

Yongs Zeng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4153101/publications.pdf>

Version: 2024-02-01

124
papers

18,188
citations

41323

49
h-index

60583

81
g-index

132
all docs

132
docs citations

132
times ranked

7481
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless communications with unmanned aerial vehicles: opportunities and challenges. , 2016, 54, 36-42.		2,711
2	Energy-Efficient UAV Communication With Trajectory Optimization. IEEE Transactions on Wireless Communications, 2017, 16, 3747-3760.	6.1	1,459
3	Joint Trajectory and Communication Design for Multi-UAV Enabled Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 2109-2121.	6.1	1,249
4	Throughput Maximization for UAV-Enabled Mobile Relaying Systems. IEEE Transactions on Communications, 2016, 64, 4983-4996.	4.9	992
5	Energy Minimization for Wireless Communication With Rotary-Wing UAV. IEEE Transactions on Wireless Communications, 2019, 18, 2329-2345.	6.1	991
6	Accessing From the Sky: A Tutorial on UAV Communications for 5G and Beyond. Proceedings of the IEEE, 2019, 107, 2327-2375.	16.4	828
7	Placement Optimization of UAV-Mounted Mobile Base Stations. IEEE Communications Letters, 2017, 21, 604-607.	2.5	697
8	Wireless Communications With Reconfigurable Intelligent Surface: Path Loss Modeling and Experimental Measurement. IEEE Transactions on Wireless Communications, 2021, 20, 421-439.	6.1	685
9	Energy-Efficient Data Collection in UAV Enabled Wireless Sensor Network. IEEE Wireless Communications Letters, 2018, 7, 328-331.	3.2	552
10	Cellular-Connected UAV: Potential, Challenges, and Promising Technologies. IEEE Wireless Communications, 2019, 26, 120-127.	6.6	444
11	Wireless powered communication networks: an overview. IEEE Wireless Communications, 2016, 23, 10-18.	6.6	435
12	UAV-Enabled Wireless Power Transfer: Trajectory Design and Energy Optimization. IEEE Transactions on Wireless Communications, 2018, 17, 5092-5106.	6.1	435
13	Communications and Signals Design for Wireless Power Transmission. IEEE Transactions on Communications, 2017, 65, 2264-2290.	4.9	353
14	Full-Duplex Wireless-Powered Relay With Self-Energy Recycling. IEEE Wireless Communications Letters, 2015, 4, 201-204.	3.2	348
15	Trajectory Design for Completion Time Minimization in UAV-Enabled Multicasting. IEEE Transactions on Wireless Communications, 2018, 17, 2233-2246.	6.1	337
16	Energy Tradeoff in Ground-to-UAV Communication via Trajectory Design. IEEE Transactions on Vehicular Technology, 2018, 67, 6721-6726.	3.9	311
17	Cellular-Enabled UAV Communication: A Connectivity-Constrained Trajectory Optimization Perspective. IEEE Transactions on Communications, 2019, 67, 2580-2604.	4.9	274
18	Millimeter Wave MIMO With Lens Antenna Array: A New Path Division Multiplexing Paradigm. IEEE Transactions on Communications, 2016, 64, 1557-1571.	4.9	255

#	ARTICLE	IF	CITATIONS
19	UAV-Aided Offloading for Cellular Hotspot. IEEE Transactions on Wireless Communications, 2018, 17, 3988-4001.	6.1	248
20	A Comprehensive Overview on 5G-and-Beyond Networks With UAVs: From Communications to Sensing and Intelligence. IEEE Journal on Selected Areas in Communications, 2021, 39, 2912-2945.	9.7	202
21	Joint Altitude and Beamwidth Optimization for UAV-Enabled Multiuser Communications. IEEE Communications Letters, 2018, 22, 344-347.	2.5	200
22	Optimized Training Design for Wireless Energy Transfer. IEEE Transactions on Communications, 2015, 63, 536-550.	4.9	194
23	Cyclical Multiple Access in UAV-Aided Communications: A Throughput-Delay Tradeoff. IEEE Wireless Communications Letters, 2016, 5, 600-603.	3.2	190
24	Completion Time Minimization for Multi-UAV-Enabled Data Collection. IEEE Transactions on Wireless Communications, 2019, 18, 4859-4872.	6.1	158
25	Wireless communications with programmable metasurface: Transceiver design and experimental results. China Communications, 2019, 16, 46-61.	2.0	158
26	Aerial Intelligent Reflecting Surface: Joint Placement and Passive Beamforming Design With 3D Beam Flattening. IEEE Transactions on Wireless Communications, 2021, 20, 4128-4143.	6.1	148
27	Overcoming Endurance Issue: UAV-Enabled Communications With Proactive Caching. IEEE Journal on Selected Areas in Communications, 2018, 36, 1231-1244.	9.7	136
28	Wireless Information Surveillance via Proactive Eavesdropping with Spoofing Relay. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1449-1461.	7.3	132
29	Transmit Optimization With Improper Gaussian Signaling for Interference Channels. IEEE Transactions on Signal Processing, 2013, 61, 2899-2913.	3.2	121
30	Electromagnetic Lens-Focusing Antenna Enabled Massive MIMO: Performance Improvement and Cost Reduction. IEEE Journal on Selected Areas in Communications, 2014, 32, 1194-1206.	9.7	115
31	Trajectory Optimization and Power Allocation for Multi-Hop UAV Relaying Communications. IEEE Access, 2018, 6, 48566-48576.	2.6	105
32	Aerial Ground Cost Tradeoff for Multi-UAV-Enabled Data Collection in Wireless Sensor Networks. IEEE Transactions on Communications, 2020, 68, 1937-1950.	4.9	101
33	UAV-Enabled Radio Access Network: Multi-Mode Communication and Trajectory Design. IEEE Transactions on Signal Processing, 2018, 66, 5269-5284.	3.2	92
34	Asynchronous Mobile-Edge Computation Offloading: Energy-Efficient Resource Management. IEEE Transactions on Wireless Communications, 2018, 17, 7590-7605.	6.1	91
35	Multi-UAV Interference Coordination via Joint Trajectory and Power Control. IEEE Transactions on Signal Processing, 2020, 68, 843-858.	3.2	90
36	Spectrum and energy efficiency maximization in UAV-enabled mobile relaying. , 2017, , .		89

#	ARTICLE	IF	CITATIONS
37	Simultaneous Navigation and Radio Mapping for Cellular-Connected UAV With Deep Reinforcement Learning. IEEE Transactions on Wireless Communications, 2021, 20, 4205-4220.	6.1	81
38	Joint Trajectory and Communication Design for UAV-Enabled Multiple Access. , 2017, , .		78
39	Trajectory Design for Distributed Estimation in UAV-Enabled Wireless Sensor Network. IEEE Transactions on Vehicular Technology, 2018, 67, 10155-10159.	3.9	78
40	Secrecy Energy Efficiency Maximization for UAV-Enabled Mobile Relaying. IEEE Transactions on Green Communications and Networking, 2020, 4, 180-193.	3.5	77
41	Enabling Smart Reflection in Integrated Air-Ground Wireless Network: IRS Meets UAV. IEEE Wireless Communications, 2021, 28, 138-144.	6.6	64
42	Common Throughput Maximization for UAV-Enabled Interference Channel With Wireless Powered Communications. IEEE Transactions on Communications, 2020, 68, 3197-3212.	4.9	63
43	UAV-Enabled Wireless Power Transfer: Trajectory Design and Energy Region Characterization. , 2017, , .		62
44	Multi-User Millimeter Wave MIMO With Full-Dimensional Lens Antenna Array. IEEE Transactions on Wireless Communications, 2018, 17, 2800-2814.	6.1	61
45	Optimized Transmission with Improper Gaussian Signaling in the K-User MISO Interference Channel. IEEE Transactions on Wireless Communications, 2013, 12, 6303-6313.	6.1	58
46	Joint Beamforming and Power Allocation for UAV-Enabled Full-Duplex Relay. IEEE Transactions on Vehicular Technology, 2019, 68, 1657-1671.	3.9	58
47	Optimized Training for Net Energy Maximization in Multi-Antenna Wireless Energy Transfer Over Frequency-Selective Channel. IEEE Transactions on Communications, 2015, 63, 2360-2373.	4.9	57
48	Waveform Design and Performance Analysis for Full-Duplex Integrated Sensing and Communication. IEEE Journal on Selected Areas in Communications, 2022, 40, 1823-1837.	9.7	57
49	Enabling Panoramic Full-Angle Reflection Via Aerial Intelligent Reflecting Surface. , 2020, , .		56
50	3D Trajectory Optimization for Energy-Efficient UAV Communication: A Control Design Perspective. IEEE Transactions on Wireless Communications, 2022, 21, 4579-4593.	6.1	55
51	Bidirectional Wireless Information and Power Transfer With a Helping Relay. IEEE Communications Letters, 2016, 20, 862-865.	2.5	54
52	Channel Estimation for Millimeter-Wave MIMO Communications With Lens Antenna Arrays. IEEE Transactions on Vehicular Technology, 2018, 67, 3239-3251.	3.9	54
53	Toward Environment-Aware 6G Communications via Channel Knowledge Map. IEEE Wireless Communications, 2021, 28, 84-91.	6.6	54
54	An overview on integrated localization and communication towards 6G. Science China Information Sciences, 2022, 65, 1.	2.7	54

#	ARTICLE	IF	CITATIONS
55	Communicating With Extremely Large-Scale Array/Surface: Unified Modeling and Performance Analysis. IEEE Transactions on Wireless Communications, 2022, 21, 4039-4053.	6.1	52
56	Spectrum Sharing and Cyclical Multiple Access in UAV-Aided Cellular Offloading. , 2017, , .		45
57	UAV-enabled multiuser wireless power transfer: Trajectory design and energy optimization. , 2017, , .		45
58	Robust Secure Beamforming for Wireless Powered Full-Duplex Systems With Self-Energy Recycling. IEEE Transactions on Vehicular Technology, 2017, 66, 10055-10069.	3.9	44
59	Retrodirective Multi-User Wireless Power Transfer With Massive MIMO. IEEE Wireless Communications Letters, 2018, 7, 54-57.	3.2	42
60	A survey of prototype and experiment for UAV communications. Science China Information Sciences, 2021, 64, 1.	2.7	42
61	A Generic Receiver Architecture for MIMO Wireless Power Transfer With Nonlinear Energy Harvesting. IEEE Signal Processing Letters, 2019, 26, 312-316.	2.1	39
62	Wideband Millimeter Wave Communication With Lens Antenna Array: Joint Beamforming and Antenna Selection With Group Sparse Optimization. IEEE Transactions on Wireless Communications, 2018, 17, 6575-6589.	6.1	38
63	Cost-Effective Millimeter-Wave Communications with Lens Antenna Array. IEEE Wireless Communications, 2017, 24, 81-87.	6.6	35
64	Cellular-Enabled UAV Communication: Trajectory Optimization under Connectivity Constraint. , 2018, , .		35
65	Path Design for Cellular-Connected UAV with Reinforcement Learning. , 2019, , .		35
66	Energy-Efficient Data Uploading for Cellular-Connected UAV Systems. IEEE Transactions on Wireless Communications, 2020, 19, 7279-7292.	6.1	35
67	Wireless Power Transfer With Hybrid Beamforming: How Many RF Chains Do We Need?. IEEE Transactions on Wireless Communications, 2018, 17, 6972-6984.	6.1	34
68	Active eavesdropping via spoofing relay attack. , 2016, , .		32
69	Software-Defined Coexisting UAV and WiFi: Delay-Oriented Traffic Offloading and UAV Placement. IEEE Journal on Selected Areas in Communications, 2020, 38, 988-998.	9.7	29
70	Efficient channel estimation for millimeter wave MIMO with limited RF chains. , 2016, , .		27
71	Optimal Resource Allocation for Multiuser Internet of Things Network With Single Wireless-Powered Relay. IEEE Internet of Things Journal, 2019, 6, 3132-3142.	5.5	27
72	Cellular-Connected UAV: Performance Analysis with 3D Antenna Modelling. , 2019, , .		26

#	ARTICLE	IF	CITATIONS
73	Achievable Rate Region of MISO Interference Channel Aided by Intelligent Reflecting Surface. IEEE Transactions on Vehicular Technology, 2020, 69, 16264-16269.	3.9	23
74	Throughput Maximization for Mobile Relaying Systems. , 2016, , .		22
75	Batched Network Coding With Adaptive Recoding for Multi-Hop Erasure Channels With Memory. IEEE Transactions on Communications, 2018, 66, 1042-1052.	4.9	22
76	Communication and Localization With Extremely Large Lens Antenna Array. IEEE Transactions on Wireless Communications, 2021, 20, 3031-3048.	6.1	22
77	Near-Field Modeling and Performance Analysis for Multi-User Extremely Large-Scale MIMO Communication. IEEE Communications Letters, 2022, 26, 277-281.	2.5	22
78	Environment-Aware and Training-Free Beam Alignment for mmWave Massive MIMO via Channel Knowledge Map. , 2021, , .		21
79	Joint Base Station selection and linear precoding for cellular networks with multi-cell processing. , 2010, , .		20
80	Waveform optimization for radio-frequency wireless power transfer : (Invited paper). , 2017, , .		17
81	Energy Minimization for Cellular-Connected UAV: From Optimization to Deep Reinforcement Learning. IEEE Transactions on Wireless Communications, 2022, 21, 5541-5555.	6.1	17
82	Expanding-Window BATS Code for Scalable Video Multicasting Over Erasure Networks. IEEE Transactions on Multimedia, 2018, 20, 271-281.	5.2	16
83	Receding Horizon Optimization for Energy-Efficient UAV Communication. IEEE Wireless Communications Letters, 2020, 9, 490-494.	3.2	16
84	Rotary-Wing UAV Enabled Wireless Network: Trajectory Design and Resource Allocation. , 2018, , .		15
85	How Does Performance Scale with Antenna Number for Extremely Large-Scale MIMO?. , 2021, , .		15
86	Quasi-Universal BATS Code. IEEE Transactions on Vehicular Technology, 2017, 66, 3497-3501.	3.9	14
87	Wireless Communication with Extremely Large-Scale Intelligent Reflecting Surface. , 2021, , .		14
88	In-Band Wireless Information and Power Transfer With Lens Antenna Array. IEEE Communications Letters, 2017, 21, 100-103.	2.5	13
89	Minimum-Latency FEC Design With Delayed Feedback: Mathematical Modeling and Efficient Algorithms. IEEE Transactions on Wireless Communications, 2020, 19, 7210-7223.	6.1	12
90	Online Maneuver Design for UAV-Enabled NOMA Systems via Reinforcement Learning. , 2020, , .		11

#	ARTICLE	IF	CITATIONS
91	Electromagnetic lens-focusing antenna enabled massive MIMO. , 2013, , .		10
92	BATS code with unequal error protection. , 2016, , .		10
93	Multi-user millimeter wave MIMO with single-sided full-dimensional lens antenna array. , 2017, , .		10
94	Modified Block Diagonalization Precoding in Multicell Cooperative Networks. IEEE Transactions on Vehicular Technology, 2012, 61, 3819-3824.	3.9	9
95	Cell-Free Symbiotic Radio: Channel Estimation Method and Achievable Rate Analysis. , 2021, , .		8
96	Near-Field Spatial Correlation for Extremely Large-Scale Array Communications. IEEE Communications Letters, 2022, 26, 1534-1538.	2.5	8
97	Improving achievable rate for the two-user SISO interference channel with improper Gaussian signaling. , 2012, , .		7
98	Sub-stream fairness and numerical correctness in MIMO interference channels. , 2013, , .		6
99	Performance Analysis of Finite-Length Spatial-Temporal Network Coding. IEEE Communications Letters, 2014, 18, 1163-1166.	2.5	6
100	Delay-Oriented Spectrum Sharing and Traffic Offloading in Coexisting UAV-Enabled Cellular and WiFi Networks. , 2018, , .		6
101	Cellular-V2X Communications With Weighted-Power-Based Mode Selection. IEEE Open Journal of the Communications Society, 2020, 1, 386-400.	4.4	6
102	Full-Duplex Integrated Sensing and Communication: Waveform Design and Performance Analysis. , 2021, , .		6
103	Delay Alignment Modulation: Enabling Equalization-Free Single-Carrier Communication. IEEE Wireless Communications Letters, 2022, 11, 1785-1789.	3.2	6
104	Optimized training design for multi-antenna wireless energy transfer in frequency-selective channel. , 2015, , .		5
105	Cognitive Wireless Power Transfer With Information Helping. IEEE Wireless Communications Letters, 2017, 6, 346-349.	3.2	5
106	Spatial-Temporal Network Coding Based on BATS Code. IEEE Communications Letters, 2017, 21, 620-623.	2.5	5
107	Optimal Scheduling for Multi-Hop Video Streaming with Network Coding in Vehicular Networks. , 2018, , .		5
108	Energy Consumption Tradeoff for Association-Free Fog-IoT. , 2019, , .		5

#	ARTICLE	IF	CITATIONS
109	Environment-Aware Beam Selection for IRS-Aided Communication with Channel Knowledge Map. , 2021, , .		5
110	An Achievable Region for Double-Unicast Networks With Linear Network Coding. IEEE Transactions on Communications, 2014, 62, 3621-3630.	4.9	4
111	Simultaneous Environment Sensing and Channel Knowledge Mapping for Cellular-Connected UAV. , 2021, , .		4
112	Near-Field Modeling and Performance Analysis of Modular Extremely Large-Scale Array Communications. IEEE Communications Letters, 2022, 26, 1529-1533.	2.5	4
113	Improper Gaussian signaling for the K-user SISO interference channel. , 2013, , .		3
114	Resource Management for Asynchronous Mobile-Edge Computation Offloading. , 2018, , .		3
115	Distributed power allocation for network MIMO with a Bayesian game-theoretic approach. , 2011, , .		2
116	MISO interference channel with improper Gaussian signaling. , 2013, , .		2
117	On the degrees of freedom of the 3-user rank-deficient MIMO interference channels. , 2013, , .		2
118	Balancing Weighted Substreams in MIMO Interference Channels. IEEE Wireless Communications Letters, 2014, 3, 513-516.	3.2	2
119	Guest Editorial Special Issue on UAV Communications in 5G and Beyond Networksâ€™Part I. IEEE Journal on Selected Areas in Communications, 2021, 39, 2907-2911.	9.7	2
120	Packet Encoding for Data Freshness and Transmission Efficiency with Delayed Feedback. , 2022, , .		2
121	Beamforming Towards Seamless Sensing Coverage for Cellular Integrated Sensing and Communication. , 2022, , .		1
122	Multi-source erasure networks with source precoding and random linear network coding. , 2015, , .		0
123	IEEE ACCESS Special Section Editorial: Energy Efficient Wireless Communications With Energy Harvesting and Wireless Power Transfer. IEEE Access, 2018, 6, 72041-72045.	2.6	0
124	Guest Editorial Special Issue on UAV Communications in 5G and Beyond Networksâ€™Part II. IEEE Journal on Selected Areas in Communications, 2021, 39, 3247-3251.	9.7	0