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	Metasurface-Coated Devices: A New Paradigm for Energy-Efficient and Secure 6G Communications. IEEE Vehicular Technology Magazine, 2022, 17, 27-36.	3.4	21
2	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
3	MAC and Networking. Springer Series in Optical Sciences, 2022, , 377-398.	0.7	0
4	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
5	Channel Modeling for In-Body Optical Wireless Communications. Telecom, 2022, 3, 136-149.	2.6	1
6	On the Joint Effect of Rain and Beam Misalignment in Terahertz Wireless Systems. IEEE Access, 2022, 10, 58997-59012.	4.2	11
7	LoRaWAN Communication Protocols: A Comprehensive Survey under an Energy Efficiency Perspective. Telecom, 2022, 3, 322-357.	2.6	5
8	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
9	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
10	A Low Complexity Indoor Visible Light Positioning Method. IEEE Access, 2021, 9, 57658-57673.	4.2	8
11	Optimal Reconfigurable Intelligent Surface Placement in Millimeter-Wave Communications. , 2021, , .		17
12	Machine Learning in Nano-Scale Biomedical Engineering. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 10-39.	2.1	22
13	Antenna Misalignment and Blockage in THz Communications. , 2021, , 213-247.		3
14	Pathloss modeling of reconfigurable intelligent surface assisted THz wireless systems. , 2021, , .		5
15	Dual-hop Blockchain Radio Access Networks for Advanced Coverage Expansion. , 2021, , .		1
16	Pathloss modeling for in-body optical wireless communications. , 2021, , .		1
17	An experimentally validated fading model for THz wireless systems. Scientific Reports, 2021, 11, 18717.	3.3	41
18	Machine Learning: A Catalyst for THz Wireless Networks. Frontiers in Communications and Networks, 2021, 2, .	3.0	10

#	Article	IF	Citations
19	Coverage Analysis of Reconfigurable Intelligent Surface Assisted THz Wireless Systems. IEEE Open Journal of Vehicular Technology, 2021, 2, 94-110.	4.9	34
20	Reconfigurable Intelligent Surface Optimal Placement in Millimeter-Wave Networks. IEEE Open Journal of the Communications Society, 2021, 2, 704-718.	6.9	35
21	Optical Wireless Communications for In-Body and Transdermal Biomedical Applications. IEEE Communications Magazine, 2021, 59, 119-125.	6.1	15
22	AUGEIAS: Intelligent IoT management platform for treated wastewater reuse in precision agriculture. , 2021, , .		1
23	Semi-Grant-Free Non-Orthogonal Multiple Access for Tactile Internet of Things. , 2021, , .		7
24	A New Look to THz Wireless Links: Fading Modeling and Capacity Assessment. , 2021, , .		14
25	Fading Modeling in Indoor THz Wireless Systems. , 2021, , .		4
26	On the Impact of Beam Misalignment in Reconfigurable Intelligent Surface Assisted THz Systems. , 2021, , .		2
27	Directional Terahertz Communication Systems for 6G: Fact Check. IEEE Vehicular Technology Magazine, 2021, 16, 68-77.	3.4	24
28	Error Analysis of Mixed THz-RF Wireless Systems. IEEE Communications Letters, 2020, 24, 277-281.	4.1	47
29	Stochastic Analysis of Indoor THz Uplink with Co-Channel Interference and Phase Noise. , 2020, , .		6
30	Outage Probability Analysis of THz Relaying Systems. , 2020, , .		27
31	Electrical vs Optical Cell Stimulation: A Communication Perspective. IEEE Access, 2020, 8, 192259-192269.	4.2	3
32	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
33	A Low-Overhead Hierarchical Beam-tracking Algorithm for THz Wireless Systems. , 2020, , .		8
34	Performance Evaluation of Reconfigurable Intelligent Surface Assisted D-band Wireless Communication. , 2020, , .		10
35	Ergodic capacity analysis of reconfigurable intelligent surface assisted wireless systems. , 2020, , .		24
36	Impact of beam misalignment on THz wireless systems. Nano Communication Networks, 2020, 24, 100302.	2.9	42

#	Article	IF	Citations
37	Relay-Based Blockage and Antenna Misalignment Mitigation in THz Wireless Communications. , 2020, , .		30
38	All-Optical Cochlear Implants. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 13-24.	2.1	12
39	Measurement and Modeling of Microbial Growth Using Timelapse Video. Sensors, 2020, 20, 2545.	3.8	1
40	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
41	Non-Orthogonal Multiple Access in the Presence of Phase Noise. IEEE Communications Letters, 2020, 24, 1133-1137.	4.1	10
42	Performance Analysis of Reconfigurable Intelligent Surface-Assisted Wireless Systems and Comparison With Relaying. IEEE Access, 2020, 8, 94463-94483.	4.2	182
43	Performance evaluation of the initial access procedure in wireless THz systems. , 2019, , .		10
44	Analytical Performance Assessment of THz Wireless Systems. IEEE Access, 2019, 7, 11436-11453.	4.2	118
45	Analytical Performance Evaluation of Beamforming Under Transceivers Hardware Imperfections. , 2019, , .		9
46	A cooperative localization-aided tracking algorithm for THz wireless systems. , 2019, , .		13
47	Analytical Performance Evaluation of THz Wireless Fiber Extenders. , 2019, , .		14
48	Optical wireless cochlear implants. Biomedical Optics Express, 2019, 10, 707.	2.9	23
49	Energy Detection in Full-Duplex Systems With Residual RF Impairments Over Fading Channels. IEEE Wireless Communications Letters, 2018, 7, 246-249.	5.0	24
50	A new look to 275 to 400 GHz band: Channel model and performance evaluation. , 2018, , .		17
51	Signal Quality Assessment for Transdermal Optical Wireless Communications under Pointing Errors. Technologies, 2018, 6, 109.	5.1	16
52	A Distance and Bandwidth Dependent Adaptive Modulation Scheme for THz Communications. , 2018, , .		42
53	Outage Performance of Transdermal Optical Wireless Links in the Presence of Pointing Errors. , 2018, , .		11
54	Performance Evaluation of THz Wireless Systems Operating in 275-400 GHz Band. , 2018, , .		32

#	Article	IF	Citations
55	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
56	Users Association in Ultra Dense THz Networks. , 2018, , .		24
57	On the impact of misalignment fading in transdermal optical wireless communications. , 2018, , .		9
58	Terahertz Technologies to Deliver Optical Network Quality of Experience in Wireless Systems Beyond 5G. IEEE Communications Magazine, 2018, 56, 144-151.	6.1	232
59	Spectrum Sensing in Full-Duplex Cognitive Radio Networks Under Hardware Imperfections. IEEE Transactions on Vehicular Technology, 2017, 66, 2072-2084.	6.3	41
60	Physical Layer Security in the Presence of Interference. IEEE Wireless Communications Letters, 2017, 6, 802-805.	5.0	29
61	Energy Detection Spectrum Sensing Under RF Imperfections. IEEE Transactions on Communications, 2016, 64, 2754-2766.	7.8	63
62	Spectrum Sensing with Multiple Primary Users over Fading Channels. IEEE Communications Letters, 2016, , 1-1.	4.1	26
63	How much does I/Q Imbalance affect Secrecy Capacity?. IEEE Communications Letters, 2016, , 1-1.	4.1	21
64	On the effects of I/Q imbalance on sensing performance in full-duplex cognitive radios. , 2016, , .		3
65	On the effects of I/Q imbalance on sensing performance in full-duplex cognitive radios. , 2016, , .		3
66	Optimal Power Allocation for OFDMA Systems under I/Q Imbalance. IEEE Signal Processing Letters, 2016, , 1-1.	3.6	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	Comparative analysis of medium access techniques in wireless body area networks. , 2016, , .		1
70	Physical Layer Security With Uncertainty on the Location of the Eavesdropper. IEEE Wireless Communications Letters, 2016, 5, 540-543.	5.0	27
71	I/Q-Imbalance Self-Interference Coordination. IEEE Transactions on Wireless Communications, 2016, 15, 4157-4170.	9.2	43
72	Effects of RF Impairments in Communications Over Cascaded Fading Channels. IEEE Transactions on Vehicular Technology, 2016, 65, 8878-8894.	6.3	65

#	Article	IF	Citations
73	The effects of RF impairments in vehicle-to-vehicle communications. , 2015, , .		15
74	Energy detection under RF impairments for cognitive radio. , 2015, , .		17
75	Inter-band carrier aggregation in heterogeneous networks: Design and assessment. , 2014, , .		3
76	OFDM Opportunistic Relaying Under Joint Transmit/Receive I/Q Imbalance. IEEE Transactions on Communications, 2014, 62, 1458-1468.	7.8	41
77	Dual-hop OFDM opportunistic AF relaying under joint transmit/receive I/Q imbalance. , 2013, , .		5
78	Hearing Restoration through Optical Wireless Cochlear Implants. , 0, , .		0