Jun Zhang

List of Publications by Year in descending order

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		61984	82547
168	15,524	43	72
papers	citations	h-index	g-index
172	172	172	9291
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Towards Dependency-Aware Cache Management for Data Analytics Applications. IEEE Transactions on Cloud Computing, 2022, 10, 706-723.	4.4	O
2	Dependency-Aware Computation Offloading for Mobile Edge Computing With Edge-Cloud Cooperation. IEEE Transactions on Cloud Computing, 2022, 10, 2451-2468.	4.4	32
3	CSEdge: Enabling Collaborative Edge Storage for Multi-Access Edge Computing Based on Blockchain. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 1873-1887.	5.6	55
4	Faster Activity and Data Detection in Massive Random Access: A Multiarmed Bandit Approach. IEEE Internet of Things Journal, 2022, 9, 13664-13678.	8.7	8
5	Learning Task-Oriented Communication for Edge Inference: An Information Bottleneck Approach. IEEE Journal on Selected Areas in Communications, 2022, 40, 197-211.	14.0	45
6	Learn to Communicate With Neural Calibration: Scalability and Generalization. IEEE Transactions on Wireless Communications, 2022, 21, 9947-9961.	9.2	4
7	Data-Importance Aware User Scheduling for Communication-Efficient Edge Machine Learning. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 265-278.	7.9	33
8	Long-term optimization for MEC-enabled HetNets with device–edge–cloud collaboration. Computer Communications, 2021, 166, 66-80.	5.1	11
9	Wireless Data Acquisition for Edge Learning: Data-Importance Aware Retransmission. IEEE Transactions on Wireless Communications, 2021, 20, 406-420.	9.2	21
10	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
11	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
12	Blind Data Detection in Massive MIMO via â, "â, f-Norm Maximization Over the Stiefel Manifold. IEEE Transactions on Wireless Communications, 2021, 20, 1411-1424.	9.2	5
13	Dynamic Client Association for Energy-Aware Hierarchical Federated Learning. , 2021, , .		9
14	Branchy-GNN: A Device-Edge Co-Inference Framework for Efficient Point Cloud Processing., 2021,,.		14
15	Latency optimization for D2D-enabled parallel mobile edge computing in cellular networks. Eurasip Journal on Wireless Communications and Networking, 2021, 2021, .	2.4	2
16	Partially-Connected Hybrid Beamforming for Spectral Efficiency Maximization via a Weighted MMSE Equivalence. IEEE Transactions on Wireless Communications, 2021, 20, 8218-8232.	9.2	21
17	Al Empowered Resource Management for Future Wireless Networks. , 2021, , .		9
18	Optimal Task Allocation Policy for Energy Efficient D2D-enabled Mobile Edge Computing. , 2021, , .		1

#	Article	lF	Citations
19	Decentralized Statistical Inference with Unrolled Graph Neural Networks., 2021,,.		3
20	Communication-Computation Efficient Device-Edge Co-Inference via AutoML., 2021,,.		1
21	Achieving Load-Balanced, Redundancy-Free Cluster Caching with Selective Partition. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 439-454.	5.6	7
22	LORM: Learning to Optimize for Resource Management in Wireless Networks With Few Training Samples. IEEE Transactions on Wireless Communications, 2020, 19, 665-679.	9.2	77
23	Mobile Edge Intelligence and Computing for the Internet of Vehicles. Proceedings of the IEEE, 2020, 108, 246-261.	21.3	279
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	A Deep Learning Framework for Optimization of MISO Downlink Beamforming. IEEE Transactions on Communications, 2020, 68, 1866-1880.	7.8	171
26	Hybrid Beamforming for 5G and Beyond Millimeter-Wave Systems: A Holistic View. IEEE Open Journal of the Communications Society, 2020, 1, 77-91.	6.9	84
27	BottleNet++: An End-to-End Approach for Feature Compression in Device-Edge Co-Inference Systems. , 2020, , .		74
28	Client-Edge-Cloud Hierarchical Federated Learning. , 2020, , .		347
29	Exploiting Diversity Via Importance-Aware User Scheduling for Fast Edge Learning. , 2020, , .		0
30	Bandit Sampling for Faster Activity and Data Detection in Massive Random Access., 2020, , .		4
31	Millimeter-Wave Full-Duplex UAV Relay: Joint Positioning, Beamforming, and Power Control. IEEE Journal on Selected Areas in Communications, 2020, 38, 2057-2073.	14.0	105
32	Edge Intelligence for Mission Cognitive Wireless Emergency Networks. IEEE Wireless Communications, 2020, 27, 103-109.	9.0	7
33	Communication-Efficient Edge Al: Algorithms and Systems. IEEE Communications Surveys and Tutorials, 2020, 22, 2167-2191.	39.4	200
34	Toward an Intelligent Edge: Wireless Communication Meets Machine Learning. IEEE Communications Magazine, 2020, 58, 19-25.	6.1	336
35	Low-overhead Communications in IoT Networks. , 2020, , .		7
36	Communication-Computation Trade-off in Resource-Constrained Edge Inference. IEEE Communications Magazine, 2020, 58, 20-26.	6.1	60

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37	A Low-Complexity Algorithmic Framework for Large-Scale IRS-Assisted Wireless Systems. , 2020, , .		8
38	Deep Learning-based Prediction of Traffic Accident Risk in Vehicular Networks. , 2020, , .		1
39	Sparse Linear Model. , 2020, , 13-34.		0
40	Network MIMO. , 2020, , 983-986.		0
41	The Roadmap to 6G: Al Empowered Wireless Networks. IEEE Communications Magazine, 2019, 57, 84-90.	6.1	1,139
42	A Tractable Framework for Coverage Analysis of Cellular-Connected UAV Networks. , 2019, , .		9
43	Coordinated Fronthaul Data Assignment and Multicast Beamforming for Cache-Enabled Wireless Networks. IEEE Wireless Communications Letters, 2019, 8, 1082-1085.	5.0	3
44	Transfer Learning for Mixed-Integer Resource Allocation Problems in Wireless Networks., 2019,,.		20
45	Wireless Data Acquisition for Edge Learning: Importance-Aware Retransmission. , 2019, , .		14
46	An Analytical Framework for Multi-Antenna Wireless Networks. , 2019, , 37-84.		0
47	Analysis of Multi-Antenna Wireless Networks. , 2019, , 85-125.		0
48	Stochastic Geometry Analysis of Multi-Antenna Wireless Networks. , 2019, , .		6
49	Optimization of Multi-Antenna Wireless Networks. , 2019, , 127-167.		O
50	A Graph Neural Network Approach for Scalable Wireless Power Control. , 2019, , .		45
51	LACS: Load-Aware Cache Sharing with Isolation Guarantee. , 2019, , .		O
52	Connectivity-Aware UAV Path Planning with Aerial Coverage Maps. , 2019, , .		14
53	Joint Activity Detection and Channel Estimation for IoT Networks: Phase Transition and Computation-Estimation Tradeoff. IEEE Internet of Things Journal, 2019, 6, 6212-6225.	8.7	41
54	Hybrid Beamforming for Millimeter Wave Systems Using the MMSE Criterion. IEEE Transactions on Communications, 2019, 67, 3693-3708.	7.8	148

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55	A Hardware-Efficient Analog Network Structure for Hybrid Precoding in Millimeter Wave Systems. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 282-297.	10.8	78
56	Massive CSI Acquisition for Dense Cloud-RANs With Spatial-Temporal Dynamics. IEEE Transactions on Wireless Communications, 2018, 17, 2557-2570.	9.2	9
57	Enhanced Group Sparse Beamforming for Green Cloud-RAN: A Random Matrix Approach. IEEE Transactions on Wireless Communications, 2018, 17, 2511-2524.	9.2	18
58	Communication, Computing, and Learning on the Edge. , 2018, , .		5
59	SP-Cache: Load-Balanced, Redundancy-Free Cluster Caching with Selective Partition. , 2018, , .		13
60	SCALABLE NETWORK ADAPTATION FOR CLOUD-RANS: AN IMITATION LEARNING APPROACH. , 2018, , .		3
61	A Unified Framework for the Tractable Analysis of Multi-Antenna Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 7965-7980.	9.2	21
62	Joint Device Caching and Channel Allocation for D2D-Assisted Wireless Content Delivery. , 2018, , .		1
63	Exploiting Mobility in Cache-Assisted D2D Networks: Performance Analysis and Optimization. IEEE Transactions on Wireless Communications, 2018, 17, 5592-5605.	9.2	33
64	OpuS: Fair and Efficient Cache Sharing for In-Memory Data Analytics. , 2018, , .		4
65	Generalized Sparse and Low-Rank Optimization for Ultra-Dense Networks. , 2018, 56, 42-48.		36
66	Network MIMO. , 2018, , 1-4.		0
67	Joint Task Offloading Scheduling and Transmit Power Allocation for Mobile-Edge Computing Systems. , 2017, , .		167
68	Coverage Analysis for Millimeter Wave Networks: The Impact of Directional Antenna Arrays. IEEE Journal on Selected Areas in Communications, 2017, 35, 1498-1512.	14.0	164
69	High-Dimensional CSI Acquisition in Massive MIMO: Sparsity-Inspired Approaches. IEEE Systems Journal, 2017, 11, 32-40.	4.6	31
70	Joint Fronthaul Multicast Beamforming and User-Centric Clustering in Downlink C-RANs. IEEE Transactions on Wireless Communications, 2017, 16, 5395-5409.	9.2	39
71	Mobility-Aware Caching in D2D Networks. IEEE Transactions on Wireless Communications, 2017, 16, 5001-5015.	9.2	136
72	A tractable framework for performance analysis of dense multi-antenna networks. , 2017, , .		6

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73	Mobility increases the data offloading ratio in D2D caching networks. , 2017, , .		16
74	Stochastic Joint Radio and Computational Resource Management for Multi-User Mobile-Edge Computing Systems. IEEE Transactions on Wireless Communications, 2017, 16, 5994-6009.	9.2	530
75	Hybrid Precoding in Millimeter Wave Systems: How Many Phase Shifters Are Needed?., 2017,,.		13
76	Cache Placement in Fog-RANs: From Centralized to Distributed Algorithms. IEEE Transactions on Wireless Communications, 2017, 16, 7039-7051.	9.2	123
77	A Survey on Mobile Edge Computing: The Communication Perspective. IEEE Communications Surveys and Tutorials, 2017, 19, 2322-2358.	39.4	3,379
78	LRC: Dependency-aware cache management for data analytics clusters. , 2017, , .		31
79	Layered Group Sparse Beamforming for Cache-Enabled Green Wireless Networks. IEEE Transactions on Communications, 2017, 65, 5589-5603.	7.8	29
80	Partially-connected hybrid precoding in mm-wave systems with dynamic phase shifter networks. , 2017,		16
81	Incentive mechanism design for cache-assisted D2D communications: A mobility-aware approach. , 2017, , .		11
82	Multi-objective resource allocation for mobile edge computing systems. , 2017, , .		20
83	LERC: Coordinated Cache Management for Data-Parallel Systems. , 2017, , .		6
84	Massive CSI acquisition in dense cloud-RAN with spatial and temporal prior information. , 2017, , .		3
85	Statistical group sparse beamforming for green Cloud-RAN via large system analysis. , 2016, , .		2
86	Joint Subcarrier and CPU Time Allocation for Mobile Edge Computing. , 2016, , .		133
87	Power-Delay Tradeoff in Multi-User Mobile-Edge Computing Systems. , 2016, , .		224
88	ARQ with adaptive feedback for energy harvesting receivers. , 2016, , .		4
89	Alternating minimization for hybrid precoding in multiuser OFDM mmWave systems. , 2016, , .		30
90	Cache size allocation in backhaul limited wireless networks. , 2016, , .		26

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91	Low-Rank Matrix Completion for Topological Interference Management by Riemannian Pursuit. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	37
92	QoS-aware joint mode selection and channel assignment for D2D communications. , 2016, , .		17
93	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
94	Selective uplink training for massive MIMO systems. , 2016, , .		10
95	Mobility-aware caching for content-centric wireless networks: modeling and methodology. , 2016, 54, 77-83.		158
96	Optimal QoS-Aware Channel Assignment in D2D Communications With Partial CSI. IEEE Transactions on Wireless Communications, 2016, 15, 7594-7609.	9.2	38
97	Delay-optimal computation task scheduling for mobile-edge computing systems. , 2016, , .		540
98	Coverage analysis for dense millimeter wave cellular networks: The impact of array size. , 2016, , .		9
99	Content caching at the wireless network edge: A distributed algorithm via belief propagation. , 2016, , .		51
100	A low-rank approach for interference management in dense wireless networks. , 2016, , .		0
101	Optimal stochastic power control with compressive CSI acquisition for Cloud-RAN., 2016,,.		0
102	Smoothed -Minimization for Green Cloud-RAN With User Admission Control. IEEE Journal on Selected Areas in Communications, 2016, 34, 1022-1036.	14.0	62
103	Alternating Minimization Algorithms for Hybrid Precoding in Millimeter Wave MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 485-500.	10.8	907
104	Transmit Power Minimization for Wireless Networks With Energy Harvesting Relays. IEEE Transactions on Communications, 2016, 64, 987-1000.	7.8	19
105	Grid Energy Consumption and QoS Tradeoff in Hybrid Energy Supply Wireless Networks. IEEE Transactions on Wireless Communications, 2016, 15, 3573-3586.	9.2	24
106	Success Probability and Area Spectral Efficiency in Multiuser MIMO HetNets. IEEE Transactions on Communications, 2016, 64, 1544-1556.	7.8	81
107	Compressed CSI Acquisition in FDD Massive MIMO: How Much Training is Needed?. IEEE Transactions on Wireless Communications, 2016, 15, 4145-4156.	9.2	77
108	QoS-Aware Channel Assignment for Weighted Sum-Rate Maximization in D2D Communications. , 2015, , .		12

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109	Hybrid Precoding Design in Millimeter Wave MIMO Systems: An Alternating Minimization Approach., 2015,,.		14
110	Backhaul-Aware Caching Placement for Wireless Networks. , 2015, , .		51
111	Energy harvesting small cell networks: feasibility, deployment, and operation. , 2015, 53, 94-101.		100
112	Robust Group Sparse Beamforming for Multicast Green Cloud-RAN With Imperfect CSI. IEEE Transactions on Signal Processing, 2015, 63, 4647-4659.	5.3	59
113	Low-rank matrix completion via Riemannian pursuit for topological interference management. , 2015, , .		13
114	Optimal Stochastic Coordinated Beamforming for Wireless Cooperative Networks With CSI Uncertainty. IEEE Transactions on Signal Processing, 2015, 63, 960-973.	5.3	46
115	Downlink User Capacity of Massive MIMO Under Pilot Contamination. IEEE Transactions on Wireless Communications, 2015, 14, 3183-3193.	9.2	7 5
116	User-Centric Intercell Interference Nulling for Downlink Small Cell Networks. IEEE Transactions on Communications, 2015, 63, 1419-1431.	7.8	90
117	A Lyapunov Optimization Approach for Green Cellular Networks With Hybrid Energy Supplies. IEEE Journal on Selected Areas in Communications, 2015, 33, 2463-2477.	14.0	95
118	Joint base station assignment and power control in hybrid energy supply wireless networks. , 2015, , .		0
119	Large-Scale Convex Optimization for Dense Wireless Cooperative Networks. IEEE Transactions on Signal Processing, 2015, 63, 4729-4743.	5.3	97
120	Large-scale convex optimization for ultra-dense cloud-RAN. IEEE Wireless Communications, 2015, 22, 84-91.	9.0	88
121	Analysis of area spectral efficiency and link reliability in multiuser MIMO HetNets., 2015,,.		13
122	Compressed CSI acquisition in FDD massive MIMO with partial support information., 2015,,.		10
123	Joint link selection and relay power allocation for energy harvesting relaying systems. , 2014, , .		14
124	Location-aware spectrum sharing in cognitive radio networks & mp; #x2014; A semi-matching approach. , 2014, , .		1
125	Scalable coordinated beamforming for dense wireless cooperative networks. , 2014, , .		17
126	Average throughput analysis of downlink cellular networks with multi-antenna base stations. , 2014, , .		5

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127	User-centric intercell interference coordination in small cell networks., 2014,,.		13
128	User capacity of pilot-contaminated TDD massive MIMO systems. , 2014, , .		6
129	Achieving energy diversity with multiple energy harvesting relays. , 2014, , .		7
130	Throughput and Energy Efficiency Analysis of Small Cell Networks with Multi-Antenna Base Stations. IEEE Transactions on Wireless Communications, 2014, 13, 2505-2517.	9.2	200
131	Beamforming for small cell deployment in LTE-advanced and beyond. IEEE Wireless Communications, 2014, 21, 50-56.	9.0	46
132	Group Sparse Beamforming for Green Cloud-RAN. IEEE Transactions on Wireless Communications, 2014, 13, 2809-2823.	9.2	381
133	CSI overhead reduction with stochastic beamforming for cloud radio access networks. , 2014, , .		33
134	Coordinated 3D Beamforming for Interference Management in Cellular Networks. IEEE Transactions on Wireless Communications, 2014, 13, 5396-5410.	9.2	50
135	Joint data assignment and beamforming for backhaul limited caching networks. , 2014, , .		50
136	Optimal Scheduling and Power Allocation for Two-Hop Energy Harvesting Communication Systems. IEEE Transactions on Wireless Communications, 2013, 12, 4729-4741.	9.2	134
137	A Unified Energy Efficiency and Spectral Efficiency Tradeoff Metric in Wireless Networks. IEEE Communications Letters, 2013, 17, 55-58.	4.1	87
138	Relay selection for energy harvesting cooperative communication systems. , 2013, , .		23
139	Residential demand response with power adjustable and unadjustable appliances in smart grid. , 2013, , .		2
140	Throughput maximization for two-hop energy harvesting communication systems., 2013,,.		6
141	Group sparse beamforming for green cloud radio access networks. , 2013, , .		7
142	Performance analysis of SDMA in multicell wireless networks. , 2013, , .		7
143	Energy efficiency analysis of small cell networks. , 2013, , .		30
144	Location-aware distributed routing in cognitive radio networks. , 2012, , .		1

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145	Coordinated relay beamforming for amplify-and-forward two-hop interference networks. , 2012, , .		6
146	Training optimization for energy harvesting communication systems., 2012,,.		5
147	Maximizing energy efficiency in wireless networks with a minimum average throughput requirement. , 2012, , .		38
148	Interference Management with Relay Cooperation in Two-Hop Interference Channels. IEEE Wireless Communications Letters, 2012, 1, 165-168.	5.0	20
149	On the Accuracy of the Wyner Model in Cellular Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3098-3109.	9.2	120
150	Multimode Transmission in Network MIMO Downlink with Incomplete CSI. Eurasip Journal on Advances in Signal Processing, 2011, 2011, .	1.7	2
151	Multi-Mode Transmission for the MIMO Broadcast Channel with Imperfect Channel State Information. IEEE Transactions on Communications, 2011, 59, 803-814.	7.8	112
152	On the Accuracy of the Wyner Model in Downlink Cellular Networks. , 2011, , .		12
153	Optimizing Training and Feedback for Spatial Intercell Interference Cancellation. , $2011, , .$		1
154	Location-Based Joint Relay Selection and Channel Allocation for Cognitive Radio Networks. , $2011, \dots$		8
155	When Does the Wyner Model Accurately Describe an Uplink Cellular Network?. , 2010, , .		10
156	Adaptive Spatial Intercell Interference Cancellation in Multicell Wireless Networks. IEEE Journal on Selected Areas in Communications, 2010, 28, 1455-1468.	14.0	208
157	Coordinated single-cell vs multi-cell transmission with limited-capacity backhaul. , 2010, , .		12
158	Achievable throughput of multi-mode multiuser MIMO with imperfect CSI constraints. , 2009, , .		12
159	Networked MIMO with clustered linear precoding. IEEE Transactions on Wireless Communications, 2009, 8, 1910-1921.	9.2	445
160	Block Diagonalization in the MIMO Broadcast Channel with Delayed CSIT. , 2009, , .		21
161	Mode Switching for the Multi-Antenna Broadcast Channel Based on Delay and Channel Quantization. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.7	78
162	Distributed Antenna Systems with Randomness. IEEE Transactions on Wireless Communications, 2008, 7, 3636-3646.	9.2	176

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163	Single-user MIMO vs. Multiuser MIMO in the broadcast channel with CSIT constraints. , 2008, , .		16
164	Cellular Communication with Randomly Placed Distributed Antennas., 2007,,.		9
165	Coordinated Multi-cell MIMO Systems with Cellular Block Diagonalization. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	24
166	Multiple-Source Multiple-Relay Cooperation System., 2006,,.		3
167	Performance comparison of conventional and cooperative multihop transmission., 2006,,.		5
168	Performance Analysis of Multiple-Relay Decode-and-Forward Cooperation System., 2005,,.		10