

Chao Xu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6426020/publications.pdf>

Version: 2024-02-01

51
papers

1,049
citations

393982

19
h-index

454577

30
g-index

51
all docs

51
docs citations

51
times ranked

654
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Reduced-Complexity Coherent Versus Non-Coherent QAM-Aided Space-Time Shift Keying. IEEE Transactions on Communications, 2011, 59, 3090-3101. | 4.9 | 97 |
| 2 | Transmit-Diversity-Assisted Space-Shift Keying for Colocated and Distributed/Cooperative MIMO Elements. IEEE Transactions on Vehicular Technology, 2011, 60, 2864-2869. | 3.9 | 72 |
| 3 | Spatial Modulation and Space-Time Shift Keying: Optimal Performance at a Reduced Detection Complexity. IEEE Transactions on Communications, 2013, 61, 206-216. | 4.9 | 62 |
| 4 | Low-Complexity Channel Estimation and Passive Beamforming for RIS-Assisted MIMO Systems Relying on Discrete Phase Shifts. IEEE Transactions on Communications, 2022, 70, 1245-1260. | 4.9 | 61 |
| 5 | Two Decades of MIMO Design Tradeoffs and Reduced-Complexity MIMO Detection in Near-Capacity Systems. IEEE Access, 2017, 5, 18564-18632. | 2.6 | 60 |
| 6 | Sixty Years of Coherent Versus Non-Coherent Tradeoffs and the Road From 5G to Wireless Futures. IEEE Access, 2019, 7, 178246-178299. | 2.6 | 49 |
| 7 | Reduced-Complexity Noncoherently Detected Differential Space-Time Shift Keying. IEEE Signal Processing Letters, 2011, 18, 153-156. | 2.1 | 35 |
| 8 | Compressed-Sensing Assisted Spatial Multiplexing Aided Spatial Modulation. IEEE Transactions on Wireless Communications, 2018, 17, 794-807. | 6.1 | 34 |
| 9 | Adaptive Coherent/Non-Coherent Spatial Modulation Aided Unmanned Aircraft Systems. IEEE Wireless Communications, 2019, 26, 170-177. | 6.6 | 34 |
| 10 | Reduced-Complexity Iterative-Detection-Aided Generalized Space-Time Shift Keying. IEEE Transactions on Vehicular Technology, 2012, 61, 3656-3664. | 3.9 | 31 |
| 11 | Differential-Detection Aided Large-Scale Generalized Spatial Modulation is Capable of Operating in High-Mobility Millimeter-Wave Channels. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1360-1374. | 7.3 | 26 |
| 12 | Adaptive Coherent/Non-Coherent Single/Multiple-Antenna Aided Channel Coded Ground-to-Air Aeronautical Communication. IEEE Transactions on Communications, 2019, 67, 1099-1116. | 4.9 | 25 |
| 13 | Multiple-Symbol Differential Sphere Detection Aided Differential Space-Time Block Codes Using QAM Constellations. IEEE Signal Processing Letters, 2011, 18, 497-500. | 2.1 | 24 |
| 14 | Near-Capacity Wireless System Design Principles. IEEE Communications Surveys and Tutorials, 2015, 17, 1806-1833. | 24.8 | 24 |
| 15 | Algebraic Differential Spatial Modulation is Capable of Approaching the Performance of its Coherent Counterpart. IEEE Transactions on Communications, 2017, , 1-1. | 4.9 | 23 |
| 16 | Fifty Years of Noise Modeling and Mitigation in Power-Line Communications. IEEE Communications Surveys and Tutorials, 2021, 23, 41-69. | 24.8 | 23 |
| 17 | Single-RF Index Shift Keying Aided Differential Space-Time Block Coding. IEEE Transactions on Signal Processing, 2018, 66, 773-788. | 3.2 | 21 |
| 18 | Reconfigurable Intelligent Surface Assisted Multi-Carrier Wireless Systems for Doubly Selective High-Mobility Ricean Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 4023-4041. | 3.9 | 21 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Reduced-complexity noncoherently detected Differential Space-Time Shift Keying. , 2011, , . | | 20 |
| 20 | Differential Space-Time Coding Dispensing With Channel Estimation Approaches the Performance of Its Coherent Counterpart in the Open-Loop Massive MIMO-OFDM Downlink. IEEE Transactions on Communications, 2018, 66, 6190-6204. | 4.9 | 20 |
| 21 | Finite-Cardinality Single-RF Differential Space-Time Modulation for Improving the Diversity-Throughput Tradeoff. IEEE Transactions on Communications, 2019, 67, 318-335. | 4.9 | 20 |
| 22 | Joint Training of the Superimposed Direct and Reflected Links in Reconfigurable Intelligent Surface Assisted Multiuser Communications. IEEE Transactions on Green Communications and Networking, 2022, 6, 739-754. | 3.5 | 19 |
| 23 | Reduced-Complexity Soft-Decision Aided Space-Time Shift Keying. IEEE Signal Processing Letters, 2011, 18, 547-550. | 2.1 | 18 |
| 24 | Reduced-Complexity Approx-Log-MAP and Max-Log-MAP Soft PSK/QAM Detection Algorithms. IEEE Transactions on Communications, 2013, 61, 1415-1425. | 4.9 | 17 |
| 25 | Reduced-Complexity Noncoherent Soft-Decision-Aided DAPSK Dispensing With Channel Estimation. IEEE Transactions on Vehicular Technology, 2013, 62, 2633-2643. | 3.9 | 17 |
| 26 | Multiple-Symbol Joint Signal Processing for Differentially Encoded Single- and Multi-Carrier Communications: Principles, Designs and Applications. IEEE Communications Surveys and Tutorials, 2014, 16, 689-712. | 24.8 | 14 |
| 27 | “Near-Perfect” Finite-Cardinality Generalized Space-Time Shift Keying. IEEE Journal on Selected Areas in Communications, 2019, 37, 2146-2164. | 9.7 | 14 |
| 28 | Multiple-Symbol Differential Sphere Detection and Decision-Feedback Differential Detection Conceived for Differential QAM. IEEE Transactions on Vehicular Technology, 2016, 65, 8345-8360. | 3.9 | 13 |
| 29 | Iterative Receiver Design for Polar-Coded SCMA Systems. IEEE Transactions on Communications, 2021, 69, 4235-4246. | 4.9 | 13 |
| 30 | Constant-Envelope Space-Time Shift Keying. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1387-1402. | 7.3 | 11 |
| 31 | Near-Instantaneously Adaptive Multi-Set Space-Time Shift Keying for UAV-Aided Video Surveillance. IEEE Transactions on Vehicular Technology, 2020, 69, 12843-12856. | 3.9 | 11 |
| 32 | Optimal Pilot Power Based Channel Estimation Improves the Throughput of Intelligent Reflective Surface Assisted Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 16202-16206. | 3.9 | 11 |
| 33 | Reduced-Complexity Soft-Decision Multiple-Symbol Differential Sphere Detection. IEEE Transactions on Communications, 2015, 63, 3275-3289. | 4.9 | 9 |
| 34 | 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. IEEE Transactions on Wireless Communications, 2016, 15, 4408-4425. | 6.1 | 9 |
| 35 | Impulsive Noise Mitigation in Digital Subscriber Lines: The State-of-the-Art and Research Opportunities. IEEE Communications Magazine, 2019, 57, 145-151. | 4.9 | 9 |
| 36 | Deep Learning-Aided Optical IM/DD OFDM Approaches the Throughput of RF-OFDM. IEEE Journal on Selected Areas in Communications, 2022, 40, 212-226. | 9.7 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Multicarrier Division Duplex Aided Millimeter Wave Communications. IEEE Access, 2019, 7, 100719-100732. | 2.6 | 8 |
| 38 | Near-Capacity Irregular Convolutional Coded Cooperative Differential Linear Dispersion Codes Using Multiple-Symbol Differential Detection. IEEE Signal Processing Letters, 2011, 18, 173-176. | 2.1 | 7 |
| 39 | Performance of HARQ-Assisted OFDM Systems Contaminated by Impulsive Noise: Finite-Length LDPC Code Analysis. IEEE Access, 2019, 7, 14112-14123. | 2.6 | 7 |
| 40 | Space-, Time- and Frequency-Domain Index Modulation for Next-Generation Wireless: A Unified Single-/Multi-Carrier and Single-/Multi-RF MIMO Framework. IEEE Transactions on Wireless Communications, 2021, 20, 3847-3864. | 6.1 | 7 |
| 41 | Turbo Detection Aided Autoencoder for Multicarrier Wireless Systems: Integrating Deep Learning Into Channel Coded Systems. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 600-614. | 4.9 | 7 |
| 42 | Artificially Time-Varying Differential MIMO for Achieving Practical Physical Layer Security. IEEE Open Journal of the Communications Society, 2021, 2, 2180-2194. | 4.4 | 6 |
| 43 | The Achievable Rate Analysis of Generalized Quadrature Spatial Modulation and a Pair of Low-Complexity Detectors. IEEE Transactions on Vehicular Technology, 2022, 71, 5203-5215. | 3.9 | 6 |
| 44 | Air-to-Ground NOMA Systems for the "Internet-Above-the-Clouds". IEEE Access, 2018, 6, 47442-47460. | 2.6 | 5 |
| 45 | Scalable Panoramic Wireless Video Streaming Relying on Optimal-Rate FEC-Coded Adaptive QAM. IEEE Transactions on Vehicular Technology, 2020, 69, 11206-11219. | 3.9 | 5 |
| 46 | Joint Impulsive Noise Estimation and Data Detection Conceived for LDPC-Coded DMT-Based DSL Systems. IEEE Access, 2017, 5, 23133-23145. | 2.6 | 5 |
| 47 | Low-Complexity Improved-Rate Generalised Spatial Modulation: Bit-to-Symbol Mapping, Detection and Performance Analysis. IEEE Transactions on Vehicular Technology, 2022, 71, 1060-1065. | 3.9 | 5 |
| 48 | Subcarrier Subset Selection-Aided Transmit Precoding Achieves Full-Diversity in Index Modulation. IEEE Transactions on Vehicular Technology, 2019, 68, 11031-11041. | 3.9 | 3 |
| 49 | Unity-Rate Coding Improves the Iterative Detection Convergence of Autoencoder-Aided Communication Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 5037-5047. | 3.9 | 2 |
| 50 | Energy Efficient Transmission Based on Grouped Spatial Modulation for Upstream DSL Systems. IEEE Access, 2019, 7, 88312-88326. | 2.6 | 0 |
| 51 | Optimal-Power Superposition Modulation for Scalable Video Broadcasting. IEEE Transactions on Vehicular Technology, 2020, 69, 16230-16234. | 3.9 | 0 |