

Jie Xu

List of Publications by Citations

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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.

135
papers

6,130
citations

40
h-index

76
g-index

148
ext. papers

7,893
ext. citations

6.8
avg, IF

7.1
L-index

#	Paper	IF	Citations
135	Energy Minimization for Wireless Communication With Rotary-Wing UAV. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 2329-2345	9.6	507
134	Joint Offloading and Computing Optimization in Wireless Powered Mobile-Edge Computing Systems. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 1784-1797	9.6	469
133	. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 4798-4810	4.8	326
132	UAV-Enabled Wireless Power Transfer: Trajectory Design and Energy Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 5092-5106	9.6	295
131	Real-Time Energy Storage Management for Renewable Integration in Microgrid: An Off-Line Optimization Approach. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 124-134	10.7	256
130	Online Learning for Offloading and Autoscaling in Energy Harvesting Mobile Edge Computing. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2017 , 3, 361-373	6.6	225
129	Throughput Maximization for UAV-Enabled Wireless Powered Communication Networks. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 1690-1703	10.7	178
128	Throughput Optimal Policies for Energy Harvesting Wireless Transmitters with Non-Ideal Circuit Power. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 322-332	14.2	171
127	Energy Efficiency Optimization for MIMO Broadcast Channels. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 690-701	9.6	160
126	Energy Beamforming With One-Bit Feedback. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 5370-5381	4.8	138
125	Healthchain: A Blockchain-Based Privacy Preserving Scheme for Large-Scale Health Data. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8770-8781	10.7	133
124	. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4188-4200	10.7	132
123	. <i>IEEE Journal on Selected Areas in Communications</i> , 2018 , 36, 1955-1971	14.2	130
122	Joint Power and Time Allocation for NOMA-MEC Offloading. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 6207-6211	6.8	128
121	Multi-Antenna NOMA for Computation Offloading in Multiuser Mobile Edge Computing Systems. <i>IEEE Transactions on Communications</i> , 2019 , 67, 2450-2463	6.9	122
120	Proactive Eavesdropping Via Jamming for Rate Maximization Over Rayleigh Fading Channels. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 80-83	5.9	110
119	Surveillance and Intervention of Infrastructure-Free Mobile Communications: A New Wireless Security Paradigm. <i>IEEE Wireless Communications</i> , 2017 , 24, 152-159	13.4	95

118	Joint Task Assignment and Resource Allocation for D2D-Enabled Mobile-Edge Computing. <i>IEEE Transactions on Communications</i> , 2019 , 67, 4193-4207	6.9	91
117	Proactive Eavesdropping via Cognitive Jamming in Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2790-2806	9.6	88
116	CoMP Meets Smart Grid: A New Communication and Energy Cooperation Paradigm. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 2476-2488	6.8	87
115	Secure UAV Communication With Cooperative Jamming and Trajectory Control. <i>IEEE Communications Letters</i> , 2019 , 23, 286-289	3.8	78
114	Optimal Energy Allocation and Task Offloading Policy for Wireless Powered Mobile Edge Computing Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 2443-2459	9.6	74
113	Mobile Edge Computing for Cellular-Connected UAV: Computation Offloading and Trajectory Optimization 2018 ,		74
112	A General Design Framework for MIMO Wireless Energy Transfer With Limited Feedback. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 2475-2488	4.8	72
111	Cost-aware green cellular networks with energy and communication cooperation 2015 , 53, 257-263		66
110	Joint Energy and Spectrum Cooperation for Cellular Communication Systems. <i>IEEE Transactions on Communications</i> , 2014 , 62, 3678-3691	6.9	62
109	. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 1331-1346	6.8	61
108	Optimized Multiuser Computation Offloading with Multi-Antenna NOMA 2017 ,		58
107	Cooperative Energy Trading in CoMP Systems Powered by Smart Grids. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 2142-2153	6.8	56
106	Optimal 1D Trajectory Design for UAV-Enabled Multiuser Wireless Power Transfer. <i>IEEE Transactions on Communications</i> , 2019 , 67, 5674-5688	6.9	55
105	2017 ,		54
104	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
103	A general utility optimization framework for energy-harvesting-based wireless communications 2015 , 53, 79-85		50
102	Cognitive UAV Communication via Joint Maneuver and Power Control. <i>IEEE Transactions on Communications</i> , 2019 , 67, 7872-7888	6.9	49
101	Integrated Sensing and Communications: Towards Dual-functional Wireless Networks for 6G and Beyond. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 1-1	14.2	49

100	. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 7498-7513	9.6	44
99	Exploiting Physical-Layer Security for Multiuser Multicarrier Computation Offloading. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 9-12	5.9	43
98	Design and Analysis of Relay-Selection Strategies for Two-Way Relay Network-Coded DCSK Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 1258-1271	6.8	42
97	Max-Min Fairness in IRS-Aided Multi-Cell MISO Systems With Joint Transmit and Reflective Beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 1379-1393	9.6	42
96	Multiuser MISO beamforming for simultaneous wireless information and power transfer 2013 ,		41
95	Joint offloading and computing optimization in wireless powered mobile-edge computing systems 2017 ,		40
94	An Identity Management and Authentication Scheme Based on Redactable Blockchain for Mobile Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 6688-6698	6.8	39
93	Energy Group Buying With Loading Sharing for Green Cellular Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 786-799	14.2	38
92	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
91	Multiuser MIMO Wireless Energy Transfer With Coexisting Opportunistic Communication. <i>IEEE Wireless Communications Letters</i> , 2015 , 4, 273-276	5.9	35
90	UAV-enabled multiuser wireless power transfer: Trajectory design and energy optimization 2017 ,		33
89	Joint computation and communication cooperation for mobile edge computing 2018 ,		33
88	AnFRA: Anonymous and Fast Roaming Authentication for Space Information Network. <i>IEEE Transactions on Information Forensics and Security</i> , 2019 , 14, 486-497	8	32
87	Improving energy efficiency through multimode transmission in the downlink MIMO systems. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2011 , 2011,	3.2	32
86	Fundamental Rate Limits of UAV-Enabled Multiple Access Channel With Trajectory Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 458-474	9.6	31
85	Multiantenna Wireless Powered Communication With Cochannel Energy and Information Transfer. <i>IEEE Communications Letters</i> , 2015 , 19, 2266-2269	3.8	29
84	Joint Transmit and Reflective Beamforming Design for IRS-Assisted Multiuser MISO SWIPT Systems 2020 ,		29
83	Throughput Maximization for Laser-Powered UAV Wireless Communication Systems 2018 ,		28

82	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
81	Placement Optimization for UAV-Enabled Wireless Networks with Multi-Hop Backhauls. <i>Journal of Communications and Information Networks</i> , 2018 , 3, 64-73		28
80	Capacity Region of MISO Broadcast Channel for Simultaneous Wireless Information and Power Transfer. <i>IEEE Transactions on Communications</i> , 2015 , 63, 3856-3868	6.9	27
79	Joint Task Assignment and Wireless Resource Allocation for Cooperative Mobile-Edge Computing 2018 ,		27
78	Cognitive UAV Communication via Joint Trajectory and Power Control 2018 ,		26
77	Wireless Powered Sensor Networks: Collaborative Energy Beamforming Considering Sensing and Circuit Power Consumption. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 344-347	5.9	25
76	UAV-Enabled Wireless Power Transfer with Directional Antenna: A Two-User Case (Invited Paper) 2018 ,		25
75	Trajectory Design for UAV-Enabled Multiuser Wireless Power Transfer With Nonlinear Energy Harvesting. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 1105-1121	9.6	24
74	Wireless Powered User Cooperative Computation in Mobile Edge Computing Systems 2018 ,		21
73	Real-Time Resource Allocation for Wireless Powered Multiuser Mobile Edge Computing With Energy and Task Causality. <i>IEEE Transactions on Communications</i> , 2020 , 68, 7140-7155	6.9	19
72	Over-the-Air Computing for Wireless Data Aggregation in Massive IoT. <i>IEEE Wireless Communications</i> , 2021 , 28, 57-65	13.4	19
71	Secrecy Transmission in Large-Scale UAV-Enabled Wireless Networks. <i>IEEE Transactions on Communications</i> , 2019 , 67, 7656-7671	6.9	17
70	Capacity of UAV-Enabled Multicast Channel: Joint Trajectory Design and Power Allocation 2018 ,		17
69	PSAP: Pseudonym-Based Secure Authentication Protocol for NFC Applications. <i>IEEE Transactions on Consumer Electronics</i> , 2018 , 64, 83-91	4.8	16
68	Optimal Resource Allocation for Wireless Powered Mobile Edge Computing with Dynamic Task Arrivals 2019 ,		15
67	Optimal Task Offloading Scheduling for Energy Efficient D2D Cooperative Computing. <i>IEEE Communications Letters</i> , 2019 , 23, 1816-1820	3.8	14
66	Energy-efficient scheduling with individual packet delay constraints and non-ideal circuit power. <i>Journal of Communications and Networks</i> , 2014 , 16, 36-44	4.1	14
65	Proactive Eavesdropping via Jamming over HARQ-Based Communications 2017 ,		14

64	Cooperative energy trading in CoMP systems powered by smart grids 2014 ,		14
63	Radio-Map-Based Robust Positioning Optimization for UAV-Enabled Wireless Power Transfer. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 179-183	5.9	14
62	2020 ,		14
61	Fundamental Rate Limits of Physical Layer Spoofing. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 154-157	3.5	13
60	Joint 3D Maneuver and Power Adaptation for Secure UAV Communication With CoMP Reception. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 6992-7006	9.6	13
59	Exploiting Interference for Secrecy Wireless Information and Power Transfer. <i>IEEE Wireless Communications</i> , 2018 , 25, 133-139	13.4	12
58	Transmit Optimization for Symbol-Level Spoofing. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 41-55	9.6	12
57	A survey of prototype and experiment for UAV communications. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	12
56	Positioning Optimization for Sum-Rate Maximization in UAV-Enabled Interference Channel. <i>IEEE Signal Processing Letters</i> , 2019 , 26, 1466-1470	3.2	11
55	Energy beamforming with one-bit feedback 2014 ,		11
54	Area Power Consumption in a Single Cell Assisted by Relays 2010 ,		11
53	Proactive eavesdropping via cognitive jamming in fading channels 2016 ,		10
52	UAV-Enabled Cellular Networks with Multi-Hop Backhubs: Placement optimization and Wireless Resource Allocation 2018 ,		10
51	Throughput Maximization for UAV-Enabled Wireless Powered Communication Networks - Invited Paper 2018 ,		9
50	Online Maneuver Design for UAV-Enabled NOMA Systems via Reinforcement Learning 2020 ,		9
49	Cooperative Interference Management for Over-the-Air Computation Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 2634-2651	9.6	9
48	Energy efficient iterative waterfilling for the MIMO broadcasting channels 2012 ,		8
47	Hybrid Beamforming for Massive MIMO Over-the-Air Computation. <i>IEEE Transactions on Communications</i> , 2021 , 69, 2737-2751	6.9	8

46	UAV-Enabled Wireless Power Transfer: A Tutorial Overview. <i>IEEE Transactions on Green Communications and Networking</i> , 2021 , 1-1	4	8
45	Optimized Power Control Design for Over-the-Air Federated Edge Learning. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 40, 342-358	14.2	7
44	Resource Rationing for Wireless Federated Learning: Concept, Benefits, and Challenges. <i>IEEE Communications Magazine</i> , 2021 , 59, 82-87	9.1	7
43	UAV-Enabled Data Collection for Wireless Sensor Networks with Distributed Beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	7
42	Adaptive Mode Switching for Cognitive Wireless Powered Communication Systems. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 386-389	5.9	6
41	Improving network energy efficiency through cooperative idling in the multi-cell systems. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2011 , 2011,	3.2	6
40	Optimal Power Control for Over-the-Air Computation 2019 ,		6
39	3D Trajectory Optimization for Secure UAV Communication with CoMP Reception 2019 ,		6
38	Time-Division Energy Beamforming for Multiuser Wireless Power Transfer With Non-Linear Energy Harvesting. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 53-57	5.9	6
37	Rotary-Wing UAV Enabled Wireless Network: Trajectory Design and Resource Allocation 2018 ,		6
36	Heterogeneous access class barring with QoS guarantee in machine-type communications. <i>Transactions on Emerging Telecommunications Technologies</i> , 2017 , 28, e2959	1.9	5
35	UAV-Enabled Broadcast Channel: Trajectory Design and Capacity Characterization 2018 ,		5
34	Progressive Linear Precoder Optimization for ARQ Packet Retransmissions in Nonregenerative MIMO Relay Systems. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 68-81	4.8	5
33	Energy efficient coordinated beamforming for multi-cell MISO systems 2013 ,		5
32	Cooperative Trajectory Design and Resource Allocation for a Two-UAV Two-User Wireless Powered Communication System 2018 ,		5
31	Comment on Optimal Precoding for a QoS Optimization Problem in Two-User MISO-NOMA Downlink <i>IEEE Communications Letters</i> , 2017 , 21, 2109-2111	3.8	4
30	Secrecy Transmission Capacity of Large-Scale UAV-Enabled Wireless Networks 2019 ,		4
29	Robust ARQ Precoder Optimization for AF MIMO Relay Systems with Channel Estimation Errors. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 5236-5247	9.6	4

28	Robust Multimode Selection in the Downlink Multiuser MIMO Channels with Delayed CSIT 2011 ,		4
27	Transmission Power Control for Over-the-Air Federated Averaging at Network Edge. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 1-1	14.2	4
26	Optimized Amplify-and-Forward Relaying for Hierarchical Over-the-Air Computation 2020 ,		4
25	User Grouping and Reflective Beamforming for IRS-Aided URLLC. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9	4
24	Energy efficient downlink MIMO transmission with linear precoding. <i>Science China Information Sciences</i> , 2013 , 56, 1-12	3.4	3
23	Optimal energy and spectrum sharing for cooperative cellular systems 2014 ,		3
22	Unconditionally positivity preserving and energy dissipative schemes for Poisson-Boltzmann equations. <i>Numerische Mathematik</i> , 2021 , 148, 671-697	2.2	3
21	Harnessing Self-Interference in Full-Duplex Relaying: An Analog Filter-and-Forward Approach 2016 ,		3
20	Optimal Computation and Spectrum Resource Sharing in Cooperative Mobile Edge Computing Systems : (Invited Paper) 2018 ,		3
19	Capacity region of MISO broadcast channel with SWIPT 2015 ,		2
18	An energy efficient semi-static power control and link adaptation scheme in UMTS HSDPA. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012 , 2012,	3.2	2
17	Energy Efficiency optimization for two-way relay channels 2013 ,		2
16	Wireless surveillance of two-hop communications : (Invited paper) 2017 ,		2
15	General liquid-crystal theory for anisotropically shaped molecules: Symmetry, orientational order parameters, and system free energy. <i>Physical Review E</i> , 2020 , 102, 062701	2.4	1
14	A Linear Processing Scheme in Multiuser Downlink MIMO Broadcasting Channel with Fixed Relays. <i>IEICE Transactions on Communications</i> , 2009 , E92-B, 679-682	0.5	1
13	Optimized Power Control for Over-the-Air Federated Edge Learning 2021 ,		1
12	2019 ,		1
11	Transmit beamforming for simultaneous wireless information and power transfer 2018 , 479-506		1

10	UAV-Enabled Wireless Power Transfer 2020 , 399-416		0
9	Cellular-Connected UAV with Adaptive Air-to-Ground Interference Cancellation and Trajectory Optimization. <i>IEEE Communications Letters</i> , 2022 , 1-1	3.8	0
8	Cost-Aware Cellular Networks Powered by Smart Grids and Energy Harvesting 271-288		
7	Multi-antenna Energy Beamforming for SWIPT 2018 , 81-97		
6	Power Allocation for Point-to-Point Energy Harvesting Channels 2018 , 5-73		
5	Cost-Aware Design for Energy Harvesting Powered Cellular Networks 2018 , 203-238		
4	Wireless-Powered Mobile Edge Computing Systems 2018 , 253-271		
3	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	
2	Guest Editorial Special Issue on Integrated Sensing and Communication Part I. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 40, 1723-1727	14.2	
1	User Association and Resource Allocation for MEC-Enabled IoT Networks. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	