Geoffrey Li

List of Publications by Year
in descending order

333	27,086
papers	citations

11651

70	155
h-index	g-index

6836

333	333
all docs	docs citations

333	13203
times ranked	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.	10.8	2,080
2	Power of Deep Learning for Channel Estimation and Signal Detection in OFDM Systems. IEEE Wireless Communications Letters, 2018, 7, 114-117.	5.0	1,230
3	Fundamental trade-offs on green wireless networks. IEEE Communications Magazine, 2011, 49, 30-37.	6.1	1,068
4	Cognitive radio networking and communications: an overview. IEEE Transactions on Vehicular Technology, 2011, 60, 3386-3407.	6.3	877
5	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	4.3	858
6	Device-to-Device Communications Underlaying Cellular Networks. IEEE Transactions on Communications, 2013, 61, 3541-3551.	7.8	809
7	OFDM and Its Wireless Applications: A Survey. IEEE Transactions on Vehicular Technology, 2009, 58, 1673-1694.	6.3	738
8	Energy-efficient wireless communications: tutorial, survey, and open issues. IEEE Wireless Communications, 2011, 18, 28-35.	9.0	632
9	Energy-efficient link adaptation in frequency-selective channels. IEEE Transactions on Communications, 2010, 58, 545-554.	7.8	604
10	Deep Reinforcement Learning Based Resource Allocation for V2V Communications. IEEE Transactions on Vehicular Technology, 2019, 68, 3163-3173.	6.3	486
11	Deep Learning-Based Channel Estimation for Beamspace mmWave Massive MIMO Systems. IEEE Wireless Communications Letters, 2018, 7, 852-855.	5.0	474
12	Collaborative Cloud and Edge Computing for Latency Minimization. IEEE Transactions on Vehicular Technology, 2019, 68, 5031-5044.	6.3	419
13	Deep Learning in Physical Layer Communications. IEEE Wireless Communications, 2019, 26, 93-99.	9.0	399
14	Energy- and Spectral-Efficiency Tradeoff in Downlink OFDMA Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3874-3886.	9.2	395
15	Reconfigurable Intelligent Surfaces for Wireless Communications: Principles, Challenges, and Opportunities. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 990-1002.	7.9	389
16	Modulation and Multiple Access for 5G Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 629-646.	39.4	348
17	Spatial- and Frequency-Wideband Effects in Millimeter-Wave Massive MIMO Systems. IEEE Transactions on Signal Processing, 2018, 66, 3393-3406.	5.3	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.	8.7	308
20	Deep Learning Enabled Semantic Communication Systems. IEEE Transactions on Signal Processing, 2021, 69, 2663-2675.	5.3	296
21	Distributed Interference-Aware Energy-Efficient Power Optimization. IEEE Transactions on Wireless Communications, 2011, 10, 1323-1333.	9.2	283
22	Spectrum Sharing in Vehicular Networks Based on Multi-Agent Reinforcement Learning. IEEE Journal on Selected Areas in Communications, 2019, 37, 2282-2292.	14.0	282
23	Resource Allocation for D2D-Enabled Vehicular Communications. IEEE Transactions on Communications, 2017, 65, 3186-3197.	7.8	278
24	Model-Driven Deep Learning for Physical Layer Communications. IEEE Wireless Communications, 2019, 26, 77-83.	9.0	271
25	Joint Mode Selection and Resource Allocation for Device-to-Device Communications. IEEE Transactions on Communications, 2014, 62, 3814-3824.	7.8	258
26	Fundamental Green Tradeoffs: Progresses, Challenges, and Impacts on 5G Networks. IEEE Communications Surveys and Tutorials, 2017, 19, 33-56.	39.4	245
27	Channel Estimation for OFDM. IEEE Communications Surveys and Tutorials, 2014, 16, 1891-1908.	39.4	234
28	Deep Learning-Based CSI Feedback Approach for Time-Varying Massive MIMO Channels. IEEE Wireless Communications Letters, 2019, 8, 416-419.	5.0	227
29	Machine Learning for Vehicular Networks: Recent Advances and Application Examples. IEEE Vehicular Technology Magazine, 2018, 13, 94-101.	3.4	223
30	Deep CNN-Based Channel Estimation for mmWave Massive MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 989-1000.	10.8	215
31	Energy-Efficient Resource Allocation in OFDMA Networks. IEEE Transactions on Communications, 2012, 60, 3767-3778.	7.8	214
32	Vehicular Communications: A Network Layer Perspective. IEEE Transactions on Vehicular Technology, 2019, 68, 1064-1078.	6.3	204
33	Model-Driven Deep Learning for MIMO Detection. IEEE Transactions on Signal Processing, 2020, 68, 1702-1715.	5.3	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.	9.2	203
35	Simplified Relay Selection and Power Allocation in Cooperative Cognitive Radio Systems. IEEE Transactions on Wireless Communications, 2011, 10, 33-36.	9.2	200
36	UAV Communications Based on Non-Orthogonal Multiple Access. IEEE Wireless Communications, 2019, 26, 52-57.	9.0	198

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37	Toward Intelligent Vehicular Networks: A Machine Learning Framework. IEEE Internet of Things Journal, 2019, 6, 124-135.	8.7	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.	4.1	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.	9.2	174
41	Sparse Representation for Wireless Communications: A Compressive Sensing Approach. IEEE Signal Processing Magazine, 2018, 35, 40-58.	5.6	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.	14.0	166
43	Deep-Learning-Based Wireless Resource Allocation With Application to Vehicular Networks. Proceedings of the IEEE, 2020, 108, 341-356.	21.3	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.	9.2	163
45	Dual-UAV-Enabled Secure Communications: Joint Trajectory Design and User Scheduling. IEEE Journal on Selected Areas in Communications, 2018, 36, 1972-1985.	14.0	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.	7.8	144
48	Symbiotic Radio: Cognitive Backscattering Communications for Future Wireless Networks. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 1242-1255.	7.9	136
49	Multi-Objective Energy-Efficient Resource Allocation for Multi-RAT Heterogeneous Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2118-2127.	14.0	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.	14.0	127
51	Spectrum and Power Allocation for Vehicular Communications With Delayed CSI Feedback. IEEE Wireless Communications Letters, 2017, 6, 458-461.	5.0	125
52	Pricing-Based Interference Coordination for D2D Communications in Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 1519-1532.	9.2	122
53	Deep Learning-Based Downlink Channel Prediction for FDD Massive MIMO System. IEEE Communications Letters, 2019, 23, 1994-1998.	4.1	122
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55	Cellular Meets WiFi: Traffic Offloading or Resource Sharing?. IEEE Transactions on Wireless Communications, 2016, 15, 3354-3367.	9.2	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.	14.0	119
57	LBT-Based Adaptive Channel Access for LTE-U Systems. IEEE Transactions on Wireless Communications, 2016, 15, 6585-6597.	9.2	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.	10.8	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.	6.1	112
61	Faster-Than-Nyquist Signaling: An Overview. IEEE Access, 2017, 5, 1925-1940.	4.2	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.	14.0	108
63	Recent advances in energy-efficient networks and their application in 5G systems. IEEE Wireless Communications, 2015, 22, 145-151.	9.0	107
64	Indoor Terahertz Communications: How Many Antenna Arrays Are Needed?. IEEE Transactions on Wireless Communications, 2015, 14, 3097-3107.	9.2	104
65	Mode Switching for Energy-Efficient Device-to-Device Communications in Cellular Networks. IEEE Transactions on Wireless Communications, 2015, 14, 6993-7003.	9.2	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.	6.9	102
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72	Energy-Efficient Design of Indoor mmWave and Sub-THz Systems with Antenna Arrays. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	86

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74	Energy-Efficient CoMP Precoding in Heterogeneous Networks. IEEE Transactions on Signal Processing, 2014, 62, 1005-1017.	5.3	75
75	20 Years of Evolution From Cognitive to Intelligent Communications. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 6-20.	7.9	73
76	Deep Learning for Channel Estimation: Interpretation, Performance, and Comparison. IEEE Transactions on Wireless Communications, 2021, 20, 2398-2412.	9.2	73
77	Multiple Access for Mobile-UAV Enabled Networks: Joint Trajectory Design and Resource Allocation. IEEE Transactions on Communications, 2019, 67, 4980-4994.	7.8	71
78	Energy-Efficient D2D Overlaying Communications With Spectrum-Power Trading. IEEE Transactions on Wireless Communications, 2017, 16, 4404-4419.	9.2	68
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81	Energy-Efficient Design for Downlink OFDMA with Delay-Sensitive Traffic. IEEE Transactions on Wireless Communications, 2013, 12, 3085-3095.	9.2	64
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83	Robust Beamforming With Partial Channel State Information for Energy Efficient Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 2920-2935.	14.0	62
84	Energy-Efficient Spectrum Access in Cognitive Radios. IEEE Journal on Selected Areas in Communications, 2014, 32, 550-562.	14.0	61
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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.	6.3	60
88	Wideband Beamforming for Hybrid Massive MIMO Terahertz Communications. IEEE Journal on Selected Areas in Communications, 2021, 39, 1725-1740.	14.0	60
89	Joint User Association and Spectrum Allocation for Small Cell Networks With Wireless Backhauls. IEEE Wireless Communications Letters, 2016, 5, 496-499.	5.0	57
90	Deep Neural Networks for Linear Sum Assignment Problems. IEEE Wireless Communications Letters, 2018, 7, 962-965.	5.0	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.	9.2	57
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93	Rethinking Mobile Data Offloading for LTE in Unlicensed Spectrum. IEEE Transactions on Wireless Communications, 2016, , 1-1.	9.2	55
94	Noncoherent Backscatter Communications Over Ambient OFDM Signals. IEEE Transactions on Communications, 2019, 67, 3597-3611.	7.8	55
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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.	9.2	54
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99	Graph Embedding-Based Wireless Link Scheduling With Few Training Samples. IEEE Transactions on Wireless Communications, 2021, 20, 2282-2294.	9.2	54
100	Resource Allocation for Vehicular Communications With Low Latency and High Reliability. IEEE Transactions on Wireless Communications, 2019, 18, 3887-3902.	9.2	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.	5.3	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.	9.2	51
103	Energy-Efficient Mobile Association in Heterogeneous Networks With Device-to-Device Communications. IEEE Transactions on Wireless Communications, 2016, 15, 5260-5271.	9.2	51
104	Spatial spectrum holes for cognitive radio with relay-assisted directional transmission. IEEE Transactions on Wireless Communications, 2009, 8, 5270-5279.	9.2	50
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107	Ultra-Low Power Wake-up Radio for 5G IoT. IEEE Communications Magazine, 2019, 57, 111-117.	6.1	49
108	Adaptive Block-Level Resource Allocation in OFDMA Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3966-3972.	9.2	48

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110	Fingerprint-Based Localization for Massive MIMO-OFDM System With Deep Convolutional Neural Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 10846-10857.	6.3	48
111	Beam Training and Allocation for Multiuser Millimeter Wave Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2019, 18, 1041-1053.	9.2	48
112	Machine Learning for Beam Alignment in Millimeter Wave Massive MIMO. IEEE Wireless Communications Letters, 2020, 9, 875-878.	5.0	48
113	QoS-Aware Resource Allocation for Device-to-Device Communications With Channel Uncertainty. IEEE Transactions on Vehicular Technology, 2016, 65, 6051-6062.	6.3	47
114	Energy-Efficient User Association and Resource Allocation for Multistream Carrier Aggregation. IEEE Transactions on Vehicular Technology, 2016, 65, 6366-6376.	6.3	46
115	A Model-Driven Deep Learning Method for Massive MIMO Detection. IEEE Communications Letters, 2020, 24, 1724-1728.	4.1	46
116	Probabilistic Resource Allocation for Opportunistic Spectrum Access. IEEE Transactions on Wireless Communications, 2010, 9, 2870-2879.	9.2	45
117	D2D-Enabled Mobile User Edge Caching: A Multi-Winner Auction Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 12314-12328.	6.3	45
118	Deep Learning Based End-to-End Wireless Communication Systems Without Pilots. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 702-714.	7.9	45
119	Hierarchical Codebook-Based Multiuser Beam Training for Millimeter Wave Massive MIMO. IEEE Transactions on Wireless Communications, 2020, 19, 8142-8152.	9.2	43
120	Proactive detection of spectrum opportunities in primary systems with power control. IEEE Transactions on Wireless Communications, 2009, 8, 4815-4823.	9.2	41
121	Power Allocation Criteria for Distributed Antenna Systems. IEEE Transactions on Vehicular Technology, 2015, 64, 5083-5090.	6.3	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.	9.0	40
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127	Joint User Pairing and Resource Allocation for LTE Uplink Transmission. IEEE Transactions on Wireless Communications, 2012, , 1-10.	9.2	39
128	Learning to Branch: Accelerating Resource Allocation in Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 958-970.	6.3	39
129	Broadbeam for Massive MIMO Systems. IEEE Transactions on Signal Processing, 2016, 64, 2365-2374.	5.3	38
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131	Decentralized Federated Learning With Unreliable Communications. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 487-500.	10.8	37
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134	Energy Efficient V2X-Enabled Communications in Cellular Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 554-564.	6.3	35
135	Dual CNN-Based Channel Estimation for MIMO-OFDM Systems. IEEE Transactions on Communications, 2021, 69, 5859-5872.	7.8	35
136	Artificial Intelligence-Aided Receiver for a CP-Free OFDM System: Design, Simulation, and Experimental Test. IEEE Access, 2019, 7, 58901-58914.	4.2	34
137	Resource Allocation for High-Reliability Low-Latency Vehicular Communications With Packet Retransmission. IEEE Transactions on Vehicular Technology, 2019, 68, 6219-6230.	6.3	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.	9.2	32
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141	Multiuser Spectral Precoding for OFDM-Based Cognitive Radio Systems. IEEE Journal on Selected Areas in Communications, 2013, 31, 345-352.	14.0	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.	9.2	31
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144	Resource Allocation for Text Semantic Communications. IEEE Wireless Communications Letters, 2022, 11, 1394-1398.	5.0	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.	9.2	30
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147	Joint User Association and Resource Allocation for Multi-Band Millimeter-Wave Heterogeneous Networks. IEEE Transactions on Communications, 2019, 67, 8502-8516.	7.8	30
148	User Association for Millimeter-Wave Networks: A Machine Learning Approach. IEEE Transactions on Communications, 2020, 68, 4162-4174.	7.8	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.	9.2	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.	6.3	30
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153	Acquisition of channel state information for mmWave massive MIMO: traditional and machine learning-based approaches. Science China Information Sciences, 2021, 64, 1.	4.3	29
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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.	4.2	28
156	An Attention-Aided Deep Learning Framework for Massive MIMO Channel Estimation. IEEE Transactions on Wireless Communications, 2022, 21, 1823-1835.	9.2	28
157	Probability-based periodic spectrum sensing during secondary communication. IEEE Transactions on Communications, 2010, 58, 1291-1301.	7.8	27
158	Deep Multi-Stage CSI Acquisition for Reconfigurable Intelligent Surface Aided MIMO Systems. IEEE Communications Letters, 2021, 25, 2024-2028.	4.1	27
159	Probability-based optimization of inter-sensing duration and power control in cognitive radio. IEEE Transactions on Wireless Communications, 2009, 8, 4922-4927.	9.2	26
160	Performance Analysis of MU-MIMO in Downlink Cellular Networks. IEEE Communications Letters, 2015, 19, 223-226.	4.1	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.	5.0	26
162	Energy-Efficient Power Allocation for Pilots in Training-Based Downlink OFDMA Systems. IEEE Transactions on Communications, 2012, 60, 3047-3058.	7.8	25

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164	Performance Analysis of Multi-Cell Millimeter-Wave Massive MIMO Networks With Low-Precision ADCs. IEEE Transactions on Communications, 2019, 67, 302-317.	7.8	25
165	Energy Efficiency of Distributed Antenna Systems With Wireless Power Transfer. IEEE Journal on Selected Areas in Communications, 2019, 37, 89-99.	14.0	25
166	Scheduling Exploiting Frequency and Multi-User Diversity in LTE Downlink Systems. IEEE Transactions on Wireless Communications, 2013, 12, 1843-1849.	9.2	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.	9.2	24
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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.	6.3	22
176	A Lightweight Deep Network for Efficient CSI Feedback in Massive MIMO Systems. IEEE Wireless Communications Letters, 2021, 10, 1840-1844.	5.0	22
177	Deep Learning-Based Robust Precoding for Massive MIMO. IEEE Transactions on Communications, 2021, 69, 7429-7443.	7.8	22
178	AI-Aided Online Adaptive OFDM Receiver: Design and Experimental Results. IEEE Transactions on Wireless Communications, 2021, 20, 7655-7668.	9.2	22
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