

# Lin Chen

## List of Publications by Year in descending order

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153  
papers

2,940  
citations

218677

26  
h-index

214800

47  
g-index

153  
all docs

153  
docs citations

153  
times ranked

3135  
citing authors

#	ARTICLE	IF	CITATIONS
1	Routing Metrics of Cognitive Radio Networks: A Survey. IEEE Communications Surveys and Tutorials, 2014, 16, 92-109.	39.4	292
2	Induced maize salt tolerance by rhizosphere inoculation of <i>Bacillus amyloliquefaciens</i> SQR9. Physiologia Plantarum, 2016, 158, 34-44.	5.2	208
3	A Silicon-Based 3-D Hybrid Long-Range Plasmonic Waveguide for Nanophotonic Integration. Journal of Lightwave Technology, 2012, 30, 163-168.	4.6	119
4	A Game Theoretical Framework on Intrusion Detection in Heterogeneous Networks. IEEE Transactions on Information Forensics and Security, 2009, 4, 165-178.	6.9	107
5	Joint Operator Pricing and Network Selection Game in Cognitive Radio Networks: Equilibrium, System Dynamics and Price of Anarchy. IEEE Transactions on Vehicular Technology, 2013, 62, 4576-4589.	6.3	104
6	Identification of Root-Secreted Compounds Involved in the Communication Between Cucumber, the Beneficial <i>Bacillus amyloliquefaciens</i> , and the Soil-Borne Pathogen <i>Fusarium oxysporum</i> . Molecular Plant-Microbe Interactions, 2017, 30, 53-62.	2.6	90
7	Novel hybrid plasmonic waveguide consisting of two identical dielectric nanowires symmetrically placed on each side of a thin metal film. Optics Express, 2012, 20, 20535.	3.4	88
8	Beneficial Rhizobacterium <i>Bacillus amyloliquefaciens</i> SQR9 Induces Plant Salt Tolerance through Spermidine Production. Molecular Plant-Microbe Interactions, 2017, 30, 423-432.	2.6	61
9	A distributed demand-side management framework for the smart grid. Computer Communications, 2015, 57, 13-24.	5.1	60
10	On Optimality of Myopic Policy for Restless Multi-Armed Bandit Problem: An Axiomatic Approach. IEEE Transactions on Signal Processing, 2012, 60, 300-309.	5.3	58
11	An Auction Framework for Spectrum Allocation with Interference Constraint in Cognitive Radio Networks. , 2010, , .		56
12	Joint Multiuser DNN Partitioning and Computational Resource Allocation for Collaborative Edge Intelligence. IEEE Internet of Things Journal, 2021, 8, 9511-9522.	8.7	53
13	An Efficient Auction-based Mechanism for Mobile Data Offloading. IEEE Transactions on Mobile Computing, 2015, 14, 1573-1586.	5.8	50
14	On heterogeneous neighbor discovery in wireless sensor networks. , 2015, , .		47
15	Pricing Mobile Data Offloading: A Distributed Market Framework. IEEE Transactions on Wireless Communications, 2016, 15, 913-927.	9.2	46
16	Defeating Jamming With the Power of Silence: A Game-Theoretic Analysis. IEEE Transactions on Wireless Communications, 2015, 14, 2337-2352.	9.2	45
17	A Distributed Access Point Selection Algorithm Based on No-Regret Learning for Wireless Access Networks. , 2010, , .		44
18	Finding Needles in a Haystack: Missing Tag Detection in Large RFID Systems. IEEE Transactions on Communications, 2017, 65, 2036-2047.	7.8	44

#	ARTICLE	IF	CITATIONS
19	A group-theoretic framework for rendezvous in heterogeneous cognitive radio networks. , 2014, , .		42
20	On Efficient Tree-Based Tag Search in Large-Scale RFID Systems. IEEE/ACM Transactions on Networking, 2019, 27, 42-55.	3.8	41
21	Thwarting Intelligent Malicious Behaviors in Cooperative Spectrum Sensing. IEEE Transactions on Mobile Computing, 2015, 14, 2392-2405.	5.8	36
22	Charge me if you can. , 2016, , .		36
23	Missing Tag Identification in COTS RFID Systems: Bridging the Gap between Theory and Practice. IEEE Transactions on Mobile Computing, 2020, 19, 130-141.	5.8	36
24	On Oblivious Neighbor Discovery in Distributed Wireless Networks With Directional Antennas: Theoretical Foundation and Algorithm Design. IEEE/ACM Transactions on Networking, 2017, 25, 1982-1993.	3.8	34
25	On Missing Tag Detection in Multiple-Group Multiple-Region RFID Systems. IEEE Transactions on Mobile Computing, 2017, 16, 1371-1381.	5.8	34
26	Neighbor discovery in mobile sensing applications: A comprehensive survey. Ad Hoc Networks, 2016, 48, 38-52.	5.5	33
27	Enabling Privacy in a Distributed Game-Theoretical Scheduling System for Domestic Appliances. IEEE Transactions on Smart Grid, 2017, 8, 1220-1230.	9.0	33
28	Fight jamming with jamming – A game theoretic analysis of jamming attack in wireless networks and defense strategy. Computer Networks, 2011, 55, 2259-2270.	5.1	31
29	Addressing the Hidden Terminal Problem for Heterogeneous Coexistence Between TDM and CSMA Networks in White Space. IEEE Transactions on Vehicular Technology, 2014, 63, 4450-4463.	6.3	31
30	Bacillus velezensis CLA178-Induced Systemic Resistance of Rosa multiflora Against Crown Gall Disease. Frontiers in Microbiology, 2020, 11, 587667.	3.5	30
31	Joint Offloading and Charge Cost Minimization in Mobile Edge Computing. IEEE Open Journal of the Communications Society, 2020, 1, 205-216.	6.9	29
32	Reading between lines. , 2015, , .		26
33	Secure cooperative spectrum sensing and access against intelligent malicious behaviors. , 2014, , .		25
34	Oblivious neighbor discovery for wireless devices with directional antennas. , 2016, , .		25
35	Conflicts and Incentives in Wireless Cooperative Relaying: A Distributed Market Pricing Framework. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 758-772.	5.6	24
36	Opportunistic Spectrum Access by Exploiting Primary User Feedbacks in Underlay Cognitive Radio Systems: An Optimality Analysis. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 869-882.	10.8	23

#	ARTICLE	IF	CITATIONS
37	A power scheduling game for reducing the peak demand of residential users. , 2013, , .		23
38	On Optimality of Myopic Policy for Opportunistic Access With Nonidentical Channels and Imperfect Sensing. IEEE Transactions on Vehicular Technology, 2014, 63, 2478-2483.	6.3	23
39	Efficient and Truthful Bandwidth Allocation in Wireless Mesh Community Networks. IEEE/ACM Transactions on Networking, 2015, 23, 161-174.	3.8	23
40	Opportunistic Spectrum Access with Channel Switching Cost for Cognitive Radio Networks. , 2011, , .		22
41	A Game Theoretical Analysis of Data Confidentiality Attacks on Smart-Grid AMI. IEEE Journal on Selected Areas in Communications, 2014, 32, 1486-1499.	14.0	22
42	Auditing a Cloud Provider's Compliance With Data Backup Requirements: A Game Theoretical Analysis. IEEE Transactions on Information Forensics and Security, 2016, 11, 1685-1699.	6.9	22
43	Multi-Seed Group Labeling in RFID Systems. IEEE Transactions on Mobile Computing, 2020, 19, 2850-2862.	5.8	22
44	Differentially private user-based collaborative filtering recommendation based on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e297" altimg="si4.svg" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -means clustering. Expert Systems With Applications, 2021, 168, 114366.	7.6	22
45	High Efficiency and Broadband Two-Dimensional Blazed Grating Coupler With Fully Etched Triangular Holes. Journal of Lightwave Technology, 2012, 30, 2363-2366.	4.6	21
46	Stabilizing Frame Slotted Aloha-Based IoT Systems: A Geometric Ergodicity Perspective. IEEE Journal on Selected Areas in Communications, 2021, 39, 714-725.	14.0	21
47	Maximum Target Coverage Problem in Mobile Wireless Sensor Networks. Sensors, 2021, 21, 184.	3.8	20
48	Optimality of greedy policy for a class of standard reward function of restless multi-armed bandit problem. IET Signal Processing, 2012, 6, 584.	1.5	19
49	Characterization of Uncultured Genome Fragment from Soil Metagenomic Library Exposed Rare Mismatch of Internal Tetranucleotide Frequency. Frontiers in Microbiology, 2016, 7, 2081.	3.5	19
50	On Optimality of Myopic Sensing Policy with Imperfect Sensing in Multi-Channel Opportunistic Access. IEEE Transactions on Communications, 2013, 61, 3854-3862.	7.8	18
51	Competitive location in cognitive radio networks. 4or, 2015, 13, 81-110.	1.6	18
52	Flat Band Slow Light With High Coupling Efficiency in One-Dimensional Grating Waveguides. IEEE Photonics Technology Letters, 2012, 24, 7-9.	2.5	17
53	Stability Analysis of Frame Slotted Aloha Protocol. IEEE Transactions on Mobile Computing, 2017, 16, 1462-1474.	5.8	17
54	The Component Diagnosability of Hypercubes with Large-Scale Faulty Nodes. Computer Journal, 2022, 65, 1129-1143.	2.4	16

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55	First Report of <i>Colletotrichum aenigma</i> Causing Walnut Anthracnose in China. <i>Plant Disease</i> , 2021, 105, 225.	1.4	15
56	Optimality of Myopic Policy for Multistate Channel Access. <i>IEEE Communications Letters</i> , 2016, 20, 300-303.	4.1	14
57	Never Live Without Neighbors: From Single- to Multi-Channel Neighbor Discovery for Mobile Sensing Applications. <i>IEEE/ACM Transactions on Networking</i> , 2016, 24, 3148-3161.	3.8	14
58	On Optimality of Myopic Policy in Opportunistic Spectrum Access: The Case of Sensing Multiple Channels and Accessing One Channel. <i>IEEE Wireless Communications Letters</i> , 2012, 1, 452-455.	5.0	13
59	An efficient directional coupling from dielectric waveguide to hybrid long-range plasmonic waveguide on a silicon platform. <i>Applied Physics B: Lasers and Optics</i> , 2013, 111, 15-19.	2.2	13
60	Myopic policy for opportunistic access in cognitive radio networks by exploiting primary user feedbacks. <i>IET Communications</i> , 2015, 9, 1017-1025.	2.2	12
61	Characterization of extracellular polymeric substances of <i>Bacillus amyloliquefaciens</i> SQR9 induced by root exudates of cucumber. <i>Journal of Basic Microbiology</i> , 2016, 56, 1183-1193.	3.3	12
62	Time-efficient cooperative spectrum sensing via analog computation over multiple-access channel. <i>Computer Networks</i> , 2017, 112, 84-94.	5.1	12
63	<i>Bacillus velezensis</i> tolerance to the induced oxidative stress in root colonization contributed by the two-component regulatory system sensor <i>ResE</i> . <i>Plant, Cell and Environment</i> , 2021, 44, 3094-3102.	5.7	12
64	Opportunistic forwarding in energy harvesting mobile delay tolerant networks. , 2014, , .		11
65	ITSEC: An information-theoretically secure framework for truthful spectrum auctions. , 2015, , .		11
66	Proportional and double imitation rules for spectrum access in cognitive radio networks. <i>Computer Networks</i> , 2013, 57, 1863-1879.	5.1	10
67	Multi-channel Broadcast via Channel Hopping in Cognitive Radio Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2014, , 1-1.	6.3	10
68	On Privacy-Preserving Cloud Auction. , 2016, , .		10
69	Distance-Based Energy-Efficient Opportunistic Broadcast Forwarding in Mobile Delay-Tolerant Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 5512-5524.	6.3	10
70	One Step Beyond Myopic Probing Policy: A Heuristic Lookahead Policy for Multi-Channel Opportunistic Access. <i>IEEE Transactions on Wireless Communications</i> , 2015, 14, 759-769.	9.2	9
71	Multi-layer based multi-path routing algorithm for maximizing spectrum availability. <i>Wireless Networks</i> , 2018, 24, 897-909.	3.0	9
72	Optimizing average-maximum TTR trade-off for cognitive radio rendezvous. , 2015, , .		8

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73	On Optimality of Myopic Policy in Multi-Channel Opportunistic Access. IEEE Transactions on Communications, 2017, 65, 677-690.	7.8	8
74	Contribution of macrolactin in Bacillus velezensis CLA178 to the antagonistic activities against Agrobacterium tumefaciens C58. Archives of Microbiology, 2021, 203, 1743-1752.	2.2	8
75	Spectrum auction with interference constraint for cognitive radio networks with multiple primary and secondary users. Wireless Networks, 2011, 17, 1355-1371.	3.0	7
76	High-speed rainbow trapping and release by mechanical approaches in the terahertz regime. Journal of Modern Optics, 2012, 59, 686-692.	1.3	7
77	Green Cooperative Cognitive Communication and Networking: A New Paradigm for Wireless Networks. Mobile Networks and Applications, 2013, 18, 524-534.	3.3	7
78	Ecology-Based Coexistence Mechanism in Heterogeneous Cognitive Radio Networks. , 2015, , .		7
79	Localized and Moderate Phosphorus Application Improves Plant Growth and Phosphorus Accumulation in Rosa multiflora Thunb. ex Murr. via Efficient Root System Development. Forests, 2020, 11, 570.	2.1	7
80	Joint time delay and energy optimization with intelligent overclocking in edge computing. Science China Information Sciences, 2020, 63, 1.	4.3	7
81	Heterogeneous multi-channel neighbor discovery formobile sensing applications. , 2014, , .		6
82	Data Integrity and Availability Verification Game in Untrusted Cloud Storage. Lecture Notes in Computer Science, 2014, , 287-306.	1.3	6
83	TapLock: Exploit finger tap events for enhancing attack resilience of smartphone passwords. , 2015, , .		6
84	On optimality of myopic policy in multi-channel opportunistic access. , 2016, , .		6
85	Distributed Spectrum Management in TV White Space Networks. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	6
86	On Time-Constrained Data Harvesting in Wireless Sensor Networks: Approximation Algorithm Design. IEEE/ACM Transactions on Networking, 2016, 24, 3123-3135.	3.8	6
87	DSP-based indirect rotor field oriented control for multiphase induction machines. , 0, , .		5
88	A rollout-based joint spectrum sensing and access policy for cognitive radio networks with hardware limitations. , 2012, , .		5
89	Imitation-based spectrum access policy for CSMA/CA-based cognitive radio networks. , 2012, , .		5
90	Distance-based energy-efficient opportunistic forwarding in mobile delay tolerant networks. , 2014, , .		5

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91	A Novel CoMAC-based cooperative spectrum sensing scheme in cognitive radio networks. , 2015, , .		5
92	Relay Selection for Multi-Channel Cooperative Multicast: Lexicographic Maxâ€“Min Optimization. IEEE Transactions on Communications, 2018, 66, 959-971.	7.8	5
93	On Optimality of Second-Highest Policy for Opportunistic Multichannel Access. IEEE Transactions on Vehicular Technology, 2018, 67, 12013-12024.	6.3	5
94	A novel hydrogel for highly efficient adsorption of Cu(II): synthesis, characterization, and mechanisms. Environmental Science and Pollution Research, 2020, 27, 26621-26630.	5.3	5
95	Time-constrained data harvesting in WSNs: Theoretical foundation and algorithm design. , 2015, , .		4
96	A Game-Theoretical Model for Security Risk Management of Interdependent ICT and Electrical Infrastructures. , 2015, , .		4
97	Sustainable Green Networking and Computing in 5G Systems. IEEE Wireless Communications, 2017, 24, 12-13.	9.0	4
98	Dyadobacter luteus sp. nov., isolated from rose rhizosphere soil. Archives of Microbiology, 2020, 202, 191-196.	2.2	4
99	Reduced Root Secretion of Valine in <i>Rosa</i> â€™s Microbe Interaction Contributes to the Decreased Colonization of Pathogenic <i>Agrobacterium tumefaciens</i> . Plant Disease, 2021, 105, 599-606.	1.4	4
100	An integrated cross-layer framework of adaptive FEedback REsource allocation and Prediction for OFDMA systems. Computer Networks, 2012, 56, 1863-1875.	5.1	3
101	A distributed market framework for mobile data offloading. , 2015, , .		3
102	Joint spectrum sensing and access for stable dynamic spectrum aggregation. Eurasip Journal on Wireless Communications and Networking, 2015, 2015, .	2.4	3
103	Adaptive frequency hopping in industrial Wireless Sensor Networks: A decision-theoretic framework. , 2015, , .		3
104	The Telephone Coordination Game Revisited: From Random to Deterministic Algorithms. IEEE Transactions on Computers, 2015, 64, 2968-2980.	3.4	3
105	Dynamic Mobile Charger Scheduling in Heterogeneous Wireless Sensor Networks. , 2015, , .		3
106	Skolem Sequence Based Self-Adaptive Broadcast Protocol in Cognitive Radio Networks. , 2016, , .		3
107	Survey on coexistence of heterogeneous wireless networks in 2.4â€‰GHz and TV white spaces. International Journal of Distributed Sensor Networks, 2017, 13, 155014771770396.	2.2	3
108	Multichannel Broadcast in Duty-Cycling WBANs via Channel Hopping. IEEE Internet of Things Journal, 2017, 4, 2351-2361.	8.7	3

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109	Toward Multiple-Phase MDP Model for Charging Station Recommendation. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 10583-10595.	8.0	3
110	Differentially Private Combinatorial Cloud Auction. IEEE Transactions on Cloud Computing, 2023, 11, 412-425.	4.4	3
111	VQ-CSMA: Throughput-Optimal Low-Delay Random Access. IEEE Wireless Communications Letters, 2022, 11, 1303-1307.	5.0	3
112	Assessing Variations in Water Use Efficiency and Linkages with Land-Use Changes Using Three Different Data Sources: A Case Study of the Yellow River, China. Remote Sensing, 2022, 14, 1065.	4.0	3
113	Charging Path Optimization in Mobile Networks. IEEE/ACM Transactions on Networking, 2022, 30, 2262-2273.	3.8	3
114	Hierarchical reversible data hiding based on statistical information: Preventing embedding unbalance. Signal Processing, 2012, 92, 2888-2900.	3.7	2
115	Towards secure spectrum auction. , 2016, , .		2
116	Opportunistic Scheduling Revisited Using Restless Bandits: Indexability and Index Policy. IEEE Transactions on Wireless Communications, 2019, 18, 4997-5010.	9.2	2
117	On Fast and Reliable Missing Event Detection Protocol for Multitagged RFID Systems. IEEE Internet of Things Journal, 2020, 7, 10324-10335.	8.7	2
118	Sequential Resource Access: Theory and Algorithm. , 2021, , .		2
119	Downlink Transmission Scheduling With Data Sharing. IEEE/ACM Transactions on Networking, 2022, 30, 1193-1202.	3.8	2
120	From Spectrum Bonding to Contiguous-Resource Batching Task Scheduling. IEEE/ACM Transactions on Networking, 2022, 30, 1245-1254.	3.8	2
121	Revisiting RFID Missing Tag Identification. , 2022, , .		2
122	Imitation-based spectrum access policy for cognitive radio networks. , 2012, , .		1
123	Editorial for the Special Issue: Green Cognitive and Cooperative Communication and Networking. Mobile Networks and Applications, 2013, 18, 521-523.	3.3	1
124	On the cascading spectrum contention problem in self-coexistence of cognitive radio networks. , 2013, , .		1
125	Retrospective spectrum access protocol: A payoff-based learning algorithm for cognitive radio networks. , 2014, , .		1
126	Stability analysis of Frame Slotted Aloha protocol. , 2015, , .		1



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127	A Methodology to Apply a Game Theoretic Model of Security Risks Interdependencies Between ICT and Electric Infrastructures. Lecture Notes in Computer Science, 2016, , 159-171.	1.3	1
128	On-demand ecology-inspired spectrum allocation mechanism for heterogeneous cognitive radio networks. Telecommunication Systems, 2017, 66, 589-601.	2.5	1
129	Moderate Incentive Design for Delay-Constrained Device-to-Device Relaying. Mobile Networks and Applications, 2017, 22, 577-588.	3.3	1
130	Opportunistic Multichannel Access with Imperfect Observation: A Fixed Point Analysis on Indexability and Index-based Policy. , 2018, , .		1
131	Finding Persistent Items using Invertible Bloom Lookup Table. , 2019, , .		1
132	Etoram: A More Efficient ORAM for Secure Computation. IEEE Open Journal of the Computer Society, 2020, 1, 285-294.	7.8	1
133	Joint Beamforming and Phase-Shifting Optimization in MISO with RIS-Assisted Communication. , 2020, , .		1
134	The early transcriptional responses in rose induced by <i>Bacillus velezensis</i> CLA178 and <i>Agrobacterium tumefaciens</i> C58. Journal of Phytopathology, 2021, 169, 73-82.	1.0	1
135	Computation-Communication Tradeoffs for Missing Multitagged Item Detection in RFID Networks. IEEE Internet of Things Journal, 2022, 9, 1252-1264.	8.7	1
136	Multiset Membership Lookup in Large Datasets. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 4947-4958.	5.7	1
137	Energy Efficient Scheduling for Delay-Constrained Spectrum Aggregation. , 2016, , .		1
138	Optimal Myopic Policy for Restless Bandit: A Perspective of Eigendecomposition. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 420-433.	10.8	1
139	Numerical simulation on novel nano-scale lateral double-gate tunneling field effect transistor. , 2010, , .		0
140	A multi-armed bandit formulation for distributed appliances scheduling in smart grids. , 2014, , .		0
141	Ecology-Based Coexistence Mechanism in Heterogeneous Cognitive Radio Networks. , 2014, , .		0
142	Dynamic Mobile Charger Scheduling in Heterogeneous Wireless Sensor Networks. , 2015, , .		0
143	Distributed Demand-Side Management in Smart Grid: How Imitation improves power scheduling. , 2015, , .		0
144	Mirror-image-based disjoint multi-paths routing algorithm for maximizing communication efficiency. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	0

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145	Enabling Symbiotic Coexistence of Heterogeneous Cognitive Radio Networks. , 2018, , .		0
146	Study on Splash of Oil Droplets Colliding with Wall in Engine Crankcase. , 2019, , .		0
147	Whittle Index Policy for Opportunistic Scheduling: Heterogeneous Two-State Channels. , 2021, , 37-77.		0
148	Myopic Policy for Opportunistic Scheduling: Homogeneous Multistate Channels. , 2021, , 79-107.		0
149	Myopic Policy for Opportunistic Scheduling: Homogeneous Two-State Channels. , 2021, , 9-36.		0
150	Cognitive Networking for Next-G Wireless Communications. International Journal of Distributed Sensor Networks, 2016, 12, 9172605.	2.2	0
151	Managing Security Risks Interdependencies Between ICT and Electric Infrastructures: A Game Theoretical Analysis. Static and Dynamic Game Theory: Foundations and Applications, 2018, , 223-250.	0.6	0
152	Multi-channel opportunistic spectrum access: A mixed-scale decision perspective. Computer Communications, 2022, 184, 118-127.	5.1	0
153	Deterministic Collision-resilient Channel Rendezvous: Theory and Algorithm. IEEE Transactions on Wireless Communications, 2022, , 1-1.	9.2	0