

Xiqi Gao

List of Publications by Year in descending order

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159
papers

8,115
citations

76326

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69250

77
g-index

160
all docs

160
docs citations

160
times ranked

5151
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular architecture and key technologies for 5G wireless communication networks. , 2014, 52, 122-130.		1,743
2	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	4.3	858
3	Beam Division Multiple Access Transmission for Massive MIMO Communications. IEEE Transactions on Communications, 2015, 63, 2170-2184.	7.8	315
4	Pilot Reuse for Massive MIMO Transmission over Spatially Correlated Rayleigh Fading Channels. IEEE Transactions on Wireless Communications, 2015, 14, 3352-3366.	9.2	298
5	6G Wireless Channel Measurements and Models: Trends and Challenges. IEEE Vehicular Technology Magazine, 2020, 15, 22-32.	3.4	265
6	Energy-Efficient Joint Resource Allocation and Power Control for D2D Communications. IEEE Transactions on Vehicular Technology, 2016, 65, 6119-6127.	6.3	244
7	Channel Acquisition for Massive MIMO-OFDM With Adjustable Phase Shift Pilots. IEEE Transactions on Signal Processing, 2016, 64, 1461-1476.	5.3	214
8	Massive MIMO Transmission for LEO Satellite Communications. IEEE Journal on Selected Areas in Communications, 2020, 38, 1851-1865.	14.0	205
9	Compressive Sensing-Based Adaptive Active User Detection and Channel Estimation: Massive Access Meets Massive MIMO. IEEE Transactions on Signal Processing, 2020, 68, 764-779.	5.3	205
10	Linear Precoding for Finite-Alphabet Signaling Over MIMOME Wiretap Channels. IEEE Transactions on Vehicular Technology, 2012, 61, 2599-2612.	6.3	162
11	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
12	Statistical Eigenmode Transmission Over Jointly Correlated MIMO Channels. IEEE Transactions on Information Theory, 2009, 55, 3735-3750.	2.4	146
13	Energy Efficiency and Spectral Efficiency Tradeoff in RIS-Aided Multiuser MIMO Uplink Transmission. IEEE Transactions on Signal Processing, 2021, 69, 1407-1421.	5.3	139
14	BDMA for Millimeter-Wave/Terahertz Massive MIMO Transmission With Per-Beam Synchronization. IEEE Journal on Selected Areas in Communications, 2017, 35, 1550-1563.	14.0	119
15	Massive Access for Future Wireless Communication Systems. IEEE Wireless Communications, 2020, 27, 148-156.	9.0	114
16	MIMO multichannel beamforming: SER and outage using new eigenvalue distributions of complex noncentral Wishart matrices. IEEE Transactions on Communications, 2008, 56, 424-434.	7.8	112
17	A General 3D Non-Stationary Wireless Channel Model for 5G and Beyond. IEEE Transactions on Wireless Communications, 2021, 20, 3211-3224.	9.2	97
18	Multi-Frequency Multi-Scenario Millimeter Wave MIMO Channel Measurements and Modeling for B5G Wireless Communication Systems. IEEE Journal on Selected Areas in Communications, 2020, 38, 2010-2025.	14.0	83

#	ARTICLE	IF	CITATIONS
19	Massive Access in Cell-Free Massive MIMO-Based Internet of Things: Cloud Computing and Edge Computing Paradigms. <i>IEEE Journal on Selected Areas in Communications</i> , 2021, 39, 756-772.	14.0	81
20	Statistical 3-D Beamforming for Large-Scale MIMO Downlink Systems Over Rician Fading Channels. <i>IEEE Transactions on Communications</i> , 2016, 64, 1529-1543.	7.8	75
21	Statistical Eigenmode-Based SDMA for Two-User Downlink. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 5371-5383.	5.3	72
22	Linear Precoding for the MIMO Multiple Access Channel With Finite Alphabet Inputs and Statistical CSI. <i>IEEE Transactions on Wireless Communications</i> , 2015, 14, 983-997.	9.2	68
23	Omnidirectional Precoding Based Transmission in Massive MIMO Systems. <i>IEEE Transactions on Communications</i> , 2016, 64, 174-186.	7.8	67
24	A Novel Nonstationary 6G UAV-to-Ground Wireless Channel Model With 3-D Arbitrary Trajectory Changes. <i>IEEE Internet of Things Journal</i> , 2021, 8, 9865-9877.	8.7	67
25	LEO Satellite Constellations for 5G and Beyond: How Will They Reshape Vertical Domains?. <i>IEEE Communications Magazine</i> , 2021, 59, 30-36.	6.1	63
26	Pervasive Wireless Channel Modeling Theory and Applications to 6G GBsMs for All Frequency Bands and All Scenarios. <i>IEEE Transactions on Vehicular Technology</i> , 2022, 71, 9159-9173.	6.3	62
27	Single-Site Localization Based on a New Type of Fingerprint for Massive MIMO-OFDM Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2018, 67, 6134-6145.	6.3	60
28	Robust Multigroup Multicast Transmission for Frame-Based Multi-Beam Satellite Systems. <i>IEEE Access</i> , 2018, 6, 46074-46083.	4.2	60
29	Three-Dimensional Beamforming for Large-Scale FD-MIMO Systems Exploiting Statistical Channel State Information. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 8992-9005.	6.3	58
30	Spectral Efficiency and Energy Efficiency Tradeoff in Massive MIMO Downlink Transmission With Statistical CSIT. <i>IEEE Transactions on Signal Processing</i> , 2020, 68, 2645-2659.	5.3	58
31	Free Deterministic Equivalents for the Analysis of MIMO Multiple Access Channel. <i>IEEE Transactions on Information Theory</i> , 2016, 62, 4604-4629.	2.4	52
32	Outage Constrained Robust Multigroup Multicast Beamforming for Multi-Beam Satellite Communication Systems. <i>IEEE Wireless Communications Letters</i> , 2019, 8, 352-355.	5.0	52
33	Robust Transmission for Massive MIMO Downlink With Imperfect CSI. <i>IEEE Transactions on Communications</i> , 2019, 67, 5362-5376.	7.8	51
34	Near Optimal Timing and Frequency Offset Estimation for 5G Integrated LEO Satellite Communication System. <i>IEEE Access</i> , 2019, 7, 113298-113310.	4.2	49
35	A General 3D Space-Time-Frequency Non-Stationary THz Channel Model for 6G Ultra-Massive MIMO Wireless Communication Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2021, 39, 1576-1589.	14.0	49
36	Fingerprint-Based Localization for Massive MIMO-OFDM System With Deep Convolutional Neural Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2019, 68, 10846-10857.	6.3	48

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37	Linear Precoding for MIMO Broadcast Channels With Finite-Alphabet Constraints. IEEE Transactions on Wireless Communications, 2012, , 1-15.	9.2	47
38	Linear Precoder Design for MIMO Interference Channels with Finite-Alphabet Signaling. IEEE Transactions on Communications, 2013, 61, 3766-3780.	7.8	47
39	Reconfigurable Intelligent Surfaces-Assisted Multiuser MIMO Uplink Transmission With Partial CSI. IEEE Transactions on Wireless Communications, 2021, 20, 5613-5627.	9.2	46
40	Spectral efficiency analysis of mobile Femtocell based cellular systems. , 2011, , .		42
41	Pilot scheduling schemes for multi-cell massive multiple-input-multiple-output transmission. IET Communications, 2015, 9, 689-700.	2.2	42
42	A Survey on MIMO Transmission With Finite Input Signals: Technical Challenges, Advances, and Future Trends. Proceedings of the IEEE, 2018, 106, 1779-1833.	21.3	42
43	BDMA in Multicell Massive MIMO Communications: Power Allocation Algorithms. IEEE Transactions on Signal Processing, 2017, 65, 2962-2974.	5.3	40
44	Deterministic Pilot Design and Channel Estimation for Downlink Massive MIMO-OTFS Systems in Presence of the Fractional Doppler. IEEE Transactions on Wireless Communications, 2021, 20, 7151-7165.	9.2	38
45	Downlink Transmit Design for Massive MIMO LEO Satellite Communications. IEEE Transactions on Communications, 2022, 70, 1014-1028.	7.8	38
46	Energy Efficiency Optimization for Downlink Massive MIMO With Statistical CSIT. IEEE Transactions on Wireless Communications, 2020, 19, 2684-2698.	9.2	36
47	Omnidirectional Space-Time Block Coding for Common Information Broadcasting in Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 1407-1417.	9.2	34
48	A Space-Time Code Design for Omnidirectional Transmission in Massive MIMO Systems. IEEE Wireless Communications Letters, 2016, 5, 512-515.	5.0	32
49	Network Massive MIMO Transmission Over Millimeter-Wave and Terahertz Bands: Mobility Enhancement and Blockage Mitigation. IEEE Journal on Selected Areas in Communications, 2020, 38, 2946-2960.	14.0	32
50	Efficient OFDMA for LiFi Downlink. Journal of Lightwave Technology, 2018, 36, 1928-1943.	4.6	31
51	Blockchain Radio Access Network Beyond 5G. IEEE Wireless Communications, 2020, 27, 160-168.	9.0	31
52	Low Complexity Polynomial Expansion Detector With Deterministic Equivalents of the Moments of Channel Gram Matrix for Massive MIMO Uplink. IEEE Transactions on Communications, 2016, 64, 586-600.	7.8	29
53	Channel Prediction in High-Mobility Massive MIMO: From Spatio-Temporal Autoregression to Deep Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 1915-1930.	14.0	28
54	Beam Domain Secure Transmission for Massive MIMO Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 7113-7127.	6.3	27

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55	Practical Modeling and Analysis of Blockchain Radio Access Network. IEEE Transactions on Communications, 2020, , 1-1.	7.8	27
56	Omnidirectional Precoding for 3D Massive MIMO With Uniform Planar Arrays. IEEE Transactions on Wireless Communications, 2020, 19, 2628-2642.	9.2	27
57	Learning to Localize: A 3D CNN Approach to User Positioning in Massive MIMO-OFDM Systems. IEEE Transactions on Wireless Communications, 2021, 20, 4556-4570.	9.2	26
58	Optical Filter Designs for Multi-Color Visible Light Communication. IEEE Transactions on Communications, 2019, 67, 2173-2187.	7.8	25
59	Beam Domain Massive MIMO for Optical Wireless Communications With Transmit Lens. IEEE Transactions on Communications, 2019, 67, 2188-2202.	7.8	25
60	Power Allocation Strategies for Distributed Space-Time Codes in Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2010, 58, 5331-5339.	5.3	22
61	LEO Satellite Communications with Massive MIMO. , 2020, , .		22
62	Resource Efficiency Optimization for Robust Beamforming in Multi-Beam Satellite Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 6958-6968.	6.3	22
63	Deep Learning-Based Robust Precoding for Massive MIMO. IEEE Transactions on Communications, 2021, 69, 7429-7443.	7.8	22
64	Biased Multi-LED Beamforming for Multicarrier Visible Light Communications. IEEE Journal on Selected Areas in Communications, 2018, 36, 106-120.	14.0	21
65	Omnidirectional Precoding and Combining Based Synchronization for Millimeter Wave Massive MIMO Systems. IEEE Transactions on Communications, 2018, 66, 1013-1026.	7.8	21
66	Omnidirectional Precoding for Massive MIMO With Uniform Rectangular Array—Part I: Complementary Codes-Based Schemes. IEEE Transactions on Signal Processing, 2019, 67, 4761-4771.	5.3	21
67	Broad Coverage Precoding Design for Massive MIMO With Manifold Optimization. IEEE Transactions on Communications, 2019, 67, 2792-2806.	7.8	20
68	Location-Based Timing Advance Estimation for 5G Integrated LEO Satellite Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 6002-6017.	6.3	20
69	Transmit Designs for the MIMO Broadcast Channel With Statistical CSI. IEEE Transactions on Signal Processing, 2014, 62, 4451-4466.	5.3	19
70	Linear Precoder Design for SWIPT in MIMO Broadcasting Systems With Discrete Input Signals: Manifold Optimization Approach. IEEE Transactions on Communications, 2017, 65, 2877-2888.	7.8	17
71	Sparse Channel Estimation via Hierarchical Hybrid Message Passing for Massive MIMO-OFDM Systems. IEEE Transactions on Wireless Communications, 2021, 20, 7118-7134.	9.2	17
72	Interference Coordination for 3-D Beamforming-Based HetNet Exploiting Statistical Channel-State Information. IEEE Transactions on Wireless Communications, 2018, 17, 6887-6900.	9.2	16

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73	Secure Multicast Transmission for Massive MIMO With Statistical Channel State Information. IEEE Signal Processing Letters, 2019, 26, 803-807.	3.6	16
74	Channel Estimation With Pilot Reuse in IQ Imbalanced Massive MIMO. IEEE Access, 2020, 8, 1542-1555.	4.2	16
75	Shallow Underwater Acoustic Massive MIMO Communications. IEEE Transactions on Signal Processing, 2021, 69, 1124-1139.	5.3	16
76	Omnidirectional Precoding for Massive MIMO With Uniform Rectangular Array—Part II: Numerical Optimization Based Schemes. IEEE Transactions on Signal Processing, 2019, 67, 4772-4781.	5.3	15
77	Analysis and Optimization of Fog Radio Access Networks With Hybrid Caching: Delay and Energy Efficiency. IEEE Transactions on Wireless Communications, 2021, 20, 69-82.	9.2	14
78	Unifying Message Passing Algorithms Under the Framework of Constrained Bethe Free Energy Minimization. IEEE Transactions on Wireless Communications, 2021, 20, 4144-4158.	9.2	14
79	HF Skywave Massive MIMO Communication. IEEE Transactions on Wireless Communications, 2022, 21, 2769-2785.	9.2	14
80	Robust MMSE precoding for massive MIMO transmission with hardware mismatch. Science China Information Sciences, 2018, 61, 1.	4.3	13
81	A 3D Wideband Geometry-Based Stochastic Model for UAV Air-to-Ground Channels. , 2018, , .		13
82	Pilot Reuse for Vehicle-to-Vehicle Underlay Massive MIMO Transmission. IEEE Transactions on Vehicular Technology, 2020, 69, 5693-5697.	6.3	13
83	Hybrid A/D Precoding for Downlink Massive MIMO in LEO Satellite Communications. , 2021, , .		13
84	A Minimum Error Probability NOMA Design. IEEE Transactions on Wireless Communications, 2021, 20, 4221-4237.	9.2	12
85	Energy Efficiency Optimization for Multi-Cell Massive MIMO: Centralized and Distributed Power Allocation Algorithms. IEEE Transactions on Communications, 2021, 69, 5228-5242.	7.8	12
86	QoS-Guaranteed User Scheduling and Pilot Assignment for Large-Scale MIMO-OFDM Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 6275-6289.	6.3	11
87	Non-Orthogonal Unicast and Multicast Transmission for Massive MIMO With Statistical Channel State Information. IEEE Access, 2018, 6, 66841-66849.	4.2	11
88	Artificial Noise Assisted Secure Massive MIMO Transmission Exploiting Statistical CSI. IEEE Communications Letters, 2019, 23, 2386-2389.	4.1	11
89	Satellite-Aided Consensus Protocol for Scalable Blockchains. Sensors, 2020, 20, 5616.	3.8	11
90	Channel Estimation and Robust Detection for IQ Imbalanced Uplink Massive MIMO-OFDM With Adjustable Phase Shift Pilots. IEEE Access, 2021, 9, 35864-35878.	4.2	10

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91	Robust Precoding for 3D Massive MIMO Configuration With Matrix Manifold Optimization. IEEE Transactions on Wireless Communications, 2022, 21, 3423-3437.	9.2	10
92	Robust Linear Precoder Design for 3D Massive MIMO Downlink With A Posteriori Channel Model. IEEE Transactions on Vehicular Technology, 2022, 71, 7274-7286.	6.3	10
93	Agglomerative User Clustering and Cluster Scheduling for FDD Massive MIMO Systems. IEEE Access, 2019, 7, 86522-86533.	4.2	9
94	Multicell Massive MIMO Multicast Transmission With Finite-Alphabet Inputs. IEEE Transactions on Vehicular Technology, 2019, 68, 6747-6760.	6.3	9
95	Resource allocation for pilot-assisted massive MIMO transmission. Science China Information Sciences, 2017, 60, 1.	4.3	8
96	Energy Efficiency Optimization for Massive MIMO Non-Orthogonal Unicast and Multicast Transmission with Statistical CSI. Electronics (Switzerland), 2019, 8, 857.	3.1	8
97	Optimal DCO-OFDM signal shaping with double-sided clipping in visible light communications. Optics Express, 2020, 28, 30391.	3.4	8
98	Multi-cell massive MIMO transmission with coordinated pilot reuse. Science China Technological Sciences, 2015, 58, 2186-2194.	4.0	7
99	Energy-Efficient Multicast Precoding for Massive MIMO Transmission with Statistical CSI. Energies, 2018, 11, 3175.	3.1	7
100	Broad Coverage Precoder Design for 3D Massive MIMO System Synchronization. IEEE Transactions on Communications, 2020, 68, 4233-4246.	7.8	7
101	Widely-Linear Processing for the Uplink of the Massive MIMO With IQ Imbalance: Channel Estimation and Data Detection. IEEE Transactions on Signal Processing, 2021, 69, 4685-4698.	5.3	7
102	Massive Grant-Free OFDMA With Timing and Frequency Offsets. IEEE Transactions on Wireless Communications, 2022, 21, 3365-3380.	9.2	7
103	MIMO Multichannel Beamforming in Rayleigh-Product Channels with Arbitrary-Power Co-Channel Interference and Noise. IEEE Transactions on Wireless Communications, 2012, 11, 3677-3691.	9.2	6
104	Fair Downlink Transmission for Multi-Cell FD-MIMO System Exploiting Statistical CSI. IEEE Communications Letters, 2018, 22, 860-863.	4.1	6
105	3D CNN-Enabled Positioning in 3D Massive MIMO-OFDM Systems. , 2020, , .		6
106	Learning to Compute Ergodic Rate for Multi-Cell Scheduling in Massive MIMO. IEEE Transactions on Wireless Communications, 2021, 20, 785-797.	9.2	6
107	Fiber-Enabled Optical Wireless Communications With Full Beam Coverage. IEEE Transactions on Communications, 2021, 69, 3207-3221.	7.8	6
108	Energy-Efficient Precoding in Electromagnetic Exposure-Constrained Uplink Multiuser MIMO. IEEE Transactions on Vehicular Technology, 2021, 70, 7226-7231.	6.3	6

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109	Massive MIMO Downlink Transmission for LEO Satellite Communications. , 2021, , .		6
110	Massive MIMO Hybrid Precoding for LEO Satellite Communications With Twin-Resolution Phase Shifters and Nonlinear Power Amplifiers. IEEE Transactions on Communications, 2022, 70, 5543-5557.	7.8	6
111	Capacity Analysis of a Multiuser Mixed RF/FSO. , 2014, , .		5
112	Machine Learning Assisted User-scheduling Method for Massive MIMO System. , 2018, , .		5
113	Distributed RZF Precoding for Multiple-Beam MSC Downlink. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 968-977.	4.7	5
114	Omnidirectional Quasi-Orthogonal Space-Time Block Coded Massive MIMO Systems. IEEE Communications Letters, 2019, 23, 1621-1625.	4.1	5
115	Reconfigurable Intelligent Surfaces Assisted MIMO-MAC with Partial CSI. , 2020, , .		5
116	Networked Optical Massive MIMO Communications. IEEE Transactions on Wireless Communications, 2020, 19, 5575-5588.	9.2	5
117	Slice Merging/Splitting Operations and Tenant Profit Optimization Across 5G Base Stations. IEEE Access, 2021, 9, 9706-9718.	4.2	5
118	Broad Coverage Precoder Design for Synchronization in Satellite Massive MIMO Systems. IEEE Transactions on Communications, 2021, 69, 5531-5545.	7.8	5
119	Multiuser MIMO Uplink Transmission With Electromagnetic Exposure Constraints: Spectral Efficiency and Energy Efficiency Tradeoff. IEEE Communications Letters, 2022, 26, 1096-1100.	4.1	5
120	Generalized Approximate Message Passing Detection with Row-Orthogonal Linear Preprocessing for Uplink Massive MIMO Systems. , 2017, , .		4
121	Efficient Transmission in Multiantenna Two-Way AF Relaying Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 4182-4191.	6.3	4
122	Coordinated Multicast Precoding for Multi-Cell Massive MIMO Transmission Exploiting Statistical Channel State Information. Electronics (Switzerland), 2018, 7, 338.	3.1	4
123	Physical Layer Multicasting in Massive MIMO Systems With Statistical CSIT. IEEE Transactions on Vehicular Technology, 2020, 69, 1651-1665.	6.3	4
124	MIMO Multichannel Beamforming in Interference-Limited Ricean Fading Channels. , 2008, , .		3
125	Performance comparison of six massive MIMO channel models. , 2017, , .		3
126	A Novel Massive MIMO Beam Domain Channel Model. , 2020, , .		3

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127	Iterative Generalized Eigenvector Precoder With Deterministic Equivalents for 3D Massive MIMO. IEEE Transactions on Vehicular Technology, 2021, 70, 11784-11795.	6.3	3
128	Resource Efficiency Optimization for Robust Multigroup Multicast Satellite Communications. , 2021, , .		3
129	OFDMA based Massive Grant-free Transmission in the Presence of Timing Offset. , 2021, , .		3
130	Sum-Rate-Optimal Statistical Precoding for FDD Massive MIMO Downlink With Deterministic Equivalents. IEEE Transactions on Vehicular Technology, 2022, 71, 7359-7370.	6.3	3
131	Robust Approximate Message Passing Detection Based on Minimizing Bethe Free Energy for Massive MIMO Systems. , 2017, , .		2
132	Analysis of Delay and Energy Efficiency in Fog Radio Access Networks with Hybrid Caching. , 2019, , .		2
133	Energy- and Spectral-Efficiency Tradeoff in Beam Domain Massive MIMO Downlink with Statistical CSIT. , 2019, , .		2
134	On One-Bit Line-of-Sight MIMO Communications at Flexible Communications Distances. IEEE Wireless Communications Letters, 2021, 10, 116-120.	5.0	2
135	Low-complexity detection method based on channel matrix periodic N-diagonal equivalence for uplink MU-MIMO of multi-beam satellite communication systems. International Journal of Satellite Communications and Networking, 2021, 39, 509-523.	1.8	2
136	A Bipartite Graph Approach for FDD V2V Underlay Massive MIMO Transmission. IEEE Transactions on Vehicular Technology, 2021, 70, 5149-5154.	6.3	2
137	Deep Learning Based Robust Precoder Design for Massive MIMO Downlink. , 2021, , .		2
138	Fiber Lens Based Optical Antenna Design for OWC With Full Beam Coverage. IEEE Photonics Journal, 2021, 13, 1-10.	2.0	2
139	Max-Min Energy-Efficient Multi-Cell Massive MIMO Transmission Exploiting Statistical CSI. , 2020, , .		2
140	Precoding Design for Joint Synchronization and Positioning in 5G Integrated Satellite Communications. , 2021, , .		2
141	Ultracompact Dual-Polarized Cross-Dipole Antenna for a 5G Base Station Array With a Low Wind Load. IEEE Transactions on Antennas and Propagation, 2022, 70, 9315-9325.	5.1	2
142	Robust Downlink Precoding for LEO Satellite Systems With Per-Antenna Power Constraints. IEEE Transactions on Vehicular Technology, 2022, 71, 10694-10711.	6.3	2
143	Improved Channel Estimator for MIMO-SCBT Systems Using Quadrphase Complementary Sequences. IEICE Transactions on Communications, 2011, E94-B, 342-345.	0.7	1
144	Energy Efficient Precoding for Massive MIMO Downlink Transmission with Statistical CSI. , 2019, , .		1

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145	Deep Convolutional Neural Networks Enabled Fingerprint Localization for Massive MIMO-OFDM System. , 2019, , .		1
146	Broad Coverage Precoding for 3D Massive MIMO System Synchronization. , 2020, , .		1
147	Network Massive MIMO Transmission Over Millimeter-Wave Bands. , 2020, , .		1
148	Phase Shift Adjustable Pilots for Channel Acquisition in Vehicle-to-Vehicle Underlay Wideband Massive MIMO. IEEE Access, 2020, 8, 203793-203803.	4.2	1
149	Coordinated multicast and unicast transmission in V2V underlay massive MIMO. Science China Information Sciences, 2022, 65, 1.	4.3	1
150	Massive MIMO Communication Over HF Skywave Channels. , 2021, , .		1
151	Dynamic Metasurface Antennas for Energy Efficient Uplink Massive MIMO Communications. , 2021, , .		1
152	On the performance of free-space optical communication systems with multiuser diversity. , 2014, , .		0
153	Broad Coverage Precoding for Massive MIMO with Alternating Projections. , 2018, , .		0
154	Optimum Signal Shaping in Double-Sided Clipping DCO-OFDM. , 2020, , .		0
155	Broad Coverage Precoding for 3D Massive MIMO with Huge Uniform Planar Arrays. Entropy, 2021, 23, 887.	2.2	0
156	Omnidirectional Transmission for Massive MIMO. , 2018, , 1-4.		0
157	Omnidirectional Transmission for Massive MIMO. , 2018, , 1-4.		0
158	Omnidirectional Transmission for Massive MIMO. , 2020, , 1040-1043.		0
159	Improvement of the Cluster-Level Spatial Consistency of Channel Simulator With Reference Points Transition Method. IEEE Transactions on Vehicular Technology, 2022, 71, 5867-5879.	6.3	0