

Meng Zhang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6572939/meng-zhang-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

494
papers

42,986
citations

103
h-index

199
g-index

536
ext. papers

54,502
ext. citations

7.4
avg, IF

9.03
L-index

#	Paper	IF	Citations
494	Wireless communications with unmanned aerial vehicles: opportunities and challenges 2016 , 54, 36-42		1826
493	. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 1989-2001	9.6	1759
492	An Overview of Massive MIMO: Benefits and Challenges. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2014 , 8, 742-758	7.5	1431
491	. <i>IEEE Transactions on Communications</i> , 2013 , 61, 4754-4767	6.9	1185
490	Intelligent Reflecting Surface Enhanced Wireless Network via Joint Active and Passive Beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5394-5409	9.6	1071
489	Energy-Efficient UAV Communication With Trajectory Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3747-3760	9.6	958
488	Towards Smart and Reconfigurable Environment: Intelligent Reflecting Surface Aided Wireless Network. <i>IEEE Communications Magazine</i> , 2020 , 58, 106-112	9.1	930
487	Throughput Maximization in Wireless Powered Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 418-428	9.6	929
486	Joint Trajectory and Communication Design for Multi-UAV Enabled Wireless Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2109-2121	9.6	849
485	Wireless Communications Through Reconfigurable Intelligent Surfaces. <i>IEEE Access</i> , 2019 , 7, 116753-116773	9.73	833
484	Throughput Maximization for UAV-Enabled Mobile Relaying Systems. <i>IEEE Transactions on Communications</i> , 2016 , 64, 4983-4996	6.9	740
483	Wireless powered communication: opportunities and challenges 2015 , 53, 117-125		644
482	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2008 , 2, 88-102	7.5	537
481	Energy Minimization for Wireless Communication With Rotary-Wing UAV. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 2329-2345	9.6	507
480	Placement Optimization of UAV-Mounted Mobile Base Stations. <i>IEEE Communications Letters</i> , 2017 , 21, 604-607	3.8	493
479	Optimal Energy Allocation for Wireless Communications With Energy Harvesting Constraints. <i>IEEE Transactions on Signal Processing</i> , 2012 , 60, 4808-4818	4.8	493
478	Wireless Information Transfer with Opportunistic Energy Harvesting. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 288-300	9.6	469

477	Opportunistic Wireless Energy Harvesting in Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 4788-4799	9.6	447
476	Optimal power allocation for fading channels in cognitive radio networks: Ergodic capacity and outage capacity. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 940-950	9.6	415
475	Accessing From the Sky: A Tutorial on UAV Communications for 5G and Beyond. <i>Proceedings of the IEEE</i> , 2019 , 107, 2327-2375	14.3	410
474	Optimal beamforming for two-way multi-antenna relay channel with analogue network coding. <i>IEEE Journal on Selected Areas in Communications</i> , 2009 , 27, 699-712	14.2	409
473	Wireless Information and Power Transfer: A Dynamic Power Splitting Approach. <i>IEEE Transactions on Communications</i> , 2013 , 61, 3990-4001	6.9	405
472	Intelligent Reflecting Surface-Aided Wireless Communications: A Tutorial. <i>IEEE Transactions on Communications</i> , 2021 , 69, 3313-3351	6.9	372
471	Energy-Efficient Data Collection in UAV Enabled Wireless Sensor Network. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 328-331	5.9	371
470	. <i>IEEE Wireless Communications</i> , 2020 , 27, 118-125	13.4	368
469	Secrecy Wireless Information and Power Transfer With MISO Beamforming. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 1850-1863	4.8	358
468	Beamforming Optimization for Wireless Network Aided by Intelligent Reflecting Surface With Discrete Phase Shifts. <i>IEEE Transactions on Communications</i> , 2020 , 68, 1838-1851	6.9	355
467	Joint Transmit Beamforming and Receive Power Splitting for MISO SWIPT Systems. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 3269-3280	9.6	352
466	Price-Based Resource Allocation for Spectrum-Sharing Femtocell Networks: A Stackelberg Game Approach. <i>IEEE Journal on Selected Areas in Communications</i> , 2012 , 30, 538-549	14.2	336
465	A Review on Spectrum Sensing for Cognitive Radio: Challenges and Solutions. <i>Eurasip Journal on Advances in Signal Processing</i> , 2010 , 2010,	1.9	330
464	. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 4798-4810	4.8	326
463	Wireless powered communication networks: an overview. <i>IEEE Wireless Communications</i> , 2016 , 23, 10-18	13.4	325
462	Secure Wireless Communication via Intelligent Reflecting Surface. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 1410-1414	5.9	312
461	Intelligent Reflecting Surface-Enhanced OFDM: Channel Estimation and Reflection Optimization. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 518-522	5.9	310
460	. <i>IEEE Transactions on Communications</i> , 2014 , 62, 4349-4361	6.9	303

459	Fundamentals of Wireless Information and Power Transfer: From RF Energy Harvester Models to Signal and System Designs. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 4-33	14.2	298
458	UAV-Enabled Wireless Power Transfer: Trajectory Design and Energy Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 5092-5106	9.6	295
457	Communications and Signals Design for Wireless Power Transmission. <i>IEEE Transactions on Communications</i> , 2017 , 65, 2264-2290	6.9	278
456	Cellular-Connected UAV: Potential, Challenges, and Promising Technologies. <i>IEEE Wireless Communications</i> , 2019 , 26, 120-127	13.4	271
455	. <i>IEEE Wireless Communications Letters</i> , 2015 , 4, 201-204	5.9	266
454	Throughput Maximization for the Gaussian Relay Channel with Energy Harvesting Constraints. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 1469-1479	14.2	262
453	Intelligent Reflecting Surface Enhanced Wireless Network: Joint Active and Passive Beamforming Design 2018 ,		260
452	Optimal resource allocation in full-duplex wireless-powered communication network. <i>IEEE Transactions on Communications</i> , 2014 , 62, 3528-3540	6.9	259
451	Real-Time Energy Storage Management for Renewable Integration in Microgrid: An Off-Line Optimization Approach. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 124-134	10.7	256
450	Multi-antenna based spectrum sensing for cognitive radios: A GLRT approach. <i>IEEE Transactions on Communications</i> , 2010 , 58, 84-88	6.9	252
449	Trajectory Design for Completion Time Minimization in UAV-Enabled Multicasting. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2233-2246	9.6	241
448	Securing UAV Communications via Joint Trajectory and Power Control. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 1376-1389	9.6	239
447	Common Throughput Maximization in UAV-Enabled OFDMA Systems With Delay Consideration. <i>IEEE Transactions on Communications</i> , 2018 , 66, 6614-6627	6.9	227
446	Energy Tradeoff in Ground-to-UAV Communication via Trajectory Design. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 6721-6726	6.8	224
445	Reconfigurable Intelligent Surfaces vs. Relaying: Differences, Similarities, and Performance Comparison. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 798-807	6.7	221
444	. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 1-1	14.2	217
443	Intelligent Reflecting Surface Meets OFDM: Protocol Design and Rate Maximization. <i>IEEE Transactions on Communications</i> , 2020 , 68, 4522-4535	6.9	213
442	Dynamic Resource Allocation in Cognitive Radio Networks. <i>IEEE Signal Processing Magazine</i> , 2010 , 27, 102-114	9.4	213

441	. <i>IEEE Transactions on Communications</i> , 2009 , 57, 3024-3033	6.9	211
440	Capacity Characterization for Intelligent Reflecting Surface Aided MIMO Communication. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 1823-1838	14.2	207
439	. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 2282-2294	9.6	201
438	Intelligent Reflecting Surface: Practical Phase Shift Model and Beamforming Optimization. <i>IEEE Transactions on Communications</i> , 2020 , 68, 5849-5863	6.9	197
437	On peak versus average interference power constraints for protecting primary users in cognitive radio networks. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 2112-2120	9.6	195
436	Cooperative Interference Management With MISO Beamforming. <i>IEEE Transactions on Signal Processing</i> , 2010 , 58, 5450-5458	4.8	190
435	Cellular-Enabled UAV Communication: A Connectivity-Constrained Trajectory Optimization Perspective. <i>IEEE Transactions on Communications</i> , 2019 , 67, 2580-2604	6.9	190
434	. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 3988-4001	9.6	180
433	Weighted Sum Power Maximization for Intelligent Reflecting Surface Aided SWIPT. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 586-590	5.9	180
432	Throughput Maximization for UAV-Enabled Wireless Powered Communication Networks. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 1690-1703	10.7	178
431	Millimeter Wave MIMO With Lens Antenna Array: A New Path Division Multiplexing Paradigm. <i>IEEE Transactions on Communications</i> , 2016 , 64, 1557-1571	6.9	177
430	Throughput Optimal Policies for Energy Harvesting Wireless Transmitters with Non-Ideal Circuit Power. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 322-332	14.2	171
429	Cooperative Multi-Cell Block Diagonalization with Per-Base-Station Power Constraints. <i>IEEE Journal on Selected Areas in Communications</i> , 2010 , 28, 1435-1445	14.2	169
428	Modulation in the Air: Backscatter Communication Over Ambient OFDM Carrier. <i>IEEE Transactions on Communications</i> , 2018 , 66, 1219-1233	6.9	168
427	Optimized Training Design for Wireless Energy Transfer. <i>IEEE Transactions on Communications</i> , 2015 , 63, 536-550	6.9	168
426	Joint Active and Passive Beamforming Optimization for Intelligent Reflecting Surface Assisted SWIPT Under QoS Constraints. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 1735-1748	14.2	166
425	Downlink and Uplink Energy Minimization Through User Association and Beamforming in C-RAN. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 494-508	9.6	162
424	On Ergodic Sum Capacity of Fading Cognitive Multiple-Access and Broadcast Channels. <i>IEEE Transactions on Information Theory</i> , 2009 , 55, 5161-5178	2.8	161

423	Intelligent Reflecting Surface Assisted Secrecy Communication: Is Artificial Noise Helpful or Not?. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 778-782	5.9	159
422	Optimal Power Allocation Strategies for Fading Cognitive Radio Channels with Primary User Outage Constraint. <i>IEEE Journal on Selected Areas in Communications</i> , 2011 , 29, 374-383	14.2	159
421	2015 , 53, 190-199		156
420	. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 1196-1207	9.6	156
419	Joint Altitude and Beamwidth Optimization for UAV-Enabled Multiuser Communications. <i>IEEE Communications Letters</i> , 2018 , 22, 344-347	3.8	155
418	Cyclical Multiple Access in UAV-Aided Communications: A Throughput-Delay Tradeoff. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 600-603	5.9	151
417	3D Trajectory Optimization in Rician Fading for UAV-Enabled Data Harvesting. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 3192-3207	9.6	144
416	Energy Beamforming With One-Bit Feedback. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 5370-5381	4.8	138
415	Cognitive Wireless Powered Network: Spectrum Sharing Models and Throughput Maximization. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2015 , 1, 335-346	6.6	138
414	User cooperation in wireless powered communication networks 2014 ,		136
413	. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 4188-4200	10.7	132
412	. <i>IEEE Journal on Selected Areas in Communications</i> , 2018 , 36, 1955-1971	14.2	130
411	Channel Estimation and Passive Beamforming for Intelligent Reflecting Surface: Discrete Phase Shift and Progressive Refinement. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 2604-2620	14.2	129
410	Optimal power allocation for OFDM-based cognitive radio with new primary transmission protection criteria. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 2066-2075	9.6	128
409	Intelligent Reflecting Surface-Assisted Multiple Access With User Pairing: NOMA or OMA?. <i>IEEE Communications Letters</i> , 2020 , 24, 753-757	3.8	126
408	Beamforming Optimization for Intelligent Reflecting Surface with Discrete Phase Shifts 2019 ,		126
407	An Optimization Perspective of the Superiority of NOMA Compared to Conventional OMA. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 5191-5202	4.8	126
406	Blindly Combined Energy Detection for Spectrum Sensing in Cognitive Radio. <i>IEEE Signal Processing Letters</i> , 2008 , 15, 649-652	3.2	126

405	Energy Cooperation Optimization in Microgrids With Renewable Energy Integration. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 1482-1493	10.7	122
404	Fundamental Trade-offs in Communication and Trajectory Design for UAV-Enabled Wireless Network. <i>IEEE Wireless Communications</i> , 2019 , 26, 36-44	13.4	121
403	Channel Estimation for OFDM Modulated Two-Way Relay Networks. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 4443-4455	4.8	118
402	Optimized transmission for fading multiple-access and broadcast channels with multiple antennas. <i>IEEE Journal on Selected Areas in Communications</i> , 2006 , 24, 1627-1639	14.2	118
401	UAV-Enabled Cooperative Jamming for Improving Secrecy of Ground Wiretap Channel. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 181-184	5.9	117
400	Joint Beamforming and Power Control for Multiantenna Relay Broadcast Channel With QoS Constraints. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 726-737	4.8	116
399	A survey of data fusion in smart city applications. <i>Information Fusion</i> , 2019 , 52, 357-374	16.7	114
398	Wireless information and power transfer: Architecture design and rate-energy tradeoff 2012 ,		112
397	Review of Near-Field Wireless Power and Communication for Biomedical Applications. <i>IEEE Access</i> , 2017 , 5, 21264-21285	3.5	111
396	Secrecy Wireless Information and Power Transfer in Fading Wiretap Channel. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 180-190	6.8	110
395	Proactive Eavesdropping Via Jamming for Rate Maximization Over Rayleigh Fading Channels. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 80-83	5.9	110
394	Intelligent Reflecting Surface Assisted Multi-User OFDMA: Channel Estimation and Training Design. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 8315-8329	9.6	110
393	Uplink Cooperative NOMA for Cellular-Connected UAV. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2019 , 13, 644-656	7.5	109
392	Optimal Power Allocation for Outage Probability Minimization in Fading Channels with Energy Harvesting Constraints. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 1074-1087	9.6	106
391	Wireless Information Surveillance via Proactive Eavesdropping with Spoofing Relay. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016 , 10, 1449-1461	7.5	100
390	Energy Cooperation in Cellular Networks with Renewable Powered Base Stations. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 6996-7010	9.6	99
389	Transmit Optimization With Improper Gaussian Signaling for Interference Channels. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 2899-2913	4.8	98
388	Surveillance and Intervention of Infrastructure-Free Mobile Communications: A New Wireless Security Paradigm. <i>IEEE Wireless Communications</i> , 2017 , 24, 152-159	13.4	95

387	Optimal Resource Allocation for Two-Way Relay-Assisted OFDMA. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 3311-3321	6.8	95
386	. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 6772-6786	8.9	94
385	Green 5G Heterogeneous Networks Through Dynamic Small-Cell Operation. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 1103-1115	14.2	91
384	Overcoming Endurance Issue: UAV-Enabled Communications With Proactive Caching. <i>IEEE Journal on Selected Areas in Communications</i> , 2018 , 36, 1231-1244	14.2	91
383	Opportunistic spectrum access for energy-constrained cognitive radios. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 1206-1211	9.6	91
382	Cognitive beamforming made practical: Effective interference channel and learning-throughput tradeoff. <i>IEEE Transactions on Communications</i> , 2010 , 58, 706-718	6.9	89
381	Proactive Eavesdropping via Cognitive Jamming in Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 2790-2806	9.6	88
380	Inductor-Free Wireless Energy Delivery via Maxwell's Displacement Current from an Electrodeless Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2018 , 30, 1704077	24	88
379	Artificial Noise Aided Secrecy Information and Power Transfer in OFDMA Systems. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 3085-3096	9.6	88
378	CoMP Meets Smart Grid: A New Communication and Energy Cooperation Paradigm. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 2476-2488	6.8	87
377	Two-Way Relaying over OFDM: Optimized Tone Permutation and Power Allocation 2008 ,		87
376	Electromagnetic Lens-Focusing Antenna Enabled Massive MIMO: Performance Improvement and Cost Reduction. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 1194-1206	14.2	86
375	Collaborative Wireless Energy and Information Transfer in Interference Channel. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 545-557	9.6	84
374	On Design of Collaborative Beamforming for Two-Way Relay Networks. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 2284-2295	4.8	84
373	GLRT-Based Spectrum Sensing for Cognitive Radio 2008 ,		83
372	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 2-17	9.6	82
371	Cellular-Connected UAV: Uplink Association, Power Control and Interference Coordination. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5380-5393	9.6	81
370	Placement Optimization of Energy and Information Access Points in Wireless Powered Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 2351-2364	9.6	81

369	CoMP in the Sky: UAV Placement and Movement Optimization for Multi-User Communications. <i>IEEE Transactions on Communications</i> , 2019 , 67, 5645-5658	6.9	79
368	Securing UAV Communications via Trajectory Optimization 2017 ,		78
367	Optimal Power Control over Fading Cognitive Radio Channel by Exploiting Primary User CSI 2008 ,		78
366	Adaptive Deployment for UAV-Aided Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 4531-4543	9.6	74
365	On Gaussian MIMO BC-MAC Duality With Multiple Transmit Covariance Constraints. <i>IEEE Transactions on Information Theory</i> , 2012 , 58, 2064-2078	2.8	74
364	. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 1707-1720	6.8	74
363	Mobile Edge Computing for Cellular-Connected UAV: Computation Offloading and Trajectory Optimization 2018 ,		74
362	Joint Millimeter-Wave Fronthaul and OFDMA Resource Allocation in Ultra-Dense CRAN. <i>IEEE Transactions on Communications</i> , 2017 , 65, 1411-1423	6.9	73
361	Optimal energy allocation for wireless communications powered by energy harvesters 2010 ,		73
360	On the relationship between the multi-antenna secrecy communications and cognitive radio communications. <i>IEEE Transactions on Communications</i> , 2010 , 58, 1877-1886	6.9	73
359	A General Design Framework for MIMO Wireless Energy Transfer With Limited Feedback. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 2475-2488	4.8	72
358	Safeguarding Wireless Network with UAVs: A Physical Layer Security Perspective. <i>IEEE Wireless Communications</i> , 2019 , 26, 12-18	13.4	71
357	Distributed Frequency Control in Smart Grids via Randomized Demand Response. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 2798-2809	10.7	71
356	UAV-Enabled Radio Access Network: Multi-Mode Communication and Trajectory Design. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 5269-5284	4.8	70
355	Achieving Global Optimality for Weighted Sum-Rate Maximization in the K-User Gaussian Interference Channel with Multiple Antennas. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 1933-1945	9.6	70
354	Spectrum and energy efficiency maximization in UAV-enabled mobile relaying 2017 ,		69
353	Cost-aware green cellular networks with energy and communication cooperation 2015 , 53, 257-263		66
352	Energy Harvesting for Physical-Layer Security in OFDMA Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2016 , 11, 154-162	8	66

351	Asynchronous Mobile-Edge Computation Offloading: Energy-Efficient Resource Management. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 7590-7605	9.6	66
350	Resource Allocation for Wireless-Powered IoT Networks With Short Packet Communication. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 1447-1461	9.6	63
349	Joint Energy and Spectrum Cooperation for Cellular Communication Systems. <i>IEEE Transactions on Communications</i> , 2014 , 62, 3678-3691	6.9	62
348	Multi-Beam UAV Communication in Cellular Uplink: Cooperative Interference Cancellation and Sum-Rate Maximization. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 4679-4691	9.6	61
347	Investigation on multiuser diversity in spectrum sharing based cognitive radio networks. <i>IEEE Communications Letters</i> , 2010 , 14, 133-135	3.8	61
346	On Active Learning and Supervised Transmission of Spectrum Sharing Based Cognitive Radios by Exploiting Hidden Primary Radio Feedback. <i>IEEE Transactions on Communications</i> , 2010 , 58, 2960-2970	6.9	61
345	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 1350-1363	10.7	61
344	Joint Trajectory and Communication Design for UAV-Enabled Multiple Access 2017 ,		60
343	Joint Power Control and Fronthaul Rate Allocation for Throughput Maximization in OFDMA-Based Cloud Radio Access Network. <i>IEEE Transactions on Communications</i> , 2015 , 63, 4097-4110	6.9	59
342	. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 7971-7984	9.6	57
341	Adaptively Directional Wireless Power Transfer for Large-Scale Sensor Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 1785-1800	14.2	57
340	Optimal Resource Allocation in Full-Duplex Ambient Backscatter Communication Networks for Wireless-Powered IoT. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 2612-2625	10.7	57
339	Cooperative Energy Trading in CoMP Systems Powered by Smart Grids. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 2142-2153	6.8	56
338	IRS-Enhanced OFDMA: Joint Resource Allocation and Passive Beamforming Optimization. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 760-764	5.9	55
337	Multi-UAV Interference Coordination via Joint Trajectory and Power Control. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 843-858	4.8	54
336	2017 ,		54
335	Optimal Analogue Relaying with Multi-Antennas for Physical Layer Network coding 2008 ,		54
334	Joint Power Control and Passive Beamforming in IRS-Assisted Spectrum Sharing. <i>IEEE Communications Letters</i> , 2020 , 24, 1553-1557	3.8	53

333	Hybrid Offline-Online Design for UAV-Enabled Data Harvesting in Probabilistic LoS Channels. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 3753-3768	9.6	52
332	Cooperative Double-IRS Aided Communication: Beamforming Design and Power Scaling. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1206-1210	5.9	51
331	Aerial Intelligent Reflecting Surface: Joint Placement and Passive Beamforming Design With 3D Beam Flattening. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 4128-4143	9.6	51
330	Distributed Wireless Power Transfer With Energy Feedback. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 1685-1699	4.8	50
329	A general utility optimization framework for energy-harvesting-based wireless communications 2015 , 53, 79-85		50
328	Beamforming and Power Control for Multi-Antenna Cognitive Two-Way Relaying 2009 ,		50
327	Cognitive UAV Communication via Joint Maneuver and Power Control. <i>IEEE Transactions on Communications</i> , 2019 , 67, 7872-7888	6.9	49
326	Bidirectional Wireless Information and Power Transfer With a Helping Relay. <i>IEEE Communications Letters</i> , 2016 , 20, 862-865	3.8	49
325	Multi-User Millimeter Wave MIMO With Full-Dimensional Lens Antenna Array. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2800-2814	9.6	46
324	Trajectory Design for Distributed Estimation in UAV-Enabled Wireless Sensor Network. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 10155-10159	6.8	46
323	Optimized Uplink Transmission in Multi-Antenna C-RAN With Spatial Compression and Forward. <i>IEEE Transactions on Signal Processing</i> , 2015 , 63, 5083-5095	4.8	45
322	Optimized Transmission with Improper Gaussian Signaling in the K-User MISO Interference Channel. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 6303-6313	9.6	45
321	Optimized Training for Net Energy Maximization in Multi-Antenna Wireless Energy Transfer Over Frequency-Selective Channel. <i>IEEE Transactions on Communications</i> , 2015 , 63, 2360-2373	6.9	44
320	Engineering Radio Maps for Wireless Resource Management. <i>IEEE Wireless Communications</i> , 2019 , 26, 133-141	13.4	41
319	Spatial Throughput Characterization for Intelligent Reflecting Surface Aided Multiuser System. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 834-838	5.9	41
318	Cooperative Local Caching Under Heterogeneous File Preferences. <i>IEEE Transactions on Communications</i> , 2016 , 1-1	6.9	41
317	Multiuser MISO beamforming for simultaneous wireless information and power transfer 2013 ,		41
316	Magnetic MIMO Signal Processing and Optimization for Wireless Power Transfer. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 2860-2874	4.8	40

315	Channel Estimation for Millimeter-Wave MIMO Communications With Lens Antenna Arrays. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 3239-3251	6.8	40
314	Spatial Throughput Characterization in Cognitive Radio Networks with Threshold-Based Opportunistic Spectrum Access. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 2190-2204	14.2	40
313	Double-IRS Assisted Multi-User MIMO: Cooperative Passive Beamforming Design. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 4513-4526	9.6	40
312	A Novel Mode Switching Scheme Utilizing Random Beamforming for Opportunistic Energy Harvesting. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 2150-2162	9.6	39
311	Energy Group Buying With Loading Sharing for Green Cellular Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 786-799	14.2	38
310	Cooperative Feedback for Multiantenna Cognitive Radio Networks. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 747-758	4.8	38
309	Optimal Distributed Beamforming for MISO Interference Channels. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 5638-5643	4.8	38
308	Wireless Communication via Double IRS: Channel Estimation and Passive Beamforming Designs. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 431-435	5.9	38
307	MIMO Broadcasting for Simultaneous Wireless Information and Power Transfer 2011 ,		37
306	. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 3481-3491	9.6	36
305	Exploiting Network Cooperation in Green Wireless Communication. <i>IEEE Transactions on Communications</i> , 2013 , 61, 999-1010	6.9	36
304	Intelligent Reflecting Surface with Discrete Phase Shifts: Channel Estimation and Passive Beamforming 2020 ,		36
303	Efficient Channel Estimation for Double-IRS Aided Multi-User MIMO System. <i>IEEE Transactions on Communications</i> , 2021 , 69, 3818-3832	6.9	36
302	IRS-Enhanced OFDM: Power Allocation and Passive Array Optimization 2019 ,		36
301	. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9	36
300	Multuser MIMO Wireless Energy Transfer With Coexisting Opportunistic Communication. <i>IEEE Wireless Communications Letters</i> , 2015 , 4, 273-276	5.9	35
299	Cooperative Downlink Interference Transmission and Cancellation for Cellular-Connected UAV: A Divide-and-Conquer Approach. <i>IEEE Transactions on Communications</i> , 2020 , 68, 1297-1311	6.9	35
298	Jamming-Assisted Eavesdropping Over Parallel Fading Channels. <i>IEEE Transactions on Information Forensics and Security</i> , 2019 , 14, 2486-2499	8	34

297	Constant Envelope Precoding for MIMO Systems. <i>IEEE Transactions on Communications</i> , 2018 , 66, 149-162	9	34
296	Network-Connected UAV: 3-D System Modeling and Coverage Performance Analysis. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 7048-7060	10.7	34
295	Spectrum Sharing and Cyclical Multiple Access in UAV-Aided Cellular Offloading 2017 ,		34
294	Intelligent Reflecting Surface: Practical Phase Shift Model and Beamforming Optimization 2020 ,		34
293	Retrodirective Multi-User Wireless Power Transfer With Massive MIMO. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 54-57	5.9	33
292	Dynamic Base Station Operation in Large-Scale Green Cellular Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 3127-3141	14.2	33
291	UAV-enabled multiuser wireless power transfer: Trajectory design and energy optimization 2017 ,		33
290	. <i>IEEE Transactions on Communications</i> , 2021 , 69, 4216-4231	6.9	33
289	Joint computation and communication cooperation for mobile edge computing 2018 ,		33
288	Energy cooperation in cellular networks with renewable powered base stations 2013 ,		32
287	Energy Efficiency Maximization for Full-Duplex UAV Secrecy Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 4590-4595	6.8	31
286	On achievable rates of two-path successive relaying. <i>IEEE Transactions on Communications</i> , 2009 , 57, 2914-2917	6.9	31
285	Optimal Power Allocation for Cognitive Radio Under Primary User's Outage Loss Constraint 2009 ,		31
284	A New Design Paradigm for MIMO Cognitive Radio with Primary User Rate Constraint. <i>IEEE Communications Letters</i> , 2012 , 16, 706-709	3.8	30
283	Fast Channel Estimation for IRS-Assisted OFDM. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 580-584	5.9	30
282	Energy Efficiency Maximization via Joint Active and Passive Beamforming Design for Multiuser MISO IRS-Aided SWIPT. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 557-561	5.9	30
281	Multiantenna Wireless Powered Communication With Cochannel Energy and Information Transfer. <i>IEEE Communications Letters</i> , 2015 , 19, 2266-2269	3.8	29
280	A Survey on Millimeter-Wave Beamforming Enabled UAV Communications and Networking. <i>IEEE Communications Surveys and Tutorials</i> , 2021 , 1-1	37.1	29

279	Intelligent Reflecting Surface Aided Multi-User Communication: Capacity Region and Deployment Strategy. <i>IEEE Transactions on Communications</i> , 2021 , 69, 5790-5806	6.9	29
278	Multiuser Wireless Power Transfer via Magnetic Resonant Coupling: Performance Analysis, Charging Control, and Power Region Characterization. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2016 , 2, 72-83	2.8	28
277	Optimal Pricing and Load Sharing for Energy Saving With Cooperative Communications. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 951-964	9.6	28
276	Distributed Frequency Control via Randomized Response of Electric Vehicles in Power Grid. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 312-324	8.2	28
275	Cost-Effective Millimeter-Wave Communications with Lens Antenna Array. <i>IEEE Wireless Communications</i> , 2017 , 24, 81-87	13.4	28
274	Optimal Dynamic Resource Allocation for Multi-Antenna Broadcasting With Heterogeneous Delay-Constrained Traffic. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2008 , 2, 243-255	7.5	28
273	Exploiting Hidden Power-Feedback Loops for Cognitive Radio 2008 ,		28
272	Spatial Throughput Maximization of Wireless Powered Communication Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 1-1	14.2	27
271	Capacity Region of MISO Broadcast Channel for Simultaneous Wireless Information and Power Transfer. <i>IEEE Transactions on Communications</i> , 2015 , 63, 3856-3868	6.9	27
270	Enabling Panoramic Full-Angle Reflection Via Aerial Intelligent Reflecting Surface 2020 ,		27
269	Distributed Charging Control in Broadband Wireless Power Transfer Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 3380-3393	14.2	26
268	Cooperative Beam Routing for Multi-IRS Aided Communication. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 426-430	5.9	26
267	Cognitive UAV Communication via Joint Trajectory and Power Control 2018 ,		26
266	Wireless Power Transfer With Hybrid Beamforming: How Many RF Chains Do We Need?. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 6972-6984	9.6	25
265	Fast Beam Training for IRS-Assisted Multiuser Communications. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1845-1849	5.9	25
264	Cellular-Enabled UAV Communication: Trajectory Optimization under Connectivity Constraint 2018 ,		25
263	Secrecy wireless information and power transfer in fading wiretap channel 2014 ,		24
262	Optimal Power and Range Adaptation for Green Broadcasting. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 4592-4603	9.6	24

261	2009,			24
260	2020,			23
259	A Survey on Channel Estimation and Practical Passive Beamforming Design for Intelligent Reflecting Surface Aided Wireless Communications. <i>IEEE Communications Surveys and Tutorials</i> , 2022 , 1-1	37.1		23
258	Jamming-Assisted Proactive Eavesdropping Over Two Suspicious Communication Links. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 4817-4830	9.6		22
257	Optimized Power Allocation for Interference Channel With SWIPT. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 220-223	5.9		22
256	. <i>IEEE Journal on Selected Areas in Communications</i> , 2012 , 30, 415-424	14.2		22
255	Improper Signaling for Symbol Error Rate Minimization in $\mathbb{K}\mathbb{K}$ -User Interference Channel. <i>IEEE Transactions on Communications</i> , 2015 , 63, 857-869	6.9		22
254	Wireless information transfer with opportunistic energy harvesting 2012,			22
253	Simultaneous Navigation and Radio Mapping for Cellular-Connected UAV With Deep Reinforcement Learning. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 4205-4220	9.6		22
252	Enabling Smart Reflection in Integrated Air-Ground Wireless Network: IRS Meets UAV. <i>IEEE Wireless Communications</i> , 2021 , 28, 138-144	13.4		22
251	UAV-Sensing-Assisted Cellular Interference Coordination: A Cognitive Radio Approach. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 799-803	5.9		21
250	2017,			21
249	Blind Detection with Unique Identification in Two-Way Relay Channel. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 2640-2648	9.6		21
248	Delay-Optimal Scheduling for IRS-Aided Mobile Edge Computing. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 740-744	5.9		21
247	Multi-Objective Resource Allocation for IRS-Aided SWIPT. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1324-1328	5.9		21
246	Cellular-Connected UAV: Uplink Association, Power Control and Interference Coordination 2018,			21
245	3D Beam Tracking for Cellular-Connected UAV. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 736-740	5.9		20
244	2012,			20

243	On Channel Estimation for Amplify-and-Forward Two-Way Relay Networks 2008,		20
242	Optimized Resource Allocation for Upstream Vectors DSL Systems With Zero-Forcing Generalized Decision Feedback Equalizer. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2007 , 1, 686-699	7.5	20
241	Radio Map-Based 3D Path Planning for Cellular-Connected UAV. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 1975-1989	9.6	20
240	Efficient channel estimation for millimeter wave MIMO with limited RF chains 2016,		19
239	Intelligent Reflecting Surface-Aided Wireless Energy and Information Transmission: An Overview. <i>Proceedings of the IEEE</i> , 2022 , 110, 150-170	14.3	19
238	Secure Beamforming for Untrusted MISO Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 4861-4872	9.6	19
237	Active eavesdropping via spoofing relay attack 2016,		18
236	Downlink SINR balancing in C-RAN under limited fronthaul capacity 2016,		18
235	2012,		18
234	On Gaussian MIMO BC-MAC duality with multiple transmit covariance constraints 2009,		18
233	Anchor-Assisted Channel Estimation for Intelligent Reflecting Surface Aided Multiuser Communication. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	18
232	Real-time energy management for cooperative microgrids with renewable energy integration 2014,		17
231	Multi-Cell Random Beamforming: Achievable Rate and Degrees of Freedom Region. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 3532-3544	4.8	17
230	Radio Map Based Path Planning for Cellular-Connected UAV 2019,		17
229	Intelligent Reflecting Surface Aided Multicasting With Random Passive Beamforming. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 92-96	5.9	17
228	Outage-Constrained Robust Beamforming for Intelligent Reflecting Surface Aided Wireless Communication. <i>IEEE Transactions on Signal Processing</i> , 2021 , 69, 1301-1316	4.8	17
227	Capacity of UAV-Enabled Multicast Channel: Joint Trajectory Design and Power Allocation 2018,		17
226	Node Placement and Distributed Magnetic Beamforming Optimization for Wireless Power Transfer. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2018 , 4, 264-279	2.8	16

225	User-Initiated Data Plan Trading via a Personal Hotspot Market. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 7885-7898	9.6	16
224	. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 2512-2525	9.6	16
223	Throughput Maximization for Mobile Relaying Systems 2016 ,		16
222	Delay-constrained throughput maximization in UAV-enabled OFDM systems 2017 ,		15
221	Optimal power allocation for an energy harvesting estimation system 2013 ,		15
220	Protecting Primary Users in Cognitive Radio Networks: Peak or Average Interference Power Constraint? 2009 ,		15
219	Subchannel grouping and statistical waterfilling for vector block-fading channels. <i>IEEE Transactions on Communications</i> , 2006 , 54, 1131-1142	6.9	15
218	. <i>IEEE Transactions on Communications</i> , 2020 , 68, 1312-1326	6.9	15
217	Magnetic beamforming for wireless power transfer 2016 ,		15
216	Two-Timescale Beamforming Optimization for Intelligent Reflecting Surface Aided Multiuser Communication With QoS Constraints. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 6179-6194 ⁶	9.6	15
215	Hybrid Active/Passive Wireless Network Aided by Intelligent Reflecting Surface: System Modeling and Performance Analysis. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	15
214	Exploiting NOMA for Multi-Beam UAV Communication in Cellular Uplink 2019 ,		14
213	Proactive Eavesdropping via Jamming over HARQ-Based Communications 2017 ,		14
212	Cooperative energy trading in CoMP systems powered by smart grids 2014 ,		14
211	Recent advances in joint wireless energy and information transfer 2014 ,		14
210	On Design of Opportunistic Spectrum Access in the Presence of Reactive Primary Users. <i>IEEE Transactions on Communications</i> , 2013 , 61, 2678-2691	6.9	14
209	Green OFDMA resource allocation in cache-enabled CRAN 2016 ,		14
208	Fundamental Rate Limits of Physical Layer Spoofing. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 154-157	3.57	13

207	Spatial-Modulation-Based Wireless-Powered Communication for Achievable Rate Enhancement. <i>IEEE Communications Letters</i> , 2017 , 21, 1365-1368	3.8	13
206	Waveform optimization for radio-frequency wireless power transfer : (Invited paper) 2017 ,		13
205	On Capacity Region of Two-Way Multi-Antenna Relay Channel with Analogue Network Coding 2009 ,		13
204	Approaching MIMO-OFDM Capacity with Per-Antenna Power and Rate Feedback. <i>IEEE Journal on Selected Areas in Communications</i> , 2007 , 25, 1284-1297	14.2	13
203	Anchor-Assisted Intelligent Reflecting Surface Channel Estimation for Multiuser Communications 2020 ,		13
202	Trajectory Design for Cellular-Connected UAV Under Outage Duration Constraint 2019 ,		12
201	Exploiting Interference for Secrecy Wireless Information and Power Transfer. <i>IEEE Wireless Communications</i> , 2018 , 25, 133-139	13.4	12
200	Transmit Optimization for Symbol-Level Spoofing. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 41-55	9.6	12
199	Wireless power meets energy harvesting: A joint energy allocation approach 2014 ,		12
198	Optimal Resource Allocation for Two-Way Relay-Assisted OFDMA 2008 ,		12
197	Approaching MIMO-OFDM Capacity With Zero-Forcing V-BLAST Decoding and Optimized Power, Rate, and Antenna-Mapping Feedback. <i>IEEE Transactions on Signal Processing</i> , 2008 , 56, 5191-5203	4.8	12
196	Exploiting Multi-Antennas for Opportunistic Spectrum Sharing in Cognitive Radio Networks 2007 ,		12
195	Transmit Optimization for MIMO-OFDM With Delay-Constrained and No-Delay-Constrained Traffic. <i>IEEE Transactions on Signal Processing</i> , 2006 , 54, 3190-3199	4.8	12
194	Receding Horizon Optimization for Energy-Efficient UAV Communication. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 490-494	5.9	12
193	MISO Multicasting With Constant Envelope Precoding. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 588-591	5.9	12
192	Cooperative local caching and file sharing under heterogeneous file preferences 2016 ,		11
191	Joint Transmitter and Receiver Energy Minimization in Multiuser OFDM Systems. <i>IEEE Transactions on Communications</i> , 2014 , 62, 3504-3516	6.9	11
190	Energy beamforming with one-bit feedback 2014 ,		11

189	Joint Optimization in Bidirectional Multi-User Multi-Relay MIMO Systems: Non-Robust and Robust Cases. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 3228-3244	6.8	11
188	Massive MIMO with per-antenna power constraint 2014 ,		11
187	Cooperative Precoding with Limited Feedback for MIMO Interference Channels. <i>IEEE Transactions on Wireless Communications</i> , 2012 , 11, 1012-1021	9.6	11
186	Multi-antenna cognitive radio systems: Environmental learning and channel training 2009 ,		11
185	Robust precoding for orthogonal space-time block coded MIMO cognitive radio networks 2009 ,		11
184	Anti-Jamming 3D Trajectory Design for UAV-Enabled Wireless Sensor Networks Under Probabilistic LoS Channel. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 16288-16293	6.8	11
183	Massive MIMO for Cellular-Connected UAV: Challenges and Promising Solutions. <i>IEEE Communications Magazine</i> , 2021 , 59, 84-90	9.1	11
182	Performance Analysis and User Association Optimization for Wireless Network Aided by Multiple Intelligent Reflecting Surfaces. <i>IEEE Transactions on Communications</i> , 2021 , 69, 6296-6312	6.9	11
181	. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 6471-6480	9.6	10
180	Optimal Power Allocation for Wireless Sensor Networks with Outage Constraint. <i>IEEE Wireless Communications Letters</i> , 2014 , 3, 209-212	5.9	10
179	A novel mode switching scheme utilizing random beamforming for opportunistic energy harvesting 2013 ,		10
178	Transforming Fading Channel from Fast to Slow: Intelligent Refracting Surface Aided High-Mobility Communication. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	10
177	Transforming Fading Channel from Fast to Slow: IRS-Assisted High-Mobility Communication 2021 ,		10
176	Proactive eavesdropping via cognitive jamming in fading channels 2016 ,		10
175	Semi-Passive Elements Assisted Channel Estimation for Intelligent Reflecting Surface-Aided Communications. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	10
174	Multi-Beam Multi-Hop Routing for Intelligent Reflecting Surfaces Aided Massive MIMO. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	10
173	Aerial-Ground Interference Mitigation for Cellular-Connected UAV. <i>IEEE Wireless Communications</i> , 2021 , 28, 167-173	13.4	10
172	Traffic-Aware Adaptive Deployment for UAV-Aided Communication Networks 2018 ,		10

171	Throughput Maximization for UAV-Enabled Wireless Powered Communication Networks - Invited Paper 2018 ,		9
170	Electromagnetic lens-focusing antenna enabled massive MIMO 2013 ,		9
169	Node Placement Optimization in Wireless Powered Communication Networks 2015 ,		9
168	Exploiting Opportunistic Multiuser Detection in Decentralized Multiuser MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 2474-2485	9.6	9
167	On Channel Estimation for OFDM Based Two-Way Relay Networks 2009 ,		9
166	On Outage Capacity of Secondary Users in Fading Cognitive Radio Networks with Primary User's Outage Constraint 2009 ,		9
165	On Peak versus Average Interference Power Constraints for Spectrum Sharing in Cognitive Radio Networks 2008 ,		9
164	BER performance comparison of single code and multicode DS/CDMA channelization schemes for high rate data transmission. <i>IEEE Communications Letters</i> , 2001 , 5, 67-69	3.8	9
163	3D Placement for Multi-UAV Relaying: An Iterative Gibbs-Sampling and Block Coordinate Descent Optimization Approach. <i>IEEE Transactions on Communications</i> , 2021 , 69, 2047-2062	6.9	9
162	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	9
161	Intelligent Reflecting Surface-Aided Wireless Networks: From Single-Reflection to Multireflection Design and Optimization. <i>Proceedings of the IEEE</i> , 2022 , 1-21	14.3	9
160	Fronthaul-Limited Uplink OFDMA in Ultra-Dense CRAN With Hybrid Decoding. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 9074-9084	6.8	8
159	Two-timescale Beamforming Optimization for Intelligent Reflecting Surface Enhanced Wireless Network 2020 ,		8
158	. <i>IEEE Transactions on Communications</i> , 2012 , 60, 1680-1691	6.9	8
157	Joint Power Splitting and Secure Beamforming Design in the Wireless-Powered Untrusted Relay Networks 2015 ,		8
156	On the relationship between the multi-antenna secrecy communications and cognitive radio communications 2009 ,		8
155	Outage minimization in fading channels under energy harvesting constraints 2012 ,		8
154	On ergodic sum capacity of fading cognitive multiple-access channel 2008 ,		8

153	Characterizing Achievable Rates for Two-Path Digital Relaying 2008,		8
152	Window function and interpolation algorithm for OFDM frequency-offset correction. <i>IEEE Transactions on Vehicular Technology</i> , 2003 , 52, 654-670	6.8	8
151	Uplink Cooperative Interference Cancellation for Cellular-Connected UAV: A Quantize-and-Forward Approach. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1567-1571	5.9	8
150	A Low-Complexity Beamforming Design for Multiuser Wireless Energy Transfer. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 58-62	5.9	8
149	Towards Reliable UAV Swarm Communication in D2D-Enhanced Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 1567-1581	9.6	8
148	Cooperative Interference Cancellation for Multi-Beam UAV Uplink Communication: A DoF Analysis 2018,		8
147	IRS Meets Relaying: Joint Resource Allocation and Passive Beamforming Optimization. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 2080-2084	5.9	8
146	UAV-Enabled Wireless Power Transfer: A Tutorial Overview. <i>IEEE Transactions on Green Communications and Networking</i> , 2021 , 1-1	4	8
145	2015,		7
144	Cooperative NOMA for Downlink Asymmetric Interference Cancellation. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 884-888	5.9	7
143	Multi-user millimeter wave MIMO with single-sided full-dimensional lens antenna array 2017,		7
142	. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 1898-1910	14.2	7
141	Distributed scheduling in wireless powered communication network: Protocol design and performance analysis 2017,		7
140	In-Band Wireless Information and Power Transfer With Lens Antenna Array. <i>IEEE Communications Letters</i> , 2017 , 21, 100-103	3.8	7
139	Multiuser charging control in wireless power transfer via magnetic resonant coupling 2015,		7
138	Demand response for contingency management via real-time pricing in Smart Grids 2014,		7
137	Throughput comparison of wireless downlink transmission schemes with multiple antennas		7
136	Wireless Communication with Extremely Large-Scale Intelligent Reflecting Surface 2021,		7

135	Guest Editorial Wireless Transmission of Information and PowerPart I. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 1-3	14.2	7
134	Uplink Channel Estimation and Data Transmission in Millimeter-Wave CRAN With Lens Antenna Arrays. <i>IEEE Transactions on Communications</i> , 2018 , 66, 6542-6555	6.9	7
133	Adaptive Mode Switching for Cognitive Wireless Powered Communication Systems. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 386-389	5.9	6
132	A New Store-Then-Amplify-and-Forward Protocol for UAV Mobile Relaying. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 591-595	5.9	6
131	Constant Envelope Precoding With Adaptive Receiver Constellation in MISO Fading Channel. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 6871-6882	9.6	6
130	Spatial opportunity in cognitive radio networks with threshold-based opportunistic spectrum access 2013 ,		6
129	Multi-Antenna Constant Envelope Wireless Power Transfer. <i>IEEE Transactions on Green Communications and Networking</i> , 2017 , 1, 458-467	4	6
128	On Spatial Capacity of Wireless Ad Hoc Networks with Threshold Based Scheduling. <i>IEEE Transactions on Wireless Communications</i> , 2014 , 13, 6915-6927	9.6	6
127	2014 ,		6
126	Improving achievable rate for the two-user SISO interference channel with improper Gaussian signaling 2012 ,		6
125	2013 ,		6
124	Price-Based Resource Allocation for Spectrum-Sharing Femtocell Networks: A Stackelberg Game Approach 2011 ,		6
123	Cooperative Multi-Cell Block Diagonalization with Per-Base-Station Power Constraints 2010 ,		6
122	Cognitive beamforming made practical: Effective interference channel and learning-throughput tradeoff 2009 ,		6
121	Optimal design of learning based MIMO cognitive radio systems 2009 ,		6
120	Optimal Transmission for Dying Channels 2009 ,		6
119	Opportunistic Spectrum Access for Energy-Constrained Cognitive Radios. <i>IEEE Vehicular Technology Conference</i> , 2008 ,	0.1	6
118	2008 ,		6

117	CTH03-6: Approaching MIMO-OFDM Capacity with Closed-Loop V-BLAST. <i>IEEE Global Telecommunications Conference (GLOBECOM), 2006,</i>		6
116	Angular-Domain Selective Channel Tracking and Doppler Compensation for High-Mobility mmWave Massive MIMO. <i>IEEE Transactions on Wireless Communications, 2021, 20, 2902-2916</i>	9.6	6
115	Channel Estimation for Intelligent Reflecting Surface Assisted Backscatter Communication. <i>IEEE Wireless Communications Letters, 2021, 1-1</i>	5.9	6
114	Distributed Beam Training for Intelligent Reflecting Surface Enabled Multi-Hop Routing. <i>IEEE Wireless Communications Letters, 2021, 1-1</i>	5.9	6
113	Rotary-Wing UAV Enabled Wireless Network: Trajectory Design and Resource Allocation 2018,		6
112	Target Sensing with Intelligent Reflecting Surface: Architecture and Performance. <i>IEEE Journal on Selected Areas in Communications, 2022, 1-1</i>	14.2	6
111	An Adaptive Channel Division MAC Protocol for High Dynamic UAV Networks. <i>IEEE Sensors Journal, 2020, 1-1</i>	4	5
110	UAV-Enabled Broadcast Channel: Trajectory Design and Capacity Characterization 2018,		5
109	Optimal power allocation for a two-link interference channel with SWIPT 2014,		5
108	Delay-constrained Gaussian relay channel with energy harvesting nodes 2012,		5
107	Distributed frequency control via demand response in smart grids 2013,		5
106	Cooperative Interference Management in Multi-Cell Downlink Beamforming 2010,		5
105	On Active Learning and Supervised Transmission of Spectrum Sharing Based Cognitive Radios by Exploiting Hidden Primary Radio Feedback 2009,		5
104	Cooperative Interference Control for Spectrum Sharing in OFDMA Cellular Systems 2011,		5
103	3D Trajectory Optimization for Energy-Efficient UAV Communication: A Control Design Perspective. <i>IEEE Transactions on Wireless Communications, 2021, 1-1</i>	9.6	5
102	. <i>IEEE Wireless Communications Letters, 2021, 1-1</i>	5.9	5
101	Uplink Channel Estimation for Double-IRS Assisted Multi-User MIMO 2021,		5
100	3D Trajectory Design for UAV-Enabled Data Harvesting in Probabilistic LoS Channel 2019,		5

99	Cognitive Wireless Power Transfer With Information Helping. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 346-349	5.9	4
98	. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 2464-2476	9.6	4
97	Pilot Decontamination for Massive MIMO Network With UAVs. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1830-1834	5.9	4
96	Joint Secure Beamforming for Cognitive Radio Networks with Untrusted Secondary Users 2015 ,		4
95	2014 ,		4
94	Optimal transmission policies for energy harvesting node with non-ideal circuit power 2014 ,		4
93	Dynamic contract to regulate energy management in microgrids 2013 ,		4
92	Iterative spectrum shaping with opportunistic multiuser detection 2009 ,		4
91	Random Beamforming with Systematic Beam Selection 2006 ,		4
90	CTH06-6: Optimized Transmission for Upstream Vectored DSL Systems Using Zero-Forcing Generalized Decision-Feedback Equalizers. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		4
89	UAV Aided Over-the-Air Computation. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	4
88	Fast Specific Absorption Rate Aware Beamforming for Downlink SWIPT via Deep Learning. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 16178-16182	6.8	4
87	Placement Learning for Multi-UAV Relaying: A Gibbs Sampling Approach 2020 ,		4
86	On the Trade-Off between Energy Efficiency and Spectral Efficiency in RIS-Aided Multi-User MISO Downlink. <i>Electronics (Switzerland)</i> , 2021 , 10, 1307	2.6	4
85	Environment-Aware and Training-Free Beam Alignment for mmWave Massive MIMO via Channel Knowledge Map 2021 ,		4
84	Wireless power provision as a public good 2018 ,		4
83	Double-IRS Aided MIMO Communication under LoS Channels: Capacity Maximization and Scaling. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	4
82	Receive beamforming optimization for MIMO system with constant envelope precoding 2016 ,		3

81	Resource Management for Asynchronous Mobile-Edge Computation Offloading 2018,		3
80	Outage Capacity and Optimal Transmission for Dying Channels. <i>IEEE Transactions on Communications</i> , 2013 , 61, 357-367	6.9	3
79	Optimal appliance scheduling in building operating systems for cost-effective energy management 2014,		3
78	Optimal energy and spectrum sharing for cooperative cellular systems 2014,		3
77	Special issue on energy harvesting in wireless networks. <i>Journal of Communications and Networks</i> , 2012 , 14, 115-120	4.1	3
76	Optimal resource allocation for Gaussian relay channel with energy harvesting constraints 2012,		3
75	2012,		3
74	Throughput maximization in wireless powered communication networks 2013,		3
73	Optimal power and range adaptation for green broadcasting 2013,		3
72	Improper Gaussian signaling for the K-user SISO interference channel 2013,		3
71	2013,		3
70	Opportunistic Spectrum Access for Cognitive Radio in the Presence of Reactive Primary Users 2011,		3
69	Delay-throughput tradeoff for supportive two-tier networks 2009,		3
68	On the Capacity of Intelligent Reflecting Surface Aided MIMO Communication 2020,		3
67	Cooperative Multi-Beam Routing for Multi-IRS Aided Massive MIMO 2021,		3
66	Harnessing Self-Interference in Full-Duplex Relaying: An Analog Filter-and-Forward Approach 2016,		3
65	Wireless Power Transfer with Information Asymmetry: A Public Goods Perspective. <i>IEEE Transactions on Mobile Computing</i> , 2021 , 20, 276-291	4.6	3
64	UAV Trajectory and Communication Co-design: Flexible Path Discretization and Path Compression. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 1-1	14.2	3

63	Cluster-based wireless energy transfer for low complex energy receivers 2018 ,		3
62	On the Secrecy Capacity of a Full-Duplex Wirelessly Powered Communication System. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5424-5439	9.6	2
61	Privacy constrained energy management for self-interested microgrids 2015 ,		2
60	Capacity region of MISO broadcast channel with SWIPT 2015 ,		2
59	Wireless surveillance of two-hop communications : (Invited paper) 2017 ,		2
58	Energy harvesting for secure OFDMA systems 2014 ,		2
57	CoMP meets energy harvesting: A new communication and energy cooperation paradigm 2013 ,		2
56	Secrecy wireless information and power transfer with MISO beamforming 2013 ,		2
55	MISO interference channel with improper Gaussian signaling 2013 ,		2
54	Optimal distributed beamforming for MISO interference channels 2010 ,		2
53	A new approach to weighted sum-rate maximization for the K-user Gaussian interference channel 2011 ,		2
52	Power Allocation for OFDM-Based Cognitive Radio Systems with Hybrid Protection to Primary Users 2009 ,		2
51	Exploiting Interference Alignment in Multi-Cell Cooperative OFDMA Resource Allocation 2011 ,		2
50	Advanced Signal Processing for Cognitive Radio Networks. <i>Eurasip Journal on Advances in Signal Processing</i> , 2009 , 2010,	1.9	2
49	Approaching MIMO-OFDM Capacity with Per Antenna Power and Rate Feedback 2006 ,		2
48	Power Region for Fading Multiple-Access Channel with Multiple Antennas 2006 ,		2
47	A Capacity-Approaching Algorithm for Resource Allocation in MIMO-OFDM Multiple-Access Channel 2007 ,		2
46	Joint Beamforming and Power Control for MIMO Relay Broadcast Channel with QoS Constraints. <i>Conference Record of the Asilomar Conference on Signals, Systems and Computers</i> , 2007 ,	0.3	2

45	Intelligent Reflecting Surface-Aided Spectrum Sensing for Cognitive Radio. <i>IEEE Wireless Communications Letters</i> , 2022 , 1-1	5.9	2
44	Physical Layer Security for UAV Communications 2020 , 373-397		2
43	Secure transmission scheme for SWIPT-powered full-duplex relay system with multi-antenna based on energy cooperation and cooperative jamming. <i>Telecommunication Systems</i> , 2020 , 74, 55-66	2.3	2
42	Energy-Efficient UAV Multicasting With Simultaneous FSO Backhaul and Power Transfer. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1537-1541	5.9	2
41	Flexible Multi-Group Single-Carrier Modulation: Subcarrier Mapping and Power Allocation Optimization. <i>IEEE Transactions on Communications</i> , 2019 , 67, 2002-2014	6.9	2
40	Effective-Throughput Maximization for Wireless-Powered IoT Networks with Short Packets 2018 ,		2
39	Guest Editorial Wireless Transmission of Information and Power Part II. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 249-252	14.2	1
38	Millimeter-Wave CRAN with Lens Antenna Arrays 2017 ,		1
37	Secrecy Wireless Information and Power Transfer in OFDMA Systems 2014 ,		1
36	Secrecy Wireless Information and Power Transfer in OFDMA Systems 2015 ,		1
35	Wireless power charging control in multiuser broadband networks 2015 ,		1
34	Power-saving heterogeneous networks through optimal small-cell scheduling 2014 ,		1
33	Distributed beamforming for two-way relay networks with reciprocal channels 2010 ,		1
32	Exploiting Opportunistic Multiuser Detection in Decentralized Multiuser MIMO Systems 2009 ,		1
31	Sub-channel grouping and statistical water-filling for MIMO-OFDM systems		1
30	Multiuser MIMO Systems with Random Transmit Beamforming. <i>International Journal of Wireless Information Networks</i> , 2005 , 12, 235-247	1.9	1
29	Stochastic Geometry-Based Performance Analysis of Drone Cellular Networks 2020 , 231-254		1
28	A Survey of Air-to-Ground Propagation Channel Modeling for Unmanned Aerial Vehicles 2020 , 17-70		1

27	Multi-Antenna Constant Envelope Wireless Power Transfer 2016 ,		1
26	How to Diagonalize a MIMO Channel With Arbitrary Transmit Covariance?. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 352-355	5.9	1
25	2019 ,		1
24	Refined Nonlinear Rectenna Modeling and Optimal Waveform Design for Multi-User Multi-Antenna Wireless Power Transfer. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2021 , 1-1	7.5	1
23	Transmit beamforming for simultaneous wireless information and power transfer 2018 , 479-506		1
22	Intelligent Reflecting Surface for Multi-Path Beam Routing with Active/Passive Beam Splitting and Combining. <i>IEEE Communications Letters</i> , 2022 , 1-1	3.8	1
21	Introduction to the Issue on Signal Processing for Large-Scale MIMO. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2014 , 8, 739-741	7.5	0
20	Multi-UAV Aided Millimeter-Wave Networks: Positioning, Clustering, and Beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	0
19	Non-Orthogonal Multiple Access for UAV Communications 2020 , 349-371		0
18	UAV-Enabled Wireless Power Transfer 2020 , 399-416		0
17	Energy Harvesting Ad Hoc Networks 2018 , 167-202		0
16	A novel D2D-MEC method for enhanced computation capability in cellular networks. <i>Scientific Reports</i> , 2021 , 11, 16918	4.9	0
15	Empowering Base Stations with Co-Site Intelligent Reflecting Surfaces: User Association, Channel Estimation and Reflection Optimization. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	0
14	An optimal pricing scheme to improve transmission opportunities for a mobile virtual network operator. <i>Computer Networks</i> , 2016 , 99, 51-65	5.4	
13	Cost-Aware Cellular Networks Powered by Smart Grids and Energy Harvesting 271-288		
12	Performance Analysis for Cellular-Connected UAVs 2020 , 103-138		
11	UAV Cellular Spectrum Sharing 2020 , 329-348		
10	Joint Trajectory and Resource Optimization 2020 , 283-297		

- 9 Energy-Efficient UAV Communications **2020**, 299-314
- 8 Fundamental Trade-Offs for UAV Communications **2020**, 315-328
- 7 Introduction to the Issue on Signal Processing for Exploiting Interference Toward Energy Efficient and Secure Wireless Communications. *IEEE Journal on Selected Topics in Signal Processing*, **2016**, 10, 1331-1333
- 6 Multi-antenna Energy Beamforming for SWIPT **2018**, 81-97
- 5 Power Allocation for Point-to-Point Energy Harvesting Channels **2018**, 5-73
- 4 Power Allocation for Multi-node Energy Harvesting Channels **2018**, 75-126
- 3 Cost-Aware Design for Energy Harvesting Powered Cellular Networks **2018**, 203-238
- 2 Near-Field Modelling and Performance Analysis of Modular Extremely Large-Scale Array Communications. *IEEE Communications Letters*, **2022**, 1-1 3.8
- 1 Deep Learning-Based Channel Estimation for mmWave Massive MIMO Systems in Mixed-ADC Architecture. *Sensors*, **2022**, 22, 3938 3.8