Luxi Yang

List of Publications by Year
in descending order

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106	2,453	186265	214800
papers	citations	28 h-index	47 g-index

106	106	106	2571
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On Optimal Power Allocation for Downlink Non-Orthogonal Multiple Access Systems. IEEE Journal on Selected Areas in Communications, 2017, , 1-1.	14.0	235
2	Power-Efficient Communication in UAV-Aided Wireless Sensor Networks. IEEE Communications Letters, 2018, 22, 1264-1267.	4.1	116
3	UAV-Assisted Intelligent Reflecting Surface Symbiotic Radio System. IEEE Transactions on Wireless Communications, 2021, 20, 5769-5785.	9.2	111
4	Codebook Design for Beam Alignment in Millimeter Wave Communication Systems. IEEE Transactions on Communications, 2017, 65, 4980-4995.	7.8	103
5	Energy-Efficient Cooperative Secure Transmission in Multi-UAV-Enabled Wireless Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 7761-7775.	6.3	103
6	Energy-Efficient Optimization for Downlink Massive MIMO FDD Systems With Transmit-Side Channel Correlation. IEEE Transactions on Vehicular Technology, 2016, 65, 7228-7243.	6.3	93
7	Sum-Rate Analysis for Massive MIMO Downlink With Joint Statistical Beamforming and User Scheduling. IEEE Transactions on Wireless Communications, 2017, 16, 2181-2194.	9.2	78
8	Intelligent Reflecting Surface-Aided Joint Processing Coordinated Multipoint Transmission. IEEE Transactions on Communications, 2021, 69, 1650-1665.	7.8	77
9	3D UAV Trajectory and Communication Design for Simultaneous Uplink and Downlink Transmission. IEEE Transactions on Communications, 2020, 68, 5908-5923.	7.8	66
10	Joint User Association and Power Control for Load Balancing in Downlink Heterogeneous Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 2582-2593.	6.3	61
11	UAV-Aided Mobile Edge Computing Systems With One by One Access Scheme. IEEE Transactions on Green Communications and Networking, 2019, 3, 664-678.	5.5	60
12	Secure Beamforming for SWIPT in Multiuser MISO Broadcast Channel With Confidential Messages. IEEE Communications Letters, 2015, 19, 1347-1350.	4.1	57
13	Secure Beamforming Design for SWIPT in MISO Broadcast Channel With Confidential Messages and External Eavesdroppers. IEEE Transactions on Wireless Communications, 2016, 15, 7807-7819.	9.2	55
14	Graph-Based Joint User-Centric Overlapped Clustering and Resource Allocation in Ultradense Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 4440-4453.	6.3	53
15	Proactive Caching for Vehicular Multi-View 3D Video Streaming via Deep Reinforcement Learning. IEEE Transactions on Wireless Communications, 2019, 18, 2693-2706.	9.2	43
16	Double Coded Caching in Ultra Dense Networks: Caching and Multicast Scheduling via Deep Reinforcement Learning. IEEE Transactions on Communications, 2020, 68, 1071-1086.	7.8	42
17	Energy-Efficient Optimization for UAV-Aided Cellular Offloading. IEEE Wireless Communications Letters, 2019, 8, 769-772.	5.0	40
18	Throughput Maximization for UAV-Aided Backscatter Communication Networks. IEEE Transactions on Communications, 2020, 68, 1254-1270.	7.8	40

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19	Joint CoMP Transmission for UAV-Aided Cognitive Satellite Terrestrial Networks. IEEE Access, 2019, 7, 14959-14968.	4.2	39
20	Wideband Millimeter Wave Communication With Lens Antenna Array: Joint Beamforming and Antenna Selection With Group Sparse Optimization. IEEE Transactions on Wireless Communications, 2018, 17, 6575-6589.	9.2	38
21	Beam-Blocked Channel Estimation for FDD Massive MIMO With Compressed Feedback. IEEE Access, 2017, 5, 11791-11804.	4.2	36
22	Performance Analysis for Massive MIMO Downlink With Low Complexity Approximate Zero-Forcing Precoding. IEEE Transactions on Communications, 2018, 66, 3848-3864.	7.8	33
23	Throughput Maximization for Full-Duplex UAV Aided Small Cell Wireless Systems. IEEE Wireless Communications Letters, 2020, 9, 475-479.	5.0	33
24	Energy-Efficient Resource Allocation for Energy Harvesting-Based Device-to-Device Communication. IEEE Transactions on Vehicular Technology, 2019, 68, 509-524.	6.3	32
25	A Novel Wireless Communication Paradigm for Intelligent Reflecting Surface Based Symbiotic Radio Systems. IEEE Transactions on Signal Processing, 2022, 70, 550-565.	5.3	32
26	On Optimal Beamforming Design for Downlink MISO NOMA Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 3008-3020.	6.3	30
27	A Normalized Complex LMS Based Blind I/Q Imbalance Compensator for GFDM Receivers and Its Full Second-Order Performance Analysis. IEEE Transactions on Signal Processing, 2018, 66, 4701-4712.	5.3	29
28	Wideband millimeter wave communication: Single carrier based hybrid precoding with sparse optimization. IEEE Transactions on Vehicular Technology, 2018, 67, 9696-9710.	6.3	29
29	Joint Design of User Association and Power Allocation With Proportional Fairness in Massive MIMO HetNets. IEEE Access, 2017, 5, 6560-6569.	4.2	28
30	Resource Optimization for Device-to-Device and Small Cell Uplink Communications Underlaying Cellular Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 1187-1201.	6.3	28
31	Outage probability minimization for low-altitude UAV-enabled full-duplex mobile relaying systems. China Communications, 2018, 15, 9-24.	3.2	28
32	Secure User-Centric Clustering for Energy Efficient Ultra-Dense Networks: Design and Optimization. IEEE Journal on Selected Areas in Communications, 2018, 36, 1609-1621.	14.0	28
33	Per-Antenna Constant Envelope Precoding and Antenna Subset Selection: A Geometric Approach. IEEE Transactions on Signal Processing, 2016, 64, 6089-6104.	5.3	27
34	Energy Efficient Beamforming for Massive MIMO Public Channel. IEEE Transactions on Vehicular Technology, 2017, 66, 10595-10600.	6.3	27
35	Hybrid Precoding for Wideband Millimeter-Wave Systems With Finite Resolution Phase Shifters. IEEE Transactions on Vehicular Technology, 2018, 67, 11285-11290.	6.3	25
36	Joint Channel Estimation and Tx/Rx I/Q Imbalance Compensation for GFDM Systems. IEEE Transactions on Wireless Communications, 2019, 18, 1304-1317.	9.2	25

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37	Multi-Agent Reinforcement Learning Based Distributed Transmission in Collaborative Cloud-Edge Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 1658-1672.	6.3	24
38	IQ Imbalance Compensation for Generalized Frequency Division Multiplexing Systems. IEEE Wireless Communications Letters, 2017, 6, 422-425.	5.0	21
39	Joint Antenna Selection and Energy-Efficient Beamforming Design. IEEE Signal Processing Letters, 2016, , 1-1.	3.6	20
40	Modularity-Based User-Centric Clustering and Resource Allocation for Ultra Dense Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 12457-12461.	6.3	20
41	Optimal Resource Partitioning and Bit Allocation for UAV-Enabled Mobile Edge Computing. , 2018, , .		19
42	Cloud and Edge Multicast Beamforming for Cache-Enabled Ultra-Dense Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 3481-3485.	6.3	19
43	MEC-Enabled Wireless VR Video Service: A Learning-Based Mixed Strategy for Energy-Latency Tradeoff. , 2020, , .		19
44	Hybrid Policy Learning for Energy-Latency Tradeoff in MEC-Assisted VR Video Service. IEEE Transactions on Vehicular Technology, 2021, 70, 9006-9021.	6.3	19
45	Performance Scaling Law for Multicell Multiuser Massive MIMO. IEEE Transactions on Vehicular Technology, 2017, 66, 9890-9903.	6.3	17
46	Performance Evaluation and Analysis of Millimeter Wave Communication System. IEEE Systems Journal, 2019, 13, 159-170.	4.6	16
47	Deep Reinforcement Learning Approach for Joint Trajectory Design in Multi-UAV IoT Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 3389-3394.	6.3	16
48	User association with jointly maximising downlink sum rate and minimising uplink sum power for heterogeneous cellular networks. IET Communications, 2015, 9, 300-308.	2.2	15
49	User-Centric Clustering for Designing Ultradense Networks: Architecture, Objective Functions, and Design Guidelines. IEEE Vehicular Technology Magazine, 2019, 14, 107-114.	3.4	14
50	Analysis of the Unconstrained Frequency-Domain Block LMS for Second-Order Noncircular Inputs. IEEE Transactions on Signal Processing, 2019, 67, 3970-3984.	5.3	13
51	Power-Efficient Beam Designs for Millimeter Wave Communication Systems. IEEE Transactions on Wireless Communications, 2020, 19, 1265-1279.	9.2	12
52	Deep Neural Network Aided Low-Complexity MPA Receivers for Uplink SCMA Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 9050-9062.	6.3	12
53	Robust Multigroup Multicast Beamforming Design for Backhaul-Limited Cloud Radio Access Network. IEEE Signal Processing Letters, 2019, 26, 189-193.	3.6	11
54	Analysis of Least Stochastic Entropy Adaptive Filters for Noncircular Gaussian Signals. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1364-1368.	3.0	11

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55	Complex Properness Inspired Blind Adaptive Frequency-Dependent I/Q Imbalance Compensation for Wideband Direct-Conversion Receivers. IEEE Transactions on Wireless Communications, 2020, 19, 5982-5992.	9.2	11
56	Unsupervised Recurrent Federated Learning for Edge Popularity Prediction in Privacy-Preserving Mobile-Edge Computing Networks. IEEE Internet of Things Journal, 2022, 9, 24328-24345.	8.7	11
57	Hybrid Precoding for Single Carrier Wideband Multi-Subarray Millimeter Wave Systems. IEEE Wireless Communications Letters, 2019, 8, 484-487.	5.0	10
58	Joint User Scheduling and Beam Selection in mmWave Networks Based on Multi-Agent Reinforcement Learning. , 2020, , .		10
59	Placement Delivery Array Design via Attention-Based Sequence-to-Sequence Model With Deep Neural Network. IEEE Wireless Communications Letters, 2019, 8, 372-375.	5.0	8
60	Beam-blocked compressive channel estimation for FDD massive MIMO systems. , 2016, , .		7
61	Fine-Grained Analysis on Downlink LEO Satellite-Terrestrial mmWave Relay Networks. IEEE Wireless Communications Letters, 2021, 10, 1871-1875.	5.0	7
62	The Study of Chaotic Neural Network and its Applications in Associative Memory. Neural Processing Letters, 1999, 9, 163-175.	3.2	6
63	TDMA SECURE COMMUNICATION SCHEME BASED ON SYNCHRONIZATION OF CHUA'S CIRCUITS. Journal of Circuits, Systems and Computers, 2000, 10, 147-158.	1.5	6
64	Blind source separation used for radar anti-jamming. , 2003, , .		6
65	UAV-Aided Backscatter Networks: Joint UAV Trajectory and Protocol Design. , 2019, , .		5
66	Compact Multi-Wideband Array for Millimeter-Wave Communications Using Squint Beams. IEEE Access, 2020, 8, 183146-183164.	4.2	5
67	Performance of Integrated Satellite-Terrestrial Relay Network With Relay Selection and Outdated CSI. IEEE Access, 2020, 8, 169652-169662.	4.2	5
68	Synchronization in Time-delayed Binary Oscillatory Network. Neural Processing Letters, 1997, 5, 201-208.	3.2	4
69	An ICA and EC based approach for blind equalization and channel parameter estimation. Science in China Series D: Earth Sciences, 2000, 43, 1-8.	0.9	4
70	A Method for DOA Estimation with Mutual Coupling Present. , 0, , .		4
71	Energy-Efficient Cooperative Hybrid Precoding for Millimeter-Wave Communication Networks. , 2018, , .		4
72	Multiobjective Precoder Design for Coexisting Wireless Energy Transfer and Information Transmission Systems. IEEE Systems Journal, 2020, 14, 445-456.	4.6	4

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73	Bistatic Backscatter Communication: Shunt Network Design. IEEE Internet of Things Journal, 2021, 8, 7691-7705.	8.7	4
74	Downlink multi-user algorithms for millimeter-wave wideband linear arrays on PD-NOMA-based squint steering beams. Eurasip Journal on Advances in Signal Processing, 2021, 2021, .	1.7	4
75	Influence of Autoencoder-Based Data Augmentation on Deep Learning-Based Wireless Communication. IEEE Wireless Communications Letters, 2021, 10, 2090-2093.	5.0	4
76	Ultrasonic image processing using wavelet based deconvolution. , 2003, , .		3
77	Optimal Design of Multiple Panel Arrays in LoS MIMO System. , 2019, , .		3
78	Joint Device Association and Power Coordination for H2H and IoT Communications in Massive MIMO Enabled HCNs. IEEE Access, 2020, 8, 72971-72984.	4.2	3
79	Performance of Remote Radio Unit Selection in Millimeter-Wave Distributed Antenna Systems Over Fluctuating Two-Ray Fading. IEEE Wireless Communications Letters, 2022, 11, 235-239.	5.0	3
80	Efficient Message Passing Receivers for Downlink MIMO-SCMA Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 5073-5086.	6.3	3
81	Performance Analysis of Cache-Enabled User Association for Hybrid Heterogeneous Cellular Networks. IEEE Transactions on Communications, 2022, 70, 2518-2531.	7.8	3
82	A Privacy-Preserved Split Learning Solution for Deep Learning-Based mmWave Beam Selection. IEEE Communications Letters, 2022, 26, 1474-1478.	4.1	3
83	SYNCHRONY IN BINARY-OSCILLATOR NETWORKS WITH LOCAL COUPLINGS. International Journal of Neural Systems, 1996, 07, 599-605.	5.2	2
84	Detecting deterministic dynamics of cardiac rhythm. Science Bulletin, 2001, 46, 1568-1573.	1.7	2
85	A novel intrusion detection mode based on understandable neural network trees. Journal of Electronics, 2006, 23, 574-579.	0.2	2
86	Smart Longitudinal Velocity Control of Autonomous Vehicles in Interactions With Distracted Human-Driven Vehicles. IEEE Access, 2019, 7, 168060-168074.	4.2	2
87	Improperness Based SINR Analysis of GFDM Systems Under Joint Tx and Rx I/Q Imbalance. , 2020, , .		2
88	Conquering the Worst Case of Infections in Networks. IEEE Access, 2020, 8, 2835-2846.	4.2	2
89	Beyond Supervised Power Control in Massive MIMO Network: Simple Deep Neural Network Solutions. IEEE Transactions on Vehicular Technology, 2022, 71, 3964-3979.	6.3	2
90	Design of a novel wireless information surveillance scheme assisted by reconfigurable intelligent surface. IET Communications, 2022, 16, 1545-1557.	2.2	2

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91	Wideband beamspace squint user grouping algorithm based on subarray collaboration. Eurasip Journal on Advances in Signal Processing, 2022, 2022, .	1.7	2
92	MODELING AND CHARACTERIZING DETERMINISTIC COMPONENT OF HEART RATE VARIABILITY BY CLUSTER-WEIGHTED FILTERING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 2967-2976.	1.7	1
93	Offloading Design for Energy and Spectral Efficiencies Tradeoff in Massive MIMO Enabled Heterogeneous Cellular Networks. IEEE Access, 2019, 7, 141330-141342.	4.2	1
94	On the Cover Problem for Coded Caching in Wireless Networks via Deep Neural Network. , 2019, , .		1
95	Decentralized Precoding for Cache-Enabled Ultra-Dense Radio Access Networks. IEEE Wireless Communications Letters, 2019, 8, 404-407.	5.0	1
96	Coarse-to-Fine Spatial-Temporal Relationship Inference for Temporal Sentence Grounding. IEEE Access, 2021, 9, 97430-97443.	4.2	1
97	A full second-order statistical analysis of strictly linear and widely linear estimators with MSE and Gaussian entropy criteria. Signal Processing, 2022, 192, 108403.	3.7	1
98	Proactive Eavesdropping in Massive MIMO-OFDM Systems via Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2022, 71, 12315-12320.	6.3	1
99	APPROACHES FOR BLIND SEPARATION OF SOURCES BASED ON MULTIVARIATE DENSITY ESTIMATION. Journal of Circuits, Systems and Computers, 1999, 09, 243-253.	1.5	0
100	A cross-reference method of parameter estimation and noise reduction and its applications. Journal of Electronics, 1999, 16, 238-243.	0.2	0
101	A WAVELET-BASED BLIND DECONVOLUTION ALGORITHM FOR ULTRASONIC IMAGE PROCESSING. Journal of Circuits, Systems and Computers, 2005, 14, 15-26.	1.5	0
102	Missing equilibrium points of blind separation H-J network. , 0, , .		0
103	Joint beamforming with space-time block coding for multi-antenna communications. , 2007, , .		0
104	Joint beamforming with space-time block coding for multi-antenna communications. , 2007, , .		0
105	Non-Outage Probability of Jamming-Assisted Continuous Eavesdropping With Multi-Antenna. IEEE Communications Letters, 2022, 26, 1236-1239.	4.1	0
106	Intelligent Passive Eavesdropping in Massive MIMO-OFDM Systems via Reinforcement Learning. IEEE Wireless Communications Letters, 2022, 11, 1248-1252.	5.0	0