

Lixin Li

List of Publications by Year in descending order

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Version: 2024-02-01

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	Deep Reinforcement Learning Approaches for Content Caching in Cache-Enabled D2D Networks. IEEE Internet of Things Journal, 2020, 7, 544-557.	8.7	83
2	Liquid Marble Coalescence and Triggered Microreaction Driven by Acoustic Levitation. Langmuir, 2017, 33, 6232-6239.	3.5	77
3	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
4	Utilization of cigarette butt waste as functional carbon precursor for supercapacitors and adsorbents. Journal of Cleaner Production, 2020, 256, 120326.	9.3	61
5	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
6	Automatic Modulation Recognition: A Few-Shot Learning Method Based on the Capsule Network. IEEE Wireless Communications Letters, 2021, 10, 474-477.	5.0	38
7	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
8	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
9	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
10	A review on mycelial pellets as biological carriers: Wastewater treatment and recovery for resource and energy. Bioresource Technology, 2022, 355, 127200.	9.6	34
11	Enhanced reconfigurable intelligent surface assisted mmWave communication: A federated learning approach. China Communications, 2020, 17, 115-128.	3.2	31
12	Latency Optimization for Multi-user NOMA-MEC Offloading Using Reinforcement Learning. , 2019, , .		30
13	Distributed Rate Optimization for Intelligent Reflecting Surface with Federated Learning. , 2020, , .		28
14	Energy-Efficient Cooperative Network Coding With Joint Relay Scheduling and Power Allocation. IEEE Transactions on Communications, 2016, 64, 4506-4519.	7.8	27
15	A QoE-Oriented Scheduling Scheme for Energy-Efficient Computation Offloading in UAV Cloud System. IEEE Access, 2019, 7, 68656-68668.	4.2	26
16	Colonization of biofilm in wastewater treatment: A review. Environmental Pollution, 2022, 293, 118514.	7.5	26
17	Minimization of Offloading Delay for Two-Tier UAV with Mobile Edge Computing. , 2019, , .		25
18	Dynamic Spectrum Access in Cognitive Radio Networks Using Deep Reinforcement Learning and Evolutionary Game. , 2018, , .		24

#	ARTICLE	IF	CITATIONS
19	The adsorption mechanisms of algae-bacteria symbiotic system and its fast formation process. <i>Bioresource Technology</i> , 2020, 315, 123854.	9.6	24
20	Delay Optimization in Multi-UAV Edge Caching Networks: A Robust Mean Field Game. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 808-819.	6.3	23
21	A Comprehensive Review of the Mycelial Pellet: Research Status, Applications, and Future Prospects. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16911-16922.	3.7	22
22	Co-pyrolysis of cyanobacteria and plastics to synthesize porous carbon and its application in methylene blue adsorption. <i>Journal of Water Process Engineering</i> , 2021, 39, 101753.	5.6	22
23	Secrecy sum rate maximization in NOMA systems with wireless information and power transfer. , 2017, , .		20
24	Position Prediction Based Fast Beam Tracking Scheme for Multi-User UAV-mmWave Communications. , 2019, , .		20
25	Understanding the synergistic mechanism of PAM-FeCl ₃ for improved sludge dewaterability. <i>Journal of Environmental Management</i> , 2022, 301, 113926.	7.8	20
26	A prediction-based coordination caching scheme for content centric networking. , 2018, , .		18
27	Adaptive Coverage Solution In Multi-UAVs Emergency Communication System: A Discrete-Time Mean-Field Game. , 2018, , .		17
28	Machine Learning-Based Hybrid Precoding with Robust Error for UAV mmWave Massive MIMO. , 2019, , .		17
29	Machine Learning-Based Spectrum Efficiency Hybrid Precoding With Lens Array and Low-Resolution ADCs. <i>IEEE Access</i> , 2019, 7, 117986-117996.	4.2	16
30	Mean-Field-Type Game-Based Computation Offloading in Multi-Access Edge Computing Networks. <i>IEEE Transactions on Wireless Communications</i> , 2020, 19, 8366-8381.	9.2	16
31	Deep learning based physical layer security of D2D underlay cellular network. <i>China Communications</i> , 2020, 17, 93-106.	3.2	16
32	Quantum Cyclic Controlled Teleportation of Unknown States with Arbitrary Number of Qubits by Using Seven-qubit Entangled Channel. <i>International Journal of Theoretical Physics</i> , 2020, 59, 1017-1030.	1.2	16
33	Distributed Sequential Coalition Formation Algorithm for Spectrum Allocation in Underlay Cognitive Radio Networks. <i>IEEE Access</i> , 2019, 7, 56803-56816.	4.2	13
34	A Dynamic Power Allocation Scheme in Power-Domain NOMA using Actor-Critic Reinforcement Learning. , 2018, , .		12
35	Hybrid Precoding for BeamSpace MIMO Systems With Sub-Connected Switches: A Machine Learning Approach. <i>IEEE Access</i> , 2019, 7, 143273-143281.	4.2	12
36	A Discrete-Time Mean Field Game in Multi-UAV Wireless Communication Systems. , 2018, , .		11

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37	Downlink Interference Management in Dense Drone Small Cells Networks Using Mean-Field Game Theory. , 2018, , .		11
38	Belief and Opinion Evolution in Social Networks Based on a Multi-Population Mean Field Game Approach. , 2020, , .		11
39	Optimal trajectory and downlink power control for multi-type UAV aerial base stations. Chinese Journal of Aeronautics, 2021, 34, 11-23.	5.3	11
40	Denoise-and-Forward Two-Path Successive Relaying with DBPSK Modulation. IEEE Wireless Communications Letters, 2016, , 1-1.	5.0	10
41	JOINT CONTENT POPULARITY PREDICTION AND CONTENT DELIVERY POLICY FOR CACHE-ENABLED D2D NETWORKS: A DEEP REINFORCEMENT LEARNING APPROACH. , 2018, , .		10
42	Optimal Transmit Antenna Selection Strategy for MIMO Wiretap Channel Based on Deep Reinforcement Learning. , 2018, , .		10
43	A Mean-Field-Type Game Approach to Computation Offloading in Mobile Edge Computing Networks. , 2019, , .		10
44	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
45	Beam-Steering Optimization in Multi-UAVs mmWave Networks: A Mean Field Game Approach. , 2019, , .		10
46	Learning Spectral and Spatial Features Based on Generative Adversarial Network for Hyperspectral Image Super-Resolution. , 2019, , .		10
47	AI-Aided Downlink Interference Control in Dense Interference-Aware Drone Small Cells Networks. IEEE Access, 2020, 8, 15110-15122.	4.2	10
48	A Comprehensive Review of One-stage Networks for Object Detection. , 2021, , .		10
49	Production of a novel biofloculant and its flocculation performance in aluminum removal. Bioengineered, 2016, 7, 98-105.	3.2	9
50	Matching-Based Resource Allocation and Distributed Power Control Using Mean Field Game in the NOMA-Based UAV Networks. , 2018, , .		9
51	Multi-UAV Delay Optimization in Edge Caching Networks: A Mean Field Game Approach. , 2019, , .		9
52	Toward Energy-Efficient Multiple IRSs: Federated Learning-Based Configuration Optimization. IEEE Transactions on Green Communications and Networking, 2022, 6, 755-765.	5.5	9
53	Efficient Resource Allocation for NOMA-MEC System in Ultra-Dense Network: A Mean Field Game Approach. , 2020, , .		8
54	An Interdigital Electrode Probe for Detection, Localization and Evaluation of Surface Notch-Type Damage in Metals. Sensors, 2018, 18, 371.	3.8	7

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55	Inhomogeneous Multi-UAV Aerial Base Stations Deployment: A Mean-Field-Type Game Approach. , 2019, , .		7
56	Data-Driven Transportation Network Company Vehicle Scheduling With Usersâ€™ Location Differential Privacy Preservation. IEEE Transactions on Mobile Computing, 2023, 22, 813-823.	5.8	7
57	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
58	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
59	Sub-array based hybrid precoding design for downlink millimeter-wave multi-user massive MIMO systems. , 2017, , .		6
60	Content Caching Policy for 5G Network Based on Asynchronous Advantage Actor-Critic Method. , 2019, , .		6
61	Joint Trajectory and Power Optimization in Multi-Type UAVs Network with Mean Field Q-Learning. , 2020, , .		6
62	Learning-Aided Resource Allocation for Pattern Division Multiple Access-Based SWIPT Systems. IEEE Wireless Communications Letters, 2021, 10, 131-135.	5.0	6
63	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
64	Introduction of Compound Biofloculant and Its Application in Water Treatment. Advance Journal of Food Science and Technology, 2015, 9, 695-700.	0.1	5
65	Performance analysis of two-way relay system based on ambient backscatter. , 2018, , .		5
66	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
67	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
68	Two-way relaying with non-coherent differential MPSK modulation. , 2015, , .		4
69	Two-way relaying with differential MPSK modulation in virtual full duplexing system. , 2015, , .		4
70	Full-duplex denoise-and-forward two-way relaying with DBPSK modulation. , 2016, , .		4
71	Cascade self-tuning control architecture for QoS-aware MAC in WSN. IET Wireless Sensor Systems, 2017, 7, 146-154.	1.7	4
72	Multilevel polar-coded modulation based on cooperative relaying. , 2017, , .		4

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73	Pansharpener Based on Joint Gaussian Guided Upsampling. , 2018, , .		4
74	BP Network Control for Resource Allocation and QoS Ensurance in UAV Cloud. Journal of Sensors, 2018, 2018, 1-14.	1.1	4
75	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
76	A Contract-Based Incentive Mechanism in RF-Powered Backscatter Cognitive Radio Networks. , 2018, , .		3
77	Wireless Powered D2D Communication Security Using LSTM in Emergency Communication System. , 2019, , .		3
78	Resource Allocation in Blockchain System Based on Mobile Edge Computing Networks. , 2019, , .		3
79	Cooperative Secondary Encryption for Primary Privacy Preserving in Cognitive Radio Networks. IEEE Access, 2019, 7, 160573-160585.	4.2	3
80	Energy-efficient Hybrid Precoding for BeamSpace MIMO Systems with Lens Array. , 2019, , .		3
81	No One Left Behind: Avoid Hot Car Deaths via WiFi Detection. , 2020, , .		3
82	Security Provisioning for Non-Orthogonal Multiple Access Networks With Limited Feedback. IEEE Wireless Communications Letters, 2020, 9, 1226-1229.	5.0	3
83	Mean-Field-Game-Based Dynamic Task Pricing in Mobile Crowdsensing. IEEE Internet of Things Journal, 2022, 9, 18098-18112.	8.7	3
84	FLIGHT: Federated Learning with IRS for Grouped Heterogeneous Training. Journal of Communications and Information Networks, 2022, 7, 135-144.	5.2	3
85	Research on Designing and Implementing an Experimental MANET Testbed. , 2009, , .		2
86	The improved Turbo-decoding Message-passing algorithm and corresponding decoder for LDPC based on LTE. , 2014, , .		2
87	Research Progress and Development Trend of Mycelial Pellets. Advance Journal of Food Science and Technology, 2015, 8, 554-558.	0.1	2
88	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
89	High throughput parallel encoding and decoding architecture for polar codes. , 2017, , .		2
90	Auction-Based Users Dynamic Allocation in Heterogeneous Networks. , 2018, , .		2

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91	Precoding Design for Drone Small Cells Cluster Network with Massive MIMO: A Game Theoretical Approach. , 2018, , .		2
92	Content Caching Policy Based on GAN and Distributional Reinforcement Learning. , 2020, , .		2
93	A Survey of Mean Field Game Applications in Wireless Networks. Wireless Networks, 2021, , 61-82.	0.5	2
94	UAV Position Optimization Based on Information Freshness: A Mean Field Game Approach. , 2021, , .		2
95	Grouped Federated Learning: A Decentralized Learning Framework with Low Latency for Heterogeneous Devices. , 2022, , .		2
96	A new LDPC-COFDM scheme in cooperative communication system. , 2013, , .		1
97	Performance analysis of QC-LDPC construction based on distance graph. , 2013, , .		1
98	Performances analysis of polar codes decoding algorithms over variant binary-input channels. , 2015, , .		1
99	A new Pansharping Method with Multi-Scale Structure Perception. , 2018, , .		1
100	Joint Optimization Scheme for Spectrum Leasing in Cognitive Radio Networks. , 2018, , .		1
101	High Throughput Parallel Concatenated Encoding and Decoding for Polar Codes: Design, Implementation and Performance Analysis. , 2018, , .		1
102	Energy Efficient Hybrid Precoding for Cooperative Multicell Multiuser Massive MIMO Systems with Multiple Base Station Association. , 2018, , .		1
103	Weighted sum-rate maximization for cooperative multiceli multiuser massive MIMO systems based on discretized Pareto boundary approximation. , 2018, , .		1
104	Optimal secrecy throughput and efficient energy harvesting for SWIPT system. , 2018, , .		1
105	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
106	Balancing Energy Efficiency and Hit Ratio in Social-Aware Caching: A Cross Layer Approach. , 2019, , .		1
107	Overlapped Sub-Array Based Hybrid Precoding for mmWave Massive MIMO System with Lens Arrays. , 2019, , .		1
108	Study on Effective Protocol Design for MANET. , 2009, , .		0

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109	A New Method on Effective Protocol Design for Multi-Hop Wireless Network. , 2009, , .		0
110	A New Approach to Designing Protocol of MANET. , 2009, , .		0
111	A novel effective protocol design for wireless ad hoc networks. , 2009, , .		0
112	Performance of multiple access CSK communication system with DF cooperative strategy. Automatic Control and Computer Sciences, 2016, 50, 244-252.	0.8	0
113	On the energy efficiency in multi-user multi-relay coded network. , 2016, , .		0
114	Simultaneous wireless information and power transfer for cognitive two-path successive relaying networks. , 2017, , .		0
115	An Efficient Two-User Multicast Pushing Policy for Cache Hit Ratio Maximization. , 2018, , .		0
116	A Clustering Method Based on the Average Interference Threshold for mMIMO-HetNet. , 2018, , .		0
117	Reliability Measurement Based Transmission Scheme for Wireless Sensor Network. , 2018, , .		0
118	A new pansharpening method using multistage joint bilateral filtering. , 2018, , .		0
119	Spectrum Sharing Scheme for Multi-UAVs Relay Network Based on Matching Theory. Lecture Notes in Computer Science, 2019, , 84-92.	1.3	0
120	Reflection Coefficients Optimization in IRS-assisted Communication: An Evolutionary Game Approach. , 2021, , .		0
121	Enabling Efficient Scheduling Policy in Intelligent Reflecting Surface Aided Federated Learning. , 2021, , .		0