

# Zhaoyang Zhang

## List of Publications by Year in descending order

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408  
papers

8,284  
citations

57631

44  
h-index

69108

77  
g-index

408  
all docs

408  
docs citations

408  
times ranked

5527  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Information and Power Transfer With Full Duplex Relaying. IEEE Transactions on Communications, 2014, 62, 3447-3461.	4.9	358
2	Channel Estimation for RIS-Empowered Multi-User MISO Wireless Communications. IEEE Transactions on Communications, 2021, 69, 4144-4157.	4.9	336
3	Non-Orthogonal Multiple Access With Cooperative Full-Duplex Relaying. IEEE Communications Letters, 2016, 20, 2478-2481.	2.5	284
4	Wireless Energy and Information Transfer Tradeoff for Limited-Feedback Multiantenna Systems With Energy Beamforming. IEEE Transactions on Vehicular Technology, 2014, 63, 407-412.	3.9	276
5	Diffusion Sparse Least-Mean Squares Over Networks. IEEE Transactions on Signal Processing, 2012, 60, 4480-4485.	3.2	244
6	Diffusion Information Theoretic Learning for Distributed Estimation Over Network. IEEE Transactions on Signal Processing, 2013, 61, 4011-4024.	3.2	243
7	Multi-Hop RIS-Empowered Terahertz Communications: A DRL-Based Hybrid Beamforming Design. IEEE Journal on Selected Areas in Communications, 2021, 39, 1663-1677.	9.7	202
8	On cognitive radio networks with opportunistic power control strategies in fading channels. IEEE Transactions on Wireless Communications, 2008, 7, 2752-2761.	6.1	199
9	Wireless Information and Power Transfer in Relay Systems With Multiple Antennas and Interference. IEEE Transactions on Communications, 2015, 63, 1400-1418.	4.9	141
10	Delay-Constrained Hybrid Computation Offloading With Cloud and Fog Computing. IEEE Access, 2017, 5, 21355-21367.	2.6	123
11	Wireless-Powered Communications: Performance Analysis and Optimization. IEEE Transactions on Communications, 2015, 63, 5178-5190.	4.9	117
12	Deep Learning for Spectrum Sensing. IEEE Wireless Communications Letters, 2019, 8, 1727-1730.	3.2	115
13	Location Information Aided Multiple Intelligent Reflecting Surface Systems. IEEE Transactions on Communications, 2020, 68, 7948-7962.	4.9	114
14	Exploiting Multiple-Antenna Techniques for Non-Orthogonal Multiple Access. IEEE Journal on Selected Areas in Communications, 2017, 35, 2207-2220.	9.7	109
15	Unsupervised Learning for Passive Beamforming. IEEE Communications Letters, 2020, 24, 1052-1056.	2.5	109
16	Fully Non-Orthogonal Communication for Massive Access. IEEE Transactions on Communications, 2018, 66, 1717-1731.	4.9	101
17	Sum-Rate and Power Scaling of Massive MIMO Systems With Channel Aging. IEEE Transactions on Communications, 2015, 63, 4879-4893.	4.9	98
18	Multi-Antenna Wireless Legitimate Surveillance Systems: Design and Performance Analysis. IEEE Transactions on Wireless Communications, 2017, 16, 4585-4599.	6.1	98

#	ARTICLE	IF	CITATIONS
19	Sum Rate Optimization for Two Way Communications With Intelligent Reflecting Surface. IEEE Communications Letters, 2020, 24, 1090-1094.	2.5	89
20	On the Secrecy Capacity of Fading Wireless Channel with Multiple Eavesdroppers. , 2007, , .		86
21	Edge Caching at Base Stations With Device-to-Device Offloading. IEEE Access, 2017, 5, 6399-6410.	2.6	81
22	Programmable Metasurface-Based Multicast Systems: Design and Analysis. IEEE Journal on Selected Areas in Communications, 2020, 38, 1763-1776.	9.7	77
23	Integration of Energy, Computation and Communication in 6G Cellular Internet of Things. IEEE Communications Letters, 2020, 24, 1333-1337.	2.5	77
24	Cell-Free Massive MIMO Systems With Low Resolution ADCs. IEEE Transactions on Communications, 2019, 67, 6844-6857.	4.9	76
25	A distributed relay selection method for relay assisted Device-to-Device communication system. , 2012, , .		71
26	Terahertz Wireless Communications for 2030 and Beyond: A Cutting-Edge Frontier. IEEE Communications Magazine, 2021, 59, 66-72.	4.9	71
27	Exploiting Inter-User Interference for Secure Massive Non-Orthogonal Multiple Access. IEEE Journal on Selected Areas in Communications, 2018, 36, 788-801.	9.7	70
28	Robust Design for Intelligent Reflecting Surfaces Assisted MISO Systems. IEEE Communications Letters, 2020, 24, 2353-2357.	2.5	70
29	Power Control for Sum-Rate Maximization on Interference Channels Under Sum Power Constraint. IEEE Transactions on Vehicular Technology, 2015, 64, 593-609.	3.9	67
30	Proactive Eavesdropping in Relaying Systems. IEEE Signal Processing Letters, 2017, 24, 917-921.	2.1	67
31	Full-Duplex Massive MIMO Relaying Systems With Low-Resolution ADCs. IEEE Transactions on Wireless Communications, 2017, 16, 5033-5047.	6.1	64
32	Symbol Detection of Ambient Backscatter Systems With Manchester Coding. IEEE Transactions on Wireless Communications, 2018, 17, 4028-4038.	6.1	64
33	Robust Design for NOMA-Based Multibeam LEO Satellite Internet of Things. IEEE Internet of Things Journal, 2021, 8, 1959-1970.	5.5	64
34	Grant-Free Rateless Multiple Access: A Novel Massive Access Scheme for Internet of Things. IEEE Communications Letters, 2016, 20, 2019-2022.	2.5	61
35	Design, Analysis, and Optimization of a Large Intelligent Reflecting Surface-Aided B5G Cellular Internet of Things. IEEE Internet of Things Journal, 2020, 7, 8902-8916.	5.5	61
36	Distributed cache replacement for caching-enable base stations in cellular networks. , 2014, , .		60

#	ARTICLE	IF	CITATIONS
37	Modeling Epidemics Spreading on Social Contact Networks. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 410-419.	3.2	60
38	Cooperative ARQ in Wireless Networks: Protocols Description and Performance Analysis. , 2006, , .		58
39	Outage Probability of Dual-Hop Multiple Antenna AF Relaying Systems with Interference. IEEE Transactions on Communications, 2013, 61, 108-119.	4.9	57
40	Performance Evaluation of Channel Decoding with Deep Neural Networks. , 2018, , .		56
41	A Split-Reduced Successive Cancellation List Decoder for Polar Codes. IEEE Journal on Selected Areas in Communications, 2016, 34, 292-302.	9.7	55
42	RIS-Assisted Multi-User MISO Communications Exploiting Statistical CSI. IEEE Transactions on Communications, 2021, 69, 6781-6792.	4.9	55
43	Outage Probability of Dual-Hop Multiple Antenna AF Systems with Linear Processing in the Presence of Co-Channel Interference. IEEE Transactions on Wireless Communications, 2014, 13, 2308-2321.	6.1	54
44	Ergodic Capacity Comparison of Different Relay Precoding Schemes in Dual-Hop AF Systems With Co-Channel Interference. IEEE Transactions on Communications, 2014, 62, 2314-2328.	4.9	54
45	A Unified Design of Massive Access for Cellular Internet of Things. IEEE Internet of Things Journal, 2019, 6, 3934-3947.	5.5	54
46	Power-Aware Cooperative Relay Selection Strategies in Wireless Ad Hoc Networks. , 2006, , .		51
47	Joint Channel Estimation and Signal Recovery for RIS-Empowered Multiuser Communications. IEEE Transactions on Communications, 2022, 70, 4640-4655.	4.9	49
48	Secrecy Performance of Wirelessly Powered Wiretap Channels. IEEE Transactions on Communications, 2016, 64, 3858-3871.	4.9	46
49	One-Bit Quantized Massive MIMO Detection Based on Variational Approximate Message Passing. IEEE Transactions on Signal Processing, 2018, 66, 2358-2373.	3.2	46
50	Multipair Massive MIMO Relaying Systems With One-Bit ADC&lt;roman>s&lt;/roman> and DAC&lt;roman>s&lt;/roman>. IEEE Transactions on Signal Processing, 2018, 66, 2984-2997.	3.2	46
51	Multi-User Holographic MIMO Surfaces: Channel Modeling and Spectral Efficiency Analysis. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 1112-1124.	7.3	45
52	Optimum Wirelessly Powered Relaying. IEEE Signal Processing Letters, 2015, , 1-1.	2.1	44
53	Optimization and Analysis of Wireless Powered Multi-Antenna Cooperative Systems. IEEE Transactions on Wireless Communications, 2017, 16, 3267-3281.	6.1	44
54	On the achievable rate region of gaussian cognitive multiple access channel. IEEE Communications Letters, 2007, 11, 384-386.	2.5	43

#	ARTICLE	IF	CITATIONS
55	On distributed antenna systems with limited feedback precoding: Opportunities and challenges. IEEE Wireless Communications, 2010, 17, 80-88.	6.6	42
56	Joint Multi-User Communication and Sensing Exploiting Both Signal and Environment Sparsity. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1409-1422.	7.3	42
57	Cluster Grouping and Power Control For Angle-Domain MmWave MIMO NOMA Systems. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1167-1180.	7.3	41
58	Power Beacon Assisted Wiretap Channels With Jamming. IEEE Transactions on Wireless Communications, 2016, 15, 8353-8367.	6.1	39
59	Closed-Form Delay-Optimal Computation Offloading in Mobile Edge Computing Systems. IEEE Transactions on Wireless Communications, 2019, 18, 4653-4667.	6.1	39
60	Capacity Bounds for AF Dual-hop Relaying in $\alpha$ - $\beta$ Fading Channels. IEEE Transactions on Vehicular Technology, 2012, 61, 1730-1740.	3.9	38
61	Efficient ARQ protocols for exploiting cooperative relaying in wireless sensor networks. Computer Communications, 2007, 30, 2765-2773.	3.1	37
62	UCA-based orbital angular momentum radio beam generation and reception under different array configurations. , 2014, , .		37
63	Design and Analysis of MEC- and Proactive Caching-Based $360^\circ$ Mobile VR Video Streaming. IEEE Transactions on Multimedia, 2022, 24, 1529-1544.	5.2	37
64	Distributed resource allocation for D2D communication underlying cellular networks. , 2013, , .		36
65	On the Capacity of Wireless Powered Communication Systems Over Rician Fading Channels. IEEE Transactions on Communications, 2018, 66, 404-417.	4.9	34
66	Design of Non-Orthogonal BeamSpace Multiple Access for Cellular Internet-of-Things. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 538-552.	7.3	34
67	Integrated Sensing, Computation and Communication in 5G Cellular Internet of Things. IEEE Transactions on Wireless Communications, 2021, 20, 332-344.	6.1	34
68	Distributed Spectrum-Aware Clustering in Cognitive Radio Sensor Networks. , 2011, , .		33
69	Cooperative Activity Detection: Sourced and Unsourced Massive Random Access Paradigms. IEEE Transactions on Signal Processing, 2020, 68, 6578-6593.	3.2	33
70	Progressive Bit-Flipping Decoding of Polar Codes: A Critical-Set Based Tree Search Approach. IEEE Access, 2018, 6, 57738-57750.	2.6	29
71	Prediction-Based Spectrum Aggregation with Hardware Limitation in Cognitive Radio Networks. , 2010, , .		28
72	Exploiting Channel Angular Domain Information for Precoder Design in Distributed Antenna Systems. IEEE Transactions on Signal Processing, 2010, 58, 5791-5801.	3.2	28

#	ARTICLE	IF	CITATIONS
73	An Attention-Aided Deep Learning Framework for Massive MIMO Channel Estimation. IEEE Transactions on Wireless Communications, 2022, 21, 1823-1835.	6.1	28
74	Optimal Distributed Subchannel, Rate and Power Allocation Algorithm in OFDM-Based Two-Tier Femtocell Networks. , 2010, , .		27
75	Gossip-Based Information Spreading in Mobile Networks. IEEE Transactions on Wireless Communications, 2013, 12, 5918-5928.	6.1	27
76	Video Surveillance on Mobile Edge Networksâ€”A Reinforcement-Learning-Based Approach. IEEE Internet of Things Journal, 2020, 7, 4746-4760.	5.5	27
77	Joint Network-Channel Coding with Rateless Code over Multiple Access Relay System. IEEE Transactions on Wireless Communications, 2013, 12, 320-332.	6.1	26
78	Cluster-Based Epidemic Control through Smartphone-Based Body Area Networks. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 681-690.	4.0	26
79	Wireless Powered Dual-Hop Multi-Antenna Relaying Systems: Impact of CSI and Antenna Correlation. IEEE Transactions on Wireless Communications, 2017, 16, 2505-2519.	6.1	26
80	Universal Filtered Multi-Carrier Transmission With Adaptive Active Interference Cancellation. IEEE Transactions on Communications, 2017, 65, 2554-2567.	4.9	26
81	Learn to Sense: A Meta-Learning-Based Sensing and Fusion Framework for Wireless Sensor Networks. IEEE Internet of Things Journal, 2019, 6, 8215-8227.	5.5	26
82	Joint Active User Detection and Channel Estimation in Massive Access Systems Exploiting Reedâ€”Muller Sequences. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 739-752.	7.3	26
83	Performance of downlink massive MIMO in rician fading channels with ZF precoder. , 2015, , .		25
84	Multipair Two-Way Half-Duplex DF Relaying With Massive Arrays and Imperfect CSI. IEEE Transactions on Wireless Communications, 2018, 17, 3269-3283.	6.1	25
85	Outage-Constrained Robust Design for Sustainable B5G Cellular Internet of Things. IEEE Transactions on Wireless Communications, 2019, 18, 5780-5790.	6.1	25
86	Physical layer security for massive access in cellular Internet of Things. Science China Information Sciences, 2020, 63, 1.	2.7	25
87	Energy Efficient Joint Source and Channel Sensing in Cognitive Radio Sensor Networks. , 2011, , .		24
88	Adaptive Mode Selection for Multiuser MIMO Downlink Employing Rateless Codes with QoS Provisioning. IEEE Transactions on Wireless Communications, 2012, 11, 790-799.	6.1	24
89	Effective Relay Selection for Underwater Cooperative Acoustic Networks. , 2013, , .		24
90	An Orbital Angular Momentum-Based In-Band Full-Duplex Communication System and Its Mode Selection. IEEE Communications Letters, 2017, 21, 1183-1186.	2.5	24

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91	Asynchronous Federated Learning Over Wireless Communication Networks. IEEE Transactions on Wireless Communications, 2022, 21, 6961-6978.	6.1	24
92	Subcarrier and bit allocation for OFDMA systems with proportional fairness. , 2006, , .		23
93	Wireless information and energy transfer in interference aware massive MIMO systems. , 2014, , .		23
94	Byzantine Attacker Identification in Collaborative Spectrum Sensing: A Robust Defense Framework. IEEE Transactions on Mobile Computing, 2019, 18, 1992-2004.	3.9	23
95	Distributed Packet Forwarding and Caching Based on Stochastic Network Utility Maximization. IEEE/ACM Transactions on Networking, 2018, 26, 1264-1277.	2.6	22
96	Maximum-Eigenvalue Detector for Multiple Antenna Ambient Backscatter Communication Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 12411-12415.	3.9	22
97	Content Caching Oriented Popularity Prediction: A Weighted Clustering Approach. IEEE Transactions on Wireless Communications, 2021, 20, 623-636.	6.1	22
98	Optimal Partner Selection Strategies in Wireless Cooperative Networks with Fixed and Variable Transmit Power. , 2007, , .		21
99	Performance of Rayleigh-Product MIMO Channels with Linear Receivers. IEEE Transactions on Wireless Communications, 2014, 13, 2270-2281.	6.1	21
100	Feature-Aided Adaptive-Tuning Deep Learning for Massive Device Detection. IEEE Journal on Selected Areas in Communications, 2021, 39, 1899-1914.	9.7	21
101	Communication-Efficient Federated Learning With Binary Neural Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 3836-3850.	9.7	21
102	Integrating Sensing, Computing, and Communication in 6G Wireless Networks: Design and Optimization. IEEE Transactions on Communications, 2022, 70, 6212-6227.	4.9	21
103	Energy-efficient spectrum-aware clustering for cognitive radio sensor networks. Science Bulletin, 2012, 57, 3731-3739.	1.7	20
104	Effective epidemic control and source tracing through mobile social sensing over WBANs. , 2013, , .		20
105	Ambient Backscatter Communication Systems With MFSK Modulation. IEEE Transactions on Wireless Communications, 2019, 18, 2553-2564.	6.1	20
106	Nonlinear Precoding for Multipair Relay Networks With One-Bit ADCs and DACs. IEEE Signal Processing Letters, 2018, 25, 303-307.	2.1	19
107	Distributed Jointly Sparse Multitask Learning Over Networks. IEEE Transactions on Cybernetics, 2018, 48, 151-164.	6.2	19
108	Deep Reinforcement Learning for Joint Beamwidth and Power Optimization in mmWave Systems. IEEE Communications Letters, 2020, 24, 2201-2205.	2.5	19

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109	A Novel Resource Allocation Algorithm for Real-time Services in Multiuser OFDM Systems. , 0, , .		18
110	Joint Activity Detection and Channel Estimation for mmW/THz Wideband Massive Access. , 2020, , .		18
111	Robust Design for IRS-Aided Communication Systems With User Location Uncertainty. IEEE Wireless Communications Letters, 2021, 10, 63-67.	3.2	18
112	User Selection in Reconfigurable Intelligent Surface Assisted Communication Systems. IEEE Communications Letters, 2021, 25, 1353-1357.	2.5	17
113	On the Sum Rate of MIMO Nakagami-m Fading Channels with Linear Receivers. IEEE Transactions on Wireless Communications, 2012, 11, 3651-3659.	6.1	16
114	Exploiting large-scale MIMO techniques for physical layer security with imperfect channel state information. , 2014, , .		16
115	Study on Network Selection for Next-Generation Heterogeneous Wireless Networks. , 2006, , .		15
116	Reed-Muller Sequences for 5G Grant-Free Massive Access. , 2017, , .		15
117	Millimeter Wave Communication With Active Ambient Perception. IEEE Transactions on Wireless Communications, 2019, 18, 2751-2764.	6.1	15
118	Angle-Domain Intelligent Reflecting Surface Systems: Design and Analysis. IEEE Transactions on Communications, 2021, 69, 4202-4215.	4.9	15
119	Exploiting Simultaneous Low-Rank and Sparsity in Delay-Angular Domain for Millimeter-Wave/Terahertz Wideband Massive Access. IEEE Transactions on Wireless Communications, 2022, 21, 2336-2351.	6.1	15
120	Resource Allocation in OFDM based Multihop Wireless Networks. , 0, , .		14
121	A Study on Cell Search Algorithms for IEEE 802.16e OFDMA Systems. , 2007, , .		14
122	Simplified successive cancellation decoding using information set reselection for polar codes with arbitrary blocklength. IET Communications, 2015, 9, 1380-1387.	1.5	14
123	Delay-aware massive random access for machine-type communications via hierarchical stochastic learning. , 2017, , .		14
124	Rate Analysis and ADC Bits Allocation for Cell-Free Massive MIMO Systems with Low Resolution ADCs. , 2018, , .		14
125	Concentrative Intelligent Reflecting Surface Aided Computational Imaging via Fast Block Sparse Bayesian Learning. , 2021, , .		14
126	Theory and techniques for intelligent wireless networks. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 1-4.	1.5	14



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127	Partial Channel State Information Based Cooperative Relaying and Partner Selection. , 2007, , .		13
128	On the transmission opportunity and TCP throughput in cognitive radio networks. International Journal of Communication Systems, 2014, 27, 303-321.	1.6	13
129	A Low-Complexity Multiuser Adaptive Modulation Scheme for Massive MIMO Systems. IEEE Signal Processing Letters, 2016, 23, 1464-1468.	2.1	13
130	Energy Beamformer and Time Split Design for Wireless Powered Two-Way Relaying Systems. IEEE Transactions on Wireless Communications, 2018, 17, 3723-3736.	6.1	13
131	An Indoor mmWave Joint Radar and Communication System with Active Channel Perception. , 2018, , .		13
132	Load scheduling for distributed edge computing: A communication-computation tradeoff. Peer-to-Peer Networking and Applications, 2019, 12, 1418-1432.	2.6	13
133	A Column Generation Approach for Spectrum Allocation in Cognitive Wireless Mesh Network. , 2008, , .		12
134	Sensing error aware delay-optimal channel allocation scheme for cognitive radio networks. Telecommunication Systems, 2013, 52, 1895-1904.	1.6	12
135	Joint Network-Channel Coding with Rateless Code in Two-Way Relay Systems. IEEE Transactions on Wireless Communications, 2013, 12, 3158-3169.	6.1	12
136	On the Capacity Region of Cognitive Multiple Access over White Space Channels. IEEE Journal on Selected Areas in Communications, 2013, 31, 2517-2527.	9.7	12
137	Multi-pair two-way AF relaying systems with massive arrays and imperfect CSI. , 2016, , .		12
138	Performance of ZF precoder in downlink massive MIMO with non-uniform user distribution. Journal of Communications and Networks, 2016, 18, 688-698.	1.8	12
139	Virtual-MIMO-Boosted Information Propagation on Highways. IEEE Transactions on Wireless Communications, 2016, 15, 1420-1431.	6.1	12
140	Joint User Pairing and Power Allocation Design for Heavy Loaded Full-Duplex Small Cell Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 8989-8993.	3.9	12
141	Spectral Efficiency of Multipair Massive MIMO Two-Way Relaying With Imperfect CSI. IEEE Transactions on Vehicular Technology, 2019, 68, 6593-6607.	3.9	12
142	Deep Learning-Based Channel Estimation for Massive MIMO With Hybrid Transceivers. IEEE Transactions on Wireless Communications, 2022, 21, 5162-5174.	6.1	12
143	Unsourced Random Massive Access With Beam-Space Tree Decoding. IEEE Journal on Selected Areas in Communications, 2022, 40, 1146-1161.	9.7	12
144	Adaptive subcarrier and bit allocation in OFDMA systems supporting heterogeneous services. Wireless Personal Communications, 2007, 43, 1057-1070.	1.8	11

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145	Optimal Resource Allocation for Cognitive Radio Networks with Imperfect Spectrum Sensing. , 2010, , .		11
146	Opportunistic forwarding in energy harvesting mobile delay tolerant networks. , 2014, , .		11
147	Performance of Proactive Eavesdropping in Dual-Hop Relaying Systems. , 2017, , .		11
148	High-Speed and Low-Power Silicon Optical Phased Array Based on the Carrier-Depletion Mechanism. IEEE Photonics Technology Letters, 2022, 34, 271-274.	1.3	11
149	Opportunistic Spectrum Access in Cognitive Radio System Employing Cooperative Spectrum Sensing. , 2009, , .		10
150	Rateless Multiple Access over Erasure Channel. , 2010, , .		10
151	Initial spectrum access control with QoS protection for active users in cognitive wireless networks. International Journal of Communication Systems, 2012, 25, 636-651.	1.6	10
152	Distributed Active Learning. IEEE Access, 2016, 4, 2572-2579.	2.6	10
153	Distance-Based Energy-Efficient Opportunistic Broadcast Forwarding in Mobile Delay-Tolerant Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 5512-5524.	3.9	10
154	Optimal Detection for Ambient Backscatter Communication Systems With Multiantenna Reader Under Complex Gaussian Illuminator. IEEE Internet of Things Journal, 2020, 7, 11371-11383.	5.5	10
155	Asynchronous Federated Learning over Wireless Communication Networks. , 2021, , .		10
156	Reinforcement Learning-based Mobile Edge Computing and Transmission Scheduling for Video Surveillance. IEEE Transactions on Emerging Topics in Computing, 2021, , 1-1.	3.2	10
157	Environment Sensing Considering the Occlusion Effect: A Multi-View Approach. IEEE Transactions on Signal Processing, 2022, 70, 3598-3615.	3.2	10
158	Performance-Enhanced Federated Learning With Differential Privacy for Internet of Things. IEEE Internet of Things Journal, 2022, 9, 24079-24094.	5.5	10
159	All digital tracking loop for OFDM symbol timing. , 2003, , .		9
160	Distributed compressed wideband sensing in Cognitive Radio Sensor Networks. , 2011, , .		9
161	A POMDP-based optimal spectrum sensing and access scheme for cognitive radio networks with hardware limitation. , 2012, , .		9
162	Belief propagation with gradual edge removal for Raptor codes over AWGN channel. , 2013, , .		9

#	ARTICLE	IF	CITATIONS
163	Mobile conductance in sparse networks and mobility-connectivity tradeoff. , 2014, , .		9
164	Improving the throughput of wireless powered dual-hop systems with full duplex relaying. , 2015, , .		9
165	User Behavior-Aware Scheduling Based on Time-Frequency Resource Conversion. IEEE Transactions on Vehicular Technology, 2017, 66, 8429-8444.	3.9	9
166	Distributed ADMM With Synergetic Communication and Computation. IEEE Transactions on Communications, 2021, 69, 501-517.	4.9	9
167	Online Deep Neural Network for Optimization in Wireless Communications. IEEE Wireless Communications Letters, 2022, 11, 933-937.	3.2	9
168	C-GRBFnet: A Physics-Inspired Generative Deep Neural Network for Channel Representation and Prediction. IEEE Journal on Selected Areas in Communications, 2022, 40, 2282-2299.	9.7	9
169	Rateless multiple access over noisy channel. , 2010, , .		8
170	Initial link establishment in Cognitive Radio Networks without common control channel. , 2011, , .		8
171	Weight Distributions of Regular Low-Density Parity-Check Codes Over Finite Fields. IEEE Transactions on Information Theory, 2011, 57, 7507-7521.	1.5	8
172	Universal filtered multi-carrier transmission with active interference cancellation. , 2015, , .		8
173	A Low Complexity Encoding Algorithm for Systematic Polar Codes. IEEE Communications Letters, 2016, , 1-1.	2.5	8
174	Hybrid Limited Feedback in 5G Cellular Systems With Massive MIMO. IEEE Systems Journal, 2017, 11, 50-61.	2.9	8
175	Ambient Backscatter Communication Systems with Multi-Antenna Reader. , 2018, , .		8
176	Cache-Enabled Multicast Content Pushing With Structured Deep Learning. IEEE Journal on Selected Areas in Communications, 2021, 39, 2135-2149.	9.7	8
177	Weighted Sum-Rate of Intelligent Reflecting Surface Aided Multiuser Downlink Transmission With Statistical CSI. IEEE Transactions on Wireless Communications, 2022, 21, 4925-4937.	6.1	8
178	Non-coded rateless multiple access. , 2012, , .		7
179	Spectrum-efficient Index Modulation with Improved constellation Mapping. , 2015, , .		7
180	Unsourced Massive Random Access Scheme Exploiting Reed-Muller Sequences. IEEE Transactions on Communications, 2022, 70, 1290-1303.	4.9	7

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181	Distributed Computational Imaging with Reconfigurable Intelligent Surface. , 2020, , .		7
182	Distributed joint optimization of relay selection and subchannel pairing in OFDM based relay networks. , 2009, , .		6
183	System synchronization and channel estimation analysis for IEEE 802.16e OFDMA downlink system. International Journal of Communication Systems, 2009, 22, 375-398.	1.6	6
184	Uplink Scheduling for Cognitive Radio Cellular Network with Primary User's QoS Protection. , 2010, , .		6
185	Polar code with block-length $N$ &#x003D; $3^{n}$ . , 2012, , .		6
186	Accumulate rateless codes and their performances over additive white Gaussian noise channel. IET Communications, 2013, 7, 372-381.	1.5	6
187	Multi-Carrier Rateless Multiple Access: A Novel Protocol for Dynamic Massive Access. , 2015, , .		6
188	Capacity scaling of relay networks with successive relaying. , 2015, , .		6
189	Differential Modulation Exploiting the Spatial&#x2013;Temporal Correlation of Wireless Channels With Moving Antenna Array. IEEE Transactions on Communications, 2015, 63, 4990-5001.	4.9	6
190	Opportunistic wireless information and energy transfer for sustainable cooperative relaying. , 2015, , .		6
191	Content caching at sleeping-enabled base stations in heterogeneous networks. , 2016, , .		6
192	Content Caching Clustering Based on Piecewise Interest Similarity. , 2017, , .		6
193	Rateless Multiple Access: Asymptotic Throughput Analysis and Improvement With Spatial Coupling. IEEE Access, 2018, 6, 63200-63213.	2.6	6
194	Delay-Optimal Random Access for Large-Scale Energy Harvesting Networks. , 2018, , .		6
195	Clustered Popularity Prediction for Content Caching. , 2019, , .		6
196	Robust Convergence of Energy and Computation for B5G Cellular Internet of Things. , 2019, , .		6
197	Delay-Optimal Closed-Form Scheduling for Multi-Destination Computation Offloading. IEEE Wireless Communications Letters, 2021, 10, 1904-1908.	3.2	6
198	Delay Optimal Random Access With Heterogeneous Device Capabilities in Energy Harvesting Networks Using Mean Field Game. IEEE Transactions on Wireless Communications, 2021, 20, 5543-5557.	6.1	6

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199	Fountain-Coded File Spreading Over Mobile Networks. IEEE Transactions on Wireless Communications, 2017, 16, 6766-6778.	6.1	6
200	An Improved Adaptive Decision Scheme for Vertical Handoff in Heterogeneous Wireless Networks. , 2006, , .		5
201	Adaptive Power Allocation for Cooperative Relaying System in Fading Wireless Channel. , 2007, , .		5
202	A primary traffic aware opportunistic spectrum sensing for cognitive radio networks. , 2011, , .		5
203	A rollout-based joint spectrum sensing and access policy for cognitive radio networks with hardware limitations. , 2012, , .		5
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