

Ertugrul Basar

List of Publications by Year in descending order

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193
papers

9,249
citations

87723

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46693

89
g-index

195
all docs

195
docs citations

195
times ranked

3383
citing authors

| # | ARTICLE | IF | CITATIONS |
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| 1 | Wireless Communications Through Reconfigurable Intelligent Surfaces. IEEE Access, 2019, 7, 116753-116773. | 2.6 | 1,743 |
| 2 | Orthogonal Frequency Division Multiplexing With Index Modulation. IEEE Transactions on Signal Processing, 2013, 61, 5536-5549. | 3.2 | 827 |
| 3 | Index Modulation Techniques for Next-Generation Wireless Networks. IEEE Access, 2017, 5, 16693-16746. | 2.6 | 622 |
| 4 | Index modulation techniques for 5G wireless networks. , 2016, 54, 168-175. | | 502 |
| 5 | Reconfigurable Intelligent Surface-Based Index Modulation: A New Beyond MIMO Paradigm for 6G. IEEE Transactions on Communications, 2020, 68, 3187-3196. | 4.9 | 457 |
| 6 | Space-Time Block Coded Spatial Modulation. IEEE Transactions on Communications, 2011, 59, 823-832. | 4.9 | 336 |
| 7 | Multiple-Mode Orthogonal Frequency Division Multiplexing With Index Modulation. IEEE Transactions on Communications, 2017, 65, 3892-3906. | 4.9 | 261 |
| 8 | Transmission Through Large Intelligent Surfaces: A New Frontier in Wireless Communications. , 2019, , . | | 206 |
| 9 | OFDM With Index Modulation Using Coordinate Interleaving. IEEE Wireless Communications Letters, 2015, 4, 381-384. | 3.2 | 199 |
| 10 | On Multiple-Input Multiple-Output OFDM with Index Modulation for Next Generation Wireless Networks. IEEE Transactions on Signal Processing, 2016, 64, 3868-3878. | 3.2 | 177 |
| 11 | Enhanced Orthogonal Frequency Division Multiplexing With Index Modulation. IEEE Transactions on Wireless Communications, 2017, 16, 4786-4801. | 6.1 | 159 |
| 12 | Modeling and Analysis of Reconfigurable Intelligent Surfaces for Indoor and Outdoor Applications in Future Wireless Networks. IEEE Transactions on Communications, 2021, 69, 1290-1301. | 4.9 | 147 |
| 13 | Performance of Spatial Modulation in the Presence of Channel Estimation Errors. IEEE Communications Letters, 2012, 16, 176-179. | 2.5 | 144 |
| 14 | Multiple-Input Multiple-Output OFDM with Index Modulation. IEEE Signal Processing Letters, 2015, 22, 2259-2263. | 2.1 | 133 |
| 15 | Reconfigurable intelligent surfaces for wireless communications: Overview of hardware designs, channel models, and estimation techniques. Intelligent and Converged Networks, 2022, 3, 1-32. | 3.2 | 132 |
| 16 | Multiple-Input Multiple-Output OFDM With Index Modulation: Low-Complexity Detector Design. IEEE Transactions on Signal Processing, 2017, 65, 2758-2772. | 3.2 | 95 |
| 17 | Generalized Multiple-Mode OFDM With Index Modulation. IEEE Transactions on Wireless Communications, 2018, 17, 6531-6543. | 6.1 | 95 |
| 18 | OFDM-Subcarrier Index Selection for Enhancing Security and Reliability of 5G URLLC Services. IEEE Access, 2017, 5, 25863-25875. | 2.6 | 85 |

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| 19 | New Trellis Code Design for Spatial Modulation. IEEE Transactions on Wireless Communications, 2011, 10, 2670-2680. | 6.1 | 84 |
| 20 | Index Modulated OFDM Spread Spectrum. IEEE Transactions on Wireless Communications, 2018, 17, 2360-2374. | 6.1 | 80 |
| 21 | Optical MIMO-OFDM with Generalized LED Index Modulation. IEEE Transactions on Communications, 2017, , 1-1. | 4.9 | 78 |
| 22 | Spatial Modulation-Aided Cooperative NOMA: Performance Analysis and Comparative Study. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 715-728. | 7.3 | 78 |
| 23 | Reconfigurable Intelligent Surface-Assisted Space Shift Keying. IEEE Wireless Communications Letters, 2020, 9, 1495-1499. | 3.2 | 75 |
| 24 | Space-Time Channel Modulation. IEEE Transactions on Vehicular Technology, 2017, 66, 7609-7614. | 3.9 | 70 |
| 25 | Orbital Angular Momentum With Index Modulation. IEEE Transactions on Wireless Communications, 2018, 17, 2029-2037. | 6.1 | 68 |
| 26 | Hybrid RIS-Empowered Reflection and Decode-and-Forward Relaying for Coverage Extension. IEEE Communications Letters, 2021, 25, 1692-1696. | 2.5 | 67 |
| 27 | Indoor and Outdoor Physical Channel Modeling and Efficient Positioning for Reconfigurable Intelligent Surfaces in mmWave Bands. IEEE Transactions on Communications, 2021, 69, 8600-8611. | 4.9 | 66 |
| 28 | Intelligent Reflecting Surface Enhanced Millimeter-Wave NOMA Systems. IEEE Communications Letters, 2020, 24, 2632-2636. | 2.5 | 64 |
| 29 | Reconfigurable Intelligent Surfaces for Future Wireless Networks: A Channel Modeling Perspective. IEEE Wireless Communications, 2021, 28, 108-114. | 6.6 | 60 |
| 30 | Equiprobable Subcarrier Activation Method for OFDM With Index Modulation. IEEE Communications Letters, 2016, 20, 2386-2389. | 2.5 | 57 |
| 31 | Present and Future of Reconfigurable Intelligent Surface-Empowered Communications [Perspectives]. IEEE Signal Processing Magazine, 2021, 38, 146-152. | 4.6 | 55 |
| 32 | Media-Based Modulation for Future Wireless Systems: A Tutorial. IEEE Wireless Communications, 2019, 26, 160-166. | 6.6 | 54 |
| 33 | Diversity Enhancing Multiple-Mode OFDM With Index Modulation. IEEE Transactions on Communications, 2018, 66, 3653-3666. | 4.9 | 50 |
| 34 | Multidimensional Index Modulation for 5G and Beyond Wireless Networks. Proceedings of the IEEE, 2021, 109, 170-199. | 16.4 | 50 |
| 35 | Index Modulation for Molecular Communication via Diffusion Systems. IEEE Transactions on Communications, 2019, 67, 3337-3350. | 4.9 | 49 |
| 36 | Receive Quadrature Reflecting Modulation for RIS-Empowered Wireless Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 5121-5125. | 3.9 | 48 |

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| 37 | Low Complexity Adaptation for Reconfigurable Intelligent Surface-Based MIMO Systems. IEEE Communications Letters, 2020, 24, 2946-2950. | 2.5 | 43 |
| 38 | BER Analysis of Dual-Hop Relaying With Energy Harvesting in Nakagami- m Fading Channel. IEEE Transactions on Wireless Communications, 2018, 17, 4352-4361. | 6.1 | 41 |
| 39 | Code-Index Modulation Aided Quadrature Spatial Modulation for High-Rate MIMO Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 10257-10261. | 3.9 | 41 |
| 40 | Generalized Code Index Modulation and Spatial Modulation for High Rate and Energy-Efficient MIMO Systems on Rayleigh Block-Fading Channel. IEEE Systems Journal, 2021, 15, 538-545. | 2.9 | 41 |
| 41 | Reconfigurable Intelligent Surfaces for Doppler Effect and Multipath Fading Mitigation. Frontiers in Communications and Networks, 2021, 2, . | 1.9 | 41 |
| 42 | Orthogonal frequency division multiplexing with index modulation. , 2012, , . | | 38 |
| 43 | SimRIS Channel Simulator for Reconfigurable Intelligent Surface-Empowered Communication Systems. , 2020, , . | | 37 |
| 44 | Two-Way Full-Duplex Spatial Modulation Systems With Wireless Powered AF Relaying. IEEE Wireless Communications Letters, 2018, 7, 444-447. | 3.2 | 36 |
| 45 | Quadrature Channel Modulation. IEEE Wireless Communications Letters, 2017, 6, 790-793. | 3.2 | 33 |
| 46 | Reconfigurable Intelligent Surface-Empowered MIMO Systems. IEEE Systems Journal, 2021, 15, 4358-4366. | 2.9 | 30 |
| 47 | A Novel NOMA Solution With RIS Partitioning. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 70-81. | 7.3 | 30 |
| 48 | Low-complexity detection of quadrature spatial modulation. Electronics Letters, 2016, 52, 1729-1731. | 0.5 | 29 |
| 49 | Differential Subcarrier Index Modulation. IEEE Transactions on Vehicular Technology, 2018, 67, 7429-7436. | 3.9 | 29 |
| 50 | Impact of I/Q Imbalance on Amplify-and-Forward Relaying: Optimal Detector Design and Error Performance. IEEE Transactions on Communications, 2019, 67, 3154-3166. | 4.9 | 29 |
| 51 | Opportunistic Spectrum Sharing Based on OFDM With Index Modulation. IEEE Transactions on Wireless Communications, 2020, 19, 192-204. | 6.1 | 29 |
| 52 | Design and Implementation of MIMO Transmission Based on Dual-Polarized Reconfigurable Intelligent Surface. IEEE Wireless Communications Letters, 2021, 10, 2155-2159. | 3.2 | 29 |
| 53 | Joint Code-Frequency Index Modulation for IoT and Multi-User Communications. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1223-1236. | 7.3 | 28 |
| 54 | Practical Implementation of Index Modulation-Based Waveforms. IEEE Access, 2017, 5, 25463-25473. | 2.6 | 27 |

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| 55 | Reconfigurable Intelligent Surface-Assisted Uplink Sparse Code Multiple Access. IEEE Communications Letters, 2021, 25, 2058-2062. | 2.5 | 27 |
| 56 | Double spatial modulation: A high-rate index modulation scheme for MIMO systems. , 2016, , . | | 26 |
| 57 | Index Modulation Aided Subcarrier Mapping for Dual-Hop OFDM Relaying. IEEE Transactions on Communications, 2019, 67, 6012-6024. | 4.9 | 25 |
| 58 | Low-Cost Uplink Sparse Code Multiple Access for Spatial Modulation. IEEE Transactions on Vehicular Technology, 2019, 68, 9313-9317. | 3.9 | 25 |
| 59 | STAR-RIS-NOMA Networks: An Error Performance Perspective. IEEE Communications Letters, 2022, 26, 1784-1788. | 2.5 | 25 |
| 60 | Generalized Frequency Division Multiplexing with Index Modulation. , 2016, , . | | 24 |
| 61 | A New RIS Architecture With a Single Power Amplifier: Energy Efficiency and Error Performance Analysis. IEEE Access, 2022, 10, 44804-44815. | 2.6 | 24 |
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| 63 | Index Modulation Aided Uplink NOMA for Massive Machine Type Communications. IEEE Wireless Communications Letters, 2020, 9, 2159-2162. | 3.2 | 23 |
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| 67 | Multiple-input-output cooperative spatial modulation systems. IET Communications, 2017, 11, 2289-2296. | 1.5 | 21 |
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| 69 | Adaptive dual-mode OFDM with index modulation. Physical Communication, 2018, 30, 15-25. | 1.2 | 21 |
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| 72 | Generalized Frequency Division Multiplexing With Flexible Index Modulation. IEEE Access, 2017, 5, 24727-24746. | 2.6 | 20 |

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| 73 | Index Modulation-Based Flexible Non-Orthogonal Multiple Access. IEEE Wireless Communications Letters, 2020, 9, 1942-1946. | 3.2 | 20 |
| 74 | Uplink Achievable Rate Maximization for Reconfigurable Intelligent Surface Aided Millimeter Wave Systems With Resolution-Adaptive ADCs. IEEE Wireless Communications Letters, 2021, 10, 1608-1612. | 3.2 | 19 |
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| 77 | Space-time block coding for spatial modulation. , 2010, , . | | 17 |
| 78 | Generalized LED index modulation optical OFDM for MIMO visible light communications systems. , 2016, , . | | 17 |
| 79 | Source Transmit Antenna Selection for Space Shift Keying With Cooperative Relays. IEEE Communications Letters, 2017, 21, 1211-1214. | 2.5 | 17 |
| 80 | Performance analysis of space shift keying for AF relaying with relay selection. AEU - International Journal of Electronics and Communications, 2017, 81, 74-82. | 1.7 | 17 |
| 81 | Joint Impact of I/Q Imbalance and Imperfect CSI on SM-MIMO Systems Over Generalized Beckmann Fading Channels: Optimal Detection and Cramer-Rao Bound. IEEE Transactions on Wireless Communications, 2020, 19, 3034-3046. | 6.1 | 16 |
| 82 | Exploiting Reconfigurable Intelligent Surfaces in Edge Caching: Joint Hybrid Beamforming and Content Placement Optimization. IEEE Transactions on Wireless Communications, 2021, 20, 7799-7812. | 6.1 | 16 |
| 83 | A Novel RIS-Assisted Modulation Scheme. IEEE Wireless Communications Letters, 2021, 10, 1359-1363. | 3.2 | 16 |
| 84 | Super-orthogonal trellis-coded spatial modulation. IET Communications, 2012, 6, 2922-2932. | 1.5 | 15 |
| 85 | Pulse Position-Based Spatial Modulation for Molecular Communications. IEEE Communications Letters, 2019, 23, 596-599. | 2.5 | 15 |
| 86 | Full-rate full-diversity STBCs for three and four transmit antennas. Electronics Letters, 2008, 44, 1076. | 0.5 | 14 |
| 87 | Space-Time Media-Based Modulation. IEEE Transactions on Signal Processing, 2019, 67, 2389-2398. | 3.2 | 14 |
| 88 | Spatial modulation GFDM: A low complexity MIMO-GFDM system for 5G wireless networks. , 2016, , . | | 13 |
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| 95 | MBM-Aided Uplink Cooperative NOMA With Hardware Impairments and Imperfect CSI. IEEE Communications Letters, 2021, 25, 1830-1834. | 2.5 | 13 |
| 96 | On the Performance of RIS-Assisted Space Shift Keying: Ideal and Non-Ideal Transceivers. IEEE Transactions on Communications, 2022, 70, 5799-5810. | 4.9 | 13 |
| 97 | Channel estimation for OFDM-IM systems. Turkish Journal of Electrical Engineering and Computer Sciences, 2019, 27, 1908-1921. | 0.9 | 12 |
| 98 | Cognitive Networks in the Presence of I/Q Imbalance and Imperfect CSI: Receiver Design and Performance Analysis. IEEE Access, 2019, 7, 49765-49777. | 2.6 | 12 |
| 99 | Sparse-Encoded Codebook Index Modulation. IEEE Transactions on Vehicular Technology, 2020, 69, 9126-9130. | 3.9 | 12 |
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| 101 | Outage probability analysis of cooperative spatial modulation systems. , 2016, , . | | 11 |
| 102 | Space-time quadrature spatial modulation. , 2017, , . | | 11 |
| 103 | Flexible Generalized Spatial Modulation for Visible Light Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 1041-1045. | 3.9 | 11 |
| 104 | A Reliable Successive Relaying Protocol. IEEE Transactions on Communications, 2014, 62, 1431-1443. | 4.9 | 10 |
| 105 | Performance Analysis of Cooperative Spectrum Sharing for Cognitive Radio Networks Using Spatial Modulation at Secondary Users. , 2016, , . | | 10 |
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| 124 | An ILL Mitigating Modulation Scheme for Molecular MIMO Communications. , 2019, , . | | 6 |
| 125 | OFDM-IM for Joint Communication and Radar-Sensing: A Promising Waveform for Dual Functionality. Frontiers in Communications and Networks, 2021, 2, . | 1.9 | 6 |
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| 127 | Cooperative spectrum sharing protocol using spatial modulation. IET Communications, 2017, 11, 1759-1767. | 1.5 | 5 |
| 128 | Trellis Code Design for Spatial Modulation. , 2011, , . | | 4 |
| 129 | A cooperative spectrum sharing protocol using STBC-SM at secondary user. , 2016, , . | | 4 |
| 130 | Space shift keying for multi-hop multi-branch networks. Physical Communication, 2018, 27, 161-169. | 1.2 | 4 |
| 131 | Performance Evaluation of a Live Multi-Site LTE Network. IEEE Access, 2018, 6, 49690-49704. | 2.6 | 4 |
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| 134 | Fractional Media-Based Modulation with Golden Angle Modulation. , 2019, , . | | 4 |
| 135 | Pulse Index Modulation. IEEE Communications Letters, 2021, 25, 2309-2313. | 2.5 | 4 |
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| 137 | RIS Enabled Secure Communication with Covert Constraint. , 2021, , . | | 4 |
| 138 | Index Modulation-Aided IQ Imbalance Compensator for OTFS Communications Systems. , 2022, , . | | 4 |
| 139 | Reliable two-path successive relaying. , 2013, , . | | 3 |
| 140 | Trellis Coded Space-Shift Keying Modulation. , 2014, , . | | 3 |
| 141 | Spatial modulation techniques for 5G wireless networks. , 2016, , . | | 3 |
| 142 | Cognitive cross network design with physical layer coding and spatial modulation. Electronics Letters, 2017, 53, 432-434. | 0.5 | 3 |
| 143 | Space shift keying with full duplex amplify and forward relaying. , 2017, , . | | 3 |
| 144 | Multi-hop space shift keying with path selection. , 2017, , . | | 3 |

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| 145 | Fading-aligned OFDM with index modulation for mMTC services. Physical Communication, 2019, 35, 100680. | 1.2 | 3 |
| 146 | Location-Aware Adaptive Physical Layer Design for Vehicular Visible Light Communication. , 2019, , . | | 3 |
| 147 | Coordinate Interleaved Orthogonal Design With Media-Based Modulation. IEEE Transactions on Vehicular Technology, 2021, 70, 2867-2871. | 3.9 | 3 |
| 148 | Optimal relaying in molecular communications. Nano Communication Networks, 2022, 32-33, 100404. | 1.6 | 3 |
| 149 | High-rate generalized spatial modulation. , 2016, , . | | 2 |
| 150 | Performance of MIMO enhanced unipolar OFDM with realistic indoor visible light channel models. , 2016, , . | | 2 |
| 151 | Optical spatial modulation OFDM system design. , 2016, , . | | 2 |
| 152 | Spatial modulation for multi-user massive MIMO systems. , 2017, , . | | 2 |
| 153 | A Generalization of Multiple-Mode OFDM with Index Modulation. , 2018, , . | | 2 |
| 154 | Imperfect CSI and Improper Gaussian Noise Effects on SSK: Optimal Detection and Error Analysis. , 2018, , . | | 2 |
| 155 | Universal Filtered OFDM with Filter Shift Keying - Invited Paper. , 2018, , . | | 2 |
| 156 | IEEE Access Special Section Editorial: Index Modulation Techniques for Next-Generation Wireless Networks. IEEE Access, 2018, 6, 26452-26456. | 2.6 | 2 |
| 157 | Editorial: Introduction to the Issue Index Modulation for Future Wireless Networks: A Signal Processing Perspective. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1219-1222. | 7.3 | 2 |
| 158 | Network Cost Minimization for Reconfigurable Intelligent Surface aided Edge Caching. , 2021, , . | | 2 |
| 159 | SimMBM Channel Simulator for Media-Based Modulation Systems. , 2021, , . | | 2 |
| 160 | High mobility enabled spatial and media-based modulated orthogonal frequency division multiplexing systems for beyond 5G wireless communications. International Journal of Communication Systems, 2022, 35, . | 1.6 | 2 |
| 161 | Cluster Index Modulation for mmWave Communication Systems. Frontiers in Communications and Networks, 2022, 2, . | 1.9 | 2 |
| 162 | Corrections on "Cooperative Communications Using Reliability-Forwarding Relays". IEEE Transactions on Communications, 2013, 61, 4030-4030. | 4.9 | 1 |

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| 163 | Performance of MIMO enhanced unipolar OFDM with realistic indoor visible light channel models. , 2016, , . | | 1 |
| 164 | Two-way space shift keying with relay selection. , 2017, , . | | 1 |
| 165 | Multi-hop space shift keying with partial relay selection. , 2018, , . | | 1 |
| 166 | Media-Based Modulation Assisted Non-Orthogonal Multiple Access. , 2019, , . | | 1 |
| 167 | OFDM-IM-Based Spectrum Sharing for Cognitive Radio Networks. , 2019, , . | | 1 |
| 168 | A Low-Complexity Solution to Angular Misalignments in Molecular Index Modulation. , 2019, , . | | 1 |
| 169 | Quadrature spatial modulation based multiuser MIMO transmission system. IET Communications, 2020, 14, 1147-1154. | 1.5 | 1 |
| 170 | Energy-Efficient Data Transmission for Capacitive-Coupled Human Body Communication Systems. , 2021, , 1-1. | | 1 |
| 171 | Performance Evaluation of Index Modulation with Single Subcarrier Activation. , 2021, , . | | 1 |
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| 173 | Index Modulation Based Coordinate Interleaved Orthogonal Design for Secure Communications. IEEE Transactions on Vehicular Technology, 2021, 70, 5155-5159. | 3.9 | 1 |
| 174 | RIS-Empowered Non-Linear Energy Harvesting Communications Over Nakagami- <i>m</i> Channels. IEEE Communications Letters, 2022, 26, 2215-2219. | 2.5 | 1 |
| 175 | Flexible Spatial Modulation With Transmit Antenna Selection for MIMO Systems. IEEE Systems Journal, 2023, 17, 2315-2318. | 2.9 | 1 |
| 176 | Cyclic-Prefixed Single-Carrier Transmission with Reconfigurable Intelligent Surfaces. , 2022, , . | | 1 |
| 177 | A New 2 ^{&#x0D7;2} Coordinate Interleaved STBC for High-Rate Wireless Systems. , 2008, , . | | 0 |
| 178 | Channel capacity achieving space-time block codes for MIMO systems with two, three and four transmit antennas. , 2009, , . | | 0 |
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| 180 | Multimodal dance choreography model. , 2011, , . | | 0 |

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| 182 | Bit error performance of a cooperative spectrum sharing protocol using spatial modulation. , 2016, , . | | 0 |
| 183 | Error performance analysis of cooperative spatial modulation with amplify-and-forward relaying. , 2016, , . | | 0 |
| 184 | Performance analysis of full-duplex spatial-modulated communication systems. , 2017, , . | | 0 |
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| 186 | Performance analysis of source transmit antenna selection in space shift keying with cooperative amplify-and-forward relaying. , 2017, , . | | 0 |
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| 188 | Circular Space-Time Block Code Design for Ultra-Reliable Index Modulation Schemes. , 2019, , . | | 0 |
| 189 | IEEE Access Special Section Editorial: Advances in Signal Processing for Non-Orthogonal Multiple Access. IEEE Access, 2020, 8, 149214-149219. | 2.6 | 0 |
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| 192 | Multidimensional Media - Based Modulation. , 2020, , . | | 0 |
| 193 | A novel orthogonal frequency division multiplexing with index modulation waveform with carrier frequency offset resistance and low peak-to-average power ratio. International Journal of Communication Systems, 0, , . | 1.6 | 0 |