He Chen

List of Publications by Year
in descending order

109 papers	3,660 citations	172457 29 h-index	149698 56 g-index
111 all docs	111 docs citations	111 times ranked	3306 citing authors

#	Article	IF	Citations
1	Design and Implementation of Time-Sensitive Wireless IoT Networks on Software-Defined Radio. IEEE Internet of Things Journal, 2022, 9, 2361-2374.	8.7	6
2	Optimizing Information Freshness via Multiuser Scheduling With Adaptive NOMA/OMA. IEEE Transactions on Wireless Communications, 2022, 21, 1766-1778.	9.2	17
3	Partially Observable Minimum-Age Scheduling: The Greedy Policy. IEEE Transactions on Communications, 2022, 70, 404-418.	7.8	8
4	Optimizing Information Freshness in Two-Hop Status Update Systems Under a Resource Constraint. IEEE Journal on Selected Areas in Communications, 2021, 39, 1380-1392.	14.0	25
5	Constellation Design for Noncoherent Massive SIMO Systems in URLLC Applications. IEEE Transactions on Communications, 2021, 69, 4387-4401.	7.8	5
6	Flow Sampling: Network Monitoring in Large-Scale Software-Defined IoT Networks. IEEE Transactions on Communications, 2021, 69, 6120-6133.	7.8	2
7	Optimizing Information Freshness for Cooperative IoT Systems With Stochastic Arrivals. IEEE Internet of Things Journal, 2021, 8, 14485-14500.	8.7	15
8	Beam Allocation for Millimeter-Wave MIMO Tracking Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 1595-1611.	6.3	8
9	Minimizing Age of Information via Hybrid NOMA/OMA. , 2020, , .		25
10	On the Age of Information for Multicast Transmission with Hard Deadlines in IoT Systems. , 2020, , .		3
11	Age-of-Information Dependent Random Access for Massive IoT Networks. , 2020, , .		67
12	Minimizing the Age of Information of Cognitive Radio-Based IoT Systems Under a Collision Constraint. IEEE Transactions on Wireless Communications, 2020, 19, 8054-8067.	9.2	41
13	Physical Layer Authentication for Non-Coherent Massive SIMO-Enabled Industrial IoT Communications. IEEE Transactions on Information Forensics and Security, 2020, 15, 3722-3733.	6.9	35
14	Age of Information for Multicast Transmission With Fixed and Random Deadlines in IoT Systems. IEEE Internet of Things Journal, 2020, 7, 8178-8191.	8.7	38
15	Physical Layer Authentication for Non-coherent Massive SIMO-Based Industrial IoT Communications. , 2020, , .		4
16	Age of Aggregated Information: Timely Status Update with Over-The-Air Computation. , 2020, , .		4
17	Age-Oriented Opportunistic Relaying in Cooperative Status Update Systems with Stochastic Arrivals. , 2020, , .		6
18	Software-Defined Radio Implementation of Age-of-Information-Oriented Random Access. , 2020, , .		10

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19	Age-of-Information-based Scheduling in Multiuser Uplinks with Stochastic Arrivals: A POMDP Approach. , 2020, , .		15
20	Noncoherent and Non-orthogonal Massive SIMO for Critical Industrial IoT Communications. , 2019, , .		9
21	Minimizing Age of Information in Cognitive Radio-Based IoT Systems: Underlay or Overlay?. IEEE Internet of Things Journal, 2019, 6, 10273-10288.	8.7	58
22	Timely Status Update in Internet of Things Monitoring Systems: An Age-Energy Tradeoff. IEEE Internet of Things Journal, 2019, 6, 5324-5335.	8.7	132
23	Signal Design for AF Relay Systems Using Superposition Coding and Finite-Alphabet Inputs. , 2019, , .		0
24	On the Age of Information of Short-Packet Communications with Packet Management. , 2019, , .		44
25	Recent Advances in Machine Learning-based Anomaly Detection for Industrial Control Networks. , 2019, , .		10
26	Minimizing Age of Information for Real-Time Monitoring in Resource-Constrained Industrial IoT Networks. , 2019, , .		20
27	Cognitive Relaying With Wireless Powered Primary User. IEEE Transactions on Communications, 2019, 67, 1872-1884.	7.8	12
28	Energy-Efficient and Low-Latency Massive SIMO Using Noncoherent ML Detection for Industrial IoT Communications. IEEE Internet of Things Journal, 2019, 6, 6247-6261.	8.7	28
29	Average SEP-Optimal Precoding for Correlated Massive MIMO With ZF Detection: An Asymptotic Analysis. IEEE Transactions on Communications, 2019, 67, 2807-2821.	7.8	3
30	Incentive Mechanism Design for Wireless Energy Harvesting-Based Internet of Things. IEEE Internet of Things Journal, 2018, 5, 2620-2632.	8.7	75
31	Short-Packet Two-Way Amplify-and-Forward Relaying. IEEE Signal Processing Letters, 2018, 25, 263-267.	3.6	23
32	Antenna Selection for MIMO Nonorthogonal Multiple Access Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 3158-3171.	6.3	51
33	Wireless Powered Cooperative Communication Using Two Relays: Protocol Design and Performance Analysis. IEEE Transactions on Vehicular Technology, 2018, 67, 3598-3611.	6.3	13
34	On the Performance of Non-Orthogonal Multiple Access in Short-Packet Communications. IEEE Communications Letters, 2018, 22, 590-593.	4.1	136
35	Ultra-Reliable Short-Packet Communications: Half-Duplex or Full-Duplex Relaying?. IEEE Wireless Communications Letters, 2018, 7, 348-351.	5.0	75
36	Accumulate Then Transmit: Multiuser Scheduling in Full-Duplex Wireless-Powered IoT Systems. IEEE Internet of Things Journal, 2018, 5, 2753-2767.	8.7	39

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37	Distributed Multi-Relay Selection in Accumulate-Then-Forward Energy Harvesting Relay Networks. IEEE Transactions on Green Communications and Networking, 2018, 2, 74-86.	5.5	66
38	Beam-On-Graph: Simultaneous Channel Estimation for mmWave MIMO Systems With Multiple Users. IEEE Transactions on Communications, 2018, 66, 2931-2946.	7.8	17
39	Cooperative Strategies for Wireless-Powered Communications: An Overview. IEEE Wireless Communications, 2018, 25, 112-119.	9.0	45
40	Socially Aware Caching Strategy in Device-to-Device Communication Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 4615-4629.	6.3	51
41	Opportunistic Spectrum Sharing With Wireless Energy Transfer in Stochastic Networks. IEEE Transactions on Communications, 2018, 66, 1296-1308.	7.8	24
42	Low Latency mmWave Backhaul via Traffic Dispersion. , 2018, , .		3
43	Multiuser MIMO Short-Packet Communications: Time-Sharing or Zero-Forcing Beamforming?. , 2018, , .		6
44	Ultra-Reliable Low Latency Cellular Networks: Use Cases, Challenges and Approaches. IEEE Communications Magazine, 2018, 56, 119-125.	6.1	229
45	Improving Physical Layer Security via a UAV Friendly Jammer for Unknown Eavesdropper Location. IEEE Transactions on Vehicular Technology, 2018, 67, 11280-11284.	6.3	129
46	Uplink Non-Orthogonal Multiple Access With Finite-Alphabet Inputs. IEEE Transactions on Wireless Communications, 2018, 17, 5743-5758.	9.2	26
47	Training Beam Sequence Optimization for Millimeter Wave MIMO Tracking Systems. , 2018, , .		12
48	A Probe-then-Refine Beam Tracking Algorithm for Millimeter Wave MISO Systems. , 2018, , .		8
49	Joint Beamwidth and Energy Optimization for Multi-User Millimeter Wave Communications. , 2018, , .		5
50	On the performance of multi-tier heterogeneous cellular networks with idle mode capability. , 2018, , .		1
51	Wireless Information Surveillance and Intervention Over Multiple Suspicious Links. IEEE Signal Processing Letters, 2018, 25, 1131-1135.	3.6	38
52	Fullâ€duplex OFDMA multiâ€user cellular systems: resource allocation and user pairing. Transactions on Emerging Telecommunications Technologies, 2017, 28, e3005.	3.9	2
53	Maxâ€“Min Weighted Downlink SINR With Uplink SINR Constraints for Full-Duplex MIMO Systems. IEEE Transactions on Signal Processing, 2017, 65, 3277-3292.	5.3	7
54	Joint Rate Control and Power Allocation for Non-Orthogonal Multiple Access Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2798-2811.	14.0	55

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55	Full-duplex cooperative cognitive radio networks with wireless energy harvesting. , 2017, , .		13
56	A contract-based incentive mechanism for energy harvesting-based Internet of Things. , 2017, , .		18
57	On Non-Orthogonal Multiple Access With Finite-Alphabet Inputs in Z-Channels. IEEE Journal on Selected Areas in Communications, 2017, 35, 2829-2845.	14.0	20
58	Decode-and-forward two-path successive relaying with wireless energy harvesting. , 2017, , .		5
59	Millimeter Wave MIMO Channel Estimation Using Overlapped Beam Patterns and Rate Adaptation. IEEE Transactions on Signal Processing, 2017, 65, 601-616.	5.3	94
60	Secrecy outage probability and jamming coverage of UAV-enabled friendly jammer. , 2017, , .		20
61	Antenna Selection in MIMO Cognitive Radio-Inspired NOMA Systems. IEEE Communications Letters, 2017, 21, 2658-2661.	4.1	41
62	Multi-user scheduling in full-duplex wireless-powered communications with energy accumulation. , 2017, , .		1
63	Antenna selection for MIMO-NOMA networks. , 2017, , .		26
64	Underlay spectrum sharing with spatially random users and cooperative wireless power transfer. , 2017, , .		0
65	Underlay spectrum sharing with wireless power transfer towards primary user. , 2017, , .		3
66	Fountain code-inspired channel estimation for multi-user millimeter wave MIMO systems. , 2017, , .		3
67	Multi-cell coordination via disjoint clustering in dense millimeter wave cellular networks. , 2017, , .		4
68	Wireless-Powered Two-Way Relaying via a Multi-Antenna Relay with Energy Beamforming. , 2017, , .		1
69	Multi-channel EEG Classification Based on Fast Convolutional Feature Extraction. Lecture Notes in Computer Science, 2017, , 533-540.	1.3	5
70	A Low-Complexity Transceiver Design in Sparse Multipath Massive MIMO Channels. IEEE Signal Processing Letters, 2016, 23, 1301-1305.	3.6	5
71	Socially Aware Distributed Caching in Device-to-Device Communication Networks. , 2016, , .		7
72	Incremental Accumulate-then-Forward Relaying in Wireless Energy Harvesting Cooperative Networks. , 2016, , .		13

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73	Switching delay aware computing resource allocation in virtualized Base Station. China Communications, 2016, 13, 226-233.	3.2	1
74	RACE: A Rate Adaptive Channel Estimation Approach for Millimeter Wave MIMO Systems. , 2016, , .		11
75	Wireless-Powered Two-Way Relaying with Power Splitting-Based Energy Accumulation. , 2016, , .		4
76	Towards secure communication via a wireless-powered full-duplex jammer. , 2016, , .		1
77	Accumulate and Jam: Towards Secure Communication via A Wireless-Powered Full-Duplex Jammer. IEEE Journal on Selected Topics in Signal Processing, 2016, 10, 1538-1550.	10.8	66
78	Pricing and Resource Allocation via Game Theory for a Small-Cell Video Caching System. IEEE Journal on Selected Areas in Communications, 2016, 34, 2115-2129.	14.0	140
79	Distributed Power Control in Interference Channels With QoS Constraints and RF Energy Harvesting: A Game-Theoretic Approach. IEEE Transactions on Vehicular Technology, 2016, 65, 10063-10069.	6.3	21
80	On the Performance of Multi-antenna Wireless-Powered Communications With Energy Beamforming. IEEE Transactions on Vehicular Technology, 2016, 65, 1801-1808.	6.3	94
81	A Discrete Time-Switching Protocol for Wireless-Powered Communications with Energy Accumulation. , 2015, , .		10
82	A stackelberg game-based energy trading scheme for power beacon-assisted wireless-powered communication. , 2015, , .		22
83	Throughput analysis of wireless-powered communications with energy beamforming and adaptive time switching. , 2015, , .		1
84	Harvest-Then-Cooperate: Wireless-Powered Cooperative Communications. IEEE Transactions on Signal Processing, 2015, 63, 1700-1711.	5.3	370
85	Residential Load Scheduling in Smart Grid: A Cost Efficiency Perspective. IEEE Transactions on Smart Grid, 2015, , 1-1.	9.0	78
86	Distributed resource allocation for power beacon-assisted wireless-powered communications. , 2015, , .		9
87	Distributed and Optimal Resource Allocation for Power Beacon-Assisted Wireless-Powered Communications. IEEE Transactions on Communications, 2015, 63, 3569-3583.	7.8	74
88	An adaptive transmission protocol for wireless-powered cooperative communications. , 2015, , .		27
89	Distributed power splitting for SWIPT in relay interference channels using game theory. IEEE Transactions on Wireless Communications, 2015, 14, 410-420.	9.2	201
90	A game-theoretical model for wireless information and power transfer in relay interference channels. , 2014, , .		10

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91	Wireless-powered cooperative communications via a hybrid relay. , 2014, , .		24
92	Autonomous Demand Side Management Based on Energy Consumption Scheduling and Instantaneous Load Billing: An Aggregative Game Approach. IEEE Transactions on Smart Grid, 2014, 5, 1744-1754.	9.0	196
93	A Discrete Time-Switching Protocol for Wireless-Powered Communications with Energy Accumulation. , 2014, , .		0
94	Downlink performance of cooperative distributed antenna systems over Nakagami-m fading channels in multi-cell environment. , 2013, , .		0
95	Uplink throughput of multi-cell processing with HDAF cooperation between mobiles. , 2013, , .		0
96	Optimization for Outage Probability Constrained Robust Downlink Collaborative Beamforming. , 2012, , .		1
97	Multiple interpretations for multi-source multi-destination wireless relay network coded systems. , 2012, , .		12
98	Maximise lifetime of wireless sensor networks via a distributed cooperative routing algorithm. Transactions on Emerging Telecommunications Technologies, 2012, 23, 414-428.	3.9	25
99	Robust Peer-to-Peer Collaborative-Relay Beamforming with Ellipsoidal CSI Uncertainties. IEEE Communications Letters, 2012, 16, 442-445.	4.1	22
100	Link-Utility-Based Cooperative MAC Protocol for Wireless Multi-Hop Networks. IEEE Transactions on Wireless Communications, 2011, 10, 995-1005.	9.2	40
101	Downlink performance analysis of distributed antenna systems. , 2011, , .		6
102	Outage probability constrained robust downlink collaborative beamforming. , 2011, , .		1
103	Exact Capacity Analysis of Partial Relay Selection Under Outdated CSI Over Rayleigh Fading Channels. IEEE Transactions on Vehicular Technology, 2011, 60, 4014-4018.	6.3	30
104	Performances Analysis of Multiuser Relay Networks Based on Outdated Channel State Information. Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology, 2011, 33, 2564-2568.	0.1	0
105	An Improved Selection Cooperation Scheme for Decode-and-Forward Relaying. IEEE Communications Letters, 2010, 14, 1143-1145.	4.1	18
106	Performance Analysis of SNR-Based Hybrid Decode-Amplify-Forward Cooperative Diversity Networks over Rayleigh Fading Channels. , 2010, , .		31
107	Approximate SEP Analysis for DF Cooperative Networks With Opportunistic Relaying. IEEE Signal Processing Letters, 2010, 17, 779-782.	3.6	34
108	New power allocation schemes for AF cooperative communication over Nakagami-m fading channels. , 2009, , .		1

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109	Performance of incremental-selective decode-and-forward relaying cooperative communications over Rayleigh fading channels. , 2009, , .		14