# Shinya Sugiura

List of Publications by Year
in descending order



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|---|---|---|---|
| 135 papers | 4,884 citations | 109321 35 h-index | 95266 68 g-index |
| 148 all docs | 148 docs citations | 148 times ranked | 2148 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Eigendecomposition-Precoded Faster-Than-Nyquist Signaling With Optimal Power Allocation in Frequency-Selective Fading Channels. IEEE Transactions on Wireless Communications, 2022, 21, 1681-1693. | 9.2 | 5 |
| 2 | Reconfigurable Intelligent Surface Assisted Multi-Carrier Wireless Systems for Doubly Selective High-Mobility Ricean Channels. IEEE Transactions on Vehicular Technology, 2022, 71, 4023-4041. | 6.3 | 21 |
| 3 | QoS-Constrained Energy-Efficient Beamforming and Jamming With Intelligent Reflecting Surface for Secure Multi-User Downlink. IEEE Transactions on Green Communications and Networking, 2022, 6, 187-197. | 5.5 | 2 |
| 4 | Reduced-Complexity FFT-Spread Multicarrier Faster-Than-Nyquist Signaling in Frequency-Selective Fading Channel. IEEE Open Journal of the Communications Society, 2022, 3, 530-542. | 6.9 | 5 |
| 5 | 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. | 7.9 | 7 |
| 6 | Eigendecomposition-Precoded Faster-Than-Nyquist Signaling With Index Modulation. IEEE Transactions on Communications, 2022, 70, 4822-4836. | 7.8 | 4 |
| 7 | Error Probability Analysis for Time-Varying Chaos Unitary Matrix-Based Differential MIMO System. IEEE Wireless Communications Letters, 2022, 11, 1399-1403. | 5.0 | 0 |
| 8 | Secrecy Performance of Buffer-Aided Hybrid Virtual Full-Duplex and Half-Duplex Relay Activation. IEEE Open Journal of Vehicular Technology, 2022, 3, 344-355. | 4.9 | 1 |
| 9 | Joint Beam and Polarization Forming of Intelligent Reflecting Surfaces for Wireless Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 1648-1657. | 6.3 | 22 |
| 10 | Hybrid NOMA/OMA Broadcasting-and-Buffer-State-Based Relay Selection. IEEE Transactions on Vehicular Technology, 2021, 70, 1618-1631. | 6.3 | 9 |
| 11 | QoS-Constrained Optimization of Intelligent Reflecting Surface Aided Secure Energy-Efficient Transmission. IEEE Transactions on Vehicular Technology, 2021, 70, 5137-5142. | 6.3 | 7 |
| 12 | Precoded Faster-than-Nyquist Signaling with Optimal Power Allocation in Frequency-Selective Channel. , 2021, , . | | 2 |
| 13 | 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. | 9.2 | 7 |
| 14 | Eigenvalue Decomposition Precoded Faster-Than-Nyquist Transmission of Index Modulated Symbols. , 2021, , . | | 5 |
| 15 | Impact of Inter-Frame Interference on Eigendecomposition-Precoded Non-Orthogonal Frequency-Division Multiplexing. IEEE Wireless Communications Letters, 2021, 10, 1567-1571. | 5.0 | 4 |
| 16 | Secrecy Performance of Eigendecomposition-Based FTN Signaling and NOFDM in Quasi-Static Fading Channels. IEEE Transactions on Wireless Communications, 2021, 20, 5872-5882. | 9.2 | 17 |
| 17 | Quantum Speedup for Index Modulation. IEEE Access, 2021, 9, 111114-111124. | 4.2 | 3 |
| 18 | The Evolution of Faster-Than-Nyquist Signaling. IEEE Access, 2021, 9, 86535-86564. | 4.2 | 29 |

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| 19 | Performance Analysis of Hybrid Buffer-Aided Cooperative Protocol Based on Half-Duplex and Virtual Full-Duplex Relay Selections. IEEE Open Journal of the Communications Society, 2021, 2, 1862-1873. | 6.9 | 5 |
| 20 | Artificially Time-Varying Differential MIMO for Achieving Practical Physical Layer Security. IEEE Open Journal of the Communications Society, 2021, 2, 2180-2194. | 6.9 | 6 |
| 21 | Optimal but Low-Complexity Optimization Method for Nonsquare Differential Massive MIMO. , 2021, , . | | 1 |
| 22 | Variable-Block-Length Joint Channel Estimation and Data Detection for Spatial Modulation Over Time-Varying Channels. IEEE Transactions on Vehicular Technology, 2020, 69, 13964-13969. | 6.3 | 3 |
| 23 | Differentially-Encoded Rectangular Spatial Modulation Approaches the Performance of Its Coherent Counterpart. IEEE Transactions on Communications, 2020, 68, 7593-7607. | 7.8 | 11 |
| 24 | Eigenvalue-Decomposition-Precoded Ultra-Dense Non-Orthogonal Frequency-Division Multiplexing. IEEE Transactions on Wireless Communications, 2020, , 1-1. | 9.2 | 8 |
| 25 | Tradeoff Between Calculation Precision and Information Rate in Eigendecomposition-Based Faster-Than-Nyquist Signaling. IEEE Access, 2020, 8, 223461-223471. | 4.2 | 8 |
| 26 | Generalized Buffer-State-Based Relay Selection in Cooperative Cognitive Radio Networks. IEEE Access, 2020, 8, 11644-11657. | 4.2 | 13 |
| 27 | Spatial Modulation. , 2020, , 1348-1353. | | 0 |
| 28 | Effects of Eigenvalue Distribution on Precoded Faster-than-Nyquist Signaling with Power Allocation. , 2020, , . | | 1 |
| 29 | Non-Orthogonal Frequency-Division Multiplexing Based on Eigenvalue Decomposition. , 2020, , . | | 0 |
| 30 | Energy-Versus-Bandwidth-Efficiency Tradeoff in Spatially Modulated Massive MIMO Downlink. IEEE Wireless Communications Letters, 2019, 8, 197-200. | 5.0 | 13 |
| 31 | Physical Layer Security in Buffer-State-Based Max-Ratio Relay Selection Exploiting Broadcasting With Cooperative Beamforming and Jamming. IEEE Transactions on Information Forensics and Security, 2019, 14, 431-444. | 6.9 | 43 |
| 32 | Multicarrier Division Duplex Aided Millimeter Wave Communications. IEEE Access, 2019, 7, 100719-100732. | 4.2 | 8 |
| 33 | Differentially Modulated Spectrally Efficient Frequency-Division Multiplexing. IEEE Signal Processing Letters, 2019, 26, 1046-1050. | 3.6 | 8 |
| 34 | â€œNear-Perfectâ€•Finite-Cardinality Generalized Space-Time Shift Keying. IEEE Journal on Selected Areas in Communications, 2019, 37, 2146-2164. | 14.0 | 14 |
| 35 | SVD-Precoded Faster-Than-Nyquist Signaling With Optimal and Truncated Power Allocation. IEEE Transactions on Wireless Communications, 2019, 18, 5909-5923. | 9.2 | 25 |
| 36 | Constant-Envelope Space-Time Shift Keying. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1387-1402. | 10.8 | 11 |

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| 37 | IMToolkit: An Open-Source Index Modulation Toolkit for Reproducible Research Based on Massively Parallel Algorithms. IEEE Access, 2019, 7, 93830-93846. | 4.2 | 7 |
| 38 | Subcarrier Subset Selection-Aided Transmit Precoding Achieves Full-Diversity in Index Modulation. IEEE Transactions on Vehicular Technology, 2019, 68, 11031-11041. | 6.3 | 3 |
| 39 | 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. | 10.8 | 26 |
| 40 | Buffer-Aided Virtual Full-Duplex Cooperative Networks Exploiting Source-to-Relay Broadcast Channels. , 2019, , . | | 7 |
| 41 | Optimal and Suboptimal Power Allocation for SVD-Precoded Faster-than-Nyquist Signaling. , 2019, , . | | 1 |
| 42 | Antireflection Strategy for Near-Zero Refractive Index Photonic Crystals Applicable to an Element-by-Element Full-Rank Optical Wireless MIMO System. , 2019, , . | | 0 |
| 43 | Performance Evaluation of Generalized Buffer-State-Based Relay Selection in NOMA-Aided Downlink. IEEE Access, 2019, 7, 173320-173328. | 4.2 | 11 |
| 44 | Sixty Years of Coherent Versus Non-Coherent Tradeoffs and the Road From 5G to Wireless Futures. IEEE Access, 2019, 7, 178246-178299. | 4.2 | 49 |
| 45 | Performance Analysis and Constellation Optimization of Star-QAM-Aided Differential Faster-Than-Nyquist Signaling. IEEE Signal Processing Letters, 2019, 26, 144-148. | 3.6 | 5 |
| 46 | Spectrally Efficient Frequency Division Multiplexing With Index-Modulated Non-Orthogonal Subcarriers. IEEE Wireless Communications Letters, 2019, 8, 233-236. | 5.0 | 25 |
| 47 | Finite-Cardinality Single-RF Differential Space-Time Modulation for Improving the Diversity-Throughput Tradeoff. IEEE Transactions on Communications, 2019, 67, 318-335. | 7.8 | 20 |
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| 51 | 50 Years of Permutation, Spatial and Index Modulation: From Classic RF to Visible Light Communications and Data Storage. IEEE Communications Surveys and Tutorials, 2018, 20, 1905-1938. | 39.4 | 132 |
| 52 | Faster-Than-Nyquist Signaling with Differential Encoding and Non Coherent Detection. , 2018, , . | | 2 |
| 53 | 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. | 7.8 | 20 |
| 54 | Low-Complexity Sphere Search-Based Adaptive Spatial Modulation. IEEE Transactions on Vehicular Technology, 2018, 67, 7836-7840. | 6.3 | 6 |

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| 61 | Buffer-State-and-Thresholding-Based Amplify-and-Forward Cooperative Networks. IEEE Wireless Communications Letters, 2017, 6, 674-677. | 5.0 | 27 |
| 62 | Iterative Frequency-Domain Joint Channel Estimation and Data Detection of Faster-Than-Nyquist Signaling. IEEE Transactions on Wireless Communications, 2017, 16, 6221-6231. | 9.2 | 50 |
| 63 | Algebraic Differential Spatial Modulation is Capable of Approaching the Performance of its Coherent Counterpart. IEEE Transactions on Communications, 2017, , 1-1. | 7.8 | 23 |
| 64 | Single-Carrier Frequency-Domain Equalization With Index Modulation. IEEE Communications Letters, 2017, 21, 298-301. | 4.1 | 52 |
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| 66 | Generalized Buffer-State-Based Relay Selection for Fixed-Rate Buffer-Aided Cooperative Systems. , 2017, , . | | 5 |
| 67 | Dual-Mode Time-Domain Index Modulation for Nyquist-Criterion and Faster-Than-Nyquist Single-Carrier Transmissions. IEEE Access, 2017, 5, 27659-27667. | 4.2 | 21 |
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| 74 | Frequency-domain equalization aided iterative detection of faster-than-Nyquist signaling with noise whitening. , 2016, , . | | 16 |
| 75 | Element-by-Element Full-Rank Optical Wireless MIMO Systems Using Narrow-Window Angular Filter Designed Based on One-Dimensional Photonic Crystal. Journal of Lightwave Technology, 2016, 34, 5601-5609. | 4.6 | 9 |
| 76 | Subcarrier-Index Modulation Aided OFDM - Will It Work?. IEEE Access, 2016, 4, 2580-2593. | 4.2 | 167 |
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| 85 | Deep-Subwavelength MIMO Using Graphene-Based Nanoscale Communication Channel. IEEE Access, 2014, 2, 1240-1247. | 4.2 | 3 |
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| 111 | Reduced-Complexity Noncoherently Detected Differential Space-Time Shift Keying. IEEE Signal Processing Letters, 2011, 18, 153-156. | 3.6 | 35 |
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| 122 | Coherent and Differential Space-Time Shift Keying: A Dispersion Matrix Approach. IEEE Transactions on Communications, 2010, 58, 3219-3230. | 7.8 | 233 |
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| 127 | Reduced-Complexity Iterative Markov Chain MBER Detection for MIMO Systems. IEEE Signal Processing Letters, 2009, 16, 160-163. | 3.6 | 6 |
| 128 | Improved Markov Chain MBER Detection for Steered Linear Dispersion Coded MIMO Systems. , 2009, , . | | 8 |
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| 135 | Characterization of Inductively-Coupled RF Plasma Sources with Multiple Low-Inductance Antenna Units. Japanese Journal of Applied Physics, 2006, 45, 8046-8049. | 1.5 | 58 |