

Ertugrul Basar

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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.

151
papers

5,255
citations

28
h-index

70
g-index

195
ext. papers

7,113
ext. citations

4.7
avg, IF

7.2
L-index

#	Paper	IF	Citations
151	Wireless Communications Through Reconfigurable Intelligent Surfaces. <i>IEEE Access</i> , 2019 , 7, 116753-116763	7.3	833
150	Orthogonal Frequency Division Multiplexing With Index Modulation. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 5536-5549	4.8	554
149	Index Modulation Techniques for Next-Generation Wireless Networks. <i>IEEE Access</i> , 2017 , 5, 16693-16746	5.5	408
148	Index modulation techniques for 5G wireless networks 2016 , 54, 168-175		335
147	Space-Time Block Coded Spatial Modulation. <i>IEEE Transactions on Communications</i> , 2011 , 59, 823-832	6.9	250
146	Reconfigurable Intelligent Surface-Based Index Modulation: A New Beyond MIMO Paradigm for 6G. <i>IEEE Transactions on Communications</i> , 2020 , 68, 3187-3196	6.9	213
145	Multiple-Mode Orthogonal Frequency Division Multiplexing With Index Modulation. <i>IEEE Transactions on Communications</i> , 2017 , 65, 3892-3906	6.9	177
144	OFDM With Index Modulation Using Coordinate Interleaving. <i>IEEE Wireless Communications Letters</i> , 2015 , 4, 381-384	5.9	146
143	On Multiple-Input Multiple-Output OFDM with Index Modulation for Next Generation Wireless Networks. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 3868-3878	4.8	124
142	Enhanced Orthogonal Frequency Division Multiplexing With Index Modulation. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 4786-4801	9.6	116
141	Performance of Spatial Modulation in the Presence of Channel Estimation Errors. <i>IEEE Communications Letters</i> , 2012 , 16, 176-179	3.8	113
140	Transmission Through Large Intelligent Surfaces: A New Frontier in Wireless Communications 2019 ,		111
139	Multiple-Input Multiple-Output OFDM with Index Modulation. <i>IEEE Signal Processing Letters</i> , 2015 , 22, 2259-2263	3.2	98
138	Multiple-Input Multiple-Output OFDM With Index Modulation: Low-Complexity Detector Design. <i>IEEE Transactions on Signal Processing</i> , 2017 , 65, 2758-2772	4.8	74
137	New Trellis Code Design for Spatial Modulation. <i>IEEE Transactions on Wireless Communications</i> , 2011 , 10, 2670-2680	9.6	69
136	Generalized Multiple-Mode OFDM With Index Modulation. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 6531-6543	9.6	65
135	Spatial Modulation-Aided Cooperative NOMA: Performance Analysis and Comparative Study. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2019 , 13, 715-728	7.5	58

134	Optical MIMO-OFDM With Generalized LED Index Modulation. <i>IEEE Transactions on Communications</i> , 2017 , 1-1	6.9	57
133	Space-Time Channel Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 7609-7614	6.8	48
132	Orbital Angular Momentum With Index Modulation. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2029-2037	9.6	48
131	Index Modulated OFDM Spread Spectrum. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2360-2374	9.2	46
130	Equiprobable Subcarrier Activation Method for OFDM With Index Modulation. <i>IEEE Communications Letters</i> , 2016 , 20, 2386-2389	3.8	45
129	OFDM-Subcarrier Index Selection for Enhancing Security and Reliability of 5G URLLC Services. <i>IEEE Access</i> , 2017 , 5, 25863-25875	3.5	44
128	Modeling and Analysis of Reconfigurable Intelligent Surfaces for Indoor and Outdoor Applications in Future Wireless Networks. <i>IEEE Transactions on Communications</i> , 2021 , 69, 1290-1301	6.9	41
127	. <i>IEEE Communications Letters</i> , 2020 , 24, 2632-2636	3.8	39
126	Diversity Enhancing Multiple-Mode OFDM With Index Modulation. <i>IEEE Transactions on Communications</i> , 2018 , 66, 3653-3666	6.9	36
125	Index Modulation for Molecular Communication via Diffusion Systems. <i>IEEE Transactions on Communications</i> , 2019 , 67, 3337-3350	6.9	32
124	Media-Based Modulation for Future Wireless Systems: A Tutorial. <i>IEEE Wireless Communications</i> , 2019 , 26, 160-166	13.4	31
123	Reconfigurable Intelligent Surface-Assisted Space Shift Keying. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1495-1499	5.9	27
122	BER Analysis of Dual-Hop Relaying With Energy Harvesting in Nakagami- m Fading Channel. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 4352-4361	9.6	26
121	Orthogonal frequency division multiplexing with index modulation 2012 ,		25
120	Two-Way Full-Duplex Spatial Modulation Systems With Wireless Powered AF Relaying. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 444-447	5.9	24
119	Code-Index Modulation Aided Quadrature Spatial Modulation for High-Rate MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 10257-10261	6.8	24
118	Low-complexity detection of quadrature spatial modulation. <i>Electronics Letters</i> , 2016 , 52, 1729-1731	1.1	23
117	Hybrid RIS-Empowered Reflection and Decode-and-Forward Relaying for Coverage Extension. <i>IEEE Communications Letters</i> , 2021 , 25, 1692-1696	3.8	21

116	Joint Code-Frequency Index Modulation for IoT and Multi-User Communications. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2019 , 13, 1223-1236	7.5	19
115	. <i>IEEE Transactions on Communications</i> , 2019 , 67, 3154-3166	6.9	19
114	Quadrature Channel Modulation. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 790-793	5.9	19
113	Practical Implementation of Index Modulation-Based Waveforms. <i>IEEE Access</i> , 2017 , 5, 25463-25473	3.5	19
112	Multidimensional Index Modulation for 5G and Beyond Wireless Networks. <i>Proceedings of the IEEE</i> , 2021 , 109, 170-199	14.3	19
111	Indoor and Outdoor Physical Channel Modeling and Efficient Positioning for Reconfigurable Intelligent Surfaces in mmWave Bands. <i>IEEE Transactions on Communications</i> , 2021 , 1-1	6.9	19
110	Low-Cost Uplink Sparse Code Multiple Access for Spatial Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 9313-9317	6.8	18
109	Differential Subcarrier Index Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 7429-7436	6.8	18
108	Index Modulation Aided Subcarrier Mapping for Dual-Hop OFDM Relaying. <i>IEEE Transactions on Communications</i> , 2019 , 67, 6012-6024	6.9	17
107	Reconfigurable Intelligent Surfaces for Future Wireless Networks: A Channel Modeling Perspective. <i>IEEE Wireless Communications</i> , 2021 , 28, 108-114	13.4	17
106	Generalized Frequency Division Multiplexing with Index Modulation 2016 ,		17
105	Reconfigurable intelligent surfaces for wireless communications: Overview of hardware designs, channel models, and estimation techniques. <i>Intelligent and Converged Networks</i> , 2022 , 3, 1-32	4	17
104	. <i>IEEE Journal on Selected Areas in Communications</i> , 2019 , 37, 2001-2013	14.2	16
103	High-rate full-diversity space-time block codes for three and four transmit antennas. <i>IET Communications</i> , 2009 , 3, 1371	1.3	16
102	Low Complexity Adaptation for Reconfigurable Intelligent Surface-Based MIMO Systems. <i>IEEE Communications Letters</i> , 2020 , 24, 2946-2950	3.8	16
101	Generalized Code Index Modulation and Spatial Modulation for High Rate and Energy-Efficient MIMO Systems on Rayleigh Block-Fading Channel. <i>IEEE Systems Journal</i> , 2021 , 15, 538-545	4.3	16
100	Spatial Modulation in the Presence of I/Q Imbalance: Optimal Detector & Performance Analysis. <i>IEEE Communications Letters</i> , 2018 , 22, 1572-1575	3.8	16
99	Double spatial modulation: A high-rate index modulation scheme for MIMO systems 2016 ,		15

98	Reconfigurable Intelligent Surface-Empowered MIMO Systems. <i>IEEE Systems Journal</i> , 2021 , 15, 4358-4366	15
97	Generalized LED index modulation optical OFDM for MIMO visible light communications systems 2016 ,	14
96	Super-orthogonal trellis-coded spatial modulation. <i>IET Communications</i> , 2012 , 6, 2922-2932	1.3 14
95	Adaptive dual-mode OFDM with index modulation. <i>Physical Communication</i> , 2018 , 30, 15-25	2.2 13
94	. <i>IEEE Signal Processing Magazine</i> , 2019 , 36, 157-163	9.4 13
93	Generalized Frequency Division Multiplexing With Flexible Index Modulation. <i>IEEE Access</i> , 2017 , 5, 24727-24746	3.5 13
92	. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 192-204	9.6 13
91	Source Transmit Antenna Selection for Space Shift Keying With Cooperative Relays. <i>IEEE Communications Letters</i> , 2017 , 21, 1211-1214	3.8 12
90	Performance analysis of space shift keying for AF relaying with relay selection. <i>AEU - International Journal of Electronics and Communications</i> , 2017 , 81, 74-82	2.8 12
89	Present and Future of Reconfigurable Intelligent Surface-Empowered Communications [Perspectives]. <i>IEEE Signal Processing Magazine</i> , 2021 , 38, 146-152	9.4 12
88	Receive Quadrature Reflecting Modulation for RIS-Empowered Wireless Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 5121-5125	6.8 12
87	Reconfigurable Intelligent Surface-Assisted Uplink Sparse Code Multiple Access. <i>IEEE Communications Letters</i> , 2021 , 25, 2058-2062	3.8 12
86	Design and Implementation of MIMO Transmission Based on Dual-Polarized Reconfigurable Intelligent Surface. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9 12
85	Multiple-input-multiple-output cooperative spatial modulation systems. <i>IET Communications</i> , 2017 , 11, 2289-2296	1.3 11
84	Full-rate full-diversity STBCs for three and four transmit antennas. <i>Electronics Letters</i> , 2008 , 44, 1076	1.1 11
83	Interpolation based pilot-aided channel estimation for STBC spatial modulation and performance analysis under imperfect CSI. <i>IET Communications</i> , 2016 , 10, 1820-1828	1.3 11
82	Optical OFDM with index modulation for visible light communications 2015 ,	10
81	Reconfigurable Intelligent Surfaces for Doppler Effect and Multipath Fading Mitigation. <i>Frontiers in Communications and Networks</i> , 2021 , 2,	3.3 10

80	Pulse Position-Based Spatial Modulation for Molecular Communications. <i>IEEE Communications Letters</i> , 2019 , 23, 596-599	3.8	9
79	Performance Analysis of Cooperative Spectrum Sharing for Cognitive Radio Networks Using Spatial Modulation at Secondary Users 2016 ,		9
78	Orthogonal frequency division multiplexing with index modulation in the presence of high mobility 2013 ,		9
77	Guard Band Reduction for 5G and Beyond Multiple Numerologies. <i>IEEE Communications Letters</i> , 2020 , 24, 644-647	3.8	9
76	Index Modulation Aided Uplink NOMA for Massive Machine Type Communications. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 2159-2162	5.9	9
75	Code Index Modulation and Spatial Modulation: A New High Rate and Energy Efficient Scheme for MIMO Systems 2018 ,		9
74	SimRIS Channel Simulator for Reconfigurable Intelligent Surface-Empowered Communication Systems 2020 ,		9
73	Cognitive Networks in the Presence of I/Q Imbalance and Imperfect CSI: Receiver Design and Performance Analysis. <i>IEEE Access</i> , 2019 , 7, 49765-49777	3.5	8
72	Joint Impact of I/Q Imbalance and Imperfect CSI on SM-MIMO Systems Over Generalized Beckmann Fading Channels: Optimal Detection and Cramer-Rao Bound. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 3034-3046	9.6	8
71	Media-based modulation for secrecy communications. <i>Electronics Letters</i> , 2018 , 54, 789-791	1.1	8
70	Space-time quadrature spatial modulation 2017 ,		8
69	Index Modulation-Based Flexible Non-Orthogonal Multiple Access. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 1942-1946	5.9	8
68	Low Complexity Peak-to-Average Power Ratio Reduction in OFDM-IM 2018 ,		8
67	Trellis coded quadrature spatial modulation. <i>Physical Communication</i> , 2018 , 29, 147-155	2.2	8
66	Channel estimation for OFDM-IM systems. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2019 , 27, 1908-1921	0.9	7
65	. <i>IEEE Transactions on Communications</i> , 2014 , 62, 1431-1443	6.9	7
64	Low-complexity near-optimal detector for multiple-input multiple-output OFDM with index modulation 2017 ,		7
63	Space-time block coding for spatial modulation 2010 ,		7

62	. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 7353-7362	9.6	7
61	2016 ,		7
60	Adaptive Unipolar MIMO-OFDM for Visible Light Communications 2019 ,		6
59	Cooperative AF relaying with energy harvesting in Nakagami-m fading channel. <i>Physical Communication</i> , 2019 , 34, 105-113	2.2	6
58	Sparse-Encoded Codebook Index Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 9126-9130	6.830	6
57	Generalized Frequency Division Multiplexing With Flexible Index Modulation Numerology. <i>IEEE Signal Processing Letters</i> , 2018 , 25, 1480-1484	3.2	6
56	Generalized frequency division multiplexing with space and frequency index modulation 2017 ,		6
55	High-rate full-diversity space-time block codes with linear receivers 2009 ,		6
54	Outage probability analysis of cooperative spatial modulation systems 2016 ,		6
53	Cooperative spectrum sharing protocol using spatial modulation. <i>IET Communications</i> , 2017 , 11, 1759-1763	6.3	5
52	A Novel NOMA Solution with RIS Partitioning. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2021 , 1-1	7.5	5
51	Performance analysis of cooperative spatial modulation with multiple-antennas at relay 2016 ,		5
50	Linear Precoded Index Modulation. <i>IEEE Transactions on Communications</i> , 2019 , 67, 350-363	6.9	5
49	Exploiting Reconfigurable Intelligent Surfaces in Edge Caching: Joint Hybrid Beamforming and Content Placement Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	5
48	Flexible Generalized Spatial Modulation for Visible Light Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 1041-1045	6.8	5
47	A New RIS Architecture with a Single Power Amplifier: Energy Efficiency and Error Performance Analysis. <i>IEEE Access</i> , 2022 , 1-1	3.5	5
46	Space-Time Media-Based Modulation. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 2389-2398	4.8	4
45	Multiple-input multiple-output generalized frequency division multiplexing with index modulation. <i>Physical Communication</i> , 2019 , 34, 27-37	2.2	4

44	Space shift keying for multi-hop multi-branch networks. <i>Physical Communication</i> , 2018 , 27, 161-169	2.2	4
43	Trellis Code Design for Spatial Modulation 2011 ,		4
42	Magnitude and Wrap-Phase OFDM for MIMO Visible Light Communication Systems. <i>IEEE Communications Letters</i> , 2021 , 25, 2324-2328	3.8	4
41	Cognitive cross network design with physical-layer coding and spatial modulation. <i>Electronics Letters</i> , 2017 , 53, 432-434	1.1	3
40	An ILI Mitigating Modulation Scheme for Molecular MIMO Communications 2019 ,		3
39	NOMA-based downlink relaying with media-based modulation. <i>Physical Communication</i> , 2020 , 41, 101116.2	6.2	3
38	Molecular Index Modulation With Space-Time Equalization. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 702-705	5.9	3
37	A novel MIMO scheme based on code-index modulation and spatial modulation 2018 ,		3
36	Full-duplex spatial modulation systems under imperfect channel state information 2017 ,		3
35	Quadrature spatial modulation for large scale MIMO systems 2017 ,		3
34	OFDM Spread Spectrum with Index Modulation 2017 ,		3
33	Trellis Coded Space-Shift Keying Modulation 2014 ,		3
32	Reconfigurable Intelligent Surface Optimization for Uplink Sparse Code Multiple Access. <i>IEEE Communications Letters</i> , 2021 , 1-1	3.8	3
31	A Novel RIS-Assisted Modulation Scheme. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1359-1363	5.9	3
30	Uplink Achievable Rate Maximization for Reconfigurable Intelligent Surface Aided Millimeter Wave Systems With Resolution-Adaptive ADCs. <i>IEEE Wireless Communications Letters</i> , 2021 , 10, 1608-1612	5.9	3
29	Fading-aligned OFDM with index modulation for mMTC services. <i>Physical Communication</i> , 2019 , 35, 100680	8.0	2
28	Universal Filtered OFDM with Filter Shift Keying - Invited Paper 2018 ,		2
27	A new technique for OFDM: OFDM-index modulation 2013 ,		2

26	MBM-Aided Uplink Cooperative NOMA With Hardware Impairments and Imperfect CSI. <i>IEEE Communications Letters</i> , 2021 , 25, 1830-1834	3.8	2
25	A cooperative spectrum sharing protocol using STBC-SM at secondary user 2016 ,		2
24	Visible Light and mmWave Propagation Channel Comparison for Vehicular Communications 2019 ,		2
23	Fractional Media-Based Modulation with Golden Angle Modulation 2019 ,		2
22	Joint Transmit-and-Receive Antenna Selection System for MIMO-NOMA With Energy Harvesting. <i>IEEE Systems Journal</i> , 2021 , 1-10	4.3	2
21	Imperfect CSI and Improper Gaussian Noise Effects on SSK: Optimal Detection and Error Analysis 2018 ,		2
20	Performance Evaluation of a Live Multi-Site LTE Network. <i>IEEE Access</i> , 2018 , 6, 49690-49704	3.5	2
19	Coordinate Interleaved OFDM with Power Distribution Index Modulation. <i>IEEE Communications Letters</i> , 2022 , 1-1	3.8	2
18	Performance of MIMO enhanced unipolar OFDM with realistic indoor visible light channel models 2016 ,		1
17	Multi-hop space shift keying with path selection 2017 ,		1
16	Corrections on "Cooperative Communications Using Reliability-Forwarding Relays". <i>IEEE Transactions on Communications</i> , 2013 , 61, 4030-4030	6.9	1
15	Orthogonal frequency division multiplexing with power distribution index modulation. <i>Electronics Letters</i> , 2020 , 56, 1156-1159	1.1	1
14	Network Cost Minimization for Reconfigurable Intelligent Surface aided Edge Caching 2021 ,		1
13	Coordinate Interleaved Orthogonal Design With Media-Based Modulation. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 2867-2871	6.8	1
12	Performance of MIMO enhanced unipolar OFDM with realistic indoor visible light channel models 2016 ,		1
11	Location-Aware Adaptive Physical Layer Design for Vehicular Visible Light Communication 2019 ,		1
10	. <i>IEEE Systems Journal</i> , 2020 , 14, 500-509	4.3	1
9	Physical Channel Modeling for RIS-Empowered Wireless Networks in Sub-6 GHz Bands : (Invited Paper) 2021 ,		1

8	STAR-RIS-NOMA Networks: An Error Performance Perspective. <i>IEEE Communications Letters</i> , 2022 , 1-1	3.8	1
7	Quadrature spatial modulation based multiuser MIMO transmission system. <i>IET Communications</i> , 2020 , 14, 1147-1154	1.3	0
6	Inter-numerology interference in OFDM-IM systems. <i>IET Communications</i> , 2021 , 15, 1941-1949	1.3	0
5	Energy-Efficient Data Transmission for Capacitive-Coupled Human Body Communication Systems 2021 , 1-1		0
4	Spatially Modulated Bidirectional Cognitive Cross Network Design With Physical-Layer Coding. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 6185-6192	6.8	
3	IEEE Access Special Section Editorial: Index Modulation Techniques for Next-Generation Wireless Networks. <i>IEEE Access</i> , 2018 , 6, 26452-26456	3.5	
2	Flexible Quadrature Spatial Pulse Amplitude Modulation for VLC Systems. <i>IEEE Systems Journal</i> , 2021 , 1-10	4.3	
1	Index Modulation Based Coordinate Interleaved Orthogonal Design for Secure Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 5155-5159	6.8	