

Chao Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

718
citations

16
h-index

24
g-index

51
ext. papers

867
ext. citations

7.6
avg, IF

4.2
L-index

#	Paper	IF	Citations
51	Reconfigurable Intelligent Surface Assisted Multi-Carrier Wireless Systems for Doubly Selective High-Mobility Ricean Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	3
50	Joint Training of the Superimposed Direct and Reflected Links in Reconfigurable Intelligent Surface Assisted Multiuser Communications. <i>IEEE Transactions on Green Communications and Networking</i> , 2022 , 1-1	4	2
49	Unity-Rate Coding Improves the Iterative Detection Convergence of Autoencoder-Aided Communication Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	0
48	The Achievable Rate Analysis of Generalized Quadrature Spatial Modulation and a Pair of Low-Complexity Detectors. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	
47	Turbo Detection Aided Autoencoder for Multi-Carrier Wireless Systems: Integrating Deep Learning into Channel Coded Systems. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2022 , 1-1	6.6	2
46	Deep Learning-Aided Optical IM/DD OFDM Approaches the Throughput of RF-OFDM. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 1-1	14.2	0
45	Low-Complexity Channel Estimation and Passive Beamforming for RIS-Assisted MIMO Systems Relying on Discrete Phase Shifts. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	8
44	Low-Complexity Improved-Rate Generalised Spatial Modulation: Bit-to-Symbol Mapping, Detection and Performance Analysis. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	3
43	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 3847-3864	9.6	1
42	Fifty Years of Noise Modeling and Mitigation in Power-Line Communications. <i>IEEE Communications Surveys and Tutorials</i> , 2021 , 23, 41-69	37.1	8
41	Iterative Receiver Design for Polar-Coded SCMA Systems. <i>IEEE Transactions on Communications</i> , 2021 , 69, 4235-4246	6.9	6
40	Artificially Time-Varying Differential MIMO for Achieving Practical Physical Layer Security. <i>IEEE Open Journal of the Communications Society</i> , 2021 , 2, 2180-2194	6.7	2
39	Optimal Pilot Power Based Channel Estimation Improves the Throughput of Intelligent Reflective Surface Assisted Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 16202-16206	6.8	8
38	Optimal-Power Superposition Modulation for Scalable Video Broadcasting. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 16230-16234	6.8	
37	Near-Instantaneously Adaptive Multi-Set Space-Time Shift Keying for UAV-Aided Video Surveillance. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 12843-12856	6.8	2
36	Scalable Panoramic Wireless Video Streaming Relying on Optimal-Rate FEC-Coded Adaptive QAM. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 11206-11219	6.8	3
35	Constant-Envelope Space-Time Shift Keying. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2019 , 13, 1387-1402	7.5	9

34	Subcarrier Subset Selection-Aided Transmit Precoding Achieves Full-Diversity in Index Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 11031-11041	6.8	2
33	Impulsive Noise Mitigation in Digital Subscriber Lines: The State-of-the-Art and Research Opportunities. <i>IEEE Communications Magazine</i> , 2019 , 57, 145-151	9.1	7
32	Differential-Detection Aided Large-Scale Generalized Spatial Modulation is Capable of Operating in High-Mobility Millimeter-Wave Channels. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2019 , 13, 1360-1374	7.5	20
31	Performance of HARQ-Assisted OFDM Systems Contaminated by Impulsive Noise: Finite-Length LDPC Code Analysis. <i>IEEE Access</i> , 2019 , 7, 14112-14123	3.5	6
30	Multicarrier Division Duplex Aided Millimeter Wave Communications. <i>IEEE Access</i> , 2019 , 7, 100719-100732	3.5	6
29	Adaptive Coherent/Non-Coherent Spatial Modulation Aided Unmanned Aircraft Systems. <i>IEEE Wireless Communications</i> , 2019 , 26, 170-177	13.4	24
28	Near-Perfect Finite-Cardinality Generalized Space-Time Shift Keying. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 2146-2164	14.2	10
27	Energy Efficient Transmission Based on Grouped Spatial Modulation for Upstream DSL Systems. <i>IEEE Access</i> , 2019 , 7, 88312-88326	3.5	
26	Sixty Years of Coherent Versus Non-Coherent Tradeoffs and the Road From 5G to Wireless Futures. <i>IEEE Access</i> , 2019 , 7, 178246-178299	3.5	29
25	. <i>IEEE Transactions on Communications</i> , 2019 , 67, 1099-1116	6.9	19
24	Finite-Cardinality Single-RF Differential Space-Time Modulation for Improving the Diversity-Throughput Tradeoff. <i>IEEE Transactions on Communications</i> , 2019 , 67, 318-335	6.9	18
23	Compressed-Sensing Assisted Spatial Multiplexing Aided Spatial Modulation. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 794-807	9.6	25
22	. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 773-788	4.8	20
21	Differential Space-Time Coding Dispensing With Channel Estimation Approaches the Performance of Its Coherent Counterpart in the Open-Loop Massive MIMO-OFDM Downlink. <i>IEEE Transactions on Communications</i> , 2018 , 66, 6190-6204	6.9	15
20	Air-to-Ground NOMA Systems for the Internet-Above-the-Clouds. <i>IEEE Access</i> , 2018 , 6, 47442-47460	3.5	3
19	Two Decades of MIMO Design Tradeoffs and Reduced-Complexity MIMO Detection in Near-Capacity Systems. <i>IEEE Access</i> , 2017 , 5, 18564-18632	3.5	47
18	. <i>IEEE Transactions on Communications</i> , 2017 , 1-1	6.9	21
17	Joint Impulsive Noise Estimation and Data Detection Conceived for LDPC-Coded DMT-Based DSL Systems. <i>IEEE Access</i> , 2017 , 5, 23133-23145	3.5	4

16	. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 8345-8360	6.8	9
15	Soft-Decision Multiple-Symbol Differential Sphere Detection and Decision-Feedback Differential Detection for Differential QAM Dispensing with Channel Estimation in the Face of Rapidly Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 4408-4425	9.6	7
14	Near-Capacity Wireless System Design Principles. <i>IEEE Communications Surveys and Tutorials</i> , 2015 , 17, 1806-1833	37.1	17
13	Reduced-Complexity Soft-Decision Multiple-Symbol Differential Sphere Detection. <i>IEEE Transactions on Communications</i> , 2015 , 63, 3275-3289	6.9	8
12	Multiple-Symbol Joint Signal Processing for Differentially Encoded Single- and Multi-Carrier Communications: Principles, Designs and Applications. <i>IEEE Communications Surveys and Tutorials</i> , 2014 , 16, 689-712	37.1	14
11	Reduced-Complexity Approx-Log-MAP and Max-Log-MAP Soft PSK/QAM Detection Algorithms. <i>IEEE Transactions on Communications</i> , 2013 , 61, 1415-1425	6.9	16
10	Spatial Modulation and Space-Time Shift Keying: Optimal Performance at a Reduced Detection Complexity. <i>IEEE Transactions on Communications</i> , 2013 , 61, 206-216	6.9	52
9	. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 2633-2643	6.8	13
8	Reduced-Complexity Iterative-Detection-Aided Generalized Space-Time Shift Keying. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3656-3664	6.8	25
7	Transmit-Diversity-Assisted Space-Shift Keying for Colocated and Distributed/Cooperative MIMO Elements. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 2864-2869	6.8	62
6	Reduced-Complexity Coherent Versus Non-Coherent QAM-Aided Space-Time Shift Keying. <i>IEEE Transactions on Communications</i> , 2011 , 59, 3090-3101	6.9	78
5	Reduced-Complexity Soft-Decision Aided Space-Time Shift Keying. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 547-550	3.2	16
4	Reduced-Complexity Noncoherently Detected Differential Space-Time Shift Keying. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 153-156	3.2	28
3	Multiple-Symbol Differential Sphere Detection Aided Differential Space-Time Block Codes Using QAM Constellations. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 497-500	3.2	15
2	Near-Capacity Irregular Convolutional Coded Cooperative Differential Linear Dispersion Codes Using Multiple-Symbol Differential Detection. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 173-176	3.2	7
1	Reduced-complexity noncoherently detected Differential Space-Time Shift Keying 2011 ,		18