

# Jian Jiao

## List of Publications by Year in descending order

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100  
papers

837  
citations

623734

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100  
docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Age-Oriented Transmission Protocol Design in Space-Air-Ground Integrated Networks. IEEE Transactions on Wireless Communications, 2022, 21, 5573-5585.	9.2	10
5	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
6	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
7	Grant Free Age-Optimal Random Access Protocol for Satellite-Based Internet of Things. IEEE Transactions on Communications, 2022, 70, 3947-3961.	7.8	8
8	Non-orthogonal Superimposed Pilot Grant-free Random Access Scheme in Satellite-based IoT. , 2022, , .		3
9	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
10	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
11	Age-Optimal Network Coding HARQ Scheme for Satellite-Based Internet of Things. IEEE Internet of Things Journal, 2022, 9, 21984-21998.	8.7	6
12	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
13	Energy Efficient Network Coding HARQ Transmission Scheme for S-IoT. IEEE Transactions on Green Communications and Networking, 2021, 5, 308-321.	5.5	12
14	Spinal Codes Over Fading Channel: Error Probability Analysis and Encoding Structure Improvement. IEEE Transactions on Wireless Communications, 2021, 20, 8288-8300.	9.2	4
15	An Age Optimized Hybrid ARQ Scheme for Polar Codes via Gaussian Approximation. IEEE Wireless Communications Letters, 2021, 10, 2235-2239.	5.0	14
16	Fairness-Improved Resource Allocation for QoS-Guaranteed Satellite-based Internet of Thing. , 2021, , .		2
17	Age-Optimal Multi-Slot Pilot Allocation Random Access Protocol for S-IoT. , 2021, , .		7
18	Age-Optimal NC-HARQ Protocol for Multi-hop Satellite-based Internet of Things. , 2021, , .		11

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19	Fairness-improved and QoS-guaranteed resource allocation for NOMA-based S-LoT network. Science China Information Sciences, 2021, 64, 1.	4.3	13
20	Efficient Ordered Statistics Decoder for Ultra-Reliable Low Latency Communications. , 2021, , .		3
21	Scheduling Strategy Design Framework for Cyber-Physical System with Non-Negligible Propagation Delay. Entropy, 2021, 23, 714.	2.2	1
22	Superimposed Pilot Code-Domain NOMA Scheme for Satellite-Based Internet of Things. IEEE Systems Journal, 2021, 15, 2732-2743.	4.6	17
23	Age-Optimal Power Allocation Scheme for NOMA-based S-LoT Downlink Network. , 2021, , .		7
24	Intelligent Hybrid Nonorthogonal Multiple Access Relaying for Vehicular Networks in 6G. IEEE Internet of Things Journal, 2021, 8, 14773-14786.	8.7	14
25	MSPA: Multislot Pilot Allocation Random Access Protocol for mMTC-Enabled IoT System. IEEE Internet of Things Journal, 2021, 8, 17403-17416.	8.7	12
26	Adjustable Ordered Statistic Decoder for Short Block Length Code towards URLLC. , 2021, , .		4
27	Age-Critical Blockchain Resource Allocation over Satellite-based Internet of Things. , 2021, , .		2
28	Freshness-Critical Transmission Scheme with IR-HARQ over Multi-Hop Satellite-IoT. , 2021, , .		1
29	Age-Critical Pilot Allocation Random Access Protocol for Space-Air-Ground Integrated Networks. , 2021, , .		0
30	Age-Critical Frameless ALOHA Protocol for Grant-Free Massive Access. , 2021, , .		2
31	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
32	Age-Optimal HARQ Design for Freshness-Critical Satellite-IoT Systems. IEEE Internet of Things Journal, 2020, 7, 2066-2076.	8.7	36
33	Energy Efficient Bidirectional Relaying Network Coded HARQ Transmission Scheme for S-LoT. , 2020, , .		2
34	How to apply polar codes in high throughput space communications. Science China Technological Sciences, 2020, 63, 1371-1382.	4.0	3
35	Unequal Access Latency Random Access Protocol for Massive Machine-Type Communications. IEEE Transactions on Wireless Communications, 2020, 19, 5924-5937.	9.2	19
36	Spinal Codes over BSC: Error Probability Analysis and the Puncturing Design. , 2020, , .		1

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37	Design and analysis of novel Ka band NOMA uplink relay system for Lunar farside exploration. China Communications, 2020, 17, 1-14.	3.2	12
38	Iterative and Adjustable Soft List Decoding for Polar Codes. IEEE Transactions on Signal Processing, 2020, 68, 5559-5572.	5.3	4
39	Finite Block-Length Analog Fountain Codes for Ultra-Reliable Low Latency Communications. IEEE Transactions on Communications, 2020, 68, 1391-1404.	7.8	22
40	High-Performance Distributed Compressive Video Sensing: Jointly Exploiting the HEVC Motion Estimation and the $\hat{a}_{11}$ Reconstruction. IEEE Access, 2020, 8, 31306-31316.	4.2	8
41	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
42	On the Performance of Code-Domain NOMA for SIN with Superimposed Pilot Scheme. , 2020, , .		0
43	To Preempt or Not: Timely Status Update in the Presence of Non-trivial Propagation Delay. , 2020, , .		3
44	Millimeter-Wave MIMO-NOMA Antenna Selection Algorithms for Space Information Network. , 2020, , .		0
45	Energy Efficient mmWave NOMA Downlink Multi-Relay System for ITSN. , 2020, , .		0
46	Joint Power and Time Allocation of Pilot Scheme Selection for Uplink mMTC in ITSN. , 2020, , .		1
47	Finite Length Non-binary Raptor Codes under Ordered Statistics Decoder. , 2020, , .		0
48	Joint Power Allocation and Rate Control for NOMA-Based Space Information Networks. , 2019, , .		8
49	Deep Learning-Based Long-Term Power Allocation Scheme for NOMA Downlink System in S-IoT. IEEE Access, 2019, 7, 86288-86296.	4.2	40
50	Outage Performance of Millimeter-Wave Band NOMA Downlink System in Satellite-based IoT. , 2019, , .		6
51	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
52	ARM: Adaptive Random-Selected Multi-Beamforming Estimation Scheme for Satellite-Based Internet of Things. IEEE Access, 2019, 7, 63264-63276.	4.2	11
53	Improved Polar SCL Decoding by Exploiting the Error Correction Capability of CRC. IEEE Access, 2019, 7, 7032-7040.	4.2	15
54	Weight-Adaptive Analog Fountain Codes toward Massive Machine Type Communications. , 2019, , .		1

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55	An Efficient Millimeter-Wave MIMO Channel Estimation Scheme for Space Information Networks. , 2019, , .		2
56	Design and Analysis of Bidirectional Relaying NCed-HARQ Transmission Scheme for S-IoT. , 2019, , .		1
57	Performance Analysis of Finite Length Non-Binary Raptor Codes under Ordered Statistics Decoder. , 2019, , .		0
58	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
59	Performance Modeling of LTP-HARQ Schemes Over OSTBC-MIMO Channels for Hybrid Satellite Terrestrial Networks. IEEE Access, 2018, 6, 5256-5268.	4.2	20
60	ARMA-Based Adaptive Coding Transmission Over Millimeter-Wave Channel for Integrated Satellite-Terrestrial Networks. IEEE Access, 2018, 6, 21635-21645.	4.2	21
61	Novel polar-coded space-time transmit diversity scheme over Rician fading MIMO channels. Eurasip Journal on Wireless Communications and Networking, 2018, 2018, .	2.4	2
62	Performance Analysis of Millimeter-Wave Hybrid Satellite-Terrestrial Relay Networks Over Rain Fading Channel. , 2018, , .		8
63	An Efficient Construction Method for Ultra-Reliable Finite Length Analog Fountain Codes. , 2018, , .		3
64	Analysis and Design of Ultra-Reliable Short Blocklength Analog Fountain Codes. , 2018, , .		2
65	Design and Analysis of NCed-HARQ Transmission Scheme for Space Information Networks. , 2018, , .		4
66	High Performance Short Polar Codes: A Concatenation Scheme Using Spinal Codes as the Outer Code. IEEE Access, 2018, 6, 70644-70654.	4.2	9
67	Power Allocation Optimization of Multibeam Satellites for Integrated Satellite-Terrestrial Networks. , 2018, , .		0
68	Joint Random Pilot and Multi-Slot Access in Massive MIMO for Space Information Networks. , 2018, , .		4
69	A Novel High-Rate Polar-Staircase Coding Scheme. , 2018, , .		7
70	Performance Analysis of Soft Decoding Algorithms for Polar-Staircase Coding Scheme. , 2018, , .		4
71	Performance Analysis of Uplink Uncoordinated Code-Domain NOMA for SINs. , 2018, , .		9
72	An Efficient Channel Estimation Scheme based on Frozen Bits of Polar Codes over Fading Channel. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
73	Outage Analysis of Multirelay Multiuser Hybrid Satellite-Terrestrial Millimeter-Wave Networks. IEEE Wireless Communications Letters, 2018, 7, 1046-1049.	5.0	42
74	Modeling Disruption Tolerance Mechanisms for a Heterogeneous 5G Network. IEEE Access, 2018, 6, 25836-25848.	4.2	14
75	Integration of Reed-Solomon codes to licker transmission protocol (LTP) for space DTN. IEEE Aerospace and Electronic Systems Magazine, 2017, 32, 48-55.	1.3	42
76	Compressed sensing image reconstruction based on joint statistical and structural priors. , 2017, , .		1
77	Bounds on the Reliability of RaptorQ Codes in the Finite-Length Regime. IEEE Access, 2017, 5, 24766-24774.	4.2	12
78	An Efficient Rateless Scheme Based on the Extendibility of Systematic Polar Codes. IEEE Access, 2017, 5, 23223-23232.	4.2	9
79	Low Complexity Decoding for Spinal Codes: Sliding Feedback Decoding. , 2017, , .		11
80	Performance analysis of cooperative relaying communications for space information networks. , 2017, , .		2
81	Design and analysis of LTP-HARQ transmission scheme in OSTBC-MIMO systems for SINs. , 2017, , .		1
82	Distributed Rateless Codes with Unequal Error Protection Property for Space Information Networks. Entropy, 2017, 19, 38.	2.2	15
83	Partially Observable Markov Decision Process-Based Transmission Policy over Ka-Band Channels for Space Information Networks. Entropy, 2017, 19, 510.	2.2	5
84	Statistical Prior Aided Separate Compressed Image Sensing for Green Internet of Multimedia Things. Mobile Information Systems, 2017, 2017, 1-12.	0.6	2
85	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
86	Rateless coding transmission over multi-state fading erasure channel for SATCOM. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	7
87	Design of Rate-Compatible Parallel Concatenated Punctured Polar Codes for IR-HARQ Transmission Schemes. Entropy, 2017, 19, 628.	2.2	0
88	Construction of Polar Codes Concatenated to Space-Time Block Coding in MIMO System. , 2016, , .		10
89	Adaptive rateless coding scheme for deep-space Ka-band communications. , 2016, , .		4
90	Countermeasure of Quantization Noise in IR-UWB System Based on Compressed Sensing. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
91	A novel systematic raptor network coding scheme for Mars-to-Earth relay communications. , 2016, , .		11
92	Rateless coding scheme for time-varying fading channels. , 2016, , .		3
93	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
94	Mechanism of spectrum sharing with QoS support for secondary users in cognitive radio networks. , 2015, , .		1
95	Distributed rateless coded collaboration for satellite relay networks. , 2015, , .		2
96	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
97	Network-coded rateless coding scheme in erasure multiple-access relay enable communications. IET Communications, 2014, 8, 537-545.	2.2	11
98	On symbol mapping for FQPSK modulation enabled Physical-layer Network Coding. , 2013, , .		0
99	RCLTP: A rateless coding-based Licklider transmission protocol in space delay/disrupt tolerant network. , 2013, , .		4
100	Packets interleaving CCSDS file delivery protocol in deep space communication. IEEE Aerospace and Electronic Systems Magazine, 2011, 26, 5-11.	1.3	23