Geoffrey Li

List of Publications by Year
in descending order

333 papers	27,086 citations	11639 70 h-index	6831 155 g-index
333 all docs	333 docs citations	333 times ranked	13203 citing authors

#	Article	IF	Citations
1	An Overview of Massive MIMO: Benefits and Challenges. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 742-758.	7.3	2,080
2	Power of Deep Learning for Channel Estimation and Signal Detection in OFDM Systems. IEEE Wireless Communications Letters, 2018, 7, 114-117.	3.2	1,230
3	Fundamental trade-offs on green wireless networks. IEEE Communications Magazine, 2011, 49, 30-37.	4.9	1,068
4	Cognitive radio networking and communications: an overview. IEEE Transactions on Vehicular Technology, 2011, 60, 3386-3407.	3.9	877
5	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	2.7	858
6	Device-to-Device Communications Underlaying Cellular Networks. IEEE Transactions on Communications, 2013, 61, 3541-3551.	4.9	809
7	OFDM and Its Wireless Applications: A Survey. IEEE Transactions on Vehicular Technology, 2009, 58, 1673-1694.	3.9	738
8	Energy-efficient wireless communications: tutorial, survey, and open issues. IEEE Wireless Communications, 2011, 18, 28-35.	6.6	632
9	Energy-efficient link adaptation in frequency-selective channels. IEEE Transactions on Communications, 2010, 58, 545-554.	4.9	604
10	Deep Reinforcement Learning Based Resource Allocation for V2V Communications. IEEE Transactions on Vehicular Technology, 2019, 68, 3163-3173.	3.9	486
11	Deep Learning-Based Channel Estimation for Beamspace mmWave Massive MIMO Systems. IEEE Wireless Communications Letters, 2018, 7, 852-855.	3.2	474
12	Collaborative Cloud and Edge Computing for Latency Minimization. IEEE Transactions on Vehicular Technology, 2019, 68, 5031-5044.	3.9	419
13	Deep Learning in Physical Layer Communications. IEEE Wireless Communications, 2019, 26, 93-99.	6.6	399
14	Energy- and Spectral-Efficiency Tradeoff in Downlink OFDMA Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3874-3886.	6.1	395
15	Reconfigurable Intelligent Surfaces for Wireless Communications: Principles, Challenges, and Opportunities. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 990-1002.	4.9	389
16	Modulation and Multiple Access for 5G Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 629-646.	24.8	348
17	Spatial- and Frequency-Wideband Effects in Millimeter-Wave Massive MIMO Systems. IEEE Transactions on Signal Processing, 2018, 66, 3393-3406.	3.2	327
18	Device-to-device communications in cellular networks. , 2014, 52, 49-55.		325

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19	Joint Offloading and Trajectory Design for UAV-Enabled Mobile Edge Computing Systems. IEEE Internet of Things Journal, 2019, 6, 1879-1892.	5.5	308
20	Deep Learning Enabled Semantic Communication Systems. IEEE Transactions on Signal Processing, 2021, 69, 2663-2675.	3.2	296
21	Distributed Interference-Aware Energy-Efficient Power Optimization. IEEE Transactions on Wireless Communications, 2011, 10, 1323-1333.	6.1	283
22	Spectrum Sharing in Vehicular Networks Based on Multi-Agent Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2019, 37, 2282-2292.	9.7	282
23	Resource Allocation for D2D-Enabled Vehicular Communications. IEEE Transactions on Communications, 2017, 65, 3186-3197.	4.9	278
24	Model-Driven Deep Learning for Physical Layer Communications. IEEE Wireless Communications, 2019, 26, 77-83.	6.6	271
25	Joint Mode Selection and Resource Allocation for Device-to-Device Communications. IEEE Transactions on Communications, 2014, 62, 3814-3824.	4.9	258
26	Fundamental Green Tradeoffs: Progresses, Challenges, and Impacts on 5G Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 33-56.	24.8	245
27	Channel Estimation for OFDM. IEEE Communications Surveys and Tutorials, 2014, 16, 1891-1908.	24.8	234
28	Deep Learning-Based CSI Feedback Approach for Time-Varying Massive MIMO Channels. IEEE Wireless Communications Letters, 2019, 8, 416-419.	3.2	227
29	Machine Learning for Vehicular Networks: Recent Advances and Application Examples. IEEE Vehicular Technology Magazine, 2018, 13, 94-101.	2.8	223
30	Deep CNN-Based Channel Estimation for mmWave Massive MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 989-1000.	7.3	215
31	Energy-Efficient Resource Allocation in OFDMA Networks. IEEE Transactions on Communications, 2012, 60, 3767-3778.	4.9	214
32	Vehicular Communications: A Network Layer Perspective. IEEE Transactions on Vehicular Technology, 2019, 68, 1064-1078.	3.9	204
33	Model-Driven Deep Learning for MIMO Detection. IEEE Transactions on Signal Processing, 2020, 68, 1702-1715.	3.2	204
34	Deep Learning-Based End-to-End Wireless Communication Systems With Conditional GANs as Unknown Channels. IEEE Transactions on Wireless Communications, 2020, 19, 3133-3143.	6.1	203
35	Simplified Relay Selection and Power Allocation in Cooperative Cognitive Radio Systems. IEEE Transactions on Wireless Communications, 2011, 10, 33-36.	6.1	200
36	UAV Communications Based on Non-Orthogonal Multiple Access. IEEE Wireless Communications, 2019, 26, 52-57.	6.6	198

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37	Toward Intelligent Vehicular Networks: A Machine Learning Framework. IEEE Internet of Things Journal, 2019, 6, 124-135.	5.5	181
38	A Model-Driven Deep Learning Network for MIMO Detection. , 2018, , .		179
39	ComNet: Combination of Deep Learning and Expert Knowledge in OFDM Receivers. IEEE Communications Letters, 2018, 22, 2627-2630.	2.5	177
40	Ultra-Dense LEO: Integrating Terrestrial-Satellite Networks Into 5G and Beyond for Data Offloading. IEEE Transactions on Wireless Communications, 2019, 18, 47-62.	6.1	174
41	Sparse Representation for Wireless Communications: A Compressive Sensing Approach. IEEE Signal Processing Magazine, 2018, 35, 40-58.	4.6	169
42	Energy- and Spectral-Efficiency Tradeoff for Distributed Antenna Systems with Proportional Fairness. IEEE Journal on Selected Areas in Communications, 2013, 31, 894-902.	9.7	166
43	Deep-Learning-Based Wireless Resource Allocation With Application to Vehicular Networks. Proceedings of the IEEE, 2020, 108, 341-356.	16.4	164
44	Convolutional Neural Network-Based Multiple-Rate Compressive Sensing for Massive MIMO CSI Feedback: Design, Simulation, and Analysis. IEEE Transactions on Wireless Communications, 2020, 19, 2827-2840.	6.1	163
45	Dual-UAV-Enabled Secure Communications: Joint Trajectory Design and User Scheduling. IEEE Journal on Selected Areas in Communications, 2018, 36, 1972-1985.	9.7	159
46	Channel Agnostic End-to-End Learning Based Communication Systems with Conditional GAN. , 2018, , .		155
47	Low-Complexity Energy-Efficient Scheduling for Uplink OFDMA. IEEE Transactions on Communications, 2012, 60, 112-120.	4.9	144
48	Symbiotic Radio: Cognitive Backscattering Communications for Future Wireless Networks. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 1242-1255.	4.9	136
49	Multi-Objective Energy-Efficient Resource Allocation for Multi-RAT Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2118-2127.	9.7	129
50	Non-Orthogonal Multiple Access for High-Reliable and Low-Latency V2X Communications in 5G Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2383-2397.	9.7	127
51	Spectrum and Power Allocation for Vehicular Communications With Delayed CSI Feedback. IEEE Wireless Communications Letters, 2017, 6, 458-461.	3.2	125
52	Pricing-Based Interference Coordination for D2D Communications in Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 1519-1532.	6.1	122
53	Deep Learning-Based Downlink Channel Prediction for FDD Massive MIMO System. IEEE Communications Letters, 2019, 23, 1994-1998.	2.5	122
54	Graph-Based Resource Sharing in Vehicular Communication. IEEE Transactions on Wireless Communications, 2018, 17, 4579-4592.	6.1	120

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55	Cellular Meets WiFi: Traffic Offloading or Resource Sharing?. IEEE Transactions on Wireless Communications, 2016, 15, 3354-3367.	6.1	119
56	BDMA for Millimeter-Wave/Terahertz Massive MIMO Transmission With Per-Beam Synchronization. IEEE Journal on Selected Areas in Communications, 2017, 35, 1550-1563.	9.7	119
57	LBT-Based Adaptive Channel Access for LTE-U Systems. IEEE Transactions on Wireless Communications, 2016, 15, 6585-6597.	6.1	117
58	Power and Channel Allocation for Cooperative Relay in Cognitive Radio Networks. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 151-159.	7.3	113
59	Deep Reinforcement Learning for Resource Allocation in V2V Communications. , 2018, , .		113
60	Spatial-Wideband Effect in Massive MIMO with Application in mmWave Systems. IEEE Communications Magazine, 2018, 56, 134-141.	4.9	112
61	Faster-Than-Nyquist Signaling: An Overview. IEEE Access, 2017, 5, 1925-1940.	2.6	108
62	A New View of Multi-User Hybrid Massive MIMO: Non-Orthogonal Angle Division Multiple Access. IEEE Journal on Selected Areas in Communications, 2017, 35, 2268-2280.	9.7	108
63	Recent advances in energy-efficient networks and their application in 5G systems. IEEE Wireless Communications, 2015, 22, 145-151.	6.6	107
64	Indoor Terahertz Communications: How Many Antenna Arrays Are Needed?. IEEE Transactions on Wireless Communications, 2015, 14, 3097-3107.	6.1	104
65	Mode Switching for Energy-Efficient Device-to-Device Communications in Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 6993-7003.	6.1	104
66	MCS Selection for Throughput Improvement in Downlink LTE Systems. , 2011, , .		102
67	Is NOMA Efficient in Multi-Antenna Networks? A Critical Look at Next Generation Multiple Access Techniques. IEEE Open Journal of the Communications Society, 2021, 2, 1310-1343.	4.4	102
68	Adaptive Beamforming With Resource Allocation for Distance-Aware Multi-User Indoor Terahertz Communications. IEEE Transactions on Communications, 2015, 63, 2985-2995.	4.9	95
69	Resource Allocation for Low-Latency Vehicular Communications: An Effective Capacity Perspective. IEEE Journal on Selected Areas in Communications, 2019, 37, 905-917.	9.7	95
70	Energy-Efficient Resource Allocation in OFDM Systems With Distributed Antennas. IEEE Transactions on Vehicular Technology, 2014, 63, 1223-1231.	3.9	93
71	Beam Squint and Channel Estimation for Wideband mmWave Massive MIMO-OFDM Systems. IEEE Transactions on Signal Processing, 2019, 67, 5893-5908.	3.2	90
72	Energy-Efficient Design of Indoor mmWave and Sub-THz Systems with Antenna Arrays. IEEE Transactions on Wireless Communications, 2016, , 1-1.	6.1	86

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73	Subarray-Based Coordinated Beamforming Training for mmWave and Sub-THz Communications. IEEE Journal on Selected Areas in Communications, 2017, 35, 2115-2126.	9.7	83
74	Energy-Efficient CoMP Precoding in Heterogeneous Networks. IEEE Transactions on Signal Processing, 2014, 62, 1005-1017.	3.2	75
75	20 Years of Evolution From Cognitive to Intelligent Communications. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 6-20.	4.9	73
76	Deep Learning for Channel Estimation: Interpretation, Performance, and Comparison. IEEE Transactions on Wireless Communications, 2021, 20, 2398-2412.	6.1	73
77	Multiple Access for Mobile-UAV Enabled Networks: Joint Trajectory Design and Resource Allocation. IEEE Transactions on Communications, 2019, 67, 4980-4994.	4.9	71
78	Energy-Efficient D2D Overlaying Communications With Spectrum-Power Trading. IEEE Transactions on Wireless Communications, 2017, 16, 4404-4419.	6.1	68
79	Energy-Efficient Resource Allocation for OFDMA-Based Multi-RAT Networks. IEEE Transactions on Wireless Communications, 2014, 13, 2696-2705.	6.1	66
80	Deep Learning Based Channel Estimation for Massive MIMO With Mixed-Resolution ADCs. IEEE Communications Letters, 2019, 23, 1989-1993.	2.5	65
81	Energy-Efficient Design for Downlink OFDMA with Delay-Sensitive Traffic. IEEE Transactions on Wireless Communications, 2013, 12, 3085-3095.	6.1	64
82	Joint Downlink and Uplink Resource Allocation for Energy-Efficient Carrier Aggregation. IEEE Transactions on Wireless Communications, 2015, 14, 3207-3218.	6.1	62
83	Robust Beamforming With Partial Channel State Information for Energy Efficient Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2920-2935.	9.7	62
84	Energy-Efficient Spectrum Access in Cognitive Radios. IEEE Journal on Selected Areas in Communications, 2014, 32, 550-562.	9.7	61
85	Multi-Cell Coordinated Scheduling and MIMO in LTE. IEEE Communications Surveys and Tutorials, 2014, 16, 761-775.	24.8	60
86	Full-Duplex Cellular Networks. , 2017, 55, 184-191.		60
87	Single-Site Localization Based on a New Type of Fingerprint for Massive MIMO-OFDM Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 6134-6145.	3.9	60
88	Wideband Beamforming for Hybrid Massive MIMO Terahertz Communications. IEEE Journal on Selected Areas in Communications, 2021, 39, 1725-1740.	9.7	60
89	Joint User Association and Spectrum Allocation for Small Cell Networks With Wireless Backhauls. IEEE Wireless Communications Letters, 2016, 5, 496-499.	3.2	57
90	Deep Neural Networks for Linear Sum Assignment Problems. IEEE Wireless Communications Letters, 2018, 7, 962-965.	3.2	57

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91	A Stackelberg Game Approach to Proactive Caching in Large-Scale Mobile Edge Networks. IEEE Transactions on Wireless Communications, 2018, 17, 5198-5211.	6.1	57
92	On Secrecy of Codebook-Based Transmission Beamforming under Receiver Limited Feedback. IEEE Transactions on Wireless Communications, 2011, 10, 1212-1223.	6.1	56
93	Rethinking Mobile Data Offloading for LTE in Unlicensed Spectrum. IEEE Transactions on Wireless Communications, 2016, , 1-1.	6.1	55
94	Noncoherent Backscatter Communications Over Ambient OFDM Signals. IEEE Transactions on Communications, 2019, 67, 3597-3611.	4.9	55
95	Task-Oriented Multi-User Semantic Communications for VQA. IEEE Wireless Communications Letters, 2022, 11, 553-557.	3.2	55
96	Pilot Matrix Design for Estimating Cascaded Channels in Two-Hop MIMO Amplify-and-Forward Relay Systems. IEEE Transactions on Wireless Communications, 2011, 10, 1956-1965.	6.1	54
97	Deep Learning and Compressive Sensing-Based CSI Feedback in FDD Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 9217-9222.	3.9	54
98	Deep Learning-Based Denoise Network for CSI Feedback in FDD Massive MIMO Systems. IEEE Communications Letters, 2020, 24, 1742-1746.	2.5	54
99	Graph Embedding-Based Wireless Link Scheduling With Few Training Samples. IEEE Transactions on Wireless Communications, 2021, 20, 2282-2294.	6.1	54
100	Resource Allocation for Vehicular Communications With Low Latency and High Reliability. IEEE Transactions on Wireless Communications, 2019, 18, 3887-3902.	6.1	53
101	Two-Step Codeword Design for Millimeter Wave Massive MIMO Systems With Quantized Phase Shifters. IEEE Transactions on Signal Processing, 2020, 68, 170-180.	3.2	52
102	A Framework for Co-Channel Interference and Collision Probability Tradeoff in LTE Licensed-Assisted Access Networks. IEEE Transactions on Wireless Communications, 2016, 15, 6078-6090.	6.1	51
103	Energy-Efficient Mobile Association in Heterogeneous Networks With Device-to-Device Communications. IEEE Transactions on Wireless Communications, 2016, 15, 5260-5271.	6.1	51
104	Spatial spectrum holes for cognitive radio with relay-assisted directional transmission. IEEE Transactions on Wireless Communications, 2009, 8, 5270-5279.	6.1	50
105	Throughput and Optimal Threshold for FFR Schemes in OFDMA Cellular Networks. IEEE Transactions on Wireless Communications, 2012, , 1-10.	6.1	50
106	Energy Efficiency Optimization in Licensed-Assisted Access. IEEE Journal on Selected Areas in Communications, 2016, 34, 723-734.	9.7	49
107	Ultra-Low Power Wake-up Radio for 5G IoT. IEEE Communications Magazine, 2019, 57, 111-117.	4.9	49
108	Adaptive Block-Level Resource Allocation in OFDMA Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3966-3972.	6.1	48

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109	Joint Transceiver Design With Antenna Selection for Large-Scale MU-MIMO mmWave Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2085-2096.	9.7	48
110	Fingerprint-Based Localization for Massive MIMO-OFDM System With Deep Convolutional Neural Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 10846-10857.	3.9	48
111	Beam Training and Allocation for Multiuser Millimeter Wave Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2019, 18, 1041-1053.	6.1	48
112	Machine Learning for Beam Alignment in Millimeter Wave Massive MIMO. IEEE Wireless Communications Letters, 2020, 9, 875-878.	3.2	48
113	QoS-Aware Resource Allocation for Device-to-Device Communications With Channel Uncertainty. IEEE Transactions on Vehicular Technology, 2016, 65, 6051-6062.	3.9	47
114	Energy-Efficient User Association and Resource Allocation for Multistream Carrier Aggregation. IEEE Transactions on Vehicular Technology, 2016, 65, 6366-6376.	3.9	46
115	A Model-Driven Deep Learning Method for Massive MIMO Detection. IEEE Communications Letters, 2020, 24, 1724-1728.	2.5	46
116	Probabilistic Resource Allocation for Opportunistic Spectrum Access. IEEE Transactions on Wireless Communications, 2010, 9, 2870-2879.	6.1	45
117	D2D-Enabled Mobile User Edge Caching: A Multi-Winner Auction Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 12314-12328.	3.9	45
118	Deep Learning Based End-to-End Wireless Communication Systems Without Pilots. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 702-714.	4.9	45
119	Hierarchical Codebook-Based Multiuser Beam Training for Millimeter Wave Massive MIMO. IEEE Transactions on Wireless Communications, 2020, 19, 8142-8152.	6.1	43
120	Proactive detection of spectrum opportunities in primary systems with power control. IEEE Transactions on Wireless Communications, 2009, 8, 4815-4823.	6.1	41
121	Power Allocation Criteria for Distributed Antenna Systems. IEEE Transactions on Vehicular Technology, 2015, 64, 5083-5090.	3.9	41
122	Initial Results on Deep Learning for Joint Channel Equalization and Decoding. , 2017, , .		41
123	Hypergraph Theory: Applications in 5G Heterogeneous Ultra-Dense Networks. , 2017, 55, 70-76.		40
124	Compression and Acceleration of Neural Networks for Communications. IEEE Wireless Communications, 2020, 27, 110-117.	6.6	40
125	Joint Optimization of Transmission and Computation Resources for Satellite and High Altitude Platform Assisted Edge Computing. IEEE Transactions on Wireless Communications, 2022, 21, 1362-1377.	6.1	40
126	Probability-based combination for cooperative spectrum sensing. IEEE Transactions on Communications, 2010, 58, 463-466.	4.9	39

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127	Joint User Pairing and Resource Allocation for LTE Uplink Transmission. IEEE Transactions on Wireless Communications, 2012, , 1-10.	6.1	39
128	Learning to Branch: Accelerating Resource Allocation in Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 958-970.	3.9	39
129	Broadbeam for Massive MIMO Systems. IEEE Transactions on Signal Processing, 2016, 64, 2365-2374.	3.2	38
130	A Framework on Hybrid MIMO Transceiver Design Based on Matrix-Monotonic Optimization. IEEE Transactions on Signal Processing, 2019, 67, 3531-3546.	3.2	37
131	Decentralized Federated Learning With Unreliable Communications. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 487-500.	7.3	37
132	Deep Source-Channel Coding for Sentence Semantic Transmission With HARQ. IEEE Transactions on Communications, 2022, 70, 5225-5240.	4.9	37
133	Machine Learning Prediction Based CSI Acquisition for FDD Massive MIMO Downlink. , 2018, , .		36
134	Energy Efficient V2X-Enabled Communications in Cellular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 554-564.	3.9	35
135	Dual CNN-Based Channel Estimation for MIMO-OFDM Systems. IEEE Transactions on Communications, 2021, 69, 5859-5872.	4.9	35
136	Artificial Intelligence-Aided Receiver for a CP-Free OFDM System: Design, Simulation, and Experimental Test. IEEE Access, 2019, 7, 58901-58914.	2.6	34
137	Resource Allocation for High-Reliability Low-Latency Vehicular Communications With Packet Retransmission. IEEE Transactions on Vehicular Technology, 2019, 68, 6219-6230.	3.9	32
138	Deep CNN for Wideband Mmwave Massive Mimo Channel Estimation Using Frequency Correlation. , 2019, , .		32
139	High-Resolution Channel Estimation for Frequency-Selective mmWave Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2020, 19, 3517-3529.	6.1	32
140	Learn to Compress CSI and Allocate Resources in Vehicular Networks. IEEE Transactions on Communications, 2020, 68, 3640-3653.	4.9	32
141	Multiuser Spectral Precoding for OFDM-Based Cognitive Radio Systems. IEEE Journal on Selected Areas in Communications, 2013, 31, 345-352.	9.7	31
142	Results on Energy- and Spectral-Efficiency Tradeoff in Cellular Networks With Full-Duplex Enabled Base Stations. IEEE Transactions on Wireless Communications, 2017, 16, 1494-1507.	6.1	31
143	Joint Beamforming and Jamming Design for mmWave Information Surveillance Systems. IEEE Journal on Selected Areas in Communications, 2018, 36, 1410-1425.	9.7	31
144	Resource Allocation for Text Semantic Communications. IEEE Wireless Communications Letters, 2022, 11, 1394-1398.	3.2	31

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145	Reduced-Rate OFDM Transmission for Inter-Subchannel Interference Self-Cancellation over High-Mobility Fading Channels. IEEE Transactions on Wireless Communications, 2012, 11, 2013-2023.	6.1	30
146	Performance Analysis of Multiuser Massive MIMO With Spatially Correlated Channels Using Low-Precision ADC. IEEE Communications Letters, 2018, 22, 205-208.	2.5	30
147	Joint User Association and Resource Allocation for Multi-Band Millimeter-Wave Heterogeneous Networks. IEEE Transactions on Communications, 2019, 67, 8502-8516.	4.9	30
148	User Association for Millimeter-Wave Networks: A Machine Learning Approach. IEEE Transactions on Communications, 2020, 68, 4162-4174.	4.9	30
149	Low-Complexity Joint Resource Allocation and Trajectory Design for UAV-Aided Relay Networks With the Segmented Ray-Tracing Channel Model. IEEE Transactions on Wireless Communications, 2020, 19, 6179-6195.	6.1	30
150	Performance Analysis of Multi-Branch Reconfigurable Intelligent Surfaces-Assisted Optical Wireless Communication System in Environment With Obstacles. IEEE Transactions on Vehicular Technology, 2021, 70, 9986-10001.	3.9	30
151	Energy-Efficient Small Cell With Spectrum-Power Trading. IEEE Journal on Selected Areas in Communications, 2016, 34, 3394-3408.	9.7	29
152	First 20 Years of Green Radios. IEEE Transactions on Green Communications and Networking, 2020, 4, 1-15.	3.5	29
153	Acquisition of channel state information for mmWave massive MIMO: traditional and machine learning-based approaches. Science China Information Sciences, 2021, 64, 1.	2.7	29
154	Robust Resource Allocation in Full-Duplex-Enabled OFDMA Femtocell Networks. IEEE Transactions on Wireless Communications, 2017, 16, 6382-6394.	6.1	28
155	Joint Power Allocation and User Scheduling for Device-to-Device-Enabled Heterogeneous Networks With Non-Orthogonal Multiple Access. IEEE Access, 2019, 7, 62657-62671.	2.6	28
156	An Attention-Aided Deep Learning Framework for Massive MIMO Channel Estimation. IEEE Transactions on Wireless Communications, 2022, 21, 1823-1835.	6.1	28
157	Probability-based periodic spectrum sensing during secondary communication. IEEE Transactions on Communications, 2010, 58, 1291-1301.	4.9	27
158	Deep Multi-Stage CSI Acquisition for Reconfigurable Intelligent Surface Aided MIMO Systems. IEEE Communications Letters, 2021, 25, 2024-2028.	2.5	27
159	Probability-based optimization of inter-sensing duration and power control in cognitive radio. IEEE Transactions on Wireless Communications, 2009, 8, 4922-4927.	6.1	26
160	Performance Analysis of MU-MIMO in Downlink Cellular Networks. IEEE Communications Letters, 2015, 19, 223-226.	2.5	26
161	AnciNet: An Efficient Deep Learning Approach for Feedback Compression of Estimated CSI in Massive MIMO Systems. IEEE Wireless Communications Letters, 2020, 9, 2192-2196.	3.2	26
162	Energy-Efficient Power Allocation for Pilots in Training-Based Downlink OFDMA Systems. IEEE Transactions on Communications, 2012, 60, 3047-3058.	4.9	25

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163	Joint Transceiver Design for Secure Downlink Communications Over an Amplify-and-Forward MIMO Relay. IEEE Transactions on Communications, 2017, 65, 3691-3704.	4.9	25
164	Performance Analysis of Multi-Cell Millimeter-Wave Massive MIMO Networks With Low-Precision ADCs. IEEE Transactions on Communications, 2019, 67, 302-317.	4.9	25
165	Energy Efficiency of Distributed Antenna Systems With Wireless Power Transfer. IEEE Journal on Selected Areas in Communications, 2019, 37, 89-99.	9.7	25
166	Scheduling Exploiting Frequency and Multi-User Diversity in LTE Downlink Systems. IEEE Transactions on Wireless Communications, 2013, 12, 1843-1849.	6.1	24
167	Adaptive LBT for Licensed Assisted Access LTE Networks. , 2015, , .		24
168	NOMA-Based Low-Latency and High-Reliable Broadcast Communications for 5G V2X Services. , 2017, , .		24
169	Deep Learning for Beam Training in Millimeter Wave Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2024, , 1-1.	6.1	24
170	High speed wireless data access based on combining EDGE with wideband OFDM. , 1999, 37, 92-98.		23
171	Energy-Efficient Transmission for Protection of Incumbent Users. IEEE Transactions on Broadcasting, 2011, 57, 718-720.	2.5	23
172	Cooperative Precoding for Cognitive Transmission in Two-Tier Networks. IEEE Transactions on Communications, 2016, 64, 1423-1436.	4.9	23
173	Intercell Interference Coordination for LTE Systems. IEEE Transactions on Vehicular Technology, 2013, 62, 4408-4420.	3.9	22
174	Graph-Based Radio Resource Management for Vehicular Networks. , 2018, , .		22
175	Performance Analysis of Clustered LoRa Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 7616-7629.	3.9	22
176	A Lightweight Deep Network for Efficient CSI Feedback in Massive MIMO Systems. IEEE Wireless Communications Letters, 2021, 10, 1840-1844.	3.2	22
177	Deep Learning-Based Robust Precoding for Massive MIMO. IEEE Transactions on Communications, 2021, 69, 7429-7443.	4.9	22
178	AI-Aided Online Adaptive OFDM Receiver: Design and Experimental Results. IEEE Transactions on Wireless Communications, 2021, 20, 7655-7668.	6.1	22
179	Deep Learning-Based Implicit CSI Feedback in Massive MIMO. IEEE Transactions on Communications, 2022, 70, 935-950.	4.9	21
180	Circular Convolutional Auto-Encoder for Channel Coding. , 2019, , .		20

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181	Framework on Deep Learning-Based Joint Hybrid Processing for mmWave Massive MIMO Systems. IEEE Access, 2020, 8, 106023-106035.	2.6	20
182	Reinforcement Learning Based Cooperative Coded Caching Under Dynamic Popularities in Ultra-Dense Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 5442-5456.	3.9	20
183	Joint MIMO Precoding and Computation Resource Allocation for Dual-Function Radar and Communication Systems With Mobile Edge Computing. IEEE Journal on Selected Areas in Communications, 2022, 40, 2085-2102.	9.7	20
184	Agglomerative user clustering and downlink group scheduling for FDD massive MIMO systems. , 2017, , .		19
185	Deep Learning Based on Orthogonal Approximate Message Passing for CP-Free OFDM. , 2019, , .		19
186	Ultra-Dense Heterogeneous Networks with Full-Duplex Small Cell Base Stations. IEEE Network, 2017, 31, 108-114.	4.9	18
187	Spatial Reuse for Coexisting LTE and Wi-Fi Systems in Unlicensed Spectrum. IEEE Transactions on Wireless Communications, 2018, 17, 1187-1198.	6.1	18
188	Deep Reinforcement Learning based Distributed Resource Allocation for V2V Broadcasting. , 2018, , .		18
189	A Machine Learning Approach for Hierarchical Localization Based on Multipath MIMO Fingerprints. IEEE Communications Letters, 2019, 23, 1765-1768.	2.5	18
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