body area networks. , 2016, , .		1
71	Error performance of power line communications in the presence of Nakagamiâ€m background noise. Transactions on Emerging Telecommunications Technologies, 2018, 29, e3475.	3.9	1
72	Measurement and Modeling of Microbial Growth Using Timelapse Video. Sensors, 2020, 20, 2545.	3.8	1

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73	Dual-hop Blockchain Radio Access Networks for Advanced Coverage Expansion. , 2021, , .		1
74	Pathloss modeling for in-body optical wireless communications. , 2021, , .		1
75	AUGEIAS: Intelligent IoT management platform for treated wastewater reuse in precision agriculture. , 2021, , .		1
76	Channel Modeling for In-Body Optical Wireless Communications. Telecom, 2022, 3, 136-149.	2.6	1
77	MAC and Networking. Springer Series in Optical Sciences, 2022, , 377-398.	0.7	0
78	Hearing Restoration through Optical Wireless Cochlear Implants. , 0, , .		0