

# Jian Jiao

## List of Publications by Year in descending order

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100  
papers

837  
citations

623734

14  
h-index

642732

23  
g-index

100  
all docs

100  
docs citations

100  
times ranked

549  
citing authors

#	ARTICLE	IF	CITATIONS
1	Network Utility Maximization Resource Allocation for NOMA in Satellite-Based Internet of Things. IEEE Internet of Things Journal, 2020, 7, 3230-3242.	8.7	71
2	Integration of Reed-Solomon codes to lcklider transmission protocol (LTP) for space DTN. IEEE Aerospace and Electronic Systems Magazine, 2017, 32, 48-55.	1.3	42
3	Outage Analysis of Multirelay Multiuser Hybrid Satellite-Terrestrial Millimeter-Wave Networks. IEEE Wireless Communications Letters, 2018, 7, 1046-1049.	5.0	42
4	Deep Learning-Based Long-Term Power Allocation Scheme for NOMA Downlink System in S-IoT. IEEE Access, 2019, 7, 86288-86296.	4.2	40
5	Age-Optimal HARQ Design for Freshness-Critical Satellite-IoT Systems. IEEE Internet of Things Journal, 2020, 7, 2066-2076.	8.7	36
6	Packets interleaving CCSDS file delivery protocol in deep space communication. IEEE Aerospace and Electronic Systems Magazine, 2011, 26, 5-11.	1.3	23
7	Finite Block-Length Analog Fountain Codes for Ultra-Reliable Low Latency Communications. IEEE Transactions on Communications, 2020, 68, 1391-1404.	7.8	22
8	ARMA-Based Adaptive Coding Transmission Over Millimeter-Wave Channel for Integrated Satellite-Terrestrial Networks. IEEE Access, 2018, 6, 21635-21645.	4.2	21
9	Performance Modeling of LTP-HARQ Schemes Over OSTBC-MIMO Channels for Hybrid Satellite Terrestrial Networks. IEEE Access, 2018, 6, 5256-5268.	4.2	20
10	Unequal Access Latency Random Access Protocol for Massive Machine-Type Communications. IEEE Transactions on Wireless Communications, 2020, 19, 5924-5937.	9.2	19
11	Superimposed Pilot Code-Domain NOMA Scheme for Satellite-Based Internet of Things. IEEE Systems Journal, 2021, 15, 2732-2743.	4.6	17
12	Distributed Rateless Codes with Unequal Error Protection Property for Space Information Networks. Entropy, 2017, 19, 38.	2.2	15
13	Improved Polar SCL Decoding by Exploiting the Error Correction Capability of CRC. IEEE Access, 2019, 7, 7032-7040.	4.2	15
14	Exploiting Error-Correction-CRC for Polar SCL Decoding: A Deep Learning-Based Approach. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 817-828.	7.9	15
15	Modeling Disruption Tolerance Mechanisms for a Heterogeneous 5G Network. IEEE Access, 2018, 6, 25836-25848.	4.2	14
16	An Age Optimized Hybrid ARQ Scheme for Polar Codes via Gaussian Approximation. IEEE Wireless Communications Letters, 2021, 10, 2235-2239.	5.0	14
17	Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. IEEE Internet of Things Journal, 2021, 8, 14773-14786.	8.7	14
18	Fairness-improved and QoS-guaranteed resource allocation for NOMA-based S-IoT network. Science China Information Sciences, 2021, 64, 1.	4.3	13

#	ARTICLE	IF	CITATIONS
19	Bounds on the Reliability of RaptorQ Codes in the Finite-Length Regime. IEEE Access, 2017, 5, 24766-24774.	4.2	12
20	Design and analysis of novel Ka band NOMA uplink relay system for Lunar farside exploration. China Communications, 2020, 17, 1-14.	3.2	12
21	Joint Channel Estimation and Decoding for Polar Coded SCMA System Over Fading Channels. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 210-221.	7.9	12
22	Energy Efficient Network Coding HARQ Transmission Scheme for S-IoT. IEEE Transactions on Green Communications and Networking, 2021, 5, 308-321.	5.5	12
23	MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. IEEE Internet of Things Journal, 2021, 8, 17403-17416.	8.7	12
24	Network-coded rateless coding scheme in erasure multiple-access relay enable communications. IET Communications, 2014, 8, 537-545.	2.2	11
25	A novel systematic raptor network coding scheme for Mars-to-Earth relay communications. , 2016, , .		11
26	Low Complexity Decoding for Spinal Codes: Sliding Feedback Decoding. , 2017, , .		11
27	ARM: Adaptive Random-Selected Multi-Beamforming Estimation Scheme for Satellite-Based Internet of Things. IEEE Access, 2019, 7, 63264-63276.	4.2	11
28	Age-Optimal NC-HARQ Protocol for Multi-hop Satellite-based Internet of Things. , 2021, , .		11
29	Age-Optimal Transmission Policy With HARQ for Freshness-Critical Vehicular Status Updates in Space-Air-Ground-Integrated Networks. IEEE Internet of Things Journal, 2022, 9, 5719-5729.	8.7	11
30	Construction of Polar Codes Concatenated to Space-Time Block Coding in MIMO System. , 2016, , .		10
31	A Novel Weight Coefficient PEG Algorithm for Ultra-Reliable Short Length Analog Fountain Codes. IEEE Wireless Communications Letters, 2019, 8, 125-128.	5.0	10
32	Age-Oriented Transmission Protocol Design in Space-Air-Ground Integrated Networks. IEEE Transactions on Wireless Communications, 2022, 21, 5573-5585.	9.2	10
33	CFDP-based two-hop relaying protocol over weather-dependent Ka-band space channel. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 1357-1374.	4.7	9
34	An Efficient Rateless Scheme Based on the Extendibility of Systematic Polar Codes. IEEE Access, 2017, 5, 23223-23232.	4.2	9
35	High Performance Short Polar Codes: A Concatenation Scheme Using Spinal Codes as the Outer Code. IEEE Access, 2018, 6, 70644-70654.	4.2	9
36	Performance Analysis of Uplink Uncoordinated Code-Domain NOMA for SINS. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
37	Performance Analysis of Millimeter-Wave Hybrid Satellite-Terrestrial Relay Networks Over Rain Fading Channel. , 2018, , .		8
38	Joint Power Allocation and Rate Control for NOMA-Based Space Information Networks. , 2019, , .		8
39	High-Performance Distributed Compressive Video Sensing: Jointly Exploiting the HEVC Motion Estimation and the $\hat{a}$ Reconstruction. IEEE Access, 2020, 8, 31306-31316.	4.2	8
40	Grant Free Age-Optimal Random Access Protocol for Satellite-Based Internet of Things. IEEE Transactions on Communications, 2022, 70, 3947-3961.	7.8	8
41	Rateless coding transmission over multi-state fading erasure channel for SATCOM. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	7
42	A Novel High-Rate Polar-Staircase Coding Scheme. , 2018, , .		7
43	Age-Optimal Multi-Slot Pilot Allocation Random Access Protocol for S-IoT. , 2021, , .		7
44	Age-Optimal Power Allocation Scheme for NOMA-based S-IoT Downlink Network. , 2021, , .		7
45	Outage Performance of Millimeter-Wave Band NOMA Downlink System in Satellite-based IoT. , 2019, , .		6
46	Self-Adaptive Ordered Statistics Decoder for Finite Block Length Raptor Codes Toward URLLC. IEEE Internet of Things Journal, 2022, 9, 3282-3297.	8.7	6
47	Age-Optimal Network Coding HARQ Transmission Scheme for Dual-Hop Satellite-Integrated Internet. IEEE Transactions on Vehicular Technology, 2022, 71, 10666-10682.	6.3	6
48	Age-Optimal Network Coding HARQ Scheme for Satellite-Based Internet of Things. IEEE Internet of Things Journal, 2022, 9, 21984-21998.	8.7	6
49	Partially Observable Markov Decision Process-Based Transmission Policy over Ka-Band Channels for Space Information Networks. Entropy, 2017, 19, 510.	2.2	5
50	A Two-Step Handover Strategy for GEO/LEO Heterogeneous Satellite Networks Based on Multi-Attribute Decision Making. Electronics (Switzerland), 2022, 11, 795.	3.1	5
51	RCLTP: A rateless coding-based Licklider transmission protocol in space delay/disrupt tolerant network. , 2013, , .		4
52	Adaptive rateless coding scheme for deep-space Ka-band communications. , 2016, , .		4
53	Performance Analysis of Space Information Networks with Backbone Satellite Relaying for Vehicular Networks. Wireless Communications and Mobile Computing, 2017, 2017, 1-13.	1.2	4
54	Design and Analysis of NCed-HARQ Transmission Scheme for Space Information Networks. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
55	Joint Random Pilot and Multi-Slot Access in Massive MIMO for Space Information Networks. , 2018, , .		4
56	Performance Analysis of Soft Decoding Algorithms for Polar-Staircase Coding Scheme. , 2018, , .		4
57	Compressed Image Sensing by Jointly Leveraging Multi-Scale Heterogeneous Priors for the Internet of Multimedia Things. IEEE Access, 2019, 7, 18915-18925.	4.2	4
58	Iterative and Adjustable Soft List Decoding for Polar Codes. IEEE Transactions on Signal Processing, 2020, 68, 5559-5572.	5.3	4
59	Spinal Codes Over Fading Channel: Error Probability Analysis and Encoding Structure Improvement. IEEE Transactions on Wireless Communications, 2021, 20, 8288-8300.	9.2	4
60	Adjustable Ordered Statistic Decoder for Short Block Length Code towards URLLC. , 2021, , .		4
61	On the Prediction Policy for Timely Status Updates in Space-Air-Ground Integrated Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2716-2726.	8.0	4
62	Rateless coding scheme for time-varying dying channels. , 2016, , .		3
63	Double retransmission deferred negative acknowledgement in Consultative Committee for Space Data Systems File Delivery Protocol for space communications. IET Communications, 2016, 10, 245-252.	2.2	3
64	An Efficient Construction Method for Ultra-Reliable Finite Length Analog Fountain Codes. , 2018, , .		3
65	How to apply polar codes in high throughput space communications. Science China Technological Sciences, 2020, 63, 1371-1382.	4.0	3
66	Efficient Ordered Statistics Decoder for Ultra-Reliable Low Latency Communications. , 2021, , .		3
67	To Preempt or Not: Timely Status Update in the Presence of Non-trivial Propagation Delay. , 2020, , .		3
68	Non-orthogonal Superimposed Pilot Grant-free Random Access Scheme in Satellite-based IoT. , 2022, , .		3
69	Age-Critical and Secure Blockchain Sharding Scheme for Satellite-Based Internet of Things. IEEE Transactions on Wireless Communications, 2022, 21, 9432-9446.	9.2	3
70	Distributed rateless coded collaboration for satellite relay networks. , 2015, , .		2
71	Performance analysis of cooperative relaying communications for space information networks. , 2017, , .		2
72	Statistical Prior Aided Separate Compressed Image Sensing for Green Internet of Multimedia Things. Mobile Information Systems, 2017, 2017, 1-12.	0.6	2

#	ARTICLE	IF	CITATIONS
73	Novel polar-coded space-time transmit diversity scheme over Rician fading MIMO channels. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2018, 2018, .	2.4	2
74	Analysis and Design of Ultra-Reliable Short Blocklength Analog Fountain Codes. , 2018, , .		2
75	An Efficient Millimeter-Wave MIMO Channel Estimation Scheme for Space Information Networks. , 2019, , .		2
76	Energy Efficient Bidirectional Relaying Network Coded HARQ Transmission Scheme for S-IoT. , 2020, , .		2
77	Fairness-Improved Resource Allocation for QoS-Guaranteed Satellite-based Internet of Thing. , 2021, , .		2
78	Age-Critical Blockchain Resource Allocation over Satellite-based Internet of Things. , 2021, , .		2
79	Age-Critical Frameless ALOHA Protocol for Grant-Free Massive Access. , 2021, , .		2
80	Mechanism of spectrum sharing with QoS support for secondary users in cognitive radio networks. , 2015, , .		1
81	Compressed sensing image reconstruction based on joint statistical and structural priors. , 2017, , .		1
82	Design and analysis of LTP-HARQ transmission scheme in OSTBC-MIMO systems for SINs. , 2017, , .		1
83	An Efficient Channel Estimation Scheme based on Frozen Bits of Polar Codes over Fading Channel. , 2018, , .		1
84	Weight-Adaptive Analog Fountain Codes toward Massive Machine Type Communications. , 2019, , .		1
85	Design and Analysis of Bidirectional Relaying NCed-HARQ Transmission Scheme for S-IoT. , 2019, , .		1
86	Spinal Codes over BSC: Error Probability Analysis and the Puncturing Design. , 2020, , .		1
87	Scheduling Strategy Design Framework for Cyber-Physical System with Non-Negligible Propagation Delay. <i>Entropy</i> , 2021, 23, 714.	2.2	1
88	Joint Power and Time Allocation of Pilot Scheme Selection for Uplink mMTC in ITSN. , 2020, , .		1
89	Freshness-Critical Transmission Scheme with IR-HARQ over Multi-Hop Satellite-IoT. , 2021, , .		1
90	On symbol mapping for FQPSK modulation enabled Physical-layer Network Coding. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
91	Countermeasure of Quantization Noise in IR-UWB System Based on Compressed Sensing. , 2016, , .		0
92	Design of Rate-Compatible Parallel Concatenated Punctured Polar Codes for IR-HARQ Transmission Schemes. Entropy, 2017, 19, 628.	2.2	0
93	Power Allocation Optimization of Multibeam Satellites for Integrated Satellite-Terrestrial Networks. , 2018, , .		0
94	Performance Analysis of Finite Length Non-Binary Raptor Codes under Ordered Statistics Decoder. , 2019, , .		0
95	On the Performance of Code-Domain NOMA for SIN with Superimposed Pilot Scheme. , 2020, , .		0
96	Millimeter-Wave MIMO-NOMA Antenna Selection Algorithms for Space Information Network. , 2020, , .		0
97	Energy Efficient mmWave NOMA Downlink Multi-Relay System for ITSN. , 2020, , .		0
98	Finite Length Non-binary Raptor Codes under Ordered Statistics Decoder. , 2020, , .		0
99	Age-Critical Pilot Allocation Random Access Protocol for Space-Air-Ground Integrated Networks. , 2021, , .		0
100	Partial Self-Concatenation Structure and Performance Analysis of Spinal Codes Over Rayleigh Fading Channel. IEEE Transactions on Vehicular Technology, 2022, 71, 6767-6771.	6.3	0