

# Dongming Wang

## List of Publications by Year in descending order

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63  
papers

1,759  
citations

516215

16  
h-index

276539

41  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1260  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	2.7	858
2	Spectral Efficiency of Distributed MIMO Systems. IEEE Journal on Selected Areas in Communications, 2013, 31, 2112-2127.	9.7	135
3	Performance of Network-Assisted Full-Duplex for Cell-Free Massive MIMO. IEEE Transactions on Communications, 2020, 68, 1464-1478.	4.9	77
4	A Reinforcement Learning and Blockchain-Based Trust Mechanism for Edge Networks. IEEE Transactions on Communications, 2020, 68, 5460-5470.	4.9	76
5	Downlink Spectral Efficiency of Distributed Massive MIMO Systems With Linear Beamforming Under Pilot Contamination. IEEE Transactions on Vehicular Technology, 2018, 67, 1130-1145.	3.9	54
6	Terahertz Ultra-Massive MIMO-Based Aeronautical Communications in Space-Air-Ground Integrated Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 1741-1767.	9.7	46
7	mmWave communications for 5G: implementation challenges and advances. Science China Information Sciences, 2018, 61, 1.	2.7	43
8	Uplink sum-rate analysis of multi-cell multi-user massive MIMO system. , 2013, , .		36
9	Interference Analysis in the Asynchronous f-OFDM Systems. IEEE Transactions on Communications, 2019, 67, 3580-3596.	4.9	27
10	28-GHz CMOS VCO With Capacitive Splitting and Transformer Feedback Techniques for 5G Communication. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2019, 27, 2088-2095.	2.1	26
11	Spectral efficiency analysis of single-cell multi-user large-scale distributed antenna system. IET Communications, 2014, 8, 2213-2221.	1.5	25
12	Antenna Clustering for Bidirectional Dynamic Network With Large-Scale Distributed Antenna Systems. IEEE Access, 2017, 5, 4037-4047.	2.6	24
13	Joint User Selection and Transceiver Design for Cell-Free With Network-Assisted Full Duplexing. IEEE Transactions on Wireless Communications, 2021, 20, 7856-7870.	6.1	24
14	Uplink Spectral Efficiency Analysis of Distributed Massive MIMO with Channel Impairments. IEEE Access, 2017, , 1-1.	2.6	19
15	Joint Sparse Beamforming and Power Control for a Large-Scale DAS With Network-Assisted Full Duplex. IEEE Transactions on Vehicular Technology, 2020, 69, 7569-7582.	3.9	19
16	Network-Assisted Full-Duplex Distributed Massive MIMO Systems With Beamforming Training Based CSI Estimation. IEEE Transactions on Wireless Communications, 2021, 20, 2190-2204.	6.1	18
17	Channel Estimation and Hybrid Precoding for Distributed Phased Arrays Based MIMO Wireless Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 12921-12937.	3.9	16
18	Joint optimization of spectral efficiency for cell-free massive MIMO with network-assisted full duplexing. Science China Information Sciences, 2021, 64, 1.	2.7	16

#	ARTICLE	IF	CITATIONS
19	Deep Reinforcement Learning Approach for Joint Trajectory Design in Multi-UAV IoT Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 3389-3394.	3.9	16
20	Bidirectional dynamic networks with massive MIMO: performance analysis. IET Communications, 2017, 11, 468-476.	1.5	15
21	Joint Long-Term Energy Efficiency Optimization in C-RAN With Hybrid Energy Supply. IEEE Transactions on Vehicular Technology, 2020, 69, 11128-11138.	3.9	14
22	Benefits of Beamforming Training Scheme in Distributed Large-Scale MIMO Systems. IEEE Access, 2018, 6, 7432-7444.	2.6	12
23	Hybrid beamforming design for mmWave OFDM distributed antenna systems. Science China Information Sciences, 2020, 63, 1.	2.7	12
24	Uplink spectral efficiency analysis of multi-cell multi-user massive MIMO over correlated Ricean channel. Science China Information Sciences, 2018, 61, 1.	2.7	10
25	Performance and Measurement Analysis of a Commercial 5G Millimeter-Wave Network. IEEE Access, 2020, 8, 163996-164011.	2.6	10
26	A $\sim 193.6$ dBc/Hz FoM $\times T$ 28.6-to-36.2 GHz Dual-Core CMOS VCO for 5G Applications. IEEE Access, 2020, 8, 62191-62196.	2.6	10
27	Uplink Interference Analysis of F-OFDM Systems Under Non-Ideal Synchronization. IEEE Transactions on Vehicular Technology, 2020, 69, 15500-15517.	3.9	9
28	On Power Allocation for Incremental Redundancy Hybrid ARQ. IEEE Transactions on Wireless Communications, 2015, 14, 1506-1518.	6.1	8
29	Design of Pilot Assignment for Large-Scale Distributed Antenna Systems. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2016, E99.A, 1674-1682.	0.2	8
30	Optimization of Duplex Mode Selection for Network-Assisted Full-Duplex Cell-Free Massive MIMO Systems. IEEE Communications Letters, 2021, 25, 3649-3653.	2.5	8
31	Scalable Pilot Assignment Scheme for Cell-Free Large-Scale Distributed MIMO With Massive Access. IEEE Access, 2021, 9, 122107-122112.	2.6	7
32	Large System Performance and Distributed Scheme of Downlink Beamforming in F-RANs With Distributed Antennas. IEEE Access, 2019, 7, 33441-33453.	2.6	6
33	Energy Efficiency Optimization of Distributed Massive MIMO Systems Under Ergodic QoS and Per-RAU Power Constraints. IEEE Access, 2019, 7, 5001-5013.	2.6	6
34	A 32-GHz Nested-PLL-Based FMCW Modulator With 2.16-GHz Bandwidth in a 65-nm CMOS Process. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 1600-1609.	2.1	6
35	Spectral Efficiency of Network-Assisted Full-Duplex for Cell-Free Massive MIMO System Under Pilot Contamination. IEEE Access, 2021, 9, 110826-110841.	2.6	6
36	Fingerprint-Based Covariance Matrix Estimation for Cell-Free Distributed Massive MIMO Systems. IEEE Wireless Communications Letters, 2022, 11, 416-420.	3.2	6

#	ARTICLE	IF	CITATIONS
37	ADMM Enabled Hybrid Precoding in Wideband Distributed Phased Arrays Based MIMO Systems. , 2019, , .		5
38	A Fractional-N Divider for Phase-Locked Loop with Delta-Sigma Modulator and Phase-Lag Selector. , 2018, , .		4
39	Impacts of Asynchronous Reception on Cell-Free Distributed Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 11106-11110.	3.9	4
40	Beam Tracking for Distributed Millimeter-Wave Massive MIMO Systems Based on the Unscented Kalman Filter. IEEE Wireless Communications Letters, 2022, 11, 712-716.	3.2	4
41	A 48 GHz Fundamental Frequency PLL with Quadrature Clock Generation for 60 GHz Transceiver. Electronics (Switzerland), 2022, 11, 415.	1.8	4
42	Load-Aware Dynamic Mode Selection for Network-Assisted Full-Duplex Cell-Free Large-Scale Distributed MIMO Systems. IEEE Access, 2022, 10, 22301-22310.	2.6	4
43	Performance of Multiuser Downlink Cell-Free Massive MIMO Systems With Hard Deadlines. IEEE Access, 2022, 10, 62910-62919.	2.6	4
44	Structured Tensor CP Decomposition-Aided Pilot Decontamination for UAV Communication in Cell-Free Massive MIMO Systems. IEEE Communications Letters, 2022, 26, 2156-2160.	2.5	4
45	Joint Processing of Pilot and Data for Massive MIMO Systems in Ricean Fading Channels. IEEE Access, 2019, 7, 83615-83627.	2.6	3
46	Transceiver Design for Large-scale DAS with Network Assisted Full Duplex. , 2020, , .		3
47	A compact wide-locking range divide-by-4 static divider for mm-wave applications. , 2016, , .		2
48	Design of Improved Phase Frequency Detector and Charge-Pump for a 12-18 GHz CMOS PLL. , 2018, , .		2
49	Coverage and Spectral Efficiency of Network Assisted Full Duplex in a Millimeter Wave System. Electronics (Switzerland), 2022, 11, 5.	1.8	2
50	Spectral Efficiency Analysis of Network-Assisted Full Duplexing for Large-Scale Distributed Antenna Systems. , 2019, , .		1
51	Satellite-Assisted Cell-Free Massive MIMO Systems with Multi-Group Multicast. Sensors, 2021, 21, 6222.	2.1	1
52	Robust Beamforming for Joint Transceiver Design in <i>K</i>-User Interference Channel over Energy Efficient 5G. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2015, E98.A, 1860-1864.	0.2	1
53	Robust Downlink Transmission for 6G LEO-MIMO Satellite Systems. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	0.8	1
54	A K-band Up-conversion Mixer in 65nm CMOS. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
55	Performance Analysis of Cell-Free Massive MIMO System with Network-Assisted Full-Duplex under Time-Shifting Pilot Scheme. <i>Electronics (Switzerland)</i> , 2022, 11, 2171.	1.8	1
56	A new transceiver design based on weighted sum-MSE criterion for multi-cell MIMO interfering broadcast channels. , 2015, , .		0
57	An efficient interference mitigating scheme for cognitive radio networks: From the perspective of space pooling. , 2015, , .		0
58	A 50GHz VCO in 65nm LP CMOS for mm-wave applications. , 2016, , .		0
59	IEEE Access Special Section Editorial: Secure Modulations for Future Wireless Communications and Mobile Networks. <i>IEEE Access</i> , 2019, 7, 181942-181946.	2.6	0
60	A 31.5-to-40.5 GHz injection-locked CMOS frequency tripler with injection-current enhancement technique. <i>IEICE Electronics Express</i> , 2020, 17, 20200061-20200061.	0.3	0
61	Massive Distributed MIMO and Cell-Free Network-Assisted Full Duplex. , 2021, , 167-189.		0
62	Flexible Duplexing Mode Selection Optimization for Network-Assisted Full-Duplex Cell-Free Massive MIMO Systems. , 2021, , .		0
63	60 GHz CMOS VCO with Transformer Feedback Techniques. , 2020, , .		0