

# Meng Zhang

## List of Publications by Year in descending order

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520  
papers

66,079  
citations

807

118  
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981

237  
g-index

536  
all docs

536  
docs citations

536  
times ranked

17062  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless communications with unmanned aerial vehicles: opportunities and challenges. , 2016, 54, 36-42.		2,711
2	Intelligent Reflecting Surface Enhanced Wireless Network via Joint Active and Passive Beamforming. IEEE Transactions on Wireless Communications, 2019, 18, 5394-5409.	6.1	2,295
3	MIMO Broadcasting for Simultaneous Wireless Information and Power Transfer. IEEE Transactions on Wireless Communications, 2013, 12, 1989-2001.	6.1	2,266
4	Towards Smart and Reconfigurable Environment: Intelligent Reflecting Surface Aided Wireless Network. IEEE Communications Magazine, 2020, 58, 106-112.	4.9	2,114
5	An Overview of Massive MIMO: Benefits and Challenges. IEEE Journal on Selected Topics in Signal Processing, 2014, 8, 742-758.	7.3	2,080
6	Wireless Communications Through Reconfigurable Intelligent Surfaces. IEEE Access, 2019, 7, 116753-116773.	2.6	1,743
7	Wireless Information and Power Transfer: Architecture Design and Rate-Energy Tradeoff. IEEE Transactions on Communications, 2013, 61, 4754-4767.	4.9	1,507
8	Energy-Efficient UAV Communication With Trajectory Optimization. IEEE Transactions on Wireless Communications, 2017, 16, 3747-3760.	6.1	1,459
9	Joint Trajectory and Communication Design for Multi-UAV Enabled Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 2109-2121.	6.1	1,249
10	Throughput Maximization in Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2014, 13, 418-428.	6.1	1,216
11	Intelligent Reflecting Surface-Aided Wireless Communications: A Tutorial. IEEE Transactions on Communications, 2021, 69, 3313-3351.	4.9	1,166
12	Throughput Maximization for UAV-Enabled Mobile Relaying Systems. IEEE Transactions on Communications, 2016, 64, 4983-4996.	4.9	992
13	Energy Minimization for Wireless Communication With Rotary-Wing UAV. IEEE Transactions on Wireless Communications, 2019, 18, 2329-2345.	6.1	991
14	Wireless powered communication: opportunities and challenges. , 2015, 53, 117-125.		851
15	Accessing From the Sky: A Tutorial on UAV Communications for 5G and Beyond. Proceedings of the IEEE, 2019, 107, 2327-2375.	16.4	828
16	Holographic MIMO Surfaces for 6G Wireless Networks: Opportunities, Challenges, and Trends. IEEE Wireless Communications, 2020, 27, 118-125.	6.6	699
17	Placement Optimization of UAV-Mounted Mobile Base Stations. IEEE Communications Letters, 2017, 21, 604-607.	2.5	697
18	Exploiting Multi-Antennas for Opportunistic Spectrum Sharing in Cognitive Radio Networks. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 88-102.	7.3	695

#	ARTICLE	IF	CITATIONS
19	Beamforming Optimization for Wireless Network Aided by Intelligent Reflecting Surface With Discrete Phase Shifts. IEEE Transactions on Communications, 2020, 68, 1838-1851.	4.9	692
20	Optimal Energy Allocation for Wireless Communications With Energy Harvesting Constraints. IEEE Transactions on Signal Processing, 2012, 60, 4808-4818.	3.2	603
21	Secure Wireless Communication via Intelligent Reflecting Surface. IEEE Wireless Communications Letters, 2019, 8, 1410-1414.	3.2	585
22	Wireless Information Transfer with Opportunistic Energy Harvesting. IEEE Transactions on Wireless Communications, 2013, 12, 288-300.	6.1	578
23	Optimal beamforming for two-way multi-antenna relay channel with analogue network coding. IEEE Journal on Selected Areas in Communications, 2009, 27, 699-712.	9.7	559
24	Energy-Efficient Data Collection in UAV Enabled Wireless Sensor Network. IEEE Wireless Communications Letters, 2018, 7, 328-331.	3.2	552
25	Optimal power allocation for fading channels in cognitive radio networks: Ergodic capacity and outage capacity. IEEE Transactions on Wireless Communications, 2009, 8, 940-950.	6.1	541
26	Opportunistic Wireless Energy Harvesting in Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2013, 12, 4788-4799.	6.1	541
27	Intelligent Reflecting Surface-Enhanced OFDM: Channel Estimation and Reflection Optimization. IEEE Wireless Communications Letters, 2020, 9, 518-522.	3.2	520
28	A Review on Spectrum Sensing for Cognitive Radio: Challenges and Solutions. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.0	518
29	Wireless Information and Power Transfer: A Dynamic Power Splitting Approach. IEEE Transactions on Communications, 2013, 61, 3990-4001.	4.9	491
30	Secrecy Wireless Information and Power Transfer With MISO Beamforming. IEEE Transactions on Signal Processing, 2014, 62, 1850-1863.	3.2	491
31	Intelligent Reflecting Surface Enhanced Wireless Network: Joint Active and Passive Beamforming Design. , 2018, .		455
32	Fundamentals of Wireless Information and Power Transfer: From RF Energy Harvester Models to Signal and System Designs. IEEE Journal on Selected Areas in Communications, 2019, 37, 4-33.	9.7	452
33	Joint Transmit Beamforming and Receive Power Splitting for MISO SWIPT Systems. IEEE Transactions on Wireless Communications, 2014, 13, 3269-3280.	6.1	448
34	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. IEEE Open Journal of the Communications Society, 2020, 1, 798-807.	4.4	445
35	Cellular-Connected UAV: Potential, Challenges, and Promising Technologies. IEEE Wireless Communications, 2019, 26, 120-127.	6.6	444
36	Capacity Characterization for Intelligent Reflecting Surface Aided MIMO Communication. IEEE Journal on Selected Areas in Communications, 2020, 38, 1823-1838.	9.7	440

#	ARTICLE	IF	CITATIONS
37	Wireless powered communication networks: an overview. IEEE Wireless Communications, 2016, 23, 10-18.	6.6	435
38	UAV-Enabled Wireless Power Transfer: Trajectory Design and Energy Optimization. IEEE Transactions on Wireless Communications, 2018, 17, 5092-5106.	6.1	435
39	Multiuser MISO Beamforming for Simultaneous Wireless Information and Power Transfer. IEEE Transactions on Signal Processing, 2014, 62, 4798-4810.	3.2	430
40	Securing UAV Communications via Joint Trajectory and Power Control. IEEE Transactions on Wireless Communications, 2019, 18, 1376-1389.	6.1	419
41	Intelligent Reflecting Surface Meets OFDM: Protocol Design and Rate Maximization. IEEE Transactions on Communications, 2020, 68, 4522-4535.	4.9	417
42	Price-Based Resource Allocation for Spectrum-Sharing Femtocell Networks: A Stackelberg Game Approach. IEEE Journal on Selected Areas in Communications, 2012, 30, 538-549.	9.7	414
43	Multi-Antenna Wireless Powered Communication With Energy Beamforming. IEEE Transactions on Communications, 2014, 62, 4349-4361.	4.9	394
44	Intelligent Reflecting Surface: Practical Phase Shift Model and Beamforming Optimization. IEEE Transactions on Communications, 2020, 68, 5849-5863.	4.9	382
45	Real-Time Energy Storage Management for Renewable Integration in Microgrid: An Off-Line Optimization Approach. IEEE Transactions on Smart Grid, 2015, 6, 124-134.	6.2	372
46	Communications and Signals Design for Wireless Power Transmission. IEEE Transactions on Communications, 2017, 65, 2264-2290.	4.9	353
47	Full-Duplex Wireless-Powered Relay With Self-Energy Recycling. IEEE Wireless Communications Letters, 2015, 4, 201-204.	3.2	348
48	Multi-antenna based spectrum sensing for cognitive radios: A GLRT approach. IEEE Transactions on Communications, 2010, 58, 84-88.	4.9	342
49	Trajectory Design for Completion Time Minimization in UAV-Enabled Multicasting. IEEE Transactions on Wireless Communications, 2018, 17, 2233-2246.	6.1	337
50	Throughput Maximization for the Gaussian Relay Channel with Energy Harvesting Constraints. IEEE Journal on Selected Areas in Communications, 2013, 31, 1469-1479.	9.7	316
51	Optimal Resource Allocation in Full-Duplex Wireless-Powered Communication Network. IEEE Transactions on Communications, 2014, 62, 3528-3540.	4.9	316
52	Energy Tradeoff in Ground-to-UAV Communication via Trajectory Design. IEEE Transactions on Vehicular Technology, 2018, 67, 6721-6726.	3.9	311
53	Common Throughput Maximization in UAV-Enabled OFDMA Systems With Delay Consideration. IEEE Transactions on Communications, 2018, 66, 6614-6627.	4.9	309
54	Joint Active and Passive Beamforming Optimization for Intelligent Reflecting Surface Assisted SWIPT Under QoS Constraints. IEEE Journal on Selected Areas in Communications, 2020, 38, 1735-1748.	9.7	293

#	ARTICLE	IF	CITATIONS
55	Intelligent Reflecting Surface Assisted Secrecy Communication: Is Artificial Noise Helpful or Not?. IEEE Wireless Communications Letters, 2020, 9, 778-782.	3.2	287
56	Weighted Sum Power Maximization for Intelligent Reflecting Surface Aided SWIPT. IEEE Wireless Communications Letters, 2020, 9, 586-590.	3.2	285
57	Dynamic Resource Allocation in Cognitive Radio Networks. IEEE Signal Processing Magazine, 2010, 27, 102-114.	4.6	281
58	Cellular-Enabled UAV Communication: A Connectivity-Constrained Trajectory Optimization Perspective. IEEE Transactions on Communications, 2019, 67, 2580-2604.	4.9	274
59	Cooperative Interference Management With MISO Beamforming. IEEE Transactions on Signal Processing, 2010, 58, 5450-5458.	3.2	271
60	Throughput Maximization for UAV-Enabled Wireless Powered Communication Networks. IEEE Internet of Things Journal, 2019, 6, 1690-1703.	5.5	269
61	Optimal channel estimation and training design for two-way relay networks. IEEE Transactions on Communications, 2009, 57, 3024-3033.	4.9	266
62	Throughput Optimization for Massive MIMO Systems Powered by Wireless Energy Transfer. IEEE Journal on Selected Areas in Communications, 2015, , 1-1.	9.7	260
63	Wireless Information and Power Transfer in Multiuser OFDM Systems. IEEE Transactions on Wireless Communications, 2014, 13, 2282-2294.	6.1	257
64	Millimeter Wave MIMO With Lens Antenna Array: A New Path Division Multiplexing Paradigm. IEEE Transactions on Communications, 2016, 64, 1557-1571.	4.9	255
65	Channel Estimation and Passive Beamforming for Intelligent Reflecting Surface: Discrete Phase Shift and Progressive Refinement. IEEE Journal on Selected Areas in Communications, 2020, 38, 2604-2620.	9.7	252
66	Intelligent Reflecting Surface-Assisted Multiple Access With User Pairing: NOMA or OMA?. IEEE Communications Letters, 2020, 24, 753-757.	2.5	251
67	3D Trajectory Optimization in Rician Fading for UAV-Enabled Data Harvesting. IEEE Transactions on Wireless Communications, 2019, 18, 3192-3207.	6.1	250
68	UAV-Aided Offloading for Cellular Hotspot. IEEE Transactions on Wireless Communications, 2018, 17, 3988-4001.	6.1	248
69	On peak versus average interference power constraints for protecting primary users in cognitive radio networks. IEEE Transactions on Wireless Communications, 2009, 8, 2112-2120.	6.1	246
70	Energy Cooperation Optimization in Microgrids With Renewable Energy Integration. IEEE Transactions on Smart Grid, 2018, 9, 1482-1493.	6.2	242
71	Modulation in the Air: Backscatter Communication Over Ambient OFDM Carrier. IEEE Transactions on Communications, 2018, 66, 1219-1233.	4.9	237
72	Throughput Optimal Policies for Energy Harvesting Wireless Transmitters with Non-Ideal Circuit Power. IEEE Journal on Selected Areas in Communications, 2014, 32, 322-332.	9.7	233

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73	Cooperative Multi-Cell Block Diagonalization with Per-Base-Station Power Constraints. IEEE Journal on Selected Areas in Communications, 2010, 28, 1435-1445.	9.7	222
74	Joint Computation and Communication Cooperation for Energy-Efficient Mobile Edge Computing. IEEE Internet of Things Journal, 2019, 6, 4188-4200.	5.5	222
75	Wireless communications in the era of big data. , 2015, 53, 190-199.		205
76	Beamforming Optimization for Intelligent Reflecting Surface with Discrete Phase Shifts. , 2019, , .		205
77	Joint Altitude and Beamwidth Optimization for UAV-Enabled Multiuser Communications. IEEE Communications Letters, 2018, 22, 344-347.	2.5	200
78	A survey of data fusion in smart city applications. Information Fusion, 2019, 52, 357-374.	11.7	199
79	On Ergodic Sum Capacity of Fading Cognitive Multiple-Access and Broadcast Channels. IEEE Transactions on Information Theory, 2009, 55, 5161-5178.	1.5	197
80	Cognitive Wireless Powered Network: Spectrum Sharing Models and Throughput Maximization. IEEE Transactions on Cognitive Communications and Networking, 2015, 1, 335-346.	4.9	196
81	Optimal Power Allocation Strategies for Fading Cognitive Radio Channels with Primary User Outage Constraint. IEEE Journal on Selected Areas in Communications, 2011, 29, 374-383.	9.7	194
82	Optimized Training Design for Wireless Energy Transfer. IEEE Transactions on Communications, 2015, 63, 536-550.	4.9	194
83	Optimal Save-Then-Transmit Protocol for Energy Harvesting Wireless Transmitters. IEEE Transactions on Wireless Communications, 2013, 12, 1196-1207.	6.1	193
84	Review of Near-Field Wireless Power and Communication for Biomedical Applications. IEEE Access, 2017, 5, 21264-21285.	2.6	192
85	Cyclical Multiple Access in UAV-Aided Communications: A Throughput-Delay Tradeoff. IEEE Wireless Communications Letters, 2016, 5, 600-603.	3.2	190
86	Downlink and Uplink Energy Minimization Through User Association and Beamforming in C-RAN. IEEE Transactions on Wireless Communications, 2015, 14, 494-508.	6.1	189
87	An Optimization Perspective of the Superiority of NOMA Compared to Conventional OMA. IEEE Transactions on Signal Processing, 2017, 65, 5191-5202.	3.2	189
88	Intelligent Reflecting Surface Assisted Multi-User OFDMA: Channel Estimation and Training Design. IEEE Transactions on Wireless Communications, 2020, 19, 8315-8329.	6.1	187
89	User cooperation in wireless powered communication networks. , 2014, , .		180
90	UAV-Enabled Cooperative Jamming for Improving Secrecy of Ground Wiretap Channel. IEEE Wireless Communications Letters, 2019, 8, 181-184.	3.2	178

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91	Blindly Combined Energy Detection for Spectrum Sensing in Cognitive Radio. IEEE Signal Processing Letters, 2008, 15, 649-652.	2.1	174
92	Energy Beamforming With One-Bit Feedback. IEEE Transactions on Signal Processing, 2014, 62, 5370-5381.	3.2	172
93	Capacity Characterization of UAV-Enabled Two-User Broadcast Channel. IEEE Journal on Selected Areas in Communications, 2018, 36, 1955-1971.	9.7	166
94	Intelligent Reflecting Surface Enhanced Wireless Networks: Two-Timescale Beamforming Optimization. IEEE Transactions on Wireless Communications, 2021, 20, 2-17.	6.1	166
95	Fundamental Trade-offs in Communication and Trajectory Design for UAV-Enabled Wireless Network. IEEE Wireless Communications, 2019, 26, 36-44.	6.6	160
96	Joint Beamforming and Power Control for Multiantenna Relay Broadcast Channel With QoS Constraints. IEEE Transactions on Signal Processing, 2009, 57, 726-737.	3.2	156
97	Channel Estimation for OFDM Modulated Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2009, 57, 4443-4455.	3.2	155
98	Uplink Cooperative NOMA for Cellular-Connected UAV. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 644-656.	7.3	153
99	Optimal power allocation for OFDM-based cognitive radio with new primary transmission protection criteria. IEEE Transactions on Wireless Communications, 2010, 9, 2066-2075.	6.1	152
100	Symbiotic Radio: A New Communication Paradigm for Passive Internet of Things. IEEE Internet of Things Journal, 2020, 7, 1350-1363.	5.5	152
101	A Survey on Channel Estimation and Practical Passive Beamforming Design for Intelligent Reflecting Surface Aided Wireless Communications. IEEE Communications Surveys and Tutorials, 2022, 24, 1035-1071.	24.8	152
102	Proactive Eavesdropping Via Jamming for Rate Maximization Over Rayleigh Fading Channels. IEEE Wireless Communications Letters, 2016, 5, 80-83.	3.2	151
103	Optimized transmission for fading multiple-access and broadcast channels with multiple antennas. IEEE Journal on Selected Areas in Communications, 2006, 24, 1627-1639.	9.7	149
104	Aerial Intelligent Reflecting Surface: Joint Placement and Passive Beamforming Design With 3D Beam Flattening. IEEE Transactions on Wireless Communications, 2021, 20, 4128-4143.	6.1	148
105	Energy Management for Renewable Microgrid in Reducing Diesel Generators Usage With Multiple Types of Battery. IEEE Transactions on Industrial Electronics, 2018, 65, 6772-6786.	5.2	146
106	Adaptive Deployment for UAV-Aided Communication Networks. IEEE Transactions on Wireless Communications, 2019, 18, 4531-4543.	6.1	144
107	Secrecy Wireless Information and Power Transfer in Fading Wiretap Channel. IEEE Transactions on Vehicular Technology, 2016, 65, 180-190.	3.9	141
108	Wireless information and power transfer: Architecture design and rate-energy tradeoff. , 2012, , .		140

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109	Double-IRS Assisted Multi-User MIMO: Cooperative Passive Beamforming Design. IEEE Transactions on Wireless Communications, 2021, 20, 4513-4526.	6.1	140
110	Overcoming Endurance Issue: UAV-Enabled Communications With Proactive Caching. IEEE Journal on Selected Areas in Communications, 2018, 36, 1231-1244.	9.7	136
111	A Survey on Millimeter-Wave Beamforming Enabled UAV Communications and Networking. IEEE Communications Surveys and Tutorials, 2022, 24, 557-610.	24.8	135
112	CoMP in the Sky: UAV Placement and Movement Optimization for Multi-User Communications. IEEE Transactions on Communications, 2019, 67, 5645-5658.	4.9	133
113	Wireless Information Surveillance via Proactive Eavesdropping with Spoofing Relay. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1449-1461.	7.3	132
114	Energy Cooperation in Cellular Networks with Renewable Powered Base Stations. IEEE Transactions on Wireless Communications, 2014, 13, 6996-7010.	6.1	131
115	Optimal Power Allocation for Outage Probability Minimization in Fading Channels with Energy Harvesting Constraints. IEEE Transactions on Wireless Communications, 2014, 13, 1074-1087.	6.1	129
116	Safeguarding Wireless Network with UAVs: A Physical Layer Security Perspective. IEEE Wireless Communications, 2019, 26, 12-18.	6.6	129
117	Cooperative Double-IRS Aided Communication: Beamforming Design and Power Scaling. IEEE Wireless Communications Letters, 2020, 9, 1206-1210.	3.2	127
118	Green 5G Heterogeneous Networks Through Dynamic Small-Cell Operation. IEEE Journal on Selected Areas in Communications, 2016, 34, 1103-1115.	9.7	126
119	Inductor-Free Wireless Energy Delivery via Maxwell's Displacement Current from an Electrodeless Triboelectric Nanogenerator. Advanced Materials, 2018, 30, 1704077.	11.1	124
120	Proactive Eavesdropping via Cognitive Jamming in Fading Channels. IEEE Transactions on Wireless Communications, 2017, 16, 2790-2806.	6.1	123
121	Cellular-Connected UAV: Uplink Association, Power Control and Interference Coordination. IEEE Transactions on Wireless Communications, 2019, 18, 5380-5393.	6.1	122
122	Optimal Resource Allocation for Two-Way Relay-Assisted OFDMA. IEEE Transactions on Vehicular Technology, 2009, 58, 3311-3321.	3.9	121
123	Transmit Optimization With Improper Gaussian Signaling for Interference Channels. IEEE Transactions on Signal Processing, 2013, 61, 2899-2913.	3.2	121
124	Opportunistic spectrum access for energy-constrained cognitive radios. IEEE Transactions on Wireless Communications, 2009, 8, 1206-1211.	6.1	120
125	GLRT-Based Spectrum Sensing for Cognitive Radio. , 2008, , .		119
126	Cognitive beamforming made practical: Effective interference channel and learning-throughput tradeoff. IEEE Transactions on Communications, 2010, 58, 706-718.	4.9	118



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127	CoMP Meets Smart Grid: A New Communication and Energy Cooperation Paradigm. IEEE Transactions on Vehicular Technology, 2015, 64, 2476-2488.	3.9	117
128	Surveillance and Intervention of Infrastructure-Free Mobile Communications: A New Wireless Security Paradigm. IEEE Wireless Communications, 2017, 24, 152-159.	6.6	117
129	Electromagnetic Lens-Focusing Antenna Enabled Massive MIMO: Performance Improvement and Cost Reduction. IEEE Journal on Selected Areas in Communications, 2014, 32, 1194-1206.	9.7	115
130	Two-Way Relaying over OFDM: Optimized Tone Permutation and Power Allocation. , 2008, , .		114
131	On Design of Collaborative Beamforming for Two-Way Relay Networks. IEEE Transactions on Signal Processing, 2011, 59, 2284-2295.	3.2	114
132	Hybrid Offline-Online Design for UAV-Enabled Data Harvesting in Probabilistic LoS Channels. IEEE Transactions on Wireless Communications, 2020, 19, 3753-3768.	6.1	113
133	On Gaussian MIMO BC-MAC Duality With Multiple Transmit Covariance Constraints. IEEE Transactions on Information Theory, 2012, 58, 2064-2078.	1.5	112
134	Wireless Communication Aided by Intelligent Reflecting Surface: Active or Passive?. IEEE Wireless Communications Letters, 2021, 10, 2659-2663.	3.2	112
135	Optimal Power Control over Fading Cognitive Radio Channel by Exploiting Primary User CSI. , 2008, , .		109
136	Mobile Edge Computing for Cellular-Connected UAV: Computation Offloading and Trajectory Optimization. , 2018, , .		108
137	Joint Power Control and Passive Beamforming in IRS-Assisted Spectrum Sharing. IEEE Communications Letters, 2020, 24, 1553-1557.	2.5	106
138	Resource Allocation for Wireless-Powered IoT Networks With Short Packet Communication. IEEE Transactions on Wireless Communications, 2019, 18, 1447-1461.	6.1	105
139	Artificial Noise Aided Secrecy Information and Power Transfer in OFDMA Systems. IEEE Transactions on Wireless Communications, 2016, 15, 3085-3096.	6.1	103
140	IRS-Enhanced OFDMA: Joint Resource Allocation and Passive Beamforming Optimization. IEEE Wireless Communications Letters, 2020, 9, 760-764.	3.2	99
141	Placement Optimization of Energy and Information Access Points in Wireless Powered Communication Networks. IEEE Transactions on Wireless Communications, 2016, 15, 2351-2364.	6.1	98
142	Securing UAV Communications via Trajectory Optimization. , 2017, , .		98
143	Distributed Frequency Control in Smart Grids via Randomized Demand Response. IEEE Transactions on Smart Grid, 2014, 5, 2798-2809.	6.2	94
144	Collaborative Wireless Energy and Information Transfer in Interference Channel. IEEE Transactions on Wireless Communications, 2015, 14, 545-557.	6.1	92

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145	UAV-Enabled Radio Access Network: Multi-Mode Communication and Trajectory Design. IEEE Transactions on Signal Processing, 2018, 66, 5269-5284.	3.2	92
146	Multi-Beam UAV Communication in Cellular Uplink: Cooperative Interference Cancellation and Sum-Rate Maximization. IEEE Transactions on Wireless Communications, 2019, 18, 4679-4691.	6.1	92
147	Asynchronous Mobile-Edge Computation Offloading: Energy-Efficient Resource Management. IEEE Transactions on Wireless Communications, 2018, 17, 7590-7605.	6.1	91
148	Design of Learning-Based MIMO Cognitive Radio Systems. IEEE Transactions on Vehicular Technology, 2010, 59, 1707-1720.	3.9	90
149	Multi-UAV Interference Coordination via Joint Trajectory and Power Control. IEEE Transactions on Signal Processing, 2020, 68, 843-858.	3.2	90
150	On the relationship between the multi-antenna secrecy communications and cognitive radio communications. IEEE Transactions on Communications, 2010, 58, 1877-1886.	4.9	89
151	Joint Millimeter-Wave Fronthaul and OFDMA Resource Allocation in Ultra-Dense CRAN. IEEE Transactions on Communications, 2017, 65, 1411-1423.	4.9	89
152	Spectrum and energy efficiency maximization in UAV-enabled mobile relaying. , 2017, , .		89
153	Optimal energy allocation for wireless communications powered by energy harvesters. , 2010, , .		88
154	Cost-aware green cellular networks with energy and communication cooperation. , 2015, 53, 257-263.		86
155	Engineering Radio Maps for Wireless Resource Management. IEEE Wireless Communications, 2019, 26, 133-141.	6.6	85
156	Intelligent Reflecting Surface Aided Multi-User Communication: Capacity Region and Deployment Strategy. IEEE Transactions on Communications, 2021, 69, 5790-5806.	4.9	85
157	Achieving Global Optimality for Weighted Sum-Rate Maximization in the K-User Gaussian Interference Channel with Multiple Antennas. IEEE Transactions on Wireless Communications, 2012, 11, 1933-1945.	6.1	84
158	A General Design Framework for MIMO Wireless Energy Transfer With Limited Feedback. IEEE Transactions on Signal Processing, 2016, 64, 2475-2488.	3.2	84
159	Energy Harvesting for Physical-Layer Security in OFDMA Networks. IEEE Transactions on Information Forensics and Security, 2016, 11, 154-162.	4.5	84
160	On Active Learning and Supervised Transmission of Spectrum Sharing Based Cognitive Radios by Exploiting Hidden Primary Radio Feedback. IEEE Transactions on Communications, 2010, 58, 2960-2970.	4.9	83
161	Adaptively Directional Wireless Power Transfer for Large-Scale Sensor Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1785-1800.	9.7	83
162	Efficient Channel Estimation for Double-IRS Aided Multi-User MIMO System. IEEE Transactions on Communications, 2021, 69, 3818-3832.	4.9	83

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163	Optimal Resource Allocation in Full-Duplex Ambient Backscatter Communication Networks for Wireless-Powered IoT. IEEE Internet of Things Journal, 2019, 6, 2612-2625.	5.5	82
164	Intelligent Reflecting Surface-Aided Wireless Energy and Information Transmission: An Overview. Proceedings of the IEEE, 2022, 110, 150-170.	16.4	82
165	Simultaneous Navigation and Radio Mapping for Cellular-Connected UAV With Deep Reinforcement Learning. IEEE Transactions on Wireless Communications, 2021, 20, 4205-4220.	6.1	81
166	Investigation on multiuser diversity in spectrum sharing based cognitive radio networks. IEEE Communications Letters, 2010, 14, 133-135.	2.5	80
167	Joint Power Control and Fronthaul Rate Allocation for Throughput Maximization in OFDMA-Based Cloud Radio Access Network. IEEE Transactions on Communications, 2015, 63, 4097-4110.	4.9	78
168	Joint Trajectory and Communication Design for UAV-Enabled Multiple Access. , 2017, , .		78
169	Trajectory Design for Distributed Estimation in UAV-Enabled Wireless Sensor Network. IEEE Transactions on Vehicular Technology, 2018, 67, 10155-10159.	3.9	78
170	Fast Beam Training for IRS-Assisted Multiuser Communications. IEEE Wireless Communications Letters, 2020, 9, 1845-1849.	3.2	78
171	Spatial Throughput Characterization for Intelligent Reflecting Surface Aided Multiuser System. IEEE Wireless Communications Letters, 2020, 9, 834-838.	3.2	77
172	Wireless Communication via Double IRS: Channel Estimation and Passive Beamforming Designs. IEEE Wireless Communications Letters, 2021, 10, 431-435.	3.2	77
173	Magnetic MIMO Signal Processing and Optimization for Wireless Power Transfer. IEEE Transactions on Signal Processing, 2017, 65, 2860-2874.	3.2	76
174	Cooperative Beam Routing for Multi-IRS Aided Communication. IEEE Wireless Communications Letters, 2021, 10, 426-430.	3.2	76
175	Beamforming and Power Control for Multi-Antenna Cognitive Two-Way Relaying. , 2009, , .		75
176	Optimal Analogue Relaying with Multi-Antennas for Physical Layer Network coding. , 2008, , .		74
177	Joint Energy and Spectrum Cooperation for Cellular Communication Systems. IEEE Transactions on Communications, 2014, 62, 3678-3691.	4.9	73
178	Intelligent Reflecting Surface with Discrete Phase Shifts: Channel Estimation and Passive Beamforming. , 2020, , .		72
179	Energy Efficiency Maximization via Joint Active and Passive Beamforming Design for Multiuser MISO IRS-Aided SWIPT. IEEE Wireless Communications Letters, 2021, 10, 557-561.	3.2	69
180	Wireless Powered Cooperative Jamming for Secrecy Multi-AF Relaying Networks. IEEE Transactions on Wireless Communications, 2016, 15, 7971-7984.	6.1	68

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181	Cooperative Energy Trading in CoMP Systems Powered by Smart Grids. IEEE Transactions on Vehicular Technology, 2016, 65, 2142-2153.	3.9	67
182	Cognitive UAV Communication via Joint Maneuver and Power Control. IEEE Transactions on Communications, 2019, 67, 7872-7888.	4.9	65
183	Radio Map-Based 3D Path Planning for Cellular-Connected UAV. IEEE Transactions on Wireless Communications, 2021, 20, 1975-1989.	6.1	64
184	Enabling Smart Reflection in Integrated Air-Ground Wireless Network: IRS Meets UAV. IEEE Wireless Communications, 2021, 28, 138-144.	6.6	64
185	UAV-Enabled Wireless Power Transfer: Trajectory Design and Energy Region Characterization. , 2017, , .		62
186	Distributed Wireless Power Transfer With Energy Feedback. IEEE Transactions on Signal Processing, 2017, 65, 1685-1699.	3.2	61
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