Shinya Sugiura

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124
papers3,712
citations32
h-index58
g-index148
ext. papers4,512
ext. citations6.5
avg, IF6.18
L-index

#	Paper	IF	Citations
124	. Proceedings of the IEEE, 2014 , 102, 56-103	14.3	900
123	Coherent and Differential Space-Time Shift Keying: A Dispersion Matrix Approach. <i>IEEE Transactions on Communications</i> , 2010 , 58, 3219-3230	6.9	203
122	. IEEE Communications Surveys and Tutorials, 2016 , 18, 1687-1716	37.1	163
121	Subcarrier-Index Modulation Aided OFDM - Will It Work?. <i>IEEE Access</i> , 2016 , 4, 2580-2593	3.5	130
120	Generalized Space-Time Shift Keying Designed for Flexible Diversity-, Multiplexing- and Complexity-Tradeoffs. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 1144-1153	9.6	116
119	A Universal Space-Time Architecture for Multiple-Antenna Aided Systems. <i>IEEE Communications Surveys and Tutorials</i> , 2012 , 14, 401-420	37.1	87
118	Frequency-Domain Equalization of Faster-than-Nyquist Signaling. <i>IEEE Wireless Communications Letters</i> , 2013 , 2, 555-558	5.9	84
117	50 Years of Permutation, Spatial and Index Modulation: From Classic RF to Visible Light Communications and Data Storage. <i>IEEE Communications Surveys and Tutorials</i> , 2018 , 20, 1905-1938	37.1	81
116	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
115	Frequency-Domain-Equalization-Aided Iterative Detection of Faster-than-Nyquist Signaling. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 2122-2128	6.8	71
114	Maximizing Constrained Capacity of Power-Imbalanced Optical Wireless MIMO Communications Using Spatial Modulation. <i>Journal of Lightwave Technology</i> , 2015 , 33, 519-527	4	63
113	Coherent Versus Non-Coherent Decode-and-Forward Relaying Aided Cooperative Space-Time Shift Keying. <i>IEEE Transactions on Communications</i> , 2011 , 59, 1707-1719	6.9	62
112	Effects of Channel Estimation on Spatial Modulation. <i>IEEE Signal Processing Letters</i> , 2012 , 19, 805-808	3.2	61
111	State-of-the-Art Design of Index Modulation in the Space, Time, and Frequency Domains: Benefits and Fundamental Limitations. <i>IEEE Access</i> , 2017 , 5, 21774-21790	3.5	59
110	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
109	Characterization of Inductively-Coupled RF Plasma Sources with Multiple Low-Inductance Antenna Units. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 8046-8049	1.4	52
108	Unified Differential Spatial Modulation. <i>IEEE Wireless Communications Letters</i> , 2014 , 3, 337-340	5.9	51

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107	MIMO-Aided Near-Capacity Turbo Transceivers: Taxonomy and Performance versus Complexity. <i>IEEE Communications Surveys and Tutorials</i> , 2012 , 14, 421-442	37.1	50	
106	. IEEE Transactions on Vehicular Technology, 2016 , 1-1	6.8	49	
105	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	
104	Effects of Antenna Switching on Band-Limited Spatial Modulation. <i>IEEE Wireless Communications Letters</i> , 2014 , 3, 345-348	5.9	43	
103	Single-RF Spatial Modulation Requires Single-Carrier Transmission: Frequency-Domain Turbo Equalization for Dispersive Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2015 , 64, 4870-4875	6.8	42	
102	Single-Carrier Frequency-Domain Equalization With Index Modulation. <i>IEEE Communications Letters</i> , 2017 , 21, 298-301	3.8	39	
101	Theoretical Analysis of Hybrid Buffer-Aided Cooperative Protocol Based on MaxMax and MaxIlink Relay Selections. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 9236-9246	6.8	37	
100	. IEEE Transactions on Vehicular Technology, 2017 , 66, 385-394	6.8	35	
99	Iterative Frequency-Domain Joint Channel Estimation and Data Detection of Faster-Than-Nyquist Signaling. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 6221-6231	9.6	35	
98	Space-Time-Frequency Shift Keying for Dispersive Channels. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 17	77 ₃ 1£80	35	
97	Extremely small wavevector regime in a one-dimensional photonic crystal heterostructure for angular transmission filtering. <i>Optics Letters</i> , 2016 , 41, 3829-32	3	34	
96	OFDMA/SC-FDMA Aided SpaceIIime Shift Keying for Dispersive Multiuser Scenarios. <i>IEEE Transactions on Vehicular Technology</i> , 2013 , 62, 408-414	6.8	34	
95	Rectangular Differential Spatial Modulation for Open-Loop Noncoherent Massive-MIMO Downlink. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 1908-1920	9.6	33	
94	Physical Layer Security in Buffer-State-Based Max-Ratio Relay Selection Exploiting Broadcasting With Cooperative Beamforming and Jamming. <i>IEEE Transactions on Information Forensics and Security</i> , 2019 , 14, 431-444	8	33	
93	Semi-Blind Joint Channel Estimation and Data Detection for Space-Time Shift Keying Systems. <i>IEEE Signal Processing Letters</i> , 2010 , 17, 993-996	3.2	32	
92	. IEEE Communications Surveys and Tutorials, 2015 , 17, 550-579	37.1	29	
91	On the Joint Optimization of Dispersion Matrices and Constellations for Near-Capacity Irregular Precoded Space-Time Shift Keying. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 380-387	9.6	29	
90	Faster-Than-Nyquist Signaling With Index Modulation. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 630-633	5.9	29	

89	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
88	Reduced-Complexity Noncoherently Detected Differential Space-Time Shift Keying. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 153-156	3.2	28
87	Reduced-Complexity Iterative-Detection-Aided Generalized Space-Time Shift Keying. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3656-3664	6.8	25
86	Reactively Steered Ring Antenna Array for Automotive Application. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 1902-1908	4.9	24
85	Reduced-Packet-Delay Generalized Buffer-Aided Relaying Protocol: Simultaneous Activation of Multiple Source-to-Relay Links. <i>IEEE Access</i> , 2016 , 4, 3632-3646	3.5	24
84	. IEEE Wireless Communications Letters, 2017 , 6, 674-677	5.9	23
83	. IEEE Transactions on Communications, 2017 , 1-1	6.9	21
82	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
81	. IEEE Transactions on Signal Processing, 2018 , 66, 773-788	4.8	20
80	Coherent Versus Non-Coherent Reconfigurable Antenna Aided Virtual MIMO Systems. <i>IEEE Signal Processing Letters</i> , 2014 , 21, 390-394	3.2	18
79	Reduced-complexity noncoherently detected Differential Space-Time Shift Keying 2011,		18
78	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
77	Generalized Buffer-State-Based Relay Selection With Collaborative Beamforming. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 1245-1257	6.8	17
76	SVD-Precoded Faster-Than-Nyquist Signaling With Optimal and Truncated Power Allocation. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 5909-5923	9.6	17
75	Dispersion Matrix Optimization for Space-Time Shift Keying. <i>IEEE Communications Letters</i> , 2011 , 15, 1	152 3. 815	5517
74	Spectrally Efficient Frequency Division Multiplexing With Index-Modulated Non-Orthogonal Subcarriers. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 233-236	5.9	17
73	Dual-Mode Time-Domain Index Modulation for Nyquist-Criterion and Faster-Than-Nyquist Single-Carrier Transmissions. <i>IEEE Access</i> , 2017 , 5, 27659-27667	3.5	16
72	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

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71	Reduced-Complexity Soft-Decision Aided Space-Time Shift Keying. <i>IEEE Signal Processing Letters</i> , 2011 , 18, 547-550	3.2	16	
70	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	
69	Differential Faster-Than-Nyquist Signaling. <i>IEEE Access</i> , 2018 , 6, 4199-4206	3.5	14	
68	Stochastic-Resonance Based Iterative Detection for Serially-Concatenated Turbo Codes. <i>IEEE Signal Processing Letters</i> , 2012 , 19, 655-658	3.2	14	
67	Frequency-domain equalization aided iterative detection of faster-than-Nyquist signaling with noise whitening 2016 ,		13	
66	A Unified MIMO Architecture Subsuming Space Shift Keying, OSTBC, BLAST and LDC 2010 ,		12	
65	Generalized Buffer-State-Based Relay Selection in Cooperative Cognitive Radio Networks. <i>IEEE Access</i> , 2020 , 8, 11644-11657	3.5	11	
64	Quasi-Synchronous Cooperative Networks: A Practical Cooperative Transmission Protocol. <i>IEEE Vehicular Technology Magazine</i> , 2012 , 7, 66-76	9.9	11	
63	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	
62	Distance Adaptation Method for Magnetic Resonance Coupling Between Variable Capacitor-Loaded Parallel-Wire Coils. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 892-900	4.1	10	
61	The Evolution of Faster-Than-Nyquist Signaling. IEEE Access, 2021, 9, 86535-86564	3.5	10	
60	Constant-Envelope Space-Time Shift Keying. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2019 , 13, 1387-1402	7.5	9	
59	Cooperative Differential SpaceII ime Spreading for the Asynchronous Relay Aided CDMA Uplink Using Interference Rejection Spreading Code. <i>IEEE Signal Processing Letters</i> , 2010 , 17, 117-120	3.2	8	
58	Effect of Number of Elements of a Reactively Loaded Ring Antenna Array on the Performance of Beamwidth Variation. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 669-672	3.8	8	
57	Tradeoff Between Calculation Precision and Information Rate in Eigendecomposition-Based Faster-Than-Nyquist Signaling. <i>IEEE Access</i> , 2020 , 8, 223461-223471	3.5	8	
56	Performance Evaluation of Generalized Buffer-State-Based Relay Selection in NOMA-Aided Downlink. <i>IEEE Access</i> , 2019 , 7, 173320-173328	3.5	8	
55	Joint Beam and Polarization Forming of Intelligent Reflecting Surfaces for Wireless Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 1648-1657	6.8	8	
54	Secrecy Performance of Eigendecomposition-Based FTN Signaling and NOFDM in Quasi-Static Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 5872-5882	9.6	8	

53	Energy-Versus-Bandwidth-Efficiency Tradeoff in Spatially Modulated Massive MIMO Downlink. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 197-200	5.9	7
52	Differentially Modulated Spectrally Efficient Frequency-Division Multiplexing. <i>IEEE Signal Processing Letters</i> , 2019 , 26, 1046-1050	3.2	7
51	Decentralized-Precoding Aided Rateless Codes for Wireless Sensor Networks. <i>IEEE Communications Letters</i> , 2012 , 16, 506-509	3.8	7
50	Differentially-Encoded Rectangular Spatial Modulation Approaches the Performance of Its Coherent Counterpart. <i>IEEE Transactions on Communications</i> , 2020 , 68, 7593-7607	6.9	7
49	Dual-Mode Time-Domain Single-Carrier Index Modulation with Frequency-Domain Equalization 2017 ,		6
48	Generalized Virtual Full-Duplex Relaying Protocol Based on Buffer-Aided Half-Duplex Relay Nodes 2017 ,		6
47	. Journal of Lightwave Technology, 2016 , 34, 5601-5609	4	6
46	Multicarrier Division Duplex Aided Millimeter Wave Communications. <i>IEEE Access</i> , 2019 , 7, 100719-1007	′3 ,25	6
45	Bloom-Filter Aided Two-Layered Structured Overlay for Highly-Dynamic Wireless Distributed Storage. <i>IEEE Communications Letters</i> , 2013 , 17, 629-632	3.8	6
44	Reduced-Complexity QAM-Aided Space-Time Shift Keying 2011 ,		6
43	Eigenvalue-Decomposition-Precoded Ultra-Dense Non-Orthogonal Frequency-Division Multiplexing. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 1-1	9.6	6
42	IMToolkit: An Open-Source Index Modulation Toolkit for Reproducible Research Based on Massively Parallel Algorithms. <i>IEEE Access</i> , 2019 , 7, 93830-93846	3.5	5
41	. IEEE Transactions on Vehicular Technology, 2018 , 67, 10087-10091	6.8	5
40	2017,		5
39	Single- and Multiple-RF Aided Non-Coherent Generalized Spatial Modulation 2014,		5
38	Buffer-Aided Virtual Full-Duplex Cooperative Networks Exploiting Source-to-Relay Broadcast Channels 2019 ,		5
37	Performance Analysis and Constellation Optimization of Star-QAM-Aided Differential Faster-Than-Nyquist Signaling. <i>IEEE Signal Processing Letters</i> , 2019 , 26, 144-148	3.2	5
36	Hybrid NOMA/OMA Broadcasting-and-Buffer-State-Based Relay Selection. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 1618-1631	6.8	5

35	Coherent Versus Noncoherent. IEEE Vehicular Technology Magazine, 2011, 6, 38-48	9.9	4
34	Improved Markov Chain MBER Detection for Steered Linear Dispersion Coded MIMO Systems 2009,		4
33	A Review of Recent Patents on Reactance-Loaded Reconfigurable Antennas. <i>Recent Patents on Electrical Engineering</i> , 2009 , 2, 200-206		4
32	Eigenvalue Decomposition Precoded Faster-Than-Nyquist Transmission of Index Modulated Symbols 2021 ,		4
31	Exit-Chart-Based Design of Irregular Precoded Power-Imbalanced Optical Spatial Modulation 2015,		3
30	Deep-Subwavelength MIMO Using Graphene-Based Nanoscale Communication Channel. <i>IEEE Access</i> , 2014 , 2, 1240-1247	3.5	3
29	MC-CDMA aided multi-user space-time shift keying in wideband channels 2013,		3
28	Reduced-Complexity Iterative Markov Chain MBER Detection for MIMO Systems. <i>IEEE Signal Processing Letters</i> , 2009 , 16, 160-163	3.2	3
27	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
26	On the Simultaneous Exploitation of Multiple Source-to-Relay Channels in Buffer-Aided Two-Hop Cooperative Networks 2016 ,		3
25	Low-Complexity Sphere Search-Based Adaptive Spatial Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 7836-7840	6.8	3
24	Eigendecomposition-Precoded Faster-Than-Nyquist Signaling With Optimal Power Allocation in Frequency-Selective Fading Channel. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	3
23	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
22	Semi-Blind Adaptive Space-Time Shift Keying Systems Based on Iterative Channel Estimation and Data Detection 2011 ,		2
21	Iterative soft-detection of Space-Time-Frequency Shift Keying 2012 ,		2
20	Varactor-Loaded H-Shaped Antenna With Radiation Pattern Control. <i>IEEE Transactions on Antennas and Propagation</i> , 2008 , 56, 2833-2840	4.9	2
19	QoS-Constrained Optimization of Intelligent Reflecting Surface Aided Secure Energy-Efficient Transmission. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 5137-5142	6.8	2
18	Impact of Inter-Frame Interference on Eigendecomposition-Precoded Non-Orthogonal Frequency-Division Multiplexing. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1567-1571	5.9	2

17	. IEEE Open Journal of the Communications Society, 2021 , 2, 1862-1873	6.7	2
16	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
15	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
14	Speed-dependent autonomous beamwidth variation for VANET safety applications 2015,		1
13	Varactor-loaded compact folded dipole antenna for digital terrestrial radio reception. <i>Microwave and Optical Technology Letters</i> , 2010 , 52, 1463-1466	1.2	1
12	Eigenspace-based blind pattern optimisations of steerable antenna array for interference cancellation. <i>IET Microwaves, Antennas and Propagation</i> , 2008 , 2, 358-366	1.6	1
11	Variable-Block-Length Joint Channel Estimation and Data Detection for Spatial Modulation Over Time-Varying Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 13964-13969	6.8	1
10	Precoded Faster-than-Nyquist Signaling with Optimal Power Allocation in Frequency-Selective Channel 2021 ,		1
9	. IEEE Transactions on Wireless Communications, 2021 , 20, 3847-3864	9.6	1
8	Optimal and Suboptimal Power Allocation for SVD-Precoded Faster-than-Nyquist Signaling 2019 ,		1
7	Quantum Speedup for Index Modulation. <i>IEEE Access</i> , 2021 , 9, 111114-111124	3.5	1
6	Reduced-Complexity FFT-Spread Multicarrier Faster-Than-Nyquist Signaling in Frequency-Selective Fading Channel. <i>IEEE Open Journal of the Communications Society</i> , 2022 , 3, 530-542	6.7	1
5	Eigendecomposition-Precoded Faster-Than-Nyquist Signaling With Index Modulation. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	1
4	QoS-Constrained Energy-Efficient Beamforming and Jamming With Intelligent Reflecting Surface for Secure Multi-User Downlink. <i>IEEE Transactions on Green Communications and Networking</i> , 2022 , 1-1	4	O
3	Cylindrical high impedance surface aided horizontally polarised omnidirectional antenna. <i>Electronics Letters</i> , 2013 , 49, 242-243	1.1	
2	Effects of Eigenvalue Distribution on Precoded Faster-than-Nyquist Signaling with Power Allocation		
1	Error Probability Analysis for Time-Varying Chaos Unitary Matrix based Differential MIMO System. <i>IEEE Wireless Communications Letters</i> , 2022 , 1-1	5.9	