

Ying-Chang Liang

List of Publications by Citations

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

496
papers

21,713
citations

73
h-index

135
g-index

591
ext. papers

27,960
ext. citations

6.9
avg, IF

7.81
L-index

#	Paper	IF	Citations
496	Sensing-Throughput Tradeoff for Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 1326-1337	9.6	1856
495	. <i>IEEE Transactions on Communications</i> , 2009 , 57, 1784-1793	6.9	693
494	. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 3386-3407	6.8	633
493	. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2008 , 2, 88-102	7.5	537
492	Applications of Deep Reinforcement Learning in Communications and Networking: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 3133-3174	37.1	528
491	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
490	Federated Learning in Mobile Edge Networks: A Comprehensive Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2020 , 22, 2031-2063	37.1	414
489	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
488	Spectrum-Sensing Algorithms for Cognitive Radio Based on Statistical Covariances. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 1804-1815	6.8	352
487	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
486	Optimization of Cooperative Sensing in Cognitive Radio Networks: A Sensing-Throughput Tradeoff View. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 5294-5299	6.8	314
485	Joint Beamforming and Power Allocation for Multiple Access Channels in Cognitive Radio Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2008 , 26, 38-51	14.2	267
484	Optimization for Cooperative Sensing in Cognitive Radio Networks 2007 ,		267
483	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	264
482	Multi-antenna based spectrum sensing for cognitive radios: A GLRT approach. <i>IEEE Transactions on Communications</i> , 2010 , 58, 84-88	6.9	252
481	Weighted Sum-Rate Maximization for Reconfigurable Intelligent Surface Aided Wireless Networks. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 3064-3076	9.6	217
480	Toward Smart Wireless Communications via Intelligent Reflecting Surfaces: A Contemporary Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2020 , 22, 2283-2314	37.1	216

479	Spectrum Survey in Singapore: Occupancy Measurements and Analyses 2008 ,		216
478	Dynamic Resource Allocation in Cognitive Radio Networks. <i>IEEE Signal Processing Magazine</i> , 2010 , 27, 102-114	9.4	213
477	. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 4649-4654	6.8	213
476	. <i>IEEE Transactions on Communications</i> , 2009 , 57, 3024-3033	6.9	211
475	Reconfigurable Intelligent Surface Assisted UAV Communication: Joint Trajectory Design and Passive Beamforming. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 716-720	5.9	199
474	Energy-Efficient Design of Sequential Channel Sensing in Cognitive Radio Networks: Optimal Sensing Strategy, Power Allocation, and Sensing Order. <i>IEEE Journal on Selected Areas in Communications</i> , 2011 , 29, 1648-1659	14.2	194
473	Intelligent Reflecting Surface: A Programmable Wireless Environment for Physical Layer Security. <i>IEEE Access</i> , 2019 , 7, 82599-82612	3.5	189
472	Performance Analysis and Optimization in Downlink NOMA Systems With Cooperative Full-Duplex Relaying. <i>IEEE Journal on Selected Areas in Communications</i> , 2017 , 35, 2398-2412	14.2	187
471	Resource Allocation for Device-to-Device Communications Overlaying Two-Way Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 3611-3621	9.6	186
470	Cooperative Ambient Backscatter Communications for Green Internet-of-Things. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 1116-1130	10.7	184
469	. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 2190-2201	9.6	176
468	A Survey of Advanced Techniques for Spectrum Sharing in 5G Networks. <i>IEEE Wireless Communications</i> , 2017 , 24, 44-51	13.4	169
467	Modulation in the Air: Backscatter Communication Over Ambient OFDM Carrier. <i>IEEE Transactions on Communications</i> , 2018 , 66, 1219-1233	6.9	168
466	Vision, Requirements, and Technology Trend of 6G: How to Tackle the Challenges of System Coverage, Capacity, User Data-Rate and Movement Speed. <i>IEEE Wireless Communications</i> , 2020 , 27, 218-228	13.4	163
465	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
464	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
463	Maximum-Minimum Eigenvalue Detection for Cognitive Radio 2007 ,		146
462	Maximum Eigenvalue Detection: Theory and Application 2008 ,		145

461	Deep Reinforcement Learning for User Association and Resource Allocation in Heterogeneous Cellular Networks. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5141-5152	9.6	144
460	. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 1494-1502	9.6	141
459	Robust cognitive beamforming with partial channel state information. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 4143-4153	9.6	137
458	Covariance Based Signal Detections for Cognitive Radio 2007 ,		129
457	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
456	Blindly Combined Energy Detection for Spectrum Sensing in Cognitive Radio. <i>IEEE Signal Processing Letters</i> , 2008 , 15, 649-652	3.2	126
455	State of the Art, Taxonomy, and Open Issues on Cognitive Radio Networks with NOMA. <i>IEEE Wireless Communications</i> , 2018 , 25, 100-108	13.4	120
454	Channel Estimation for OFDM Modulated Two-Way Relay Networks. <i>IEEE Transactions on Signal Processing</i> , 2009 , 57, 4443-4455	4.8	118
453	Securing physical-layer communications for cognitive radio networks 2015 , 53, 48-54		116
452	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
451	Power Control and Channel Allocation in Cognitive Radio Networks with Primary UsersS Cooperation. <i>IEEE Transactions on Mobile Computing</i> , 2010 , 9, 348-360	4.6	115
450	Secrecy Outage and Diversity Analysis of Cognitive Radio Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 2222-2236	14.2	114
449	6G Visions: Mobile ultra-broadband, super internet-of-things, and artificial intelligence. <i>China Communications</i> , 2019 , 16, 1-14	3	111
448	Joint power control and beamforming for cognitive radio networks. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 2415-2419	9.6	108
447	How Much Time is Needed for Qideband Spectrum Sensing?. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 5466-5471	9.6	107
446	Robust Downlink Beamforming in Multiuser MISO Cognitive Radio Networks With Imperfect Channel-State Information. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 2852-2860	6.8	106
445	End-to-End Throughput Maximization for Underlay Multi-Hop Cognitive Radio Networks With RF Energy Harvesting. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3561-3572	9.6	99
444	Secure Communication in Multiantenna Cognitive Radio Networks With Imperfect Channel State Information. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 1683-1693	4.8	97

443	Optimal Resource Allocation for Two-Way Relay-Assisted OFDMA. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 3311-3321	6.8	95
442	Sensing-Throughput Tradeoff in Cognitive Radio Networks: How Frequently Should Spectrum Sensing be Carried Out? 2007 ,		92
441	Opportunistic spectrum access for energy-constrained cognitive radios. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 1206-1211	9.6	91
440	Cognitive beamforming made practical: Effective interference channel and learning-throughput tradeoff. <i>IEEE Transactions on Communications</i> , 2010 , 58, 706-718	6.9	89
439	Backscatter-NOMA: A Symbiotic System of Cellular and Internet-of-Things Networks. <i>IEEE Access</i> , 2019 , 7, 20000-20013	3.5	87
438	Two-Way Relaying over OFDM: Optimized Tone Permutation and Power Allocation 2008 ,		87
437	An Energy-Ratio-Based Approach for Detecting Pilot Spoofing Attack in Multiple-Antenna Systems. <i>IEEE Transactions on Information Forensics and Security</i> , 2015 , 10, 932-940	8	86
436	Constellation Learning-Based Signal Detection for Ambient Backscatter Communication Systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 452-463	14.2	84
435	GLRT-Based Spectrum Sensing for Cognitive Radio 2008 ,		83
434	Downlink channel covariance matrix (DCCM) estimation and its applications in wireless DS-CDMA systems. <i>IEEE Journal on Selected Areas in Communications</i> , 2001 , 19, 222-232	14.2	83
433	Robust Power Control and Beamforming in Cognitive Radio Networks: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2015 , 17, 1834-1857	37.1	82
432	Spectrum Sharing for Internet of Things: A Survey. <i>IEEE Wireless Communications</i> , 2019 , 26, 132-139	13.4	82
431	Downlink Channel Assignment and Power Control for Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 3106-3117	9.6	80
430	Reliable and Efficient Sub-Nyquist Wideband Spectrum Sensing in Cooperative Cognitive Radio Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 2750-2762	14.2	77
429	Riding on the Primary: A New Spectrum Sharing Paradigm for Wireless-Powered IoT Devices. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 6335-6347	9.6	76
428	Cognitive radio resource management for future cellular networks. <i>IEEE Wireless Communications</i> , 2014 , 21, 70-79	13.4	76
427	Channel Estimation for TDD/FDD Massive MIMO Systems With Channel Covariance Computing. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 4206-4218	9.6	74
426	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

425	. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 1707-1720	6.8	74
424	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
423	Sensing-Throughput Tradeoff for Cognitive Radio Networks 2007 ,		72
422	Cooperative Spectrum Sensing in Cognitive Radio Networks with Weighted Decision Fusion Schemes. <i>IEEE Transactions on Wireless Communications</i> , 2010 , 9, 3838-3847	9.6	71
421	Intelligent Resource Scheduling for 5G Radio Access Network Slicing. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 7691-7703	6.8	70
420	Weighted Sum-Rate Maximization for Intelligent Reflecting Surface Enhanced Wireless Networks 2019 ,		70
419	Deep CM-CNN for Spectrum Sensing in Cognitive Radio. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 2306-2321	14.2	69
418	Weighted sum rate optimization for cognitive radio MIMO broadcast channels. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 2950-2959	9.6	69
417	Dynamic Contract Incentive Mechanism for Cooperative Wireless Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 10970-10982	6.8	65
416	Adaptive joint scheduling of spectrum sensing and data transmission in cognitive radio networks. <i>IEEE Transactions on Communications</i> , 2010 , 58, 235-246	6.9	65
415	Outage Performance of Underlay Multihop Cognitive Relay Networks With Energy Harvesting. <i>IEEE Communications Letters</i> , 2016 , 20, 1148-1151	3.8	64
414	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
413	Exploiting Multiple Antennas for Cognitive Ambient Backscatter Communication. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 765-775	10.7	63
412	Optimal Resource Allocation for Multiuser MIMO-OFDM Systems With User Rate Constraints. <i>IEEE Transactions on Vehicular Technology</i> , 2009 , 58, 1190-1203	6.8	62
411	Investigation on multiuser diversity in spectrum sharing based cognitive radio networks. <i>IEEE Communications Letters</i> , 2010 , 14, 133-135	3.8	61
410	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 1350-1363	10.7	61
409	Intelligent Reflecting Surface-Assisted Cognitive Radio System. <i>IEEE Transactions on Communications</i> , 2021 , 69, 675-687	6.9	61
408	2019 ,		59

407	Active Reconfigurable Intelligent Surface-Aided Wireless Communications. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 4962-4975	9.6	59
406	Fast and Robust Spectrum Sensing via Kolmogorov-Smirnov Test. <i>IEEE Transactions on Communications</i> , 2010 , 58, 3410-3416	6.9	58
405	Intelligent Reflecting Surface Assisted Non-Orthogonal Multiple Access 2020 ,		57
404	. <i>IEEE Transactions on Communications</i> , 2016 , 64, 490-501	6.9	57
403	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
402	Cognitive multiple access channels: optimal power allocation for weighted sum rate maximization. <i>IEEE Transactions on Communications</i> , 2009 , 57, 2754-2762	6.9	56
401	Asymptotic Performance of MMSE Receivers for Large Systems Using Random Matrix Theory. <i>IEEE Transactions on Information Theory</i> , 2007 , 53, 4173-4190	2.8	56
400	Maximizing Spectrum Utilization of Cognitive Radio Networks Using Channel Allocation and Power Control 2006 ,		56
399	Licensed-Assisted Access for LTE in Unlicensed Spectrum: A MAC Protocol Design. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 2550-2561	14.2	55
398	Energy-Efficient Cooperative Spectrum Sensing in Cognitive Radio Networks 2011 ,		54
397	Optimal Analogue Relaying with Multi-Antennas for Physical Layer Network coding 2008 ,		54
396	A Survey on Blockchain: A Game Theoretical Perspective. <i>IEEE Access</i> , 2019 , 7, 47615-47643	3.5	53
395	The SMART Handoff Policy for Millimeter Wave Heterogeneous Cellular Networks. <i>IEEE Transactions on Mobile Computing</i> , 2018 , 17, 1456-1468	4.6	53
394	Backscatter Multiplicative Multiple-Access Systems: Fundamental Limits and Practical Design. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 5713-5728	9.6	53
393	Deep Reinforcement Learning-Based Modulation and Coding Scheme Selection in Cognitive Heterogeneous Networks. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 3281-3294	9.6	51
392	Distributed Multi-Relay Selection in Accumulate-Then-Forward Energy Harvesting Relay Networks. <i>IEEE Transactions on Green Communications and Networking</i> , 2018 , 2, 74-86	4	51
391	Block-iterative generalized decision feedback equalizers for large MIMO systems: algorithm design and asymptotic performance analysis. <i>IEEE Transactions on Signal Processing</i> , 2006 , 54, 2035-2048	4.8	51
390	Beamforming and Power Control for Multi-Antenna Cognitive Two-Way Relaying 2009 ,		50

389	A Two-Phase Channel and Power Allocation Scheme for Cognitive Radio Networks 2006 ,		50
388	. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2020 , 6, 1242-1255	6.6	50
387	Applications of Economic and Pricing Models for Resource Management in 5G Wireless Networks: A Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2019 , 21, 3298-3339	37.1	50
386	Adaptive Ambient Backscatter Communication Systems With MRC. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 12352-12357	6.8	49
385	Secure Transmission Against Pilot Spoofing Attack: A Two-Way Training-Based Scheme. <i>IEEE Transactions on Information Forensics and Security</i> , 2016 , 11, 1017-1026	8	48
384	A Two-Level MAC Protocol Strategy for Opportunistic Spectrum Access in Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 2164-2180	6.8	47
383	Distributed Power Control for Spectrum-Sharing Femtocell Networks Using Stackelberg Game 2011 ,		47
382	QoS-Aware User Association and Resource Allocation in LAA-LTE/WiFi Coexistence Systems. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 2415-2430	9.6	46
381	Cognitive radio on TV bands: a new approach to provide wireless connectivity for rural areas. <i>IEEE Wireless Communications</i> , 2008 , 15, 16-22	13.4	46
380	Energy-Efficient Cognitive Transmission With Imperfect Spectrum Sensing. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 1320-1335	14.2	44
379	Cooperative Ambient Backscatter System: A Symbiotic Radio Paradigm for Passive IoT. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 1191-1194	5.9	43
378	Full-Duplex Backscatter Communications in Symbiotic Radio Systems. <i>IEEE Access</i> , 2019 , 1-1	3.5	43
377	Hybrid Ambient Backscatter Communication Systems With Harvest-Then-Transmit Protocols. <i>IEEE Access</i> , 2018 , 6, 45288-45298	3.5	43
376	Blind Spectrum Sensing Algorithms for Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 2834-2842	6.8	43
375	Optimal Power Allocation for Fading Channels in Cognitive Radio Networks under Transmit and Interference Power Constraints 2008 ,		43
374	Reconfigurable Intelligent Surface-Assisted Non-Orthogonal Multiple Access. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 3137-3151	9.6	43
373	Reconfiguration in Network Slicing Optimizing the Profit and Performance. <i>IEEE Transactions on Network and Service Management</i> , 2019 , 16, 591-605	4.8	41
372	Random Access or Scheduling: Optimum LTE Licensed-Assisted Access to Unlicensed Spectrum. <i>IEEE Communications Letters</i> , 2016 , 20, 590-593	3.8	41

371	Optimal Relay Selection in IEEE 802.16j Multihop Relay Vehicular Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 2198-2206	6.8	41
370	Activity Pattern Aware Spectrum Sensing: A CNN-Based Deep Learning Approach. <i>IEEE Communications Letters</i> , 2019 , 23, 1025-1028	3.8	40
369	Adaptive Scheduling of Spectrum Sensing Periods in Cognitive Radio Networks 2007 ,		40
368	On Robustness of Network Slicing for Next-Generation Mobile Networks. <i>IEEE Transactions on Communications</i> , 2019 , 67, 430-444	6.9	40
367	Average Throughput Analysis and Optimization in Cooperative IoT Networks With Short Packet Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 11549-11562	6.8	40
366	Deep Neural Network for Robust Modulation Classification Under Uncertain Noise Conditions. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 564-577	6.8	39
365	DOA and Polarization Estimation for Non-Circular Signals in 3-D Millimeter Wave Polarized Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 3152-3167	9.6	39
364	Energy-Efficient UAV Backscatter Communication With Joint Trajectory Design and Resource Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 926-941	9.6	39
363	Optimal training sequences for channel estimation in bi-directional relay networks with multiple antennas. <i>IEEE Transactions on Communications</i> , 2010 , 58, 474-479	6.9	38
362	Resource Allocation for Full-Duplex-Enabled Cognitive Backscatter Networks. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 3222-3235	9.6	37
361	MAC Protocol Design and Performance Analysis for Random Access Cognitive Radio Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 2289-2300	14.2	37
360	Resource Allocation in NOMA-Enhanced Backscatter Communication Networks for Wireless Powered IoT. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 117-120	5.9	37
359	Ultra-low-latency ubiquitous connections in heterogeneous cloud radio access networks. <i>IEEE Wireless Communications</i> , 2015 , 22, 22-31	13.4	35
358	Wireless big data: transforming heterogeneous networks to smart networks. <i>Journal of Communications and Information Networks</i> , 2017 , 2, 19-32		34
357	Joint channel and frequency offset estimation in distributed MIMO flat-fading channels. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 648-656	9.6	34
356	20 Years of Evolution From Cognitive to Intelligent Communications. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2020 , 6, 6-20	6.6	34
355	Spectrum Sensing for OFDM Signals Using Pilot Induced Auto-Correlations. <i>IEEE Journal on Selected Areas in Communications</i> , 2013 , 31, 353-363	14.2	32
354	Power and modulo loss tradeoff with expanded soft demapper for LDPC coded GMD-THP MIMO systems. <i>IEEE Transactions on Wireless Communications</i> , 2009 , 8, 714-724	9.6	32

353	Joint Optimization of Handover Control and Power Allocation Based on Multi-Agent Deep Reinforcement Learning. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 13124-13138	6.8	32
352	Backscatter Communications over Ambient OFDM Signals: Transceiver Design and Performance Analysis 2016 ,		32
351	Learning-Based Spectrum Sharing and Spatial Reuse in mm-Wave Ultradense Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 4954-4968	6.8	31
350	On the Eigenvalue-Based Spectrum Sensing and Secondary User Throughput. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 1480-1486	6.8	31
349	Modulation-Constrained Clustering Approach to Blind Modulation Classification for MIMO Systems. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2018 , 4, 894-907	6.6	31
348	Intelligent User Association for Symbiotic Radio Networks Using Deep Reinforcement Learning. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 4535-4548	9.6	29
347	Socially Aware Caching Strategy in Device-to-Device Communication Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 4615-4629	6.8	29
346	Joint Service Pricing and Cooperative Relay Communication for Federated Learning 2019 ,		29
345	Robust Linear Transceiver Design in MIMO Ad Hoc Cognitive Radio Networks with Imperfect Channel State Information. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1448-1457	9.6	28
344	Exploiting Hidden Power-Feedback Loops for Cognitive Radio 2008 ,		28
343	. <i>IEEE Transactions on Signal Processing</i> , 1995 , 43, 349-353	4.8	28
342	Deep Transfer Learning for Signal Detection in Ambient Backscatter Communications. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 1624-1638	9.6	28
341	Deep Reinforcement Learning for User Association and Resource Allocation in Heterogeneous Networks 2018 ,		28
340	. <i>IEEE Access</i> , 2019 , 7, 34333-34347	3.5	27
339	Fully Distributed Channel-Hopping Algorithms for Rendezvous Setup in Cognitive Multiradio Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 8629-8643	6.8	27
338	Joint Admission Control and Power Allocation for Cognitive Radio Networks 2007 ,		27
337	Channel Estimation for Ambient Backscatter Communication Systems With Massive-Antenna Reader. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 8254-8258	6.8	26
336	. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 5057-5072	9.6	26

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334	. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3162-3175	9.6	25
333	Joint Beamforming and Power Control in the Downlink of Cognitive Radio Networks 2007 ,		25
332	Dynamic Spectrum Management. <i>Signals and Communication Technology</i> , 2020 ,	0.5	25
331	Network Slice Reconfiguration by Exploiting Deep Reinforcement Learning With Large Action Space. <i>IEEE Transactions on Network and Service Management</i> , 2020 , 17, 2197-2211	4.8	25
330	Resource Allocation in NOMA-Enhanced Full-Duplex Symbiotic Radio Networks. <i>IEEE Access</i> , 2020 , 8, 22709-22720	3.5	24
329	2009 ,		24
328	Power control for physical-layer network coding in fading environments 2008 ,		24
327	. <i>IEEE Transactions on Network and Service Management</i> , 2020 , 17, 2620-2633	4.8	24
326	QoE and Energy Aware Resource Allocation in Small Cell Networks With Power Selection, Load Management, and Channel Allocation. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 7461-7473	6.8	23
325	Performance Analysis for Practical Unmanned Aerial Vehicle Networks with LoS/NLoS Transmissions 2018 ,		23
324	Spectrum Sensing for Digital Primary Signals in Cognitive Radio: A Bayesian Approach for Maximizing Spectrum Utilization. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 1774-1782	9.6	23
323	Design and Analysis for an 802.11-Based Cognitive Radio Network 2009 ,		23
322	. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 8784-8794	6.8	22
321	Maximum Eigenvalue-Based Goodness-of-Fit Detection for Spectrum Sensing in Cognitive Radio. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 7747-7760	6.8	22
320	Design of cyclic delay diversity for single carrier cyclic prefix (SCCP) transmissions with block-iterative GDFE (BI-GDFE) receiver. <i>IEEE Transactions on Wireless Communications</i> , 2008 , 7, 677-684	9.6	22
319	Intelligent Sharing for LTE and WiFi Systems in Unlicensed Bands: A Deep Reinforcement Learning Approach. <i>IEEE Transactions on Communications</i> , 2020 , 68, 2793-2808	6.9	21
318	Price-Based Bandwidth Allocation for Backscatter Communication With Bandwidth Constraints. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5170-5180	9.6	21

317	Cooperative receiver for ambient backscatter communications with multiple antennas 2017 ,		21
316	Sensing-throughput tradeoff for cognitive radio networks: A multiple-channel scenario 2009 ,		21
315	Riding on the primary: A new spectrum sharing paradigm for wireless-powered IoT devices 2017 ,		20
314	Power Control in Cognitive Radios under Cooperative and Non-Cooperative Spectrum Sensing. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 4238-4248	9.6	20
313	On Channel Estimation for Amplify-and-Forward Two-Way Relay Networks 2008 ,		20
312	Maximizing Throughput of Cognitive Radio Networks with Limited Primary Users Cooperation 2007 ,		20
311	Robust Modulation Classification under Uncertain Noise Condition Using Recurrent Neural Network 2018 ,		20
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