Lixin Li

List of Publications by Year
in descending order

121 papers	1,408 citations	430874 18 h-index	454955 30 g-index
124 all docs	124 docs citations	124 times ranked	1445 citing authors

#	ARTICLE	IF	CITATIONS
1	Data-Driven Transportation Network Company Vehicle Scheduling With Users' Location Differential Privacy Preservation. IEEE Transactions on Mobile Computing, 2023, 22, 813-823.	5.8	7
2	Enhance pore structure of cyanobacteria-based porous carbon by polypropylene to improve adsorption capacity of methylene blue. Bioresource Technology, 2022, 343, 126101.	9.6	34
3	Understanding the synergistic mechanism of PAM-FeCl3 for improved sludge dewaterability. Journal of Environmental Management, 2022, 301, 113926.	7.8	20
4	Colonization of biofilm in wastewater treatment: A review. Environmental Pollution, 2022, 293, 118514.	7.5	26
5	Toward Energy-Efficient Multiple IRSs: Federated Learning-Based Configuration Optimization. IEEE Transactions on Green Communications and Networking, 2022, 6, 755-765.	5.5	9
6	Mean-Field-Game-Based Dynamic Task Pricing in Mobile Crowdsensing. IEEE Internet of Things Journal, 2022, 9, 18098-18112.	8.7	3
7	Modeling and Analysis of Opinion Dynamics in Social Networks Using Multiple-Population Mean Field Games. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 301-316.	2.8	7
8	A review on mycelial pellets as biological carriers: Wastewater treatment and recovery for resource and energy. Bioresource Technology, 2022, 355, 127200.	9.6	34
9	A novel strategy to improve the flame retardancy and electrical conductivity of polymethyl methacrylate by controlling the configuration of phosphorus-containing polyaniline@needle coke with magnetic field. Chemical Engineering Journal, 2022, 448, 137642.	12.7	4
10	Grouped Federated Learning: A Decentralized Learning Framework with Low Latency for Heterogeneous Devices. , 2022, , .		2
11	FLIGHT: Federated Learning with IRS for Grouped Heterogeneous Training. Journal of Communications and Information Networks, 2022, 7, 135-144.	5.2	3
12	Automatic Modulation Recognition: A Few-Shot Learning Method Based on the Capsule Network. IEEE Wireless Communications Letters, 2021, 10, 474-477.	5.0	38
13	Co-pyrolysis of cyanobacteria and plastics to synthesize porous carbon and its application in methylene blue adsorption. Journal of Water Process Engineering, 2021, 39, 101753.	5.6	22
14	Learning-Aided Resource Allocation for Pattern Division Multiple Access-Based SWIPT Systems. IEEE Wireless Communications Letters, 2021, 10, 131-135.	5.0	6
15	Resource Allocation for NOMA-MEC Systems in Ultra-Dense Networks: A Learning Aided Mean-Field Game Approach. IEEE Transactions on Wireless Communications, 2021, 20, 1487-1500.	9.2	42
16	Optimal trajectory and downlink power control for multi-type UAV aerial base stations. Chinese Journal of Aeronautics, 2021, 34, 11-23.	5.3	11
17	Cooperative Lossy Communications in Unmanned Aerial Vehicle Networks: Age-of-Information With Outage Probability. IEEE Transactions on Vehicular Technology, 2021, 70, 10105-10120.	6.3	6
18	Delay Optimization in Multi-UAV Edge Caching Networks: A Robust Mean Field Game. IEEE Transactions on Vehicular Technology, 2021, 70, 808-819.	6.3	23

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19	A Comprehensive Review of One-stage Networks for Object Detection. , 2021, , .		10
20	Fabrication of multifunctional polymethyl methacrylate composites based on phosphorusâ€containing polyaniline with excellent flame retardancy and electrical conductivity. Polymers for Advanced Technologies, 2021, 32, 1680-1689.	3.2	7
21	A Survey of Mean Field Game Applications in Wireless Networks. Wireless Networks, 2021, , 61-82.	0.5	2
22	UAV Position Optimization Based on Information Freshness: A Mean Field Game Approach. , 2021, , .		2
23	Reflection Coefficients Optimization in IRS-assisted Communication: An Evolutionary Game Approach. , 2021, , .		0
24	Enabling Efficient Scheduling Policy in Intelligent Reflecting Surface Aided Federated Learning. , 2021, , .		0
25	Deep Reinforcement Learning Approaches for Content Caching in Cache-Enabled D2D Networks. IEEE Internet of Things Journal, 2020, 7, 544-557.	8.7	83
26	Mean-Field-Type Game-Based Computation Offloading in Multi-Access Edge Computing Networks. IEEE Transactions on Wireless Communications, 2020, 19, 8366-8381.	9.2	16
27	The adsorption mechanisms of algae-bacteria symbiotic system and its fast formation process. Bioresource Technology, 2020, 315, 123854.	9.6	24
28	Belief and Opinion Evolution in Social Networks Based on a Multi-Population Mean Field Game Approach. , 2020, , .		11
29	Content Caching Policy Based on GAN and Distributional Reinforcement Learning. , 2020, , .		2
30	Efficient Resource Allocation for NOMA-MEC System in Ultra-Dense Network: A Mean Field Game Approach. , 2020, , .		8
31	Distributed Rate Optimization for Intelligent Reflecting Surface with Federated Learning. , 2020, , .		28
32	No One Left Behind: Avoid Hot Car Deaths via WiFi Detection. , 2020, , .		3
33	Joint Trajectory and Power Optimization in Multi-Type UAVs Network with Mean Field Q-Learning. , 2020, , .		6
34	A Comprehensive Review of the Mycelial Pellet: Research Status, Applications, and Future Prospects. Industrial & Engineering Chemistry Research, 2020, 59, 16911-16922.	3.7	22
35	Deep learning based physical layer security of D2D underlay cellular network. China Communications, 2020, 17, 93-106.	3.2	16
36	Security Provisioning for Non-Orthogonal Multiple Access Networks With Limited Feedback. IEEE Wireless Communications Letters, 2020, 9, 1226-1229.	5.0	3

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37	Millimeter-Wave Networking in the Sky: A Machine Learning and Mean Field Game Approach for Joint Beamforming and Beam-Steering. IEEE Transactions on Wireless Communications, 2020, 19, 6393-6408.	9.2	37
38	Utilization of cigarette butt waste as functional carbon precursor for supercapacitors and adsorbents. Journal of Cleaner Production, 2020, 256, 120326.	9.3	61
39	Quantum Cyclic Controlled Teleportation of Unknown States with Arbitrary Number of Qubits by Using Seven-qubit Entangled Channel. International Journal of Theoretical Physics, 2020, 59, 1017-1030.	1.2	16
40	AI-Aided Downlink Interference Control in Dense Interference-Aware Drone Small Cells Networks. IEEE Access, 2020, 8, 15110-15122.	4.2	10
41	Downlink Transmit Power Control in Ultra-Dense UAV Network Based on Mean Field Game and Deep Reinforcement Learning. IEEE Transactions on Vehicular Technology, 2020, 69, 15594-15605.	6.3	38
42	Enhanced reconfigurable intelligent surface assisted mmWave communication: A federated learning approach. China Communications, 2020, 17, 115-128.	3.2	31
43	Spectrum Sharing Scheme for Multi-UAVs Relay Network Based on Matching Theory. Lecture Notes in Computer Science, 2019, , 84-92.	1.3	0
44	Latency Optimization for Multi-user NOMA-MEC Offloading Using Reinforcement Learning. , 2019, , .		30
45	Machine Learning-Based Hybrid Precoding with Robust Error for UAV mmWave Massive MIMO. , 2019, , .		17
46	A Mean-Field-Type Game Approach to Computation Offloading in Mobile Edge Computing Networks. , 2019, , .		10
47	Diversity and distribution of nirS-type denitrifiers as a biological indicator in response to environmental gradients in the eutrophied Haizhou Bay, China. Environmental Pollutants and Bioavailability, 2019, 31, 182-188.	3.0	1
48	Continuous hydrogen and methane production from the treatment of herbal medicines wastewater in the two-phase â€˜UASBH-ICMâ€™ system. Water Science and Technology, 2019, 80, 1134-1144.	2.5	5
49	Inhomogeneous Multi-UAV Aerial Base Stations Deployment: A Mean-Field-Type Game Approach. , 2019, , .		7
50	Wireless Powered D2D Communication Security Using LSTM in Emergency Communication System. , 2019, , .		3
51	Minimization of Offloading Delay for Two-Tier UAV with Mobile Edge Computing. , 2019, , .		25
52	Position Prediction Based Fast Beam Tracking Scheme for Multi-User UAV-mmWave Communications. , 2019, , .		20
53	Machine Learning-Based Spectrum Efficiency Hybrid Precoding With Lens Array and Low-Resolution ADCs. IEEE Access, 2019, 7, 117986-117996.	4.2	16
54	Hybrid Precoding for Beamspace MIMO Systems With Sub-Connected Switches: A Machine Learning Approach. IEEE Access, 2019, 7, 143273-143281.	4.2	12

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55	Distributed Sequential Coalition Formation Algorithm for Spectrum Allocation in Underlay Cognitive Radio Networks. IEEE Access, 2019, 7, 56803-56816.	4.2	13
56	A QoE-Oriented Scheduling Scheme for Energy-Efficient Computation Offloading in UAV Cloud System. IEEE Access, 2019, 7, 68656-68668.	4.2	26
57	Spectral- and Energy-Efficiency of Multi-Pair Two-Way Massive MIMO Relay Systems Experiencing Channel Aging. IEEE Access, 2019, 7, 46014-46032.	4.2	10
58	Multi-UAV Delay Optimization in Edge Caching Networks: A Mean Field Game Approach. , 2019, , .		9
59	Content Caching Policy for 5G Network Based on Asynchronous Advantage Actor-Critic Method. , 2019, , .		6
60	Balancing Energy Efficiency and Hit Ratio in Social-Aware Caching: A Cross Layer Approach. , 2019, , .		1
61	Resource Allocation in Blockchain System Based on Mobile Edge Computing Networks. , 2019, , .		3
62	Beam-Steering Optimization in Multi-UAVs mmWave Networks: A Mean Field Game Approach. , 2019, , .		10
63	Learning Spectral and Spatial Features Based on Generative Adversarial Network for Hyperspectral Image Super-Resolution. , 2019, , .		10
64	Cooperative Secondary Encryption for Primary Privacy Preserving in Cognitive Radio Networks. IEEE Access, 2019, 7, 160573-160585.	4.2	3
65	Overlapped Sub-Array Based Hybrid Precoding for mmWave Massive MIMO System with Lens Arrays. , 2019, , .		1
66	Energy-efficient Hybrid Precoding for Beamspace MIMO Systems with Lens Array. , 2019, , .		3
67	A Prediction-Based Charging Policy and Interference Mitigation Approach in the Wireless Powered Internet of Things. IEEE Journal on Selected Areas in Communications, 2019, 37, 439-451.	14.0	76
68	A Discrete-Time Mean Field Game in Multi-UAV Wireless Communication Systems. , 2018, , .		11
69	An Efficient Two-User Multicast Pushing Policy for Cache Hit Ratio Maximization. , 2018, , .		0
70	Dynamic Spectrum Access in Cognitive Radio Networks Using Deep Reinforcement Learning and Evolutionary Game. , 2018, , .		24
71	A Dynamic Power Allocation Scheme in Power-Domain NOMA using Actor-Critic Reinforcement Learning. , 2018, , .		12
72	JOINT CONTENT POPULARITY PREDICTION AND CONTENT DELIVERY POLICY FOR CACHE-ENABLED D2D NETWORKS: A DEEP REINFORCEMENT LEARNING APPROACH. , 2018, , .		10

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73	A Contract-Based Incentive Mechanism in RF-Powered Backscatter Cognitive Radio Networks. , 2018, , .		3
74	Optimal Transmit Antenna Selection Strategy for MIMO Wiretap Channel Based on Deep Reinforcement Learning. , 2018, , .		10
75	Auction-Based Users Dynamic Allocation in Heterogeneous Networks. , 2018, , .		2
76	Performance analysis of two-way relay system based on ambient backscatter. , 2018, , .		5
77	A Clustering Method Based on the Average Interference Threshold for mMIMO-HetNet. , 2018, , .		0
78	Matching-Based Resource Allocation and Distributed Power Control Using Mean Field Game in the NOMA-Based UAV Networks. , 2018, , .		9
79	Downlink Interference Management in Dense Drone Small Cells Networks Using Mean-Field Game Theory. , 2018, , .		11
80	A new Pansharpening Method with Multi-Scale Structure Perception. , 2018, , .		1
81	Adaptive Coverage Solution In Multi-UAVs Emergency Communication System: A Discrete-Time Mean-Field Game. , 2018, , .		17
82	Joint Optimization Scheme for Spectrum Leasing in Cognitive Radio Networks. , 2018, , .		1
83	Reliability Measurement Based Transmission Scheme for Wireless Sensor Network. , 2018, , .		0
84	Pansharpening Based on Joint Gaussian Guided Upsampling. , 2018, , .		4
85	High Throughput Parallel Concatenated Encoding and Decoding for Polar Codes: Design, Implementation and Performance Analysis. , 2018, , .		1
86	Precoding Design for Drone Small Cells Cluster Network with Massive MIMO: A Game Theoretical Approach. , 2018, , .		2
87	Energy Efficient Hybrid Precoding for Cooperative Multicell Multiuser Massive MIMO Systems with Multiple Base Station Association. , 2018, , .		1
88	Weighted sum-rate maximization for cooperative multiceli multiuser massive MIMO systems based on discretized Pareto boundary approximation. , 2018, , .		1
89	A prediction-based coordination caching scheme for content centric networking. , 2018, , .		18
90	BP Network Control for Resource Allocation and QoS Ensurance in UAV Cloud. Journal of Sensors, 2018, 2018, 1-14.	1.1	4

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91	Optimal secrecy throughput and efficient energy harvesting for SWIPT system. , 2018, , .		1
92	A new pansharpening method using multistage joint bilateral filtering. , 2018, , .		0
93	An Interdigital Electrode Probe for Detection, Localization and Evaluation of Surface Notch-Type Damage in Metals. Sensors, 2018, 18, 371.	3.8	7
94	The Establishment and Characteristics of Dominant Syntrophic Propionate Oxidation Bacteria and Sulfate-Reducing Bacteria in a Mixed Culture. Chemical Engineering Communications, 2017, 204, 926-936.	2.6	2
95	Liquid Marble Coalescence and Triggered Microreaction Driven by Acoustic Levitation. Langmuir, 2017, 33, 6232-6239.	3.5	77
96	Cascade selfâ€tuning control architecture for QoSâ€aware MAC in WSN. IET Wireless Sensor Systems, 2017, 7, 146-154.	1.7	4
97	Sub-array based hybrid precoding design for downlink millimeter-wave multi-user massive MIMO systems. , 2017, , .		6
98	Secrecy sum rate maximization in NOMA systems with wireless information and power transfer. , 2017, , .		20
99	High throughput parallel encoding and decoding architecture for polar codes. , 2017, , .		2
100	Simultaneous wireless information and power transfer for cognitive two-path successive relaying networks. , 2017, , .		0
101	Multilevel polar-coded modulation based on cooperative relaying. , 2017, , .		4
102	Performance of multiple access CSK communication system with DF cooperative strategy. Automatic Control and Computer Sciences, 2016, 50, 244-252.	0.8	0
103	Denoise-and-Forward Two-Path Successive Relaying with DBPSK Modulation. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	10
104	Full-duplex denoise-and-forward two-way relaying with DBPSK modulation. , 2016, , .		4
105	Energy-Efficient Cooperative Network Coding With Joint Relay Scheduling and Power Allocation. IEEE Transactions on Communications, 2016, 64, 4506-4519.	7.8	27
106	On the energy efficiency in multi-user multi-relay coded network. , 2016, , .		0
107	Production of a novel bioflocculant and its flocculation performance in aluminum removal. Bioengineered, 2016, 7, 98-105.	3.2	9
108	Two-way relaying with non-coherent differential MPSK modulation. , 2015, , .		4

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109	Performances analysis of polar codes decoding algorithms over variant binary-input channels. , 2015, , .		1
110	Two-way relaying with differential MPSK modulation in virtual full duplexing system. , 2015, , .		4
111	Research Progress and Development Trend of Mycelial Pellets. Advance Journal of Food Science and Technology, 2015, 8, 554-558.	0.1	2
112	Introduction of Compound Bioflocculant and Its Application in Water Treatment. Advance Journal of Food Science and Technology, 2015, 9, 695-700.	0.1	5
113	The improved Turbo-decoding Message-passing algorithm and corresponding decoder for LDPC based on LTE. , 2014, , .		2
114	A new LDPC-COFDM scheme in cooperative communication system. , 2013, , .		1
115	Performance analysis of QC-LDPC construction based on distance graph. , 2013, , .		1
116	Study on Effective Protocol Design for MANET. , 2009, , .		0
117	A New Method on Effective Protocol Design for Multi-Hop Wireless Network. , 2009, , .		0
118	A New Approach to Designing Protocol of MANET. , 2009, , .		0
119	Research on Designing and Implementing an Experimental MANET Testbed. , 2009, , .		2
120	A novel effective protocol design for wireless ad hoc networks. , 2009, , .		0
121	Preparation of a novel inorganic-biological composite flocculant for the removal of turbidity and organic matter in the surface water. , 0, 180, 219-226.		5