Shinya Sugiura

List of Publications by Year in descending order

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

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| 1 | Spatial Modulation for Generalized MIMO: Challenges, Opportunities, and Implementation. Proceedings of the IEEE, 2014, 102, 56-103. | 21.3 | 1,206 |
| 2 | Coherent and Differential Space-Time Shift Keying: A Dispersion Matrix Approach. IEEE Transactions on Communications, 2010, 58, 3219-3230. | 7.8 | 233 |
| 3 | Single-Carrier SM-MIMO: A Promising Design for Broadband Large-Scale Antenna Systems. IEEE Communications Surveys and Tutorials, 2016, 18, 1687-1716. | 39.4 | 200 |
| 4 | Subcarrier-Index Modulation Aided OFDM - Will It Work?. IEEE Access, 2016, 4, 2580-2593. | 4.2 | 167 |
| 5 | Generalized Space-Time Shift Keying Designed for Flexible Diversity-, Multiplexing- and Complexity-Tradeoffs. IEEE Transactions on Wireless Communications, 2011, 10, 1144-1153. | 9.2 | 139 |
| 6 | 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 |
| 7 | Frequency-Domain Equalization of Faster-than-Nyquist Signaling. IEEE Wireless Communications Letters, 2013, 2, 555-558. | 5.0 | 117 |
| 8 | Maximizing Constrained Capacity of Power-Imbalanced Optical Wireless MIMO Communications Using Spatial Modulation. Journal of Lightwave Technology, 2015, 33, 519-527. | 4.6 | 116 |
| 9 | A Universal Space-Time Architecture for Multiple-Antenna Aided Systems. IEEE Communications Surveys and Tutorials, 2012, 14, 401-420. | 39.4 | 104 |
| 10 | Reduced-Complexity Coherent Versus Non-Coherent QAM-Aided Space-Time Shift Keying. IEEE Transactions on Communications, 2011, 59, 3090-3101. | 7.8 | 97 |
| 11 | Frequency-Domain-Equalization-Aided Iterative Detection of Faster-than-Nyquist Signaling. IEEE Transactions on Vehicular Technology, 2015, 64, 2122-2128. | 6.3 | 82 |
| 12 | State-of-the-Art Design of Index Modulation in the Space, Time, and Frequency Domains: Benefits and Fundamental Limitations. IEEE Access, 2017, 5, 21774-21790. | 4.2 | 79 |
| 13 | Effects of Channel Estimation on Spatial Modulation. IEEE Signal Processing Letters, 2012, 19, 805-808. | 3.6 | 77 |
| 14 | Coherent Versus Non-Coherent Decode-and-Forward Relaying Aided Cooperative Space-Time Shift Keying. IEEE Transactions on Communications, 2011, 59, 1707-1719. | 7.8 | 75 |
| 15 | Extremely small wavevector regime in a one-dimensional photonic crystal heterostructure for angular transmission filtering. Optics Letters, 2016, 41, 3829. | 3.3 | 69 |
| 16 | Generalized Spatial Modulation Based Reduced-RF-Chain Millimeter-Wave Communications. IEEE Transactions on Vehicular Technology, 2016, , 1-1. | 6.3 | 64 |
| 17 | Spatial Modulation and Space-Time Shift Keying: Optimal Performance at a Reduced Detection Complexity. IEEE Transactions on Communications, 2013, 61, 206-216. | 7.8 | 62 |
| 18 | Two Decades of MIMO Design Tradeoffs and Reduced-Complexity MIMO Detection in Near-Capacity Systems. IEEE Access, 2017, 5, 18564-18632. | 4.2 | 60 |

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| 19 | Unified Differential Spatial Modulation. IEEE Wireless Communications Letters, 2014, 3, 337-340. | 5.0 | 59 |
| 20 | 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 |
| 21 | MIMO-Aided Near-Capacity Turbo Transceivers: Taxonomy and Performance versus Complexity. IEEE Communications Surveys and Tutorials, 2012, 14, 421-442. | 39.4 | 58 |
| 22 | Effects of Antenna Switching on Band-Limited Spatial Modulation. IEEE Wireless Communications Letters, 2014, 3, 345-348. | 5.0 | 55 |
| 23 | Single-Carrier Frequency-Domain Equalization With Index Modulation. IEEE Communications Letters, 2017, 21, 298-301. | 4.1 | 52 |
| 24 | Single-RF Spatial Modulation Requires Single-Carrier Transmission: Frequency-Domain Turbo Equalization for Dispersive Channels. IEEE Transactions on Vehicular Technology, 2015, 64, 4870-4875. | 6.3 | 51 |
| 25 | 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 |
| 26 | 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 |
| 27 | Theoretical Analysis of Hybrid Buffer-Aided Cooperative Protocol Based on Max–Max and Max–Link Relay Selections. IEEE Transactions on Vehicular Technology, 2016, 65, 9236-9246. | 6.3 | 48 |
| 28 | Rectangular Differential Spatial Modulation for Open-Loop Noncoherent Massive-MIMO Downlink. IEEE Transactions on Wireless Communications, 2017, 16, 1908-1920. | 9.2 | 43 |
| 29 | 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 |
| 30 | OFDMA/SC-FDMA Aided Space–Time Shift Keying for Dispersive Multiuser Scenarios. IEEE Transactions on Vehicular Technology, 2013, 62, 408-414. | 6.3 | 42 |
| 31 | Full-Diversity Dispersion Matrices From Algebraic Field Extensions for Differential Spatial Modulation. IEEE Transactions on Vehicular Technology, 2017, 66, 385-394. | 6.3 | 41 |
| 32 | Space-Time-Frequency Shift Keying for Dispersive Channels. IEEE Signal Processing Letters, 2011, 18, 177-180. | 3.6 | 40 |
| 33 | Semi-Blind Joint Channel Estimation and Data Detection for Space-Time Shift Keying Systems. IEEE Signal Processing Letters, 2010, 17, 993-996. | 3.6 | 36 |
| 34 | Reduced-Complexity Noncoherently Detected Differential Space-Time Shift Keying. IEEE Signal Processing Letters, 2011, 18, 153-156. | 3.6 | 35 |
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| 36 | Faster-Than-Nyquist Signaling With Index Modulation. IEEE Wireless Communications Letters, 2017, 6, 630-633. | 5.0 | 35 |

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| 37 | Unified MIMO-Multicarrier Designs: A Space–Time Shift Keying Approach. IEEE Communications Surveys and Tutorials, 2015, 17, 550-579. | 39.4 | 34 |
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| 39 | Reactively Steered Ring Antenna Array for Automotive Application. IEEE Transactions on Antennas and Propagation, 2007, 55, 1902-1908. | 5.1 | 30 |
| 40 | Reduced-Packet-Delay Generalized Buffer-Aided Relaying Protocol: Simultaneous Activation of Multiple Source-to-Relay Links. IEEE Access, 2016, 4, 3632-3646. | 4.2 | 29 |
| 41 | The Evolution of Faster-Than-Nyquist Signaling. IEEE Access, 2021, 9, 86535-86564. | 4.2 | 29 |
| 42 | Buffer-State-and-Thresholding-Based Amplify-and-Forward Cooperative Networks. IEEE Wireless Communications Letters, 2017, 6, 674-677. | 5.0 | 27 |
| 43 | 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 |
| 44 | SVD-Precoded Faster-Than-Nyquist Signaling With Optimal and Truncated Power Allocation. IEEE Transactions on Wireless Communications, 2019, 18, 5909-5923. | 9.2 | 25 |
| 45 | Spectrally Efficient Frequency Division Multiplexing With Index-Modulated Non-Orthogonal Subcarriers. IEEE Wireless Communications Letters, 2019, 8, 233-236. | 5.0 | 25 |
| 46 | Algebraic Differential Spatial Modulation is Capable of Approaching the Performance of its Coherent Counterpart. IEEE Transactions on Communications, 2017, , 1-1. | 7.8 | 23 |
| 47 | Joint Beam and Polarization Forming of Intelligent Reflecting Surfaces for Wireless Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 1648-1657. | 6.3 | 22 |
| 48 | 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 |
| 49 | Generalized Buffer-State-Based Relay Selection With Collaborative Beamforming. IEEE Transactions on Vehicular Technology, 2018, 67, 1245-1257. | 6.3 | 21 |
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| 51 | 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 |
| 52 | Dispersion Matrix Optimization for Space-Time Shift Keying. IEEE Communications Letters, 2011, 15, 1152-1155. | 4.1 | 20 |
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| 54 | Coherent Versus Non-Coherent Reconfigurable Antenna Aided Virtual MIMO Systems. IEEE Signal Processing Letters, 2014, 21, 390-394. | 3.6 | 20 |

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| 55 | 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 |
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| 63 | Stochastic-Resonance Based Iterative Detection for Serially-Concatenated Turbo Codes. IEEE Signal Processing Letters, 2012, 19, 655-658. | 3.6 | 14 |
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