

Yongs Zeng

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.

122
papers

11,661
citations

43
h-index

107
g-index

132
ext. papers

14,801
ext. citations

7.1
avg, IF

7.76
L-index

#	Paper	IF	Citations
122	Energy Minimization for Cellular-Connected UAV: From Optimization to Deep Reinforcement Learning. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	2
121	Waveform Design and Performance Analysis for Full-Duplex Integrated Sensing and Communication. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 1-1	14.2	8
120	An overview on integrated localization and communication towards 6G. <i>Science China Information Sciences</i> , 2022 , 65, 1	3.4	13
119	Near-Field Spatial Correlation for Extremely Large-Scale Array Communications. <i>IEEE Communications Letters</i> , 2022 , 1-1	3.8	
118	Near-Field Modelling and Performance Analysis of Modular Extremely Large-Scale Array Communications. <i>IEEE Communications Letters</i> , 2022 , 1-1	3.8	
117	Near-Field Modelling and Performance Analysis for Multi-User Extremely Large-Scale MIMO Communication. <i>IEEE Communications Letters</i> , 2021 , 1-1	3.8	5
116	Full-Duplex Integrated Sensing and Communication: Waveform Design and Performance Analysis 2021 ,		1
115	Communicating with Extremely Large-Scale Array/Surface: Unified Modelling and Performance Analysis. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	14
114	3D Trajectory Optimization for Energy-Efficient UAV Communication: A Control Design Perspective. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	5
113	Guest Editorial Special Issue on UAV Communications in 5G and Beyond Networks Part II. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 3247-3251	14.2	
112	Communication and Localization With Extremely Large Lens Antenna Array. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 3031-3048	9.6	6
111	Toward Environment-Aware 6G Communications via Channel Knowledge Map. <i>IEEE Wireless Communications</i> , 2021 , 28, 84-91	13.4	11
110	How Does Performance Scale with Antenna Number for Extremely Large-Scale MIMO? 2021 ,		4
109	Environment-Aware and Training-Free Beam Alignment for mmWave Massive MIMO via Channel Knowledge Map 2021 ,		4
108	Wireless Communication with Extremely Large-Scale Intelligent Reflecting Surface 2021 ,		7
107	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 421-439	9.6	272
106	A survey of prototype and experiment for UAV communications. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	12

105	Aerial Intelligent Reflecting Surface: Joint Placement and Passive Beamforming Design With 3D Beam Flattening. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 4128-4143	9.6	51
104	Simultaneous Navigation and Radio Mapping for Cellular-Connected UAV With Deep Reinforcement Learning. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 4205-4220	9.6	22
103	Guest Editorial Special Issue on UAV Communications in 5G and Beyond Networks Part I. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 2907-2911	14.2	1
102	A Comprehensive Overview on 5G-and-Beyond Networks With UAVs: From Communications to Sensing and Intelligence. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 2912-2945	14.2	51
101	Enabling Smart Reflection in Integrated Air-Ground Wireless Network: IRS Meets UAV. <i>IEEE Wireless Communications</i> , 2021 , 28, 138-144	13.4	22
100	Common Throughput Maximization for UAV-Enabled Interference Channel With Wireless Powered Communications. <i>IEEE Transactions on Communications</i> , 2020 , 68, 3197-3212	6.9	36
99	Software-Defined Coexisting UAV and WiFi: Delay-Oriented Traffic Offloading and UAV Placement. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 988-998	14.2	19
98	Cellular-V2X Communications With Weighted-Power-Based Mode Selection. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 386-400	6.7	4
97	Multi-UAV Interference Coordination via Joint Trajectory and Power Control. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 843-858	4.8	54
96	Achievable Rate Region of MISO Interference Channel Aided by Intelligent Reflecting Surface. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 16264-16269	6.8	13
95	Non-Orthogonal Multiple Access for UAV Communications 2020 , 349-371		0
94	Joint Trajectory and Resource Optimization 2020 , 283-297		
93	Energy-Efficient UAV Communications 2020 , 299-314		
92	Stochastic Geometry-Based Performance Analysis of Drone Cellular Networks 2020 , 231-254		1
91	Fundamental Trade-Offs for UAV Communications 2020 , 315-328		
90	A Survey of Air-to-Ground Propagation Channel Modeling for Unmanned Aerial Vehicles 2020 , 17-70		1
89	Secrecy Energy Efficiency Maximization for UAV-Enabled Mobile Relaying. <i>IEEE Transactions on Green Communications and Networking</i> , 2020 , 4, 180-193	4	40
88	Aerial-Ground Cost Tradeoff for Multi-UAV-Enabled Data Collection in Wireless Sensor Networks. <i>IEEE Transactions on Communications</i> , 2020 , 68, 1937-1950	6.9	51

87	Receding Horizon Optimization for Energy-Efficient UAV Communication. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 490-494	5.9	12
86	Online Maneuver Design for UAV-Enabled NOMA Systems via Reinforcement Learning 2020 ,		9
85	Minimum-Latency FEC Design With Delayed Feedback: Mathematical Modeling and Efficient Algorithms. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 7210-7223	9.6	4
84	Enabling Panoramic Full-Angle Reflection Via Aerial Intelligent Reflecting Surface 2020 ,		27
83	Energy-Efficient Data Uploading for Cellular-Connected UAV Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 7279-7292	9.6	15
82	UAV-Enabled Wireless Power Transfer 2020 , 399-416		0
81	Energy Consumption Tradeoff for Association-Free Fog-IoT 2019 ,		3
80	Completion Time Minimization for Multi-UAV-Enabled Data Collection. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 4859-4872	9.6	78
79	Energy Minimization for Wireless Communication With Rotary-Wing UAV. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 2329-2345	9.6	507
78	Wireless communications with programmable metasurface: Transceiver design and experimental results. <i>China Communications</i> , 2019 , 16, 46-61	3	96
77	Path Design for Cellular-Connected UAV with Reinforcement Learning 2019 ,		23
76	Cellular-Connected UAV: Performance Analysis with 3D Antenna Modelling 2019 ,		14
75	Accessing From the Sky: A Tutorial on UAV Communications for 5G and Beyond. <i>Proceedings of the IEEE</i> , 2019 , 107, 2327-2375	14.3	410
74	Joint Beamforming and Power Allocation for UAV-Enabled Full-Duplex Relay. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 1657-1671	6.8	43
73	Optimal Resource Allocation for Multiuser Internet of Things Network With Single Wireless-Powered Relay. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 3132-3142	10.7	20
72	Cellular-Enabled UAV Communication: A Connectivity-Constrained Trajectory Optimization Perspective. <i>IEEE Transactions on Communications</i> , 2019 , 67, 2580-2604	6.9	190
71	A Generic Receiver Architecture for MIMO Wireless Power Transfer With Nonlinear Energy Harvesting. <i>IEEE Signal Processing Letters</i> , 2019 , 26, 312-316	3.2	28
70	Cellular-Connected UAV: Potential, Challenges, and Promising Technologies. <i>IEEE Wireless Communications</i> , 2019 , 26, 120-127	13.4	271

69	Trajectory Design for Completion Time Minimization in UAV-Enabled Multicasting. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2233-2246	9.6	241
68	Energy-Efficient Data Collection in UAV Enabled Wireless Sensor Network. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 328-331	5.9	371
67	Retrodirective Multi-User Wireless Power Transfer With Massive MIMO. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 54-57	5.9	33
66	. <i>IEEE Transactions on Multimedia</i> , 2018 , 20, 271-281	6.6	11
65	Channel Estimation for Millimeter-Wave MIMO Communications With Lens Antenna Arrays. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 3239-3251	6.8	40
64	Multi-User Millimeter Wave MIMO With Full-Dimensional Lens Antenna Array. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2800-2814	9.6	46
63	Joint Trajectory and Communication Design for Multi-UAV Enabled Wireless Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2109-2121	9.6	849
62	. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 3988-4001	9.6	180
61	Energy Tradeoff in Ground-to-UAV Communication via Trajectory Design. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 6721-6726	6.8	224
60	Batched Network Coding With Adaptive Recoding for Multi-Hop Erasure Channels With Memory. <i>IEEE Transactions on Communications</i> , 2018 , 66, 1042-1052	6.9	15
59	Trajectory Design for Distributed Estimation in UAV-Enabled Wireless Sensor Network. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 10155-10159	6.8	46
58	Resource Management for Asynchronous Mobile-Edge Computation Offloading 2018 ,		3
57	Optimal Scheduling for Multi-Hop Video Streaming with Network Coding in Vehicular Networks 2018 ,		3
56	UAV-Enabled Radio Access Network: Multi-Mode Communication and Trajectory Design. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 5269-5284	4.8	70
55	Wideband Millimeter Wave Communication With Lens Antenna Array: Joint Beamforming and Antenna Selection With Group Sparse Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 6575-6589	9.6	23
54	Wireless Power Transfer With Hybrid Beamforming: How Many RF Chains Do We Need?. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 6972-6984	9.6	25
53	Overcoming Endurance Issue: UAV-Enabled Communications With Proactive Caching. <i>IEEE Journal on Selected Areas in Communications</i> , 2018 , 36, 1231-1244	14.2	91
52	Joint Altitude and Beamwidth Optimization for UAV-Enabled Multiuser Communications. <i>IEEE Communications Letters</i> , 2018 , 22, 344-347	3.8	155

51	Rotary-Wing UAV Enabled Wireless Network: Trajectory Design and Resource Allocation 2018 ,		6
50	Delay-Oriented Spectrum Sharing and Traffic Offloading in Coexisting UAV-Enabled Cellular and WiFi Networks 2018 ,		5
49	Cellular-Enabled UAV Communication: Trajectory Optimization under Connectivity Constraint 2018 ,		25
48	IEEE ACCESS Special Section Editorial: Energy Efficient Wireless Communications With Energy Harvesting and Wireless Power Transfer. <i>IEEE Access</i> , 2018 , 6, 72041-72045	3.5	
47	Asynchronous Mobile-Edge Computation Offloading: Energy-Efficient Resource Management. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 7590-7605	9.6	66
46	Trajectory Optimization and Power Allocation for Multi-Hop UAV Relaying Communications. <i>IEEE Access</i> , 2018 , 6, 48566-48576	3.5	76
45	UAV-Enabled Wireless Power Transfer: Trajectory Design and Energy Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 5092-5106	9.6	295
44	Communications and Signals Design for Wireless Power Transmission. <i>IEEE Transactions on Communications</i> , 2017 , 65, 2264-2290	6.9	278
43	Quasi-Universal BATS Code. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 3497-3501	6.8	11
42	Cognitive Wireless Power Transfer With Information Helping. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 346-349	5.9	4
41	Energy-Efficient UAV Communication With Trajectory Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3747-3760	9.6	958
40	Placement Optimization of UAV-Mounted Mobile Base Stations. <i>IEEE Communications Letters</i> , 2017 , 21, 604-607	3.8	493
39	Spatial-Temporal Network Coding Based on BATS Code. <i>IEEE Communications Letters</i> , 2017 , 21, 620-623	3.8	5
38	Multi-user millimeter wave MIMO with single-sided full-dimensional lens antenna array 2017 ,		7
37	Cost-Effective Millimeter-Wave Communications with Lens Antenna Array. <i>IEEE Wireless Communications</i> , 2017 , 24, 81-87	13.4	28
36	Spectrum and energy efficiency maximization in UAV-enabled mobile relaying 2017 ,		69
35	In-Band Wireless Information and Power Transfer With Lens Antenna Array. <i>IEEE Communications Letters</i> , 2017 , 21, 100-103	3.8	7
34	Robust Secure Beamforming for Wireless Powered Full-Duplex Systems With Self-Energy Recycling. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 10055-10069	6.8	35

33	Waveform optimization for radio-frequency wireless power transfer : (Invited paper) 2017 ,		13
32	Joint Trajectory and Communication Design for UAV-Enabled Multiple Access 2017 ,		60
31	2017 ,		54
30	Spectrum Sharing and Cyclical Multiple Access in UAV-Aided Cellular Offloading 2017 ,		34
29	UAV-enabled multiuser wireless power transfer: Trajectory design and energy optimization 2017 ,		33
28	Active eavesdropping via spoofing relay attack 2016 ,		18
27	Efficient channel estimation for millimeter wave MIMO with limited RF chains 2016 ,		19
26	Throughput Maximization for UAV-Enabled Mobile Relaying Systems. <i>IEEE Transactions on Communications</i> , 2016 , 64, 4983-4996	6.9	740
25	Millimeter Wave MIMO With Lens Antenna Array: A New Path Division Multiplexing Paradigm. <i>IEEE Transactions on Communications</i> , 2016 , 64, 1557-1571	6.9	177
24	Throughput Maximization for Mobile Relaying Systems 2016 ,		16
23	BATS code with unequal error protection 2016 ,		7
22	Wireless communications with unmanned aerial vehicles: opportunities and challenges 2016 , 54, 36-42		1826
21	Bidirectional Wireless Information and Power Transfer With a Helping Relay. <i>IEEE Communications Letters</i> , 2016 , 20, 862-865	3.8	49
20	Wireless powered communication networks: an overview. <i>IEEE Wireless Communications</i> , 2016 , 23, 10-18	13.4	325
19	Wireless Information Surveillance via Proactive Eavesdropping with Spoofing Relay. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016 , 10, 1449-1461	7.5	100
18	Cyclical Multiple Access in UAV-Aided Communications: A Throughput-Delay Tradeoff. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 600-603	5.9	151
17	Optimized Training for Net Energy Maximization in Multi-Antenna Wireless Energy Transfer Over Frequency-Selective Channel. <i>IEEE Transactions on Communications</i> , 2015 , 63, 2360-2373	6.9	44
16	. <i>IEEE Wireless Communications Letters</i> , 2015 , 4, 201-204	5.9	266

15	Optimized Training Design for Wireless Energy Transfer. <i>IEEE Transactions on Communications</i> , 2015 , 63, 536-550	6.9	168
14	An Achievable Region for Double-Unicast Networks With Linear Network Coding. <i>IEEE Transactions on Communications</i> , 2014 , 62, 3621-3630	6.9	3
13	Balancing Weighted Substreams in MIMO Interference Channels. <i>IEEE Wireless Communications Letters</i> , 2014 , 3, 513-516	5.9	0
12	Electromagnetic Lens-Focusing Antenna Enabled Massive MIMO: Performance Improvement and Cost Reduction. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 1194-1206	14.2	86
11	Performance Analysis of Finite-Length Spatial-Temporal Network Coding. <i>IEEE Communications Letters</i> , 2014 , 18, 1163-1166	3.8	6
10	Electromagnetic lens-focusing antenna enabled massive MIMO 2013 ,		9
9	Optimized Transmission with Improper Gaussian Signaling in the K-User MISO Interference Channel. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 6303-6313	9.6	45
8	Sub-stream fairness and numerical correctness in MIMO interference channels 2013 ,		2
7	Improper Gaussian signaling for the K-user SISO interference channel 2013 ,		3
6	Transmit Optimization With Improper Gaussian Signaling for Interference Channels. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 2899-2913	4.8	98
5	MISO interference channel with improper Gaussian signaling 2013 ,		2
4	On the degrees of freedom of the 3-user rank-deficient MIMO interference channels 2013 ,		2
3	Improving achievable rate for the two-user SISO interference channel with improper Gaussian signaling 2012 ,		6
2	Modified Block Diagonalization Precoding in Multicell Cooperative Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3819-3824	6.8	8
1	Joint Base Station selection and linear precoding for cellular networks with multi-cell processing 2010 ,		15