

Cai-jun Zhong

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

216
papers

5,278
citations

41
h-index

65
g-index

270
ext. papers

6,668
ext. citations

6.1
avg, IF

6.48
L-index

#	Paper	IF	Citations
216	Application of smart antenna technologies in simultaneous wireless information and power transfer 2015 , 53, 86-93		302
215	. <i>IEEE Transactions on Communications</i> , 2014 , 62, 3447-3461	6.9	297
214	Non-Orthogonal Multiple Access With Cooperative Full-Duplex Relaying. <i>IEEE Communications Letters</i> , 2016 , 20, 2478-2481	3.8	223
213	Ergodic Capacity Analysis of Amplify-and-Forward MIMO Dual-Hop Systems. <i>IEEE Transactions on Information Theory</i> , 2010 , 56, 2204-2224	2.8	193
212	Dual-hop systems with noisy relay and interference-limited destination. <i>IEEE Transactions on Communications</i> , 2010 , 58, 764-768	6.9	157
211	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 2182-2195	6.8	140
210	Outage Analysis of Decode-and-Forward Cognitive Dual-Hop Systems With the Interference Constraint in Nakagami- m Fading Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 2875-2879	6.8	139
209	. <i>IEEE Transactions on Communications</i> , 2016 , 64, 1769-1785	6.9	118
208	Wireless Information and Power Transfer in Relay Systems With Multiple Antennas and Interference. <i>IEEE Transactions on Communications</i> , 2015 , 63, 1400-1418	6.9	115
207	Multi-antenna relay aided wireless physical layer security 2015 , 53, 40-46		96
206	Wireless-Powered Communications: Performance Analysis and Optimization. <i>IEEE Transactions on Communications</i> , 2015 , 63, 5178-5190	6.9	92
205	On the Performance of Eigenvalue-Based Cooperative Spectrum Sensing for Cognitive Radio. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2011 , 5, 49-55	7.5	92
204	Exploiting Multiple-Antenna Techniques for Non-Orthogonal Multiple Access. <i>IEEE Journal on Selected Areas in Communications</i> , 2017 , 35, 2207-2220	14.2	84
203	Fully Non-Orthogonal Communication for Massive Access. <i>IEEE Transactions on Communications</i> , 2018 , 66, 1717-1731	6.9	76
202	Multi-Antenna Wireless Legitimate Surveillance Systems: Design and Performance Analysis. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 4585-4599	9.6	70
201	. <i>IEEE Transactions on Communications</i> , 2015 , 63, 1756-1770	6.9	69
200	Performance Analysis of Multiuser Multiple Antenna Relaying Networks with Co-Channel Interference and Feedback Delay. <i>IEEE Transactions on Communications</i> , 2014 , 62, 59-73	6.9	67

199	. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 180-191	14.2	67
198	. <i>IEEE Transactions on Communications</i> , 2015 , 63, 4879-4893	6.9	64
197	Capacity Bounds for MIMO Nakagami- m Fading Channels. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 3613-3623	4.8	64
196	Performance Analysis of Intelligent Reflecting Surface Aided Communication Systems. <i>IEEE Communications Letters</i> , 2020 , 24, 2464-2468	3.8	63
195	Unsupervised Learning for Passive Beamforming. <i>IEEE Communications Letters</i> , 2020 , 24, 1052-1056	3.8	60
194	Exploiting Inter-User Interference for Secure Massive Non-Orthogonal Multiple Access. <i>IEEE Journal on Selected Areas in Communications</i> , 2018 , 36, 788-801	14.2	56
193	Outage and Diversity of Cognitive Relaying Systems under Spectrum Sharing Environments in Nakagami- m Fading. <i>IEEE Communications Letters</i> , 2012 , 16, 2075-2078	3.8	56
192	. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6843-6856	9.6	54
191	Performance Analysis of Dual-Hop AF Systems With Interference in Nakagami- m Fading Channels. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 454-457	3.2	54
190	Proactive Eavesdropping in Relaying Systems. <i>IEEE Signal Processing Letters</i> , 2017 , 24, 917-921	3.2	52
189	Deep Learning for Spectrum Sensing. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 1727-1730	5.9	52
188	Sum Rate Optimization for Two Way Communications With Intelligent Reflecting Surface. <i>IEEE Communications Letters</i> , 2020 , 24, 1090-1094	3.8	52
187	Full-Duplex Massive MIMO Relaying Systems With Low-Resolution ADCs. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 5033-5047	9.6	50
186	Outage Probability of Dual-Hop Multiple Antenna AF Relaying Systems with Interference. <i>IEEE Transactions on Communications</i> , 2013 , 61, 108-119	6.9	49
185	Some new research trends in wirelessly powered communications. <i>IEEE Wireless Communications</i> , 2016 , 23, 19-27	13.4	48
184	Location Information Aided Multiple Intelligent Reflecting Surface Systems. <i>IEEE Transactions on Communications</i> , 2020 , 68, 7948-7962	6.9	47
183	Cell-Free Massive MIMO Systems With Low Resolution ADCs. <i>IEEE Transactions on Communications</i> , 2019 , 67, 6844-6857	6.9	45
182	Symbol Detection of Ambient Backscatter Systems With Manchester Coding. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 4028-4038	9.6	44

181	. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 4341-4353	4.8	44
180	Spatial Modulation Assisted Multi-Antenna Non-Orthogonal Multiple Access. <i>IEEE Wireless Communications</i> , 2018 , 25, 61-67	13.4	43
179	Full-Duplex Non-Orthogonal Multiple Access for Next Generation Wireless Systems. <i>IEEE Communications Magazine</i> , 2019 , 57, 110-116	9.1	41
178	Integration of Energy, Computation and Communication in 6G Cellular Internet of Things. <i>IEEE Communications Letters</i> , 2020 , 24, 1333-1337	3.8	41
177	Outage Probability of Dual-Hop Multiple Antenna AF Systems with Linear Processing in the Presence of Co-Channel Interference. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 2308-2321	9.6	41
176	Ergodic Capacity Comparison of Different Relay Precoding Schemes in Dual-Hop AF Systems With Co-Channel Interference. <i>IEEE Transactions on Communications</i> , 2014 , 62, 2314-2328	6.9	41
175	Optimization and Analysis of Wireless Powered Multi-Antenna Cooperative Systems. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3267-3281	9.6	38
174	Programmable Metasurface-Based Multicast Systems: Design and Analysis. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 1763-1776	14.2	38
173	Robust Design for Intelligent Reflecting Surfaces Assisted MISO Systems. <i>IEEE Communications Letters</i> , 2020 , 24, 2353-2357	3.8	37
172	Secrecy Performance of Wirelessly Powered Wiretap Channels. <i>IEEE Transactions on Communications</i> , 2016 , 64, 3858-3871	6.9	37
171	A Unified Design of Massive Access for Cellular Internet of Things. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 3934-3947	10.7	37
170	Optimum Wirelessly Powered Relaying. <i>IEEE Signal Processing Letters</i> , 2015 , 1-1	3.2	36
169	Generic Ergodic Capacity Bounds for Fixed-Gain AF Dual-Hop Relaying Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 3814-3824	6.8	35
168	Multipair Massive MIMO Relaying Systems With One-Bit ADCs and DACs. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 2984-2997	4.8	34
167	. <i>IEEE Transactions on Communications</i> , 2014 , 62, 4241-4254	6.9	34
166	Outage Analysis of Spectrum Sharing Relay Systems With Multiple Secondary Destinations Under Primary User's Interference. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 3456-3464	6.8	31
165	Statistical CSI based design for intelligent reflecting surface assisted MISO systems. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	30
164	A Split-Reduced Successive Cancellation List Decoder for Polar Codes. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 292-302	14.2	30

163	Cluster Grouping and Power Control For Angle-Domain MmWave MIMO NOMA Systems. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2019 , 13, 1167-1180	7.5	30
162	Distribution of the Ratio of the Largest Eigenvalue to the Trace of Complex Wishart Matrices. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 5527-5532	4.8	30
161	One-Bit Quantized Massive MIMO Detection Based on Variational Approximate Message Passing. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 2358-2373	4.8	28
160	Power Beacon Assisted Wiretap Channels With Jamming. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 8353-8367	9.6	28
159	Design, Analysis, and Optimization of a Large Intelligent Reflecting Surface-Aided B5G Cellular Internet of Things. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 8902-8916	10.7	27
158	Design of Non-Orthogonal Beamspace Multiple Access for Cellular Internet-of-Things. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2019 , 13, 538-552	7.5	25
157	. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 1730-1740	6.8	25
156	Full-duplex MIMO relaying powered by wireless energy transfer 2015 ,		24
155	On the Capacity of Wireless Powered Communication Systems Over Rician Fading Channels. <i>IEEE Transactions on Communications</i> , 2018 , 66, 404-417	6.9	24
154	Robust Resource Allocation for Secrecy Wireless Powered Communication Networks. <i>IEEE Communications Letters</i> , 2016 , 20, 2430-2433	3.8	24
153	Performance of downlink massive MIMO in rician fading channels with ZF precoder 2015 ,		23
152	Wireless Powered Dual-Hop Multi-Antenna Relaying Systems: Impact of CSI and Antenna Correlation. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2505-2519	9.6	21
151	Capacity analysis of UCA-based OAM multiplexing communication system 2015 ,		21
150	Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 1959-1970	10.7	21
149	. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1754-1763	9.6	20
148	Wireless Powered Communication Networks With Non-Ideal Circuit Power Consumption. <i>IEEE Communications Letters</i> , 2017 , 21, 1429-1432	3.8	19
147	Multipair Two-Way Half-Duplex DF Relaying With Massive Arrays and Imperfect CSI. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 3269-3283	9.6	18
146	On the Capacity of Dual-Hop Multiple Antenna AF Relaying Systems with Feedback Delay and CCI. <i>IEEE Communications Letters</i> , 2013 , 17, 1200-1203	3.8	18

145	. <i>IEEE Transactions on Communications</i> , 2011 , 59, 1309-1320	6.9	18
144	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 1-1	6.8	18
143	Secrecy Analysis of MIMO Wiretap Channels With Low-Complexity Receivers Under Imperfect Channel Estimation. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 257-270	8	17
142	Distributed resource allocation for D2D communication underlying cellular networks 2013 ,		17
141	Unsupervised Learning-Based Joint Active and Passive Beamforming Design for Reconfigurable Intelligent Surfaces Aided Wireless Networks. <i>IEEE Communications Letters</i> , 2021 , 25, 892-896	3.8	17
140	Intelligent Reflecting Surface Aided Multicasting With Random Passive Beamforming. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 92-96	5.9	17
139	Performance of Rayleigh-Product MIMO Channels with Linear Receivers. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 2270-2281	9.6	16
138	Performance Analysis of Orthogonal STBC in Generalized- α - β Fading MIMO Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 1473-1479	6.8	16
137	Outage-Constrained Robust Design for Sustainable B5G Cellular Internet of Things. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5780-5790	9.6	16
136	Nonlinear Precoding for Multipair Relay Networks With One-Bit ADCs and DACs. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 303-307	3.2	15
135	Asymptotic Secrecy Outage Performance for TAS/MRC Over Correlated Nakagami- m Fading Channels. <i>IEEE Transactions on Communications</i> , 2019 , 67, 7700-7714	6.9	14
134	Maximum-Eigenvalue Detector for Multiple Antenna Ambient Backscatter Communication Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 12411-12415	6.8	14
133	Effective Capacity of Correlated MISO Channels 2011 ,		14
132	Integrated Sensing, Computation and Communication in B5G Cellular Internet of Things. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 332-344	9.6	14
131	Ambient Backscatter Communication Systems With MFSK Modulation. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 2553-2564	9.6	13
130	Physical layer security for massive access in cellular Internet of Things. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	13
129	On the Performance of Eigenvalue-Based Spectrum Sensing for Cognitive Radio 2010 ,		13
128	Asymptotic Analysis for Nakagami- m Fading Channels with Relay Selection 2011 ,		13

127	Low SNR Capacity for MIMO Rician and Rayleigh-Product Fading Channels with Single Co-channel Interferer and Noise. <i>IEEE Transactions on Communications</i> , 2010 , 58, 2549-2560	6.9	13
126	Cooperative Activity Detection: Sourced and Unsourced Massive Random Access Paradigms. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 6578-6593	4.8	13
125	RIS-Assisted Multi-User MISO Communications Exploiting Statistical CSI. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	13
124	2015 ,		12
123	Energy Consumption Analysis of Energy Harvesting Systems with Power Grid. <i>IEEE Wireless Communications Letters</i> , 2013 , 2, 611-614	5.9	12
122	On the capacity of non-uniform phase MIMO nakagami-m fading channels. <i>IEEE Communications Letters</i> , 2010 , 14, 536-538	3.8	12
121	Energy Beamformer and Time Split Design for Wireless Powered Two-Way Relaying Systems. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 3723-3736	9.6	11
120	On the Sum Rate of MIMO Nakagami-m Fading Channels with Linear Receivers. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 3651-3659	9.6	11
119	Performance Analysis of Optimal Single Stream Beamforming in MIMO Dual-Hop AF Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2012 , 30, 1415-1427	14.2	11
118	MIMO rayleigh-product channels with co-channel interference. <i>IEEE Transactions on Communications</i> , 2009 , 57, 1824-1835	6.9	11
117	Outage Probability of Dual-Hop Relay Channels in the Presence of Interference 2009 ,		11
116	Joint User Pairing and Power Allocation Design for Heavy Loaded Full-Duplex Small Cell Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 8989-8993	6.8	10
115	Exact Outage Analysis of Dual-Hop Fixed-Gain AF Relaying with CCI under Dissimilar Nakagami-m Fading. <i>IEEE Communications Letters</i> , 2012 , 16, 1756-1759	3.8	10
114	Deep Learning for Joint Channel Estimation and Signal Detection in OFDM Systems. <i>IEEE Communications Letters</i> , 2020 , 24, 2780-2784	3.8	10
113	Ordinary Differential Equation-Based CNN for Channel Extrapolation Over RIS-Assisted Communication. <i>IEEE Communications Letters</i> , 2021 , 25, 1921-1925	3.8	10
112	Multi-pair two-way AF relaying systems with massive arrays and imperfect CSI 2016 ,		10
111	Semi-Passive Elements Assisted Channel Estimation for Intelligent Reflecting Surface-Aided Communications. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	10
110	Channel Estimation for Uniform Rectangular Array Based Massive MIMO Systems With Low Complexity. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 2545-2556	6.8	9

109	Simplified successive-cancellation decoding using information set reselection for polar codes with arbitrary blocklength. <i>IET Communications</i> , 2015 , 9, 1380-1387	1.3	9
108	Performance of ZF precoder in downlink massive MIMO with non-uniform user distribution. <i>Journal of Communications and Networks</i> , 2016 , 18, 688-698	4.1	9
107	Low-SNR Analysis of MIMO Weibull Fading Channels. <i>IEEE Communications Letters</i> , 2012 , 16, 694-697	3.8	9
106	Deep Reinforcement Learning for Joint Beamwidth and Power Optimization in mmWave Systems. <i>IEEE Communications Letters</i> , 2020 , 24, 2201-2205	3.8	9
105	Robust Design for IRS-Aided Communication Systems With User Location Uncertainty. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 63-67	5.9	9
104	A Novel Design of RIS for Enhancing the Physical Layer Security for RIS-aided NOMA Networks. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9	9
103	Rate Analysis and ADC Bits Allocation for Cell-Free Massive MIMO Systems with Low Resolution ADCs 2018 ,		9
102	Spectral Efficiency of Multipair Massive MIMO Two-Way Relaying With Imperfect CSI. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 6593-6607	6.8	8
101	Millimeter Wave Communication With Active Ambient Perception. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 2751-2764	9.6	8
100	Performance of Proactive Eavesdropping in Dual-Hop Relaying Systems 2017 ,		8
99	Performance of User Selection in Cognitive Broadcast Channels. <i>IEEE Transactions on Communications</i> , 2012 , 60, 3529-3534	6.9	8
98	Outage probability analysis of dual-hop multiple antenna fixed-gain AF relay systems with interference 2012 ,		8
97	Secrecy Performance of Multi-Antenna Wiretap Channels With Diversity Combining Over Correlated Rayleigh Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 444-458	9.6	8
96	An Indoor mmWave Joint Radar and Communication System with Active Channel Perception 2018 ,		8
95	A Low-Complexity Multiuser Adaptive Modulation Scheme for Massive MIMO Systems. <i>IEEE Signal Processing Letters</i> , 2016 , 23, 1464-1468	3.2	7
94	Outage Analysis for Optimal Beamforming MIMO Systems in Multikeyhole Channels. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 1451-1456	4.8	7
93	Performance analysis of distributed MIMO systems in Rayleigh/Inverse-Gaussian fading channels 2012 ,		7
92	Joint Activity Detection and Channel Estimation for mmW/THz Wideband Massive Access 2020 ,		7

91	Feature-Aided Adaptive-Tuning Deep Learning for Massive Device Detection. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 1899-1914	14.2	7
90	On the Secrecy Enhancement With Low-Complexity Large-Scale Transmit Selection in MIMO Generalized Composite Fading. <i>IEEE Wireless Communications Letters</i> , 2015 , 4, 429-432	5.9	6
89	Improving the throughput of wireless powered dual-hop systems with full duplex relaying 2015 ,		6
88	Pilot Contamination Attack Detection Using Random Symbols for Massive MIMO Systems 2017 ,		6
87	Outage Performance of Spectrum Sharing Systems with MRC Diversity under Multiple Primary User's Interference. <i>IEEE Communications Letters</i> , 2014 , 18, 576-579	3.8	6
86	Reliability Analysis for Large MIMO Systems. <i>IEEE Wireless Communications Letters</i> , 2014 , 3, 553-556	5.9	6
85	Performance analysis of fixed-gain AF dual-hop relaying systems over Nakagami-m fading channels in the presence of interference. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2011 , 2011,	3.2	6
84	Performance Analysis of Partial Relay Selection with Feedback Delay in the Presence of Interference 2011 ,		6
83	User Selection in Reconfigurable Intelligent Surface Assisted Communication Systems. <i>IEEE Communications Letters</i> , 2021 , 25, 1353-1357	3.8	6
82	Spectrum Sharing between UAV-based Wireless Mesh Networks and Ground Networks 2018 ,		6
81	Secure Transmission in Cognitive Wiretap Networks 2016 ,		5
80	Multipair full-duplex massive MIMO relaying with low-resolution ADCs and imperfect CSI 2017 ,		5
79	Capacity scaling of relay networks with successive relaying 2015 ,		5
78	Differential Modulation Exploiting the Spatial-Temporal Correlation of Wireless Channels With Moving Antenna Array. <i>IEEE Transactions on Communications</i> , 2015 , 63, 4990-5001	6.9	5
77	Distribution of the Demmel Condition Number of Complex Wishart Matrices 2010 ,		5
76	Error exponents for Rayleigh fading product MIMO channels 2012 ,		5
75	Deep Learning based Channel Estimation for Massive MIMO with Hybrid Transceivers. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	5
74	Angle-Domain Intelligent Reflecting Surface Systems: Design and Analysis. <i>IEEE Transactions on Communications</i> , 2021 , 69, 4202-4215	6.9	5

73	A Low Complexity Encoding Algorithm for Systematic Polar Codes. <i>IEEE Communications Letters</i> , 2016 , 1-1	3.8	5
72	An Attention-Aided Deep Learning Framework for Massive MIMO Channel Estimation. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	5
71	Ambient Backscatter Communication Systems with Multi-Antenna Reader 2018 ,		5
70	On the design of massive access 2017 ,		4
69	Error exponents for Orthogonal STBC in generalized-K fading MIMO channels 2012 ,		4
68	Performance Analysis of Dual-Hop AF Systems in Nakagami-m Fading Channels in the Presence of Interference 2011 ,		4
67	Ergodic sum rate analysis of Rayleigh product MIMO channels with linear MMSE receiver 2011 ,		4
66	Element-Grouping Intelligent Reflecting Surface: Electromagnetic-Compliant Model and Geometry-Based Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	4
65	PCA-Based Channel Estimation and Tracking for Massive MIMO Systems With Uniform Rectangular Arrays. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 6786-6797	9.6	4
64	Robust Convergence of Energy and Computation for 5G Cellular Internet of Things 2019 ,		4
63	Error exponents for multi-keyhole MIMO channels. <i>Problems of Information Transmission</i> , 2015 , 51, 1-19	1.1	3
62	Optimal Detection for Ambient Backscatter Communication Systems With Multiantenna Reader Under Complex Gaussian Illuminator. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 11371-11383	10.7	3
61	Adaptive Channel Estimation and Tracking for URA-Based Massive MIMO Systems. <i>IEEE Access</i> , 2020 , 8, 54213-54224	3.5	3
60	Impact of mobility on the sum rate of an NB-OFDMA based mobile IoT networks 2016 ,		3
59	Interference coordination in full-duplex HetNet with large-scale antenna arrays 2017 ,		3
58	Optimization of Power Beacon Assisted Wireless Powered Two-Way Relaying Systems under User Fairness 2017 ,		3
57	A sequential antenna-hopping scheme for high mobility MIMO communications 2015 ,		3
56	Beamforming and fronthaul compression design for intelligent reflecting surface aided cloud radio access networks. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2022 , 23, 31-46	2.2	3

55	Weighted Sum-Rate of Intelligent Reflecting Surface Aided Multiuser Downlink Transmission with Statistical CSI. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	3
54	Concentrative Intelligent Reflecting Surface Aided Computational Imaging via Fast Block Sparse Bayesian Learning 2021 ,		3
53	A Novel Interference Cancellation Scheme for Bistatic Backscatter Communication Systems. <i>IEEE Communications Letters</i> , 2021 , 25, 2014-2018	3.8	3
52	Robust secure beamforming and power splitting for SWIPT over interference channels 2016 ,		3
51	On the Capacity Scaling of Large Multipair Relay Networks With Successive Relaying Protocol. <i>IEEE Access</i> , 2017 , 5, 5882-5895	3.5	2
50	Energy Efficiency of Massive MIMO Downlink WPT With Mixed-ADCs. <i>IEEE Communications Letters</i> , 2019 , 23, 2316-2320	3.8	2
49	Robust Integration of Computation and Communication in B5G Cellular Internet of Things 2020 ,		2
48	Secrecy Performance of Incremental Relaying with Outdated CSI 2018 ,		2
47	Angle-Domain MmWave MIMO NOMA Systems: Analysis and Design 2019 ,		2
46	Protocol Design and Analysis for Cellular Internet of Things with Massive Access 2019 ,		2
45	Impact of Mobility on the Uplink Sum Rate of MIMO-OFDMA Cellular Systems. <i>IEEE Transactions on Communications</i> , 2017 , 1-1	6.9	2
44	Performance comparison of different transmission schemes in uplink massive MIMO systems with dual-antenna users 2015 ,		2
43	Wireless powered dual-hop multiple antenna relay transmission in the presence of interference 2015 ,		2
42	Exploiting cooperative multipath Doppler diversity in relay-assisted high-speed train communications. <i>Science Bulletin</i> , 2014 , 59, 5019-5028		2
41	Performance analysis of partial relay selection with feedback delay in the presence of interference in Nakagami-m fading channels 2013 ,		2
40	Sum rate analysis of ZF receivers in distributed MIMO systems with Rayleigh/Lognormal fading 2012 ,		2
39	Feasibility conditions of linear multiuser MIMO systems in the asymptotic regime. <i>IEEE Communications Letters</i> , 2007 , 11, 979-981	3.8	2
38	Accelerating Federated Edge Learning via Optimized Probabilistic Device Scheduling 2021 ,		2

37	On the Design of B5G Multi-Beam LEO Satellite Internet of Things 2020 ,		2
36	Incremental Massive Random Access Exploiting the Nested Reed-Muller Sequences. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 2917-2932	9.6	2
35	Fronthaul Compression and Beamforming Optimization for Uplink C-RAN With Intelligent Reflecting Surface-Enhanced Wireless Fronthauling. <i>IEEE Communications Letters</i> , 2021 , 25, 1979-1983	3.8	2
34	Secrecy outage probability of wirelessly powered wiretap channels 2016 ,		2
33	Robust Beamforming Design for SWIPT in Cellular Internet of Things 2019 ,		2
32	The Era of Wireless Information and Power Transfer 2018 , 1-16		2
31	Sum Rate Maximization in UAV-Enabled Mobile Relay Networks 2018 ,		2
30	Low-cost intelligent reflecting surface aided Terahertz multiuser massive MIMO: design and analysis. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	2
29	Reconfigurable Intelligent Surface Based Orbital Angular Momentum: Architecture, Opportunities, and Challenges. <i>IEEE Wireless Communications</i> , 2021 , 28, 132-137	13.4	2
28	Communication-efficient Federated Edge Learning via Optimal Probabilistic Device Scheduling. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	2
27	Optimization and Analysis of Wireless Powered Multi-Antenna Two-Way Relaying Systems. <i>IEEE Transactions on Communications</i> , 2020 , 68, 2048-2060	6.9	1
26	Energy-Efficient Opportunistic Packet Scheduling in Mobile Relay Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 5327-5336	6.8	1
25	Performance analysis of interference-limited dual-hop multiple antenna AF relaying systems with feedback delay. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2013 , 2013,	3.2	1
24	Outage analysis of spectrum sharing relay systems with multi-secondary destinations in the presence of primary user's interference 2013 ,		1
23	Channel Estimation and Rate Analysis for Multipair Massive MIMO Relaying with One-Bit Quantization 2017 ,		1
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