Jun Zhang

List of Publications by Year
in descending order

67 papers	2,764 citations	394421 19 h-index	175258 52 g-index
67 all docs	67 docs citations	67 times ranked	3012 citing authors

#	Article	IF	Citations
1	Dynamic Computation Offloading for Mobile-Edge Computing With Energy Harvesting Devices. IEEE Journal on Selected Areas in Communications, 2016, 34, 3590-3605.	14.0	1,285
2	A Deep Learning Framework for Optimization of MISO Downlink Beamforming. IEEE Transactions on Communications, 2020, 68, 1866-1880.	7.8	171
3	On Capacity of Large-Scale MIMO Multiple Access Channels with Distributed Sets of Correlated Antennas. IEEE Journal on Selected Areas in Communications, 2013, 31, 133-148.	14.0	156
4	Graph Neural Networks for Scalable Radio Resource Management: Architecture Design and Theoretical Analysis. IEEE Journal on Selected Areas in Communications, 2021, 39, 101-115.	14.0	105
5	Multicell Multiuser Massive MIMO Transmission With Downlink Training and Pilot Contamination Precoding. IEEE Transactions on Vehicular Technology, 2016, 65, 6301-6314.	6.3	80
6	Large System Secrecy Rate Analysis for SWIPT MIMO Wiretap Channels. IEEE Transactions on Information Forensics and Security, 2016, 11, 74-85.	6.9	79
7	Large System Analysis of Cooperative Multi-Cell Downlink Transmission via Regularized Channel Inversion with Imperfect CSIT. IEEE Transactions on Wireless Communications, 2013, 12, 4801-4813.	9.2	62
8	Large System Analysis of Cognitive Radio Network via Partially-Projected Regularized Zero-Forcing Precoding. IEEE Transactions on Wireless Communications, 2015, 14, 4934-4947.	9.2	58
9	Joint Beamforming and Power Allocation for UAV-Enabled Full-Duplex Relay. IEEE Transactions on Vehicular Technology, 2019, 68, 1657-1671.	6.3	58
10	Large System Achievable Rate Analysis of RIS-Assisted MIMO Wireless Communication With Statistical CSIT. IEEE Transactions on Wireless Communications, 2021, 20, 5572-5585.	9.2	56
11	Energy-Efficient Downlink Transmission for Multicell Massive DAS With Pilot Contamination. IEEE Transactions on Vehicular Technology, 2017, 66, 1209-1221.	6.3	46
12	Placement optimization of caching UAV-assisted mobile relay maritime communication. China Communications, 2020, 17, 209-219.	3.2	46
13	DFT-Based Hybrid Beamforming Multiuser Systems: Rate Analysis and Beam Selection. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 514-528.	10.8	41
14	Optimal QoS-Aware Channel Assignment in D2D Communications With Partial CSI. IEEE Transactions on Wireless Communications, 2016, 15, 7594-7609.	9.2	38
15	Programmable Hierarchical C-RAN: From Task Scheduling to Resource Allocation. IEEE Transactions on Wireless Communications, 2019, 18, 2003-2016.	9.2	37
16	On the Sum-Rate of RIS-Assisted MIMO Multiple-Access Channels Over Spatially Correlated Rician Fading. IEEE Transactions on Communications, 2021, 69, 8228-8241.	7.8	34
17	Throughput Optimization With Delay Guarantee for Massive Random Access of M2M Communications in Industrial IoT. IEEE Internet of Things Journal, 2019, 6, 10077-10092.	8.7	30
18	Online Client Scheduling for Fast Federated Learning. IEEE Wireless Communications Letters, 2021, 10, 1434-1438.	5.0	28

#	Article	IF	Citations
19	Mobile Edge Cloud-Based Industrial Internet of Things: Improving Edge Intelligence With Hierarchical SDN Controllers. IEEE Vehicular Technology Magazine, 2020, 15, 36-45.	3.4	27
20	Power Minimization-Based Joint Task Scheduling and Resource Allocation in Downlink C-RAN. IEEE Transactions on Wireless Communications, 2018, 17, 7268-7280.	9.2	20
21	Random sketch learning for deep neural networks in edge computing. Nature Computational Science, 2021, 1, 221-228.	8.0	19
22	Large System Analysis of Resource Allocation in Heterogeneous Networks With Wireless Backhaul. IEEE Transactions on Communications, 2017, 65, 5040-5053.	7.8	15
23	Deep Learning Based Beamforming Neural Networks in Downlink MISO Systems. , 2019, , .		15
24	Distributed Green Offloading and Power Optimization in Virtualized Small Cell Networks With Mobile Edge Computing. IEEE Transactions on Green Communications and Networking, 2020, 4, 69-82.	5.5	15
25	Fast Randomized-MUSIC for Mm-Wave Massive MIMO Radars. IEEE Transactions on Vehicular Technology, 2021, 70, 1952-1956.	6.3	14
26	Joint Optimization of Fronthaul Compression and Bandwidth Allocation in Uplink H-CRAN With Large System Analysis. IEEE Transactions on Communications, 2018, 66, 6556-6569.	7.8	13
27	Joint Scheduling and Deep Learning-Based Beamforming for FD-MIMO Systems Over Correlated Rician Fading. IEEE Access, 2019, 7, 118297-118309.	4.2	12
28	Transmitter Design for Large Intelligent Surface-Assisted MIMO Wireless Communication with Statistical CSI. , 2020, , .		12
29	Fast Pseudospectrum Estimation for Automotive Massive MIMO Radar. IEEE Internet of Things Journal, 2021, 8, 15303-15316.	8.7	12
30	On Sparse Vector Recovery Performance in Structurally Orthogonal Matrices via LASSO. IEEE Transactions on Signal Processing, 2016, 64, 4519-4533.	5.3	11
31	Distributive Throughput Optimization for Massive Random Access of M2M Communications in LTE Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 11828-11840.	6.3	11
32	Altitude and number optimisation for UAVâ€enabled wireless communications. IET Communications, 2020, 14, 1228-1233.	2.2	11
33	Bandwidth Allocation in Heterogeneous Networks with Wireless Backhaul. , 2016, , .		10
34	Adaptive Power Allocation for Wireless-Powered FD-NOMA System With Cooperation Versus Non-Cooperation. IEEE Transactions on Vehicular Technology, 2021, 70, 10395-10408.	6.3	9
35	Dynamic Client Association for Energy-Aware Hierarchical Federated Learning. , 2021, , .		9
36	Downlink Coverage Performance Analysis of UAV Assisted Terrestrial Cellular Networks. , 2019, , .		8

#	Article	IF	Citations
37	A Unified Framework for Distributed RIS-Aided Downlink Systems Between MIMO-NOMA and MIMO-SDMA. IEEE Transactions on Communications, 2022, 70, 6310-6324.	7.8	8
38	The interplay between artificial intelligence and fog radio access networks. China Communications, 2020, 17, 1-13.	3.2	7
39	Randomized Approximate Channel Estimator in Massive-MIMO Communication. IEEE Communications Letters, 2020, 24, 2314-2318.	4.1	7
40	Ultra-Fast Accurate AoA Estimation via Automotive Massive-MIMO Radar. IEEE Transactions on Vehicular Technology, 2022, 71, 1172-1186.	6.3	7
41	Large System Analysis of Downlink MISO-NOMA System via Regularized Zero-Forcing Precoding With Imperfect CSIT. IEEE Communications Letters, 2020, 24, 2454-2458.	4.1	6
42	Small-Cell Sleeping and Association for Energy-Harvesting-Aided Cellular IoT With Full-Duplex Self-Backhauls: A Game-Theoretic Approach. IEEE Internet of Things Journal, 2022, 9, 2304-2318.	8.7	6
43	Fuzzy Matching Learning for Dynamic Resource Allocation in Cellular V2X Network. IEEE Transactions on Vehicular Technology, 2021, 70, 3479-3492.	6.3	6
44	Resource Allocation by Submodular Optimization in Programmable Hierarchical C-RAN. , 2018, , .		5
45	Energy-efficient task scheduling and resource allocation in downlink C-RAN. , 2018, , .		5
46	Computation Offloading and Resource Allocation for MEC in C-RAN: A Deep Reinforcement Learning Approach. , 2019, , .		5
47	Backhaul-Aware Resource Allocation and Optimum Placement for UAV-Assisted Wireless Communication Network. Electronics (Switzerland), 2020, 9, 1397.	3.1	5
48	On achievable rate of massive MIMO multiple access channels via virtual representation. Physical Communication, 2016, 20, 133-140.	2.1	4
49	Model-Driven Deep Learning-Based MIMO-OFDM Detector: Design, Simulation, and Experimental Results. IEEE Transactions on Communications, 2022, 70, 5193-5207.	7.8	4
50	Energy Efficiency of Downlink C-RAN With Edge Caching and Fronthaul Compression. IEEE Communications Letters, 2018, 22, 2527-2530.	4.1	3
51	The Optimal Placement for Caching UAV-assisted Mobile Relay Communication. , 2019, , .		3
52	Large system analysis of downlink C-RAN with phase noise and fronthaul compression. China Communications, 2019, 16, 58-71.	3.2	3
53	Joint Multioperator Virtual Network Sharing and Caching in Energy Harvesting-Aided Environmental Internet of Things. IEEE Internet of Things Journal, 2020, 7, 7689-7701.	8.7	3
54	Intelligent reflecting surface-assisted secrecy wireless communication with imperfect CSI. Physical Communication, 2021, 44, 101235.	2.1	3

#	Article	IF	Citations
55	Wireless Energy Transfer in Extra-Large Massive MIMO Rician Channels. IEEE Transactions on Wireless Communications, 2021, 20, 5628-5641.	9.2	3
56	Resource Allocation and 3D Deployment of UAVs-Assisted MEC Network with Air-Ground Cooperation. Sensors, 2022, 22, 2590.	3.8	3
57	Wireless-Powered Cell-Free Massive MIMO With Superimposed Pilot Transmission. IEEE Communications Letters, 2022, 26, 1688-1692.	4.1	3
58	Achieving optimum throughput for LTE and WiFi coexistence. , 2017, , .		2
59	Edge Caching and Resource Allocation Scheme of Downlink Cloud Radio Access Networks With Fronthaul Compression. IEEE Access, 2019, 7, 118669-118678.	4.2	2
60	Subspace methods for self-calibration of ULAs with unknown mutual coupling: A false-peak analysis. Signal Processing, 2020, 174, 107626.	3.7	2
61	Latency optimization for D2D-enabled parallel mobile edge computing in cellular networks. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	2.4	2
62	User Association Algorithm of Downlink C-RANs with Edge Caching and Fronthaul Compression. , 2019, , .		1
63	Priority-Based Massive Random Access of M2M Communications in LTE Networks: Throughput Analysis and optimization. , 2019, , .		1
64	Joint precoder and decoder design in downlink multi-user MIMO C-RAN with imperfect CSI. Physical Communication, 2021, 48, 101406.	2.1	1
65	Downlink Wideband Channel Estimation for Asymmetrical Full-Digital System. IEEE Wireless Communications Letters, 2022, 11, 1830-1834.	5.0	1
66	Blind Pilot Decontamination With Hierarchical Design. IEEE Communications Letters, 2019, 23, 1791-1795.	4.1	0
67	Power-Efficient Communication for UAV-Enabled Mobile Relay System. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 95-103.	0.3	0