Mingyue Ji

List of Publications by Year
in descending order

68 papers	2,210 citations	758635 12 h-index	414034 32 g-index
69 all docs	69 docs citations	69 times ranked	1414 citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Device-to-Device Caching Networks: Basic Principles and System Performance. IEEE Journal on Selected Areas in Communications, 2016, 34, 176-189.	9.7	489
2	Fundamental Limits of Caching in Wireless D2D Networks. IEEE Transactions on Information Theory, 2016, 62, 849-869.	1.5	486
3	The Throughput-Outage Tradeoff of Wireless One-Hop Caching Networks. IEEE Transactions on Information Theory, 2015, 61, 6833-6859.	1.5	134
4	Order-Optimal Rate of Caching and Coded Multicasting With Random Demands. IEEE Transactions on Information Theory, 2017, 63, 3923-3949.	1.5	133
5	Finite-Length Analysis of Caching-Aided Coded Multicasting. IEEE Transactions on Information Theory, 2016, 62, 5524-5537.	1.5	120
6	Fundamental limits of distributed caching in D2D wireless networks. , 2013, , .		70
7	Optimal throughput-outage trade-off in wireless one-hop caching networks. , 2013, , .		58
8	Caching Eliminates the Wireless Bottleneck in Video Aware Wireless Networks. Advances in Electrical Engineering, 2014, 2014, 1-13.	1.1	52
9	Caching and coded multicasting: Multiple groupcast index coding. , 2014, , .		52
10	On the fundamental limits of caching in combination networks. , 2015, , .		49
11	Wireless Multihop Device-to-Device Caching Networks. IEEE Transactions on Information Theory, 2017, 63, 1662-1676.	1.5	48
12	Caching-aided coded multicasting with multiple random requests. , 2015, , .		37
13	Throughput–Outage Analysis and Evaluation of Cache-Aided D2D Networks With Measured Popularity Distributions. IEEE Transactions on Wireless Communications, 2019, 18, 5316-5332.	6.1	36
14	Speeding Up Future Video Distribution via Channel-Aware Caching-Aided Coded Multicast. IEEE Journal on Selected Areas in Communications, 2016, 34, 2207-2218.	9.7	35
15	Markov Decision Policies for Dynamic Video Delivery in Wireless Caching Networks. IEEE Transactions on Wireless Communications, 2019, 18, 5705-5718.	6.1	35
16	Caching in combination networks. , 2015, , .		32
17	Caching in Combination Networks: Novel Multicast Message Generation and Delivery by Leveraging the Network Topology. , 2018, , .		22
18	Cascaded Coded Distributed Computing on Heterogeneous Networks. , 2019, , .		22

#	Article	IF	Citations
19	Finite length analysis of caching-aided coded multicasting. , 2014, , .		21
20	A New Combinatorial Design of Coded Distributed Computing. , 2018, , .		19
21	Fundamental Limits of Decentralized Data Shuffling. IEEE Transactions on Information Theory, 2020, 66, 3616-3637.	1.5	17
22	Coded Distributed Computing with Heterogeneous Function Assignments. , 2020, , .		15
23	On the Optimal Load-Memory Tradeoff of Cache-Aided Scalar Linear Function Retrieval. IEEE Transactions on Information Theory, 2021, 67, 4001-4018.	1.5	13
24	Fundamental limits of distributed caching in multihop D2D wireless networks. , 2017, , .		12
25	A New Combinatorial Coded Design for Heterogeneous Distributed Computing. IEEE Transactions on Communications, 2021, 69, 5672-5685.	4.9	11
26	Device-to-device communications for wireless video delivery. , 2012, , .		10
27	Optimal Throughput-Outage Analysis of Cache-Aided Wireless Multi-Hop D2D Networks. IEEE Transactions on Communications, 2021, 69, 2489-2504.	4.9	10
28	Towards Finite File Packetizations in Wireless Device-to-Device Caching Networks. IEEE Transactions on Communications, 2020, 68, 5283-5298.	4.9	9
29	Heterogeneous Computation Assignments in Coded Elastic Computing. , 2020, , .		8
30	A Non-Cooperative Game-Based Distributed Beam Scheduling Framework for 5G Millimeter-Wave Cellular Networks. IEEE Transactions on Wireless Communications, 2022, 21, 489-504.	6.1	8
31	Fundamental Limits of Wireless Distributed Computing Networks. , 2018, , .		7
32	Performance of Caching-Based D2D Video Distribution with Measured Popularity Distributions. , 2019, , .		7
33	An Optimal Iterative Placement Algorithm for PIR from Heterogeneous Storage-Constrained Databases. , 2019, , .		7
34	On the Tradeoff Between Computation and Communication Costs for Distributed Linearly Separable Computation. IEEE Transactions on Communications, 2021, 69, 7390-7405.	4.9	7
35	On the Fundamental Limits of Cache-Aided Multiuser Private Information Retrieval. IEEE Transactions on Communications, 2021, 69, 5828-5842.	4.9	7
36	Distributed Linearly Separable Computation. IEEE Transactions on Information Theory, 2022, 68, 1259-1278.	1.5	7

#	Article	IF	Citations
37	Caching and Coded Multicasting in Slow Fading Environment. , 2017, , .		6
38	Uncoded Placement With Linear Sub-Messages for Private Information Retrieval From Storage Constrained Databases. IEEE Transactions on Communications, 2020, 68, 6039-6053.	4.9	6
39	Coded Elastic Computing on Machines With Heterogeneous Storage and Computation Speed. IEEE Transactions on Communications, 2021, 69, 2894-2908.	4.9	6
40	State-of-the-art in cache-aided combination networks. , 2017, , .		5
41	Efficient Algorithms for Coded Multicasting in Heterogeneous Caching Networks. Entropy, 2019, 21, 324.	1.1	5
42	A New Design of Private Information Retrieval for Storage Constrained Databases. , 2019, , .		5
43	Cache-aided Multiuser Private Information Retrieval. , 2020, , .		5
44	On the Fundamental Limits of Fog-RAN Cache-Aided Networks With Downlink and Sidelink Communications. IEEE Transactions on Information Theory, 2021, 67, 2353-2378.	1.5	5
45	On Secure Distributed Linearly Separable Computation. IEEE Journal on Selected Areas in Communications, 2022, 40, 912-926.	9.7	5
46	Cache-Aided Matrix Multiplication Retrieval. IEEE Transactions on Information Theory, 2022, 68, 4301-4319.	1.5	5
47	Novel inner bounds with uncoded cache placement for combination networks with end-user-caches. , 2017, , .		4
48	Device-to-Device Caching Networks with Subquadratic Subpacketizations. , 2017, , .		4
49	Coded Caching in Wireless Device-to-Device Networks Using a Hypercube Approach. , 2018, , .		4
50	Development of a Gas Sensor for Green Leaf Volatile Detection. , 2021, , .		4
51	A Combinatorial Design for Cascaded Coded Distributed Computing on General Networks. IEEE Transactions on Communications, 2021, 69, 5686-5700.	4.9	4
52	Joint Superposition Coding and Training for Federated Learning over Multi-Width Neural Networks. , 2022, , .		4
53	Novel outer bounds for combination networks with end-user-caches. , 2017, , .		3
54	A New Design Framework on D2D Coded Caching with Optimal Rate and Less Subpacketizations. , 2020, , .		3

#	Article	IF	Citations
55	Cache-Aided Interference Management Using Hypercube Combinatorial Design With Reduced Subpacketizations and Order Optimal Sum-Degrees of Freedom. IEEE Transactions on Wireless Communications, 2021, 20, 4797-4810.	6.1	3
56	Cache-Aided General Linear Function Retrieval. Entropy, 2021, 23, 25.	1.1	3
57	Field Deployment of A Nanogap Gas Sensor For Crop Damage Detection. , 2022, , .		3
58	Cache-Aided Scalar Linear Function Retrieval. , 2020, , .		2
59	FLCD: A Flexible Low Complexity Design of Coded Distributed Computing. IEEE Transactions on Cloud Computing, 2023, 11, 470-483.	3.1	2
60	Combination Networks With End-User-Caches: Novel Achievable and Converse Bounds Under Uncoded Cache Placement. IEEE Transactions on Information Theory, 2022, 68, 806-827.	1.5	2
61	Uncoordinated Spectrum Sharing in Millimeter Wave Networks Using Carrier Sensing. IEEE Transactions on Wireless Communications, 2022, 21, 8368-8384.	6.1	2
62	On the Fundamental Limits of Device-to-Device Private Caching Under Uncoded Cache Placement and User Collusion. IEEE Transactions on Information Theory, 2022, 68, 5701-5729.	1.5	2
63	Cache-Aided Interference Management using Hypercube Combinatorial Cache Designs. , 2019, , .		1
64	Throughput-Outage Scaling Laws for Wireless Single-Hop D2D Caching Networks with Physical Models. , 2021, , .		1
65	Secure Distributed Linearly Separable Computation. , 2021, , .		1
66	Cache-Aided Matrix Multiplication Retrieval. , 2021, , .		0
67	Throughput–Outage Analysis of Cache-Aided Wireless Multi-Hop D2D Networks. , 2020, , .		0
68	Secure mmWave Spectrum Sharing with Autonomous Beam Scheduling for 5G and Beyond. , 2022, , .		0