Ying-Chang Liang

List of Publications by Year in Descending Order

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	A Trust-Centric Privacy-Preserving Blockchain for Dynamic Spectrum Management in IoT Networks. *IEEE Internet of Things Journal*, **2022**, 1-1	10.7	5
495	Spatial Modulation Based Multiple Access for Ambient Backscatter Networks. *IEEE Communications Letters*, **2022**, 26, 197-201	3.8	1
494	Symbiotic Communications: Where Marconi Meets Darwin. *IEEE Wireless Communications*, **2022**, 29, 144-150	13.4	5
493	Backscatter Communication Assisted by Reconfigurable Intelligent Surfaces. *Proceedings of the IEEE*, **2022**, 1-19	14.3	3
492	Message-Passing Receiver Design for Multiuser Multi-Backscatter-Device Symbiotic Radio Communications. *IEEE Transactions on Wireless Communications*, **2021**, 1-1	9.6	1
491	Hybrid Model-Data Driven Network Slice Reconfiguration by Exploiting Prediction Interval and Robust Optimization. *IEEE Transactions on Network and Service Management*, **2021**, 1-1	4.8	0
490	A Secure Structure for UAV-Aided IoT Networks: Space-Time Key. *IEEE Wireless Communications*, **2021**, 28, 96-101	13.4	3
489	Spatial-Temporal Aggregation Graph Convolution Network for Efficient Mobile Cellular Traffic Prediction. *IEEE Communications Letters*, **2021**, 1-1	3.8	3
488	GAN based Pareto Optimization for Self-healing of Radio Access Network Slices. *IEEE Transactions on Network and Service Management*, **2021**, 1-1	4.8	
487	Convolutional Autoencoder-Based Phase Shift Feedback Compression for Intelligent Reflecting Surface-Assisted Wireless Systems. *IEEE Communications Letters*, **2021**, 1-1	3.8	3
486	User Access Control in Open Radio Access Networks: A Federated Deep Reinforcement Learning Approach. *IEEE Transactions on Wireless Communications*, **2021**, 1-1	9.6	3
485	Reconfigurable Intelligent Surfaces for Energy Efficiency in D2D Communication Network. *IEEE Wireless Communications Letters*, **2021**, 10, 683-687	5.9	18
484	RIS-aided constant-envelope beamforming for multiuser wireless power transfer: A max-min approach. *China Communications*, **2021**, 18, 80-90	3	2
483	Optimization for Wireless-Powered IoT Networks Enabled by an Energy-Limited UAV Under Practical Energy Consumption Model. *IEEE Wireless Communications Letters*, **2021**, 10, 567-571	5.9	9
482	Reconfigurable Intelligent Surface Empowered Underlaying Device-to-Device Communication **2021**,		2
481	Deep Transfer Learning for Signal Detection in Ambient Backscatter Communications. *IEEE Transactions on Wireless Communications*, **2021**, 20, 1624-1638	9.6	28
480	Sensing-Mining-Access Tradeoff in Blockchain-Enabled Dynamic Spectrum Access. *IEEE Wireless Communications Letters*, **2021**, 10, 820-824	5.9	2

479	Reconfigurable Intelligent Surface Enhanced Multi-User MISO Symbiotic Radio System. *IEEE Transactions on Communications*, **2021**, 69, 2359-2371	6.9	15
478	Reconfigurable Intelligent Surface Enhanced Symbiotic Radio over Multicasting Signals **2021**,		3
477	Deep Reinforcement Learning for Multi-Agent Power Control in Heterogeneous Networks. *IEEE Transactions on Wireless Communications*, **2021**, 20, 2551-2564	9.6	8
476	DOA and Polarization Estimation for Non-Circular Signals in 3-D Millimeter Wave Polarized Massive MIMO Systems. *IEEE Transactions on Wireless Communications*, **2021**, 20, 3152-3167	9.6	39
475	Joint Active and Passive Beamforming for Reconfigurable Intelligent Surface Enhanced Symbiotic Radio System. *IEEE Wireless Communications Letters*, **2021**, 10, 1056-1060	5.9	15
474	Reconfigurable Intelligent Surface-Assisted Non-Orthogonal Multiple Access. *IEEE Transactions on Wireless Communications*, **2021**, 20, 3137-3151	9.6	43
473	. *IEEE Internet of Things Journal*, **2021**, 8, 8064-8077	10.7	3
472	Access Control for RAN Slicing based on Federated Deep Reinforcement Learning **2021**,		2
471	Federated Deep Reinforcement Learning for User Access Control in Open Radio Access Networks **2021**,		3
470	Recent Advances on Sub-Nyquist Sampling-Based Wideband Spectrum Sensing. *IEEE Wireless Communications*, **2021**, 28, 115-121	13.4	5
469	Reconfigurable Intelligent Surface Assisted MIMO Symbiotic Radio Networks. *IEEE Transactions on Communications*, **2021**, 69, 4832-4846	6.9	18
468	Reconfigurable intelligent surfaces for smart wireless environments: channel estimation, system design and applications in 6G networks. *Science China Information Sciences*, **2021**, 64, 1	3.4	11
467	A Cross-Layer Analysis for Symbiotic Network Using CSMA/CN Protocol. *IEEE Internet of Things Journal*, **2021**, 8, 5697-5709	10.7	2
466	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. *Science China Information Sciences*, **2021**, 64, 1	3.4	264
465	Toward Smart Security Enhancement of Federated Learning Networks. *IEEE Network*, **2021**, 35, 340-347	11.4	6
464	Edge Intelligence Empowered Urban Traffic Monitoring: A Network Tomography Perspective. *IEEE Transactions on Intelligent Transportation Systems*, **2021**, 22, 2198-2211	6.1	7
463	Energy-Efficient UAV Backscatter Communication With Joint Trajectory Design and Resource Optimization. *IEEE Transactions on Wireless Communications*, **2021**, 20, 926-941	9.6	39
462	Coexistence of Human-Type and Machine-Type Communications in Uplink Massive MIMO. *IEEE Journal on Selected Areas in Communications*, **2021**, 39, 804-819	14.2	3

461	Reconfigurable Intelligent Surface Aided Constant-Envelope Wireless Power Transfer. *IEEE Transactions on Signal Processing*, **2021**, 69, 1347-1361	4.8	19
460	Performance Analysis and Waveform Optimization of Integrated FD-MIMO Radar-Communication Systems. *IEEE Transactions on Wireless Communications*, **2021**, 1-1	9.6	1
459	Reconfigurable Intelligent Surface Empowered Symbiotic Radio over Broadcasting Signals. *IEEE Transactions on Communications*, **2021**, 1-1	6.9	6
458	. *IEEE Transactions on Wireless Communications*, **2021**, 20, 1363-1378	9.6	14
457	Deep Reinforcement Learning For Multi-User Access Control in Non-Terrestrial Networks. *IEEE Transactions on Communications*, **2021**, 69, 1605-1619	6.9	10
456	Reconfigurable Intelligent Surface Enhanced NOMA Assisted Backscatter Communication System. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 7261-7266	6.8	9
455	Performance Analysis of Ambient Backscatter Systems With LDPC-Coded Source Signals. *IEEE Transactions on Vehicular Technology*, **2021**, 70, 7870-7884	6.8	2
454	The Design and Optimization of Random Code Assisted Multi-BD Symbiotic Radio System. *IEEE Transactions on Wireless Communications*, **2021**, 20, 5159-5170	9.6	3
453	Blockchain and Artificial Intelligence for Dynamic Resource Sharing in 6G and Beyond. *IEEE Wireless Communications*, **2021**, 28, 145-151	13.4	19
452	Active Reconfigurable Intelligent Surface-Aided Wireless Communications. *IEEE Transactions on Wireless Communications*, **2021**, 20, 4962-4975	9.6	59
451	Joint Beamforming and Reconfigurable Intelligent Surface Design for Two-Way Relay Networks. *IEEE Transactions on Communications*, **2021**, 69, 5620-5633	6.9	17
450	Joint Uplink-and-Downlink Optimization of 3-D UAV Swarm Deployment for Wireless-Powered IoT Networks. *IEEE Internet of Things Journal*, **2021**, 8, 13397-13413	10.7	1
449	Distributed Deep Learning for Power Control in D2D Networks With Outdated Information. *IEEE Transactions on Wireless Communications*, **2021**, 20, 5702-5713	9.6	3
448	Minimum Throughput Maximization for Peer-Assisted NOMA-Plus-TDMA Symbiotic Radio Networks. *IEEE Wireless Communications Letters*, **2021**, 10, 1847-1851	5.9	3
447	Hierarchical Passive Beamforming for Reconfigurable Intelligent Surface Aided Communications. *IEEE Wireless Communications Letters*, **2021**, 10, 1909-1913	5.9	6
446	Reconfigurable Intelligent Surface Empowered Device-to-Device Communication Underlaying Cellular Networks. *IEEE Transactions on Communications*, **2021**, 1-1	6.9	5
445	Joint Hybrid and Passive Beamforming for Millimeter Wave Symbiotic Radio Systems. *IEEE Wireless Communications Letters*, **2021**, 1-1	5.9	2
444	Intelligent Reflecting Surface-Assisted Cognitive Radio System. *IEEE Transactions on Communications*, **2021**, 69, 675-687	6.9	61

443	Federated Learning in Mobile Edge Networks: A Comprehensive Survey. *IEEE Communications Surveys and Tutorials*, **2020**, 22, 2031-2063	37.1	414
442	Throughput Maximization for Peer-Assisted Wireless Powered IoT NOMA Networks. *IEEE Transactions on Wireless Communications*, **2020**, 19, 5278-5291	9.6	5
441	Machine Learning Based Iterative Detection and Multi-Interference Cancellation for Cognitive IoT. *IEEE Communications Letters*, **2020**, 24, 1995-1999	3.8	2
440	Intelligent User-Centric Networks: Learning-Based Downlink CoMP Region Breathing. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 5583-5597	6.8	2
439	Intelligent User Association for Symbiotic Radio Networks Using Deep Reinforcement Learning. *IEEE Transactions on Wireless Communications*, **2020**, 19, 4535-4548	9.6	29
438	A Cross-Layer Analysis for Full-Duplex Ambient Backscatter Communication System. *IEEE Wireless Communications Letters*, **2020**, 9, 1263-1267	5.9	5
437	. *IEEE Transactions on Mobile Computing*, **2020**, 1-1	4.6	17
436	Toward Smart Wireless Communications via Intelligent Reflecting Surfaces: A Contemporary Survey. *IEEE Communications Surveys and Tutorials*, **2020**, 22, 2283-2314	37.1	216
435	. *IEEE Transactions on Wireless Communications*, **2020**, 19, 5057-5072	9.6	26
434	Intelligent Reflecting Surface Assisted Non-Orthogonal Multiple Access **2020**,		57
433	Regret Matching Learning Based Spectrum Reuse in Small Cell Networks. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 1060-1064	6.8	6
432	Intelligent Reflecting Surface Configuration With Historical Channel Observations. *IEEE Wireless Communications Letters*, **2020**, 9, 1821-1824	5.9	10
431	Deep Reinforcement Learning for Distributed Dynamic MISO Downlink-Beamforming Coordination. *IEEE Transactions on Communications*, **2020**, 68, 6070-6085	6.9	16
430	Intelligent Sharing for LTE and WiFi Systems in Unlicensed Bands: A Deep Reinforcement Learning Approach. *IEEE Transactions on Communications*, **2020**, 68, 2793-2808	6.9	21
429	Resource Allocation in NOMA-Enhanced Full-Duplex Symbiotic Radio Networks. *IEEE Access*, **2020**, 8, 22709-22720	3.5	24
428	Vision, Requirements, and Technology Trend of 6G: How to Tackle the Challenges of System Coverage, Capacity, User Data-Rate and Movement Speed. *IEEE Wireless Communications*, **2020**, 27, 218-228	13.4	163
427	Transceiver Design and Signal Detection in Backscatter Communication Systems With Multiple-Antenna Tags. *IEEE Transactions on Wireless Communications*, **2020**, 19, 3273-3288	9.6	13
426	Reconfigurable Intelligent Surface Assisted UAV Communication: Joint Trajectory Design and Passive Beamforming. *IEEE Wireless Communications Letters*, **2020**, 9, 716-720	5.9	199

425	Weighted Sum-Rate Maximization for Reconfigurable Intelligent Surface Aided Wireless Networks. *IEEE Transactions on Wireless Communications*, **2020**, 19, 3064-3076	9.6	217
424	Device Association for RAN Slicing Based on Hybrid Federated Deep Reinforcement Learning. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 15731-15745	6.8	17
423	A throughput-aware joint vehicle route and access network selection approach based on SMDP. *China Communications*, **2020**, 17, 243-265	3	3
422	Spectrum Sensing Theories and Methods. *Signals and Communication Technology*, **2020**, 41-85	0.5	1
421	Concurrent Spectrum Access. *Signals and Communication Technology*, **2020**, 87-120	0.5	
420	Opportunistic Spectrum Access. *Signals and Communication Technology*, **2020**, 19-40	0.5	
419	Artificial Intelligence for Dynamic Spectrum Management. *Signals and Communication Technology*, **2020**, 147-166	0.5	0
418	Deep Transfer Learning-Assisted Signal Detection for Ambient Backscatter Communications **2020**,		2
417	**2020**,		4
416	Multi-agent Deep Reinforcement Learning for Non-Cooperative Power Control in Heterogeneous Networks **2020**,		2
415	Reconfigurable Intelligent Surface Empowered Symbiotic Radio over Broadcasting Signals **2020**,		3
414	Proactive Network Slice Reconfiguration by Exploiting Prediction Interval and Robust Optimization **2020**,		1
413	Blockchain for Dynamic Spectrum Management. *Signals and Communication Technology*, **2020**, 121-146	0.5	16
412	Deep Neural Network for Robust Modulation Classification Under Uncertain Noise Conditions. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 564-577	6.8	39
411	Dynamic Spectrum Management. *Signals and Communication Technology*, **2020**,	0.5	25
410	20 Years of Evolution From Cognitive to Intelligent Communications. *IEEE Transactions on Cognitive Communications and Networking*, **2020**, 6, 6-20	6.6	34
409	. *IEEE Internet of Things Journal*, **2020**, 7, 1350-1363	10.7	61
408	Optimal Resource Allocation for Multicarrier NOMA in Short Packet Communications. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 2141-2156	6.8	13

407	Robust Beamforming and Phase Shift Design for IRS-Enhanced Multi-User MISO Downlink Communication **2020**,		12
406	Interference Coordination for Autonomous Small Cell Networks Based on Distributed Learning **2020**,		2
405	Deep Reinforcement Learning for Backscatter-Aided Data Offloading in Mobile Edge Computing. *IEEE Network*, **2020**, 34, 106-113	11.4	12
404	Decentralized Learning Based Indoor Interference Mitigation for 5G-and-Beyond Systems. *IEEE Transactions on Vehicular Technology*, **2020**, 1-1	6.8	10
403	Distributed Deep Learning Power Allocation for D2D Network Based on Outdated Information **2020**,		2
402	Intelligent Reflecting Surface (IRS)-Enhanced Cognitive Radio System **2020**,		11
401	Deep Reinforcement Learning for Trajectory Design and Power Allocation in UAV Networks **2020**,		8
400	. *IEEE Transactions on Network and Service Management*, **2020**, 17, 2620-2633	4.8	24
399	Network Slice Reconfiguration by Exploiting Deep Reinforcement Learning With Large Action Space. *IEEE Transactions on Network and Service Management*, **2020**, 17, 2197-2211	4.8	25
398	Joint Optimization of Handover Control and Power Allocation Based on Multi-Agent Deep Reinforcement Learning. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 13124-13138	6.8	32
397	Network Function Migration in Softwarization Based Networks with Mobile Edge Computing **2020**,		1
396	Dynamic Network Slice Reconfiguration by Exploiting Deep Reinforcement Learning **2020**,		2
395	Cognitive Backscatter NOMA Networks With Multi-Slot Energy Causality. *IEEE Communications Letters*, **2020**, 24, 2854-2858	3.8	8
394	. *IEEE Communications Letters*, **2020**, 24, 2532-2536	3.8	11
393	. *IEEE Transactions on Cognitive Communications and Networking*, **2020**, 6, 1242-1255	6.6	50
392	Network slice selection in softwarization-based mobile networks. *Transactions on Emerging Telecommunications Technologies*, **2020**, 31, e3617	1.9	13
391	Resource Allocation in NOMA-Enhanced Backscatter Communication Networks for Wireless Powered IoT. *IEEE Wireless Communications Letters*, **2020**, 9, 117-120	5.9	37
390	Detecting Pilot Spoofing Attack in MISO Systems With Trusted User. *IEEE Communications Letters*, **2019**, 23, 314-317	3.8	10

389	**2019**,		9
388	Exploiting Gaussian Mixture Model Clustering for Full-Duplex Transceiver Design. *IEEE Transactions on Communications*, **2019**, 67, 5802-5816	6.9	6
387	Machine Learning Based Signal Detection for Ambient Backscatter Communications **2019**,		8
386	6G Visions: Mobile ultra-broadband, super internet-of-things, and artificial intelligence. *China Communications*, **2019**, 16, 1-14	3	111
385	Symbiotic Radio with Full-Duplex Backscatter Devices **2019**,		3
384	. *IEEE Transactions on Communications*, **2019**, 67, 7058-7072	6.9	2
383	Deep Reinforcement Learning for Multi-User Access Control in UAV Networks **2019**,		7
382	Deep CM-CNN for Spectrum Sensing in Cognitive Radio. *IEEE Journal on Selected Areas in Communications*, **2019**, 37, 2306-2321	14.2	69
381	Hardware-Efficient Signal Detection for Ambient Backscattering Communications. *IEEE Communications Letters*, **2019**, 23, 2196-2199	3.8	5
380	Deep Reinforcement Learning for the Coexistence of LAA-LTE and WiFi Systems **2019**,		12
379	Channel Estimation for Ambient Backscatter Communication Systems With Massive-Antenna Reader. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 8254-8258	6.8	26
378	Analysis and Optimization of Ambiguity Function in Radar-Communication Integrated Systems Using MPSK-DSSS. *IEEE Wireless Communications Letters*, **2019**, 8, 1546-1549	5.9	6
377	Resource Allocation for Wireless-Powered IoT Networks With Short Packet Communication. *IEEE Transactions on Wireless Communications*, **2019**, 18, 1447-1461	9.6	63
376	Learning-Based Iterative Interference Cancellation for Cognitive Internet of Things. *IEEE Internet of Things Journal*, **2019**, 6, 7213-7224	10.7	5
375	Intelligent Resource Scheduling for 5G Radio Access Network Slicing. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 7691-7703	6.8	70
374	Applications of Deep Reinforcement Learning in Communications and Networking: A Survey. *IEEE Communications Surveys and Tutorials*, **2019**, 21, 3133-3174	37.1	528
373	Cooperative Ambient Backscatter System: A Symbiotic Radio Paradigm for Passive IoT. *IEEE Wireless Communications Letters*, **2019**, 8, 1191-1194	5.9	43
372	Joint Transaction Transmission and Channel Selection in Cognitive Radio Based Blockchain Networks: A Deep Reinforcement Learning Approach **2019**,		13

371	Joint Spectrum Sensing and Packet Error Rate Optimization in Cognitive IoT. *IEEE Internet of Things Journal*, **2019**, 6, 7816-7827	10.7	14
370	Deep Reinforcement Learning-Based Modulation and Coding Scheme Selection in Cognitive Heterogeneous Networks. *IEEE Transactions on Wireless Communications*, **2019**, 18, 3281-3294	9.6	51
369	Activity Pattern Aware Spectrum Sensing: A CNN-Based Deep Learning Approach. *IEEE Communications Letters*, **2019**, 23, 1025-1028	3.8	40
368	A Survey on Blockchain: A Game Theoretical Perspective. *IEEE Access*, **2019**, 7, 47615-47643	3.5	53
367	Resource Allocation for Full-Duplex-Enabled Cognitive Backscatter Networks. *IEEE Transactions on Wireless Communications*, **2019**, 18, 3222-3235	9.6	37
366	Online Learning-Based Discontinuous Reception (DRX) for Machine-Type Communications. *IEEE Internet of Things Journal*, **2019**, 6, 5550-5561	10.7	10
365	QoS-Aware User Association and Resource Allocation in LAA-LTE/WiFi Coexistence Systems. *IEEE Transactions on Wireless Communications*, **2019**, 18, 2415-2430	9.6	46
364	Full-Duplex Backscatter Communications in Symbiotic Radio Systems. *IEEE Access*, **2019**, 1-1	3.5	43
363	Optimal Power Allocation for Diffusion-Type Sensor Networks With Wireless Information and Power Transfer. *IEEE Access*, **2019**, 7, 32408-32422	3.5	3
362	Relay-Aided Multiple Access Scheme in Two-Point Joint Transmission. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 5629-5641	6.8	5
361	. *IEEE Access*, **2019**, 7, 34333-34347	3.5	27
360	Backscatter-NOMA: A Symbiotic System of Cellular and Internet-of-Things Networks. *IEEE Access*, **2019**, 7, 20000-20013	3.5	87
359	Reconfiguration in Network Slicing—Optimizing the Profit and Performance. *IEEE Transactions on Network and Service Management*, **2019**, 16, 591-605	4.8	41
358	Exploiting Multiple Antennas for Cognitive Ambient Backscatter Communication. *IEEE Internet of Things Journal*, **2019**, 6, 765-775	10.7	63
357	Deep Reinforcement Learning for User Association and Resource Allocation in Heterogeneous Cellular Networks. *IEEE Transactions on Wireless Communications*, **2019**, 18, 5141-5152	9.6	144
356	Price-Based Bandwidth Allocation for Backscatter Communication With Bandwidth Constraints. *IEEE Transactions on Wireless Communications*, **2019**, 18, 5170-5180	9.6	21
355	Dynamic Spectrum Management via Machine Learning: State of the Art, Taxonomy, Challenges, and Open Research Issues. *IEEE Network*, **2019**, 33, 54-62	11.4	15
354	Intelligent Reflecting Surface: A Programmable Wireless Environment for Physical Layer Security. *IEEE Access*, **2019**, 7, 82599-82612	3.5	189

353	Learning-Based Cooperative Content Caching Policy for Mobile Edge Computing **2019**,		14
352	Deep CNN for Spectrum Sensing in Cognitive Radio **2019**,		10
351	Energy-Efficient UAV Backscatter Communication with Joint Trajectory and Resource Optimization **2019**,		10
350	Maximum Eigenvalue-Based Goodness-of-Fit Detection for Spectrum Sensing in Cognitive Radio. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 7747-7760	6.8	22
349	Dynamic Access Point and Service Selection in Backscatter-Assisted RF-Powered Cognitive Networks. *IEEE Internet of Things Journal*, **2019**, 6, 8270-8283	10.7	18
348	Optimal Time Allocation for Full-Duplex Wireless-Powered IoT Networks with Unmanned Aerial Vehicle **2019**,		7
347	Backscatter-NOMA: An Integrated System of Cellular and Internet-of-Things Networks **2019**,		8
346	Cognitive Backscatter Network: A Spectrum Sharing Paradigm for Passive IoT. *IEEE Wireless Communications Letters*, **2019**, 8, 1423-1426	5.9	17
345	**2019**,		59
344	Robust Resource Allocation in NOMA based Cognitive Radio Networks **2019**,		2
343	Joint Service Pricing and Cooperative Relay Communication for Federated Learning **2019**,		29
342	Deep Reinforcement Learning for Channel Selection and Power Control in D2D Networks **2019**,		4
341	Weighted Sum-Rate Maximization for Intelligent Reflecting Surface Enhanced Wireless Networks **2019**,		70
340	Effective-Throughput Maximization for Multicarrier NOMA in Short-Packet Communications **2019**,		4
339	Intelligent User Association for Symbiotic Radio Networks Using Deep Reinforcement Learning **2019**,		6
338	A Semi-Blind Receiver for Ambient Backscatter Communications with MPSK RF Source **2019**,		3
337	Deep Reinforcement Learning for Channel and Power Allocation in UAV-enabled IoT Systems **2019**,		15
336	Matrix Integral Approach to MIMO Mutual Information Statistics in High-SNR Regime. *Entropy*, **2019**, 21, 1071	2.8	2

335	Blockchain-Enabled Dynamic Spectrum Access: Cooperative Spectrum Sensing, Access and Mining **2019**,		7
334	Joint Uplink and Downlink 3D Optimization of an UAV Swarm for Wireless-Powered NB-IoT **2019**,		5
333	Deep Reinforcement Learning for Time Scheduling in RF-Powered Backscatter Cognitive Radio Networks **2019**,		12
332	On Robustness of Network Slicing for Next-Generation Mobile Networks. *IEEE Transactions on Communications*, **2019**, 67, 430-444	6.9	40
331	Spectrum Sharing for Internet of Things: A Survey. *IEEE Wireless Communications*, **2019**, 26, 132-139	13.4	82
330	Gaussian Mixture Model for Millimeter-Wave Cellular Communication Networks. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 3174-3188	6.8	2
329	Applications of Economic and Pricing Models for Resource Management in 5G Wireless Networks: A Survey. *IEEE Communications Surveys and Tutorials*, **2019**, 21, 3298-3339	37.1	50
328	Constellation Learning-Based Signal Detection for Ambient Backscatter Communication Systems. *IEEE Journal on Selected Areas in Communications*, **2019**, 37, 452-463	14.2	84
327	Optimal Resource Allocation in Full-Duplex Ambient Backscatter Communication Networks for Wireless-Powered IoT. *IEEE Internet of Things Journal*, **2019**, 6, 2612-2625	10.7	57
326	The SMART Handoff Policy for Millimeter Wave Heterogeneous Cellular Networks. *IEEE Transactions on Mobile Computing*, **2018**, 17, 1456-1468	4.6	53
325	Modulation in the Air: Backscatter Communication Over Ambient OFDM Carrier. *IEEE Transactions on Communications*, **2018**, 66, 1219-1233	6.9	168
324	Wireless Big Data: Technologies and Applications. *IEEE Wireless Communications*, **2018**, 25, 10-11	13.4	3
323	Channel Estimation for TDD/FDD Massive MIMO Systems With Channel Covariance Computing. *IEEE Transactions on Wireless Communications*, **2018**, 17, 4206-4218	9.6	74
322	Compressive Sensing-Based Multiuser Detection via Iterative Reweighed Approach in M2M Communications. *IEEE Wireless Communications Letters*, **2018**, 7, 764-767	5.9	5
321	Learning-Based Spectrum Sharing and Spatial Reuse in mm-Wave Ultradense Networks. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 4954-4968	6.8	31
320	Asynchronous Device Detection for Cognitive Device-to-Device Communications. *IEEE Transactions on Wireless Communications*, **2018**, 17, 2443-2456	9.6	5
319	Cooperative Ambient Backscatter Communications for Green Internet-of-Things. *IEEE Internet of Things Journal*, **2018**, 5, 1116-1130	10.7	184
318	An Efficient Transmit Power Control Strategy for Underlay Spectrum Sharing Networks With Spatially Random Primary Users. *IEEE Transactions on Wireless Communications*, **2018**, 17, 4341-4351	9.6	7

317	State of the Art, Taxonomy, and Open Issues on Cognitive Radio Networks with NOMA. *IEEE Wireless Communications*, **2018**, 25, 100-108	13.4	120
316	Distributed Multi-Relay Selection in Accumulate-Then-Forward Energy Harvesting Relay Networks. *IEEE Transactions on Green Communications and Networking*, **2018**, 2, 74-86	4	51
315	Socially Aware Caching Strategy in Device-to-Device Communication Networks. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 4615-4629	6.8	29
314	Adaptive Sensing Schedule for Dynamic Spectrum Sharing in Time-Varying Channel. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 5520-5524	6.8	9
313	On the Capacity Region of the Parallel Degraded Broadcast Channel With Three Receivers and Three-Degraded Message Sets. *IEEE Transactions on Information Theory*, **2018**, 64, 5017-5041	2.8	3
312	Label-Assisted Transmission for Short Packet Communications: A Machine Learning Approach. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 8846-8859	6.8	13
311	Backscatter Multiplicative Multiple-Access Systems: Fundamental Limits and Practical Design. *IEEE Transactions on Wireless Communications*, **2018**, 17, 5713-5728	9.6	53
310	Riding on the Primary: A New Spectrum Sharing Paradigm for Wireless-Powered IoT Devices. *IEEE Transactions on Wireless Communications*, **2018**, 17, 6335-6347	9.6	76
309	A Machine Learning Approach to Blind Modulation Classification for MIMO Systems **2018**,		3
308	On Ambient Backscatter Multiple-Access Systems **2018**,		2
307	Message-Passing Based OFDM Receiver for Time-Varying Sparse Multipath Channels. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 10097-10101	6.8	4
306	Performance Analysis for Practical Unmanned Aerial Vehicle Networks with LoS/NLoS Transmissions **2018**,		23
305	Statistical spectrum occupancy prediction for dynamic spectrum access: a classification. *Eurasip Journal on Wireless Communications and Networking*, **2018**, 2018,	3.2	19
304	Dynamic Contract Incentive Mechanism for Cooperative Wireless Networks. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 10970-10982	6.8	65
303	Anomaly Detection With Subgraph Search and Vertex Classification Preprocessing in Chung-Lu Random Networks. *IEEE Transactions on Signal Processing*, **2018**, 66, 5255-5268	4.8	6
302	Hybrid Ambient Backscatter Communication Systems With Harvest-Then-Transmit Protocols. *IEEE Access*, **2018**, 6, 45288-45298	3.5	43
301	A Learning-Based Coexistence Mechanism for LAA-LTE Based HetNets **2018**,		8
300	Deep Reinforcement Learning for User Access Control in UAV Networks **2018**,		5

299	A Clustering Detector for Spatial Modulation System **2018**,		2
298	Full-duplex Transceiver Design: A GMM Clustering Approach **2018**,		1
297	Deep Reinforcement Learning for User Association and Resource Allocation in Heterogeneous Networks **2018**,		28
296	Robust Modulation Classification under Uncertain Noise Condition Using Recurrent Neural Network **2018**,		20
295	Optimal Resource Allocation in Full-Duplex Ambient Backscatter Communication Networks for Green IoT **2018**,		3
294	A Reinforcement Learning Based User Association Algorithm for UAV Networks **2018**,		9
293	Effective-Throughput Maximization for Wireless-Powered IoT Networks with Short Packets **2018**,		2
292	Modulation-Constrained Clustering Approach to Blind Modulation Classification for MIMO Systems. *IEEE Transactions on Cognitive Communications and Networking*, **2018**, 4, 894-907	6.6	31
291	Adaptive Ambient Backscatter Communication Systems With MRC. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 12352-12357	6.8	49
290	An Energy Harvesting Chain Model for Wireless-Powered IoT Networks **2018**,		2
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