# Zhaocheng Wang

List of Publications by Year
in descending order

| 270 | 13,091 | 31976 | 25787 |
|-----|--------|-------|-------|
| papers | citations | 53 | 108 |
| | | h-index | g-index |

| 275 | 275 | 275 | 8072 |
|-----|-----|-----|------|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Non-orthogonal multiple access for 5G: solutions, challenges, opportunities, and future research trends. IEEE Communications Magazine, 2015, 53, 74-81. | 6.1 | 2,277 |
| 2 | A Survey of Non-Orthogonal Multiple Access for 5G. IEEE Communications Surveys and Tutorials, 2018, 20, 2294-2323. | 39.4 | 887 |
| 3 | Spatially Common Sparsity Based Adaptive Channel Estimation and Feedback for FDD Massive MIMO. IEEE Transactions on Signal Processing, 2015, 63, 6169-6183. | 5.3 | 496 |
| 4 | MmWave massive-MIMO-based wireless backhaul for the 5G ultra-dense network. IEEE Wireless Communications, 2015, 22, 13-21. | 9.0 | 339 |
| 5 | Spectrum and Energy-Efficient Beamspace MIMO-NOMA for Millimeter-Wave Communications Using Lens Antenna Array. IEEE Journal on Selected Areas in Communications, 2017, 35, 2370-2382. | 14.0 | 275 |
| 6 | Channel Estimation for Millimeter-Wave Massive MIMO With Hybrid Precoding Over Frequency-Selective Fading Channels. IEEE Communications Letters, 2016, 20, 1259-1262. | 4.1 | 251 |
| 7 | Low-Complexity Soft-Output Signal Detection Based on Gauss–Seidel Method for Uplink Multiuser Large-Scale MIMO Systems. IEEE Transactions on Vehicular Technology, 2015, 64, 4839-4845. | 6.3 | 239 |
| 8 | Dual-Mode Index Modulation Aided OFDM. IEEE Access, 2017, 5, 50-60. | 4.2 | 231 |
| 9 | Near-Optimal Beam Selection for Beamspace MmWave Massive MIMO Systems. IEEE Communications Letters, 2016, 20, 1054-1057. | 4.1 | 230 |
| 10 | Novel Index Modulation Techniques: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 315-348. | 39.4 | 229 |
| 11 | On the Spectral Efficiency of Massive MIMO Systems With Low-Resolution ADCs. IEEE Communications Letters, 2016, 20, 842-845. | 4.1 | 207 |
| 12 | Compressive Sensing Techniques for Next-Generation Wireless Communications. IEEE Wireless Communications, 2018, 25, 144-153. | 9.0 | 190 |
| 13 | Spectrally Efficient Time-Frequency Training OFDM for Mobile Large-Scale MIMO Systems. IEEE Journal on Selected Areas in Communications, 2013, 31, 251-263. | 14.0 | 189 |
| 14 | Layered ACO-OFDM for intensity-modulated direct-detection optical wireless transmission. Optics Express, 2015, 23, 12382. | 3.4 | 184 |
| 15 | Smart Pilot Assignment for Massive MIMO. IEEE Communications Letters, 2015, 19, 1644-1647. | 4.1 | 178 |
| 16 | Terahertz Terabit Wireless Communication. IEEE Microwave Magazine, 2011, 12, 108-116. | 0.8 | 175 |
| 17 | Structured Compressive Sensing-Based Spatio-Temporal Joint Channel Estimation for FDD Massive MIMO. IEEE Transactions on Communications, 2016, 64, 601-617. | 7.8 | 173 |
| 18 | Fast Channel Tracking for Terahertz Beamspace Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 5689-5696. | 6.3 | 154 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 19 | Next-generation digital television terrestrial broadcasting systems: Key technologies and research trends. , 2012, 50, 150-158. | | 141 |
| 20 | Visible light communications in heterogeneous networks: Paving the way for user-centric design. IEEE Wireless Communications, 2015, 22, 8-16. | 9.0 | 123 |
| 21 | Soft Pilot Reuse and Multicell Block Diagonalization Precoding for Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 3285-3298. | 6.3 | 122 |
| 22 | Lowâ€complexity nearâ€optimal signal detection for uplink largeâ€scale MIMO systems. Electronics Letters, 2014, 50, 1326-1328. | 1.0 | 113 |
| 23 | Unified Performance Analysis of Mixed Radio Frequency/Free-Space Optical Dual-Hop Transmission Systems. Journal of Lightwave Technology, 2015, 33, 2286-2293. | 4.6 | 112 |
| 24 | SAR Target Detection Based on SSD With Data Augmentation and Transfer Learning. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 150-154. | 3.1 | 112 |
| 25 | Joint User Activity and Data Detection Based on Structured Compressive Sensing for NOMA. IEEE Communications Letters, 2016, , 1-1. | 4.1 | 110 |
| 26 | Spectrum- and Energy-Efficient OFDM Based on Simultaneous Multi-Channel Reconstruction. IEEE Transactions on Signal Processing, 2013, 61, 6047-6059. | 5.3 | 106 |
| 27 | Asymmetrical Hybrid Optical OFDM for Visible Light Communications With Dimming Control. IEEE Photonics Technology Letters, 2015, 27, 974-977. | 2.5 | 104 |
| 28 | A Modified CFAR Algorithm Based on Object Proposals for Ship Target Detection in SAR Images. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1925-1929. | 3.1 | 104 |
| 29 | Structured compressive sensing based superimposed pilot design in downlink largeâ€scale MIMO systems. Electronics Letters, 2014, 50, 896-898. | 1.0 | 100 |
| 30 | Multihop Free-Space Optical Communications Over Turbulence Channels with Pointing Errors using Heterodyne Detection. Journal of Lightwave Technology, 2014, 32, 2597-2604. | 4.6 | 99 |
| 31 | Multiple Mobile Data Offloading Through Disruption Tolerant Networks. IEEE Transactions on Mobile Computing, 2014, 13, 1579-1596. | 5.8 | 99 |
| 32 | Generalized Dual-Mode Index Modulation Aided OFDM. IEEE Communications Letters, 2017, 21, 761-764. | 4.1 | 99 |
| 33 | Multiuser MIMO-OFDM for Visible Light Communications. IEEE Photonics Journal, 2015, 7, 1-11. | 2.0 | 97 |
| 34 | Graph Coloring Based Pilot Allocation to Mitigate Pilot Contamination for Multi-Cell Massive MIMO Systems. IEEE Communications Letters, 2015, 19, 1842-1845. | 4.1 | 95 |
| 35 | Time-Frequency Training OFDM with High Spectral Efficiency and Reliable Performance in High Speed Environments. IEEE Journal on Selected Areas in Communications, 2012, 30, 695-707. | 14.0 | 93 |
| 36 | Efficient Vertical Handover Scheme for Heterogeneous VLC-RF Systems. Journal of Optical Communications and Networking, 2015, 7, 1172. | 4.8 | 88 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 37 | Social-Community-Aware Resource Allocation for D2D Communications Underlaying Cellular Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 3628-3640. | 6.3 | 83 |
| 38 | Compressive Sensing Based Time Domain Synchronous OFDM Transmission for Vehicular Communications. IEEE Journal on Selected Areas in Communications, 2013, 31, 460-469. | 14.0 | 82 |
| 39 | Achievable Rate of Rician Large-Scale MIMO Channels With Transceiver Hardware Impairments. IEEE Transactions on Vehicular Technology, 2016, 65, 8800-8806. | 6.3 | 80 |
| 40 | Joint CSIT Acquisition Based on Low-Rank Matrix Completion for FDD Massive MIMO Systems. IEEE Communications Letters, 2015, 19, 2178-2181. | 4.1 | 78 |
| 41 | Channel Feedback Based on AoD-Adaptive Subspace Codebook in FDD Massive MIMO Systems. IEEE Transactions on Communications, 2018, 66, 5235-5248. | 7.8 | 77 |
| 42 | Joint Transmit Precoding and Reconfigurable Intelligent Surface Phase Adjustment: A Decomposition-Aided Channel Estimation Approach. IEEE Transactions on Communications, 2021, 69, 1228-1243. | 7.8 | 76 |
| 43 | Super-Resolution Sparse MIMO-OFDM Channel Estimation Based on Spatial and Temporal Correlations. IEEE Communications Letters, 2014, 18, 1266-1269. | 4.1 | 71 |
| 44 | Turbo-Like Beamforming Based on Tabu Search Algorithm for Millimeter-Wave Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 5731-5737. | 6.3 | 71 |
| 45 | Secure communication in TDS-OFDM system using constellation rotation and noise insertion. IEEE Transactions on Consumer Electronics, 2010, 56, 1328-1332. | 3.6 | 70 |
| 46 | Adaptive Hybrid Precoding for Multiuser Massive MIMO. IEEE Communications Letters, 2016, 20, 776-779. | 4.1 | 69 |
| 47 | Matrix inversion-less signal detection using SOR method for uplink large-scale MIMO systems. , 2014, , . | | 66 |
| 48 | Optimal Mobile Content Downloading in Device-to-Device Communication Underlaying Cellular Networks. IEEE Transactions on Wireless Communications, 2014, 13, 3596-3608. | 9.2 | 66 |
| 49 | Joint User Association and Power Allocation for Cell-Free Visible Light Communication Networks. IEEE Journal on Selected Areas in Communications, 2018, 36, 136-148. | 14.0 | 61 |
| 50 | Effective capacity of communication systems over $\kappa$ – $\mu$ shadowed fading channels. Electronics Letters, 2015, 51, 1540-1542. | 1.0 | 60 |
| 51 | Joint Channel Training and Feedback for FDD Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 8762-8767. | 6.3 | 59 |
| 52 | Preamble Design Using Embedded Signaling for OFDM Broadcast Systems Based on Reduced-Complexity Distance Detection. IEEE Transactions on Vehicular Technology, 2011, 60, 1217-1222. | 6.3 | 56 |
| 53 | Millimeter-Wave Circular Polarized Beam-Steering Antenna Array for Gigabit Wireless Communications. IEEE Transactions on Antennas and Propagation, 2006, 54, 743-746. | 5.1 | 55 |
| 54 | Positioning with OFDM signals for the next- generation GNSS. IEEE Transactions on Consumer Electronics, 2010, 56, 374-379. | 3.6 | 55 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------| 
| 55 | A Universal Low-Complexity Symbol-to-Bit Soft Demapper. IEEE Transactions on Vehicular Technology, 2014, 63, 119-130. | 6.3 | 55 |
| 56 | On the Ergodic Capacity of MIMO Free-Space Optical Systems Over Turbulence Channels. IEEE Journal on Selected Areas in Communications, 2015, 33, 1925-1934. | 14.0 | 55 |
| 57 | Weighted-Graph-Coloring-Based Pilot Decontamination for Multicell Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 2829-2834. | 6.3 | 54 |
| 58 | Frequency reuse scheme for cellular OFDM systems. Electronics Letters, 2002, 38, 387. | 1.0 | 53 |
| 59 | Compressive Sensing Based Multi-User Detection for Uplink Grant-Free Non-Orthogonal Multiple Access. , 2015, , . | | 52 |
| 60 | NOMA-Based Spatial Modulation. IEEE Access, 2017, 5, 3790-3800. | 4.2 | 52 |
| 61 | 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 |
| 62 | A Tight Upper Bound on Channel Capacity for Visible Light Communications. IEEE Communications Letters, 2016, 20, 97-100. | 4.1 | 46 |
| 63 | Frequency Domain Decision Feedback Equalization for Uplink SC-FDMA. IEEE Transactions on Broadcasting, 2010, 56, 253-257. | 3.2 | 45 |
| 64 | Priori-Information Aided Iterative Hard Threshold: A Low-Complexity High-Accuracy Compressive Sensing Based Channel Estimation for TDS-OFDM. IEEE Transactions on Wireless Communications, 2015, 14, 242-251. | 9.2 | 45 |
| 65 | An adaptive scaling and biasing scheme for OFDM-based visible light communication systems. Optics Express, 2014, 22, 12707. | 3.4 | 44 |
| 66 | Multi-User Sum-Rate Optimization for Visible Light Communications With Lighting Constraints. Journal of Lightwave Technology, 2016, 34, 3943-3952. | 4.6 | 44 |
| 67 | Compressive-Sensing-Based Multiuser Detector for the Large-Scale SM-MIMO Uplink. IEEE Transactions on Vehicular Technology, 2016, 65, 8725-8730. | 6.3 | 44 |
| 68 | Coded Modulation with Signal Space Diversity. IEEE Transactions on Wireless Communications, 2011, 10, 660-669. | 9.2 | 43 |
| 69 | Location-based channel estimation and pilot assignment for massive MIMO systems. , 2015, , . | | 43 |
| 70 | Coding or Not: Optimal Mobile Data Offloading in Opportunistic Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 318-333. | 8.0 | 41 |
| 71 | Robust Preamble Design for Synchronization, Signaling Transmission, and Channel Estimation. IEEE Transactions on Broadcasting, 2015, 61, 98-104. | 3.2 | 41 |
| 72 | Visual Attention-Based Target Detection and Discrimination for High-Resolution SAR Images in Complex Scenes. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 1855-1872. | 6.3 | 41 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 73 | Simplified Soft Demapper for APSK with Product Constellation Labeling. IEEE Transactions on Wireless Communications, 2012, 11, 2649-2657. | 9.2 | 40 |
| 74 | Optimal Beaconing Control for Epidemic Routing in Delay-Tolerant Networks. IEEE Transactions on Vehicular Technology, 2012, 61, 311-320. | 6.3 | 40 |
| 75 | Low-Complexity Iterative Frequency Domain Decision Feedback Equalization. IEEE Transactions on Vehicular Technology, 2011, 60, 1295-1301. | 6.3 | 39 |
| 76 | Asymptotic Orthogonality Analysis of Time-Domain Sparse Massive MIMO Channels. IEEE Communications Letters, 2015, 19, 1826-1829. | 4.1 | 39 |
| 77 | Channel estimation for mmWave massive MIMO based access and backhaul in ultra-dense network. , 2016, , . |  | 38 |
| 78 | Low-Complexity Signal Detection for Large-Scale MIMO in Optical Wireless Communications. IEEE Journal on Selected Areas in Communications, 2015, 33, 1903-1912. | 14.0 | 37 |
| 79 | Dimmable Visible Light Communications Based on Multilayer ACO-OFDM. IEEE Photonics Journal, 2016, 8, 1-11. | 2.0 | 36 |
| 80 | Channel Estimation for mmWave MIMO With Transmitter Hardware Impairments. IEEE Communications Letters, 2018, 22, 320-323. | 4.1 | 35 |
| 81 | Topology Control in Hybrid VLC/RF Vehicular Ad-Hoc Network. IEEE Transactions on Wireless Communications, 2020, 19, 1965-1976. | 9.2 | 35 |
| 82 | Transmit Diversity for TDS-OFDM Broadcasting System Over Doubly Selective Fading Channels. IEEE Transactions on Broadcasting, 2011, 57, 135-142. | 3.2 | 34 |
| 83 | Adaptive Coherent/Non-Coherent Spatial Modulation Aided Unmanned Aircraft Systems. IEEE Wireless Communications, 2019, 26, 170-177. | 9.0 | 34 |
| 84 | Deep Learning Assisted Calibrated Beam Training for Millimeter-Wave Communication Systems. IEEE Transactions on Communications, 2021, 69, 6706-6721. | 7.8 | 34 |
| 85 | Near-Optimal Signal Detector Based on Structured Compressive Sensing for Massive SM-MIMO. IEEE Transactions on Vehicular Technology, 2017, 66, 1860-1865. | 6.3 | 33 |
| 86 | Asymmetrically Clipped Absolute Value Optical OFDM for Intensity-Modulated Direct-Detection Systems. Journal of Lightwave Technology, 2017, 35, 3680-3691. | 4.6 | 33 |
| 87 | Collaborative Vehicular Content Dissemination with Directional Antennas. IEEE Transactions on Wireless Communications, 2012, 11, 1301-1306. | 9.2 | 32 |
| 88 | Wireless Positioning Using TDS-OFDM Signals in Single-Frequency Networks. IEEE Transactions on Broadcasting, 2012, 58, 236-246. | 3.2 | 32 |
| 89 | Exponential and Power Law Distribution of Contact Duration in Urban Vehicular Ad Hoc Networks. IEEE Signal Processing Letters, 2013, 20, 110-113. | 3.6 | 32 |
| 90 | Improved Receiver Design for Layered ACO-OFDM in Optical Wireless Communications. IEEE Photonics Technology Letters, 2016, 28, 319-322. | 2.5 | 32 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 91 | A Novel Uplink Multiple Access Scheme Based on TDS-FDMA. IEEE Transactions on Wireless Communications, 2011, 10, 757-761. | 9.2 | 31 |
| 92 | Location-Aware Pilot Assignment for Massive MIMO Systems in Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 6815-6821. | 6.3 | 31 |
| 93 | Optical OFDM for visible light communications. , 2017, , . | | 31 |
| 94 | Target Detection via Bayesian-Morphological Saliency in High-Resolution SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5455-5466. | 6.3 | 30 |
| 95 | Machine Learning Predicts Lymph Node Metastasis in Early-Stage Oral Tongue Squamous Cell Carcinoma. Journal of Oral and Maxillofacial Surgery, 2020, 78, 2208-2218. | 1.2 | 30 |
| 96 | Limits of Predictability for Large-Scale Urban Vehicular Mobility. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 2671-2682. | 8.0 | 29 |
| 97 | Iterative Receiver for Hybrid Asymmetrically Clipped Optical OFDM. Journal of Lightwave Technology, 2014, 32, 4471-4477. | 4.6 | 29 |
| 98 | On the Performance of Channel-Statistics-Based Codebook for Massive MIMO Channel Feedback. IEEE Transactions on Vehicular Technology, 2017, 66, 7553-7557. | 6.3 | 28 |
| 99 | Optical dual-mode index modulation aided OFDM for visible light communications. Optics Communications, 2017, 391, 37-41. | 2.1 | 28 |
| 100 | Two-Dimensional Precoding for 3-D Massive MIMO. IEEE Transactions on Vehicular Technology, 2017, 66, 5485-5490. | 6.3 | 28 |
| 101 | Hardware-Efficient Hybrid Precoding for Millimeter Wave Systems With Multi-Feed Reflectarrays. IEEE Access, 2018, 6, 6795-6806. | 4.2 | 27 |
| 102 | EKF-Based Beam Tracking for mmWave MIMO Systems. IEEE Communications Letters, 2019, 23, 2390-2393. | 4.1 | 27 |
| 103 | A Novel BICM-ID System Approaching Shannon-Limit at High Spectrum Efficiency. IEICE Transactions on Communications, 2011, E94-B, 793-795. | 0.7 | 26 |
| 104 | Joint channel estimation and time-frequency synchronization for uplink TDS-OFDMA systems. IEEE Transactions on Consumer Electronics, 2010, 56, 494-500. | 3.6 | 25 |
| 105 | Synchronization for TDS-OFDM over multipath fading channels. IEEE Transactions on Consumer Electronics, 2010, 56, 2141-2147. | 3.6 | 25 |
| 106 | A Markov Jump Process Model for Urban Vehicular Mobility: Modeling and Applications. IEEE Transactions on Mobile Computing, 2014, 13, 1911-1926. | 5.8 | 25 |
| 107 | Efficient Channel Estimation for mmWave MIMO With Transceiver Hardware Impairments. IEEE Transactions on Vehicular Technology, 2019, 68, 9883-9895. | 6.3 | 25 |
| 108 | Graph Theory Based Beam Scheduling for Inter-Cell Interference Avoidance in MmWave Cellular Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 3929-3942. | 6.3 | 25 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 109 | V-Band Patch-Fed Rod Antennas for High Data-Rate Wireless Communications. IEEE Transactions on Antennas and Propagation, 2006, 54, 297-300. | 5.1 | 24 |
| 110 | Improved Channel Estimation for TDS-OFDM Based on Flexible Frequency-Binary Padding. IEEE Transactions on Broadcasting, 2010, 56, 418-424. | 3.2 | 23 |
| 111 | Near-Optimal Low-Complexity Sequence Detection for Clipped DCO-OFDM. IEEE Photonics Technology Letters, 2016, 28, 233-236. | 2.5 | 23 |
| 112 | An optimal scaling scheme for DCO-OFDM based visible light communications. Optics Communications, 2015, 356, 136-140. | 2.1 | 21 |
| 113 | Structured Non-Uniformly Spaced Rectangular Antenna Array Design for FD-MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 3252-3266. | 9.2 | 21 |
| 114 | Receiver design for SPAD-based VLC systems under Poisson–Gaussian mixed noise model. Optics Express, 2017, 25, 799. | 3.4 | 21 |
| 115 | Spatial Modulation for Terahertz Communication Systems With Hardware Impairments. IEEE Transactions on Vehicular Technology, 2020, 69, 4553-4557. | 6.3 | 21 |
| 116 | Joint User-Subcarrier Pairing and Power Allocation for Uplink ACO-OFDM-NOMA Underwater Visible Light Communication Systems. Journal of Lightwave Technology, 2021, 39, 1997-2007. | 4.6 | 20 |
| 117 | Irregular Mapping and its Application in Bit-Interleaved LDPC Coded Modulation With Iterative Demapping and Decoding. IEEE Transactions on Broadcasting, 2011, 57, 707-712. | 3.2 | 19 |
| 118 | Evaluating the effects of node cooperation on DTN routing. AEU - International Journal of Electronics and Communications, 2012, 66, 62-67. | 2.9 | 19 |
| 119 | Target Detection Based on Dual-Domain Sparse Reconstruction Saliency in SAR Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4230-4243. | 4.9 | 19 |
| 120 | Enhancing the decoding performance of optical wireless communication systems using receiver-side predistortion. Optics Express, 2013, 21, 30295. | 3.4 | 18 |
| 121 | Location-Aware Channel Estimation Enhanced TDD Based Massive MIMO. IEEE Access, 2016, 4, 7828-7840. | 4.2 | 18 |
| 122 | Channel Estimation and Equalization for Terahertz Receiver With RF Impairments. IEEE Journal on Selected Areas in Communications, 2021, 39, 1621-1635. | 14.0 | 18 |
| 123 | Tracking a dynamic sparse channel via differential orthogonal matching pursuit. , 2015, , . | | 17 |
| 124 | Video Streaming in the Multiuser Indoor Visible Light Downlink. IEEE Access, 2015, 3, 2959-2986. | 4.2 | 17 |
| 125 | Zero-Padded Orthogonal Frequency Division Multiplexing with Index Modulation Using Multiple Constellation Alphabets. IEEE Access, 2017, 5, 21168-21178. | 4.2 | 17 |
| 126 | Interleaved DFT-Spread Layered/Enhanced ACO-OFDM for Intensity-Modulated Direct-Detection Systems. Journal of Lightwave Technology, 2018, 36, 4713-4722. | 4.6 | 17 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 127 | Terahertz Wireless Communications With Flexible Index Modulation Aided Pilot Design. IEEE Journal on Selected Areas in Communications, 2021, 39, 1651-1662. | 14.0 | 16 |
| 128 | Joint Time-Frequency Channel Estimation for Time Domain Synchronous OFDM Systems. IEEE Transactions on Broadcasting, 2013, 59, 168-173. | 3.2 | 15 |
| 129 | BICM-ID scheme for clipped DCO-OFDM in visible light communications. Optics Express, 2016, 24, 4573. | 3.4 | 15 |
| 130 | Virtual Angular-Domain Channel Estimation for FDD Based Massive MIMO Systems with Partial Orthogonal Pilot Design. IEEE Transactions on Vehicular Technology, 2020, , 1-1. | 6.3 | 15 |
| 131 | Spatially correlated channel estimation based on block iterative support detection for massive MIMO systems. Electronics Letters, 2015, 51, 587-588. | 1.0 | 14 |
| 132 | Iterative receiver for ADO-OFDM with near-optimal optical power allocation. Optics Communications, 2017, 387, 350-356. | 2.1 | 14 |
| 133 | AoD-adaptive subspace codebook for channel feedback in FDD massive MIMO systems. , 2017, , . | | 14 |
| 134 | Channel Feedback Codebook Design for Millimeter-Wave Massive MIMO Systems Relying on Lens Antenna Array. IEEE Wireless Communications Letters, 2018, 7, 736-739. | 5.0 | 14 |
| 135 | Hybrid Precoding for Millimeter Wave Communications With Fully Connected Subarrays. IEEE Communications Letters, 2018, 22, 2160-2163. | 4.1 | 14 |
| 136 | â€œNear-Perfectâ€•Finite-Cardinality Generalized Space-Time Shift Keying. IEEE Journal on Selected Areas in Communications, 2019, 37, 2146-2164. | 14.0 | 14 |
| 137 | Downlink Interference Management in Cell-Free VLC Network. IEEE Transactions on Vehicular Technology, 2019, 68, 9007-9017. | 6.3 | 13 |
| 138 | Non-Uniform Full-Dimension MIMO: New Topologies and Opportunities. IEEE Wireless Communications, 2019, 26, 124-132. | 9.0 | 13 |
| 139 | Petahertz communication: Harmonizing optical spectra for wireless communications. Digital Communications and Networks, 2021, 7, 605-614. | 5.0 | 13 |
| 140 | Spectrum-Efficient Coherent Optical OFDM for Transport Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 62-74. | 14.0 | 12 |
| 141 | Ellipse-based DCO-OFDM for visible light communications. Optics Communications, 2016, 360, 1-6. | 2.1 | 12 |
| 142 | An Optimal Relaying Scheme for Delay-Tolerant Networks With Heterogeneous Mobile Nodes. IEEE Transactions on Vehicular Technology, 2013, 62, 2239-2252. | 6.3 | 11 |
| 143 | Block compressive channel estimation and feedback for FDD massive MIMO. , 2015, , . | | 11 |
| 144 | Constant-Envelope Space-Time Shift Keying. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1387-1402. | 10.8 | 11 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------| 
| 145 | Secure Single-Input-Multiple-Output Media-Based Modulation. IEEE Transactions on Vehicular Technology, 2020, 69, 4105-4117. | 6.3 | 11 |
| 146 | Joint Code Acquisition and Doppler Frequency Shift Estimation for GPS Signals. , 2010, , . | | 10 |
| 147 | Joint channel estimation and feedback with low overhead for FDD massive MIMO systems. , 2015, , . | | 10 |
| 148 | Effective Rate Analysis of MISO Systems over Î±-Âμ Fading Channels. , 2015, , . | | 10 |
| 149 | Compressive sensingâ€based differential channel feedback for massive MIMO. Electronics Letters, 2015, 51, 1824-1826. | 1.0 | 10 |
| 150 | Angular domain pilot design and channel estimation for FDD massive MIMO networks. , 2017, , . | | 10 |
| 151 | User Association for Load Balance in Heterogeneous Networks With Limited CSI Feedback. IEEE Communications Letters, 2020, 24, 1095-1099. | 4.1 | 10 |
| 152 | Deep Learning-Assisted TeraHertz QPSK Detection Relying on Single-Bit Quantization. IEEE Transactions on Communications, 2021, 69, 8175-8187. | 7.8 | 10 |
| 153 | Two-Stage List Sphere Decoding for Under-Determined Multiple-Input Multiple-Output Systems. IEEE Transactions on Wireless Communications, 2013, 12, 6476-6487. | 9.2 | 9 |
| 154 | Simplified faultâ€tolerant FIR filter architecture based on redundant residue number system. Electronics Letters, 2014, 50, 1768-1770. | 1.0 | 9 |
| 155 | A reduced-complexity demapping algorithm for BICM-ID systems. IEEE Transactions on Vehicular Technology, 2015, 64, 4350-4356. | 6.3 | 9 |
| 156 | Leakage-based precoding for MU-MIMO VLC systems under optical power constraint. Optics Communications, 2017, 382, 348-353. | 2.1 | 9 |
| 157 | Least Pair-Wise Collision Beam Schedule for mmWave Inter-Cell Interference Suppression. IEEE Transactions on Wireless Communications, 2019, 18, 4436-4449. | 9.2 | 9 |
| 158 | Joint User Association and Passive Beamforming in Heterogeneous Networks With Reconfigurable Intelligent Surfaces. IEEE Communications Letters, 2021, 25, 3041-3045. | 4.1 | 9 |
| 159 | Priori information aided compressive sensing for time domain synchronous OFDM. Electronics Letters, 2012, 48, 800. | 1.0 | 8 |
| 160 | Low complexity LDPC decoder with modified Sum-Product algorithm. Tsinghua Science and Technology, 2013, 18, 57-61. | 6.1 | 8 |
| 161 | Massive MIMO channel estimation based on block iterative support detection. , 2016, , . | | 8 |
| 162 | Enhanced asymmetrically clipped DC biased optical OFDM for intensity-modulated direct-detection systems. Journal of Communications and Information Networks, 2017, 2, 36-46. | 5.2 | 8 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 163 | Resource Management for Hybrid RF/VLC V2I Wireless Communication System. IEEE Communications Letters, 2020, 24, 868-871. | 4.1 | 8 |
| 164 | Deep Learning Assisted mmWave Beam Prediction with Prior Low-frequency Information. , 2021, , . | | 8 |
| 165 | Evolutionary Game Based Strategy Selection for Hybrid V2V Communications. IEEE Transactions on Vehicular Technology, 2022, 71, 2128-2133. | 6.3 | 8 |
| 166 | Flexible Multi-Block OFDM Transmission for High-Speed Fiber-Wireless Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 788-796. | 14.0 | 7 |
| 167 | Time domain synchronous OFDM based on simultaneous multi-channel reconstruction. , 2013, , . | | 7 |
| 168 | MDP-based vertical handover scheme for indoor VLC-WiFi systems. , 2015, , . | | 7 |
| 169 | Sparsity-Aware Adaptive Channel Estimation Based on SNR Detection. IEEE Transactions on Broadcasting, 2015, 61, 119-126. | 3.2 | 7 |
| 170 | Localization Algorithm Based on Iterative Centroid Estimation for Wireless Sensor Networks. Mathematical Problems in Engineering, 2018, 2018, 1-11. | 1.1 | 7 |
| 171 | Calibrated Beam Training for Millimeter-Wave Massive MIMO Systems. , 2019, , . | | 7 |
| 172 | The Movement-Rotation (MR) Correlation Function and Coherence Distance of VLC Channels. Journal of Lightwave Technology, 2020, 38, 6759-6770. | 4.6 | 7 |
| 173 | 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 |
| 174 | Reconfigurable Intelligent Surface Deployment for Blind Zone Improvement in mmWave Wireless Networks. IEEE Communications Letters, 2022, 26, 1423-1427. | 4.1 | 7 |
| 175 | Enhanced beam selection for multiâ€user mmâ€wave massive MIMO systems. Electronics Letters, 2016, 52, 1268-1270. | 1.0 | 6 |
| 176 | Interference-Free LED Allocation for Visible Light Communications With Fisheye Lens. Journal of Lightwave Technology, 2018, 36, 626-636. | 4.6 | 6 |
| 177 | Outage Probability Region and Optimal Power Allocation for Uplink SCMA Systems. IEEE Transactions on Communications, 2018, , 1-1. | 7.8 | 6 |
| 178 | Fast Antijamming Timing Acquisition Using Multilayer Synchronization Sequence. IEEE Transactions on Vehicular Technology, 2013, 62, 3497-3503. | 6.3 | 5 |
| 179 | Construction of Multiple-Rate QC-LDPC Codes Using Hierarchical Row-Splitting. IEEE Communications Letters, 2016, 20, 1068-1071. | 4.1 | 5 |
| 180 | Joint User Scheduling and Hybrid Precoding for Multi-User mmWave Systems with Two-Layer PS Network. , 2018, , . | | 5 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 181 | Statistics-Assisted Beam Training for MmWave Massive MIMO Systems. IEEE Communications Letters, 2019, 23, 1401-1404. | 4.1 | 5 |
| 182 | RIS-Aided Offshore Communications with Adaptive Beamforming and Service Time Allocation. , 2020, , . | | 5 |
| 183 | Coordination Game Theory-Based Adaptive Topology Control for Hybrid VLC/RF VANET. IEEE Transactions on Communications, 2021, 69, 5312-5324. | 7.8 | 5 |
| 184 | Feedback Interval Optimization for MISO LiFi Systems. IEEE Access, 2021, 9, 136811-136818. | 4.2 | 5 |
| 185 | Technical Review for Chinese Future DTTB System. , 2010, , . | | 4 |
| 186 | Rate-compatible QC-LDPC codes design based on EXIT chart analysis. , 2012, , . | | 4 |
| 187 | Improving physical-layer security using APSK constellations with finite-alphabet inputs. , 2013, , . | | 4 |
| 188 | Adaptive compressive sensing based channel estimation for TDS-OFDM systems. , 2013, , . | | 4 |
| 189 | An improved preamble design for broadcasting signalling with enhanced robustness. , 2013, , . | | 4 |
| 190 | Low complexity detection algorithm for under-determined MIMO systems. , 2014, , . | | 4 |
| 191 | Polar Decomposition of Mutual Information Over Complex-Valued Channels. IEEE Transactions on Information Theory, 2014, 60, 3163-3171. | 2.4 | 4 |
| 192 | Simplified Parallel Interference Cancelation for Underdetermined MIMO Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 3196-3208. | 6.3 | 4 |
| 193 | Fast variational Bayesian learning for channel estimation with prior statistical information. , 2015, , . | | 4 |
| 194 | SVM-Based Network Access Type Decision in Hybrid LiFi and WiFi Networks. , 2019, , . | | 4 |
| 195 | Receiver Design for the Low-Cost TeraHertz Communication System with Hardware Impairment. , 2020, , . | | 4 |
| 196 | Low-Complexity Beam Selection Scheme for High Speed Railway Communications. IEEE Access, 2020, 8, 16022-16032. | 4.2 | 4 |
| 197 | Robust Physical Layer Signaling Transmission over OFDM Systems. IEICE Transactions on Communications, 2011, E94-B, 2900-2902. | 0.7 | 4 |
| 198 | BICM-ID Systems with Signal Space Diversity over Rayleigh Fading Channels. , 2010, , . | | 3 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 199 | Pilot Design and Channel Estimation for TDS-OFDM System with Transmit Diversity. IEICE Transactions on Communications, 2011, E94-B, 852-855. | 0.7 | 3 |
| 200 | Markov Decision Process based content dissemination in hybrid wireless networks. , 2012, , . | | 3 |
| 201 | Multi-user MIMO-OFDM for indoor visible light communication systems. , 2015, , . | | 3 |
| 202 | Contact duration aware cache refreshing for mobile opportunistic networks. IET Networks, 2016, 5, 93-103. | 1.8 | 3 |
| 203 | Interference-free LED allocation for the fisheye lens based visible light communications. , 2017, , . | | 3 |
| 204 | A segmentation modulation based spectral allocation scheme for elastic optical networks. , 2017, , . | | 3 |
| 205 | Index Modulation-Aided OFDM for Visible Light Communications. , 0, , . | | 3 |
| 206 | Partially-Activated Conjugate Beamforming for LoS Massive MIMO Communications. IEEE Access, 2018, 6, 56504-56513. | 4.2 | 3 |
| 207 | Harmonic Retrieval Based Baseband Channel Estimation for Millimeter Wave OFDM Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 2668-2681. | 6.3 | 3 |
| 208 | Joint Design of User Scheduling and Precoding for Interference Management in Cell-Free VLC Network. , 2019, , . | | 3 |
| 209 | Algebraic Construction of Optimal Frequency Hopping Patterns Based on Welch Costas Arrays. IEEE Transactions on Vehicular Technology, 2020, 69, 1841-1854. | 6.3 | 3 |
| 210 | Networked multiple-input-multiple-output for optical wireless communication systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190189. | 3.4 | 3 |
| 211 | Deep Learning-Assisted Demodulation for TeraHertz Communications Under Hybrid Distortions. IEEE Communications Letters, 2022, 26, 325-329. | 4.1 | 3 |
| 212 | Secure Routing in Multihop Ad-Hoc Networks With SRR-Based Reinforcement Learning. IEEE Wireless Communications Letters, 2022, 11, 362-366. | 5.0 | 3 |
| 213 | Training Sequence Aided MC-CDMA Scheme with High Spectrum Efficiency. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2010, E93-A, 1857-1860. | 0.3 | 2 |
| 214 | TDS-OFDM Transmit Diversity Based on Space-Time Shifted CAZAC Sequence. , 2010, , . | | 2 |
| 215 | TDS-OFDMA: a novel multiple access system based on TDS-OFDM. IEEE Transactions on Consumer Electronics, 2011, 57, 1528-1534. | 3.6 | 2 |
| 216 | Positioning in Chinese Digital Television Network Using TDS-OFDM Signals. , 2011, , . | | 2 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 217 | Improved frame structure for TDS-OFDM systems. Electronics Letters, 2012, 48, 1024-1026. | 1.0 | 2 |
| 218 | A modified fixed sphere decoding algorithm for under-determined MIMO systems. , 2012, , . | | 2 |
| 219 | Low-Complexity Signaling-Embedded Preamble Design Based on Relative Subcarrier Position. IEEE Communications Letters, 2014, 18, 1657-1660. | 4.1 | 2 |
| 220 | Reliable and energy-efficient OFDM based on structured compressive sensing. , 2014, , . | | 2 |
| 221 | Temporal correlation based sparse channel estimation for TDS-OFDM in high-speed scenarios. , 2015, , . | | 2 |
| 222 | Modified PTS-based PAPR reduction for ACO-OFDM in visible light communications. Science China Information Sciences, 2015, 58, 1-3. | 4.3 | 2 |
| 223 | High-Accuracy Three-Dimensional Visible Light Positioning Systems Using Image Sensor. , 2018, , . | | 2 |
| 224 | SVM–based online learning for interference–aware multi–cell mmWave vehicular communications. IET Communications, 2021, 15, 1015-1027. | 2.2 | 2 |
| 225 | Learning-Assisted Secure Relay Selection with Outdated CSI for Finite-State Markov Channel. , 2021, , . | | 2 |
| 226 | Two-Timescale Beam Selection and Power Allocation for Maritime Offshore Communications. IEEE Communications Letters, 2021, 25, 3060-3064. | 4.1 | 2 |
| 227 | Efficient Multi-Service Allocation for Digital Terrestrial Broadcasting Systems. IEICE Transactions on Communications, 2014, E97.B, 1977-1983. | 0.7 | 2 |
| 228 | Improving Deep Learning-Based Cloud Detection for Satellite Images With Attention Mechanism. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 3.1 | 2 |
| 229 | Adaptive SVM-based Beam Allocation for MmWave Small Cell Networks. , 2020, , . | | 2 |
| 230 | Multi-dimensional Data-driven Mobile Edge Caching with Dynamic User Preference. , 2020, , . | | 2 |
| 231 | A Layered Modulation OFDM Scheme Using Differential Symbols as Pilots. , 2010, , . | | 1 |
| 232 | A Novel TDS-FDMA Scheme for Multi-User Uplink Scenarios. , 2010, , . | | 1 |
| 233 | Capacity Study of Virtual MIMO Uplink OFDMA Cellular System with Cochannel Interference. , 2010, , . | | 1 |
| 234 | A novel time-domain synchronous block transmission frame structure for broadcasting return channel. IEEE Transactions on Consumer Electronics, 2010, 56, 366-373. | 3.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 235 | Time-Frequency Training OFDM with High Spectral Efficiency and Improved Performance over Fast Fading Channels. , 2011, , . | | 1 |
| 236 | QoS-guaranteed resource allocation supporting multi-services in OFDM systems. , 2013, , . | | 1 |
| 237 | Downlink training scheme for massive MIMO systems. Electronics Letters, 2015, 51, 2059-2060. | 1.0 | 1 |
| 238 | Joint CSIT acquisition based on low-rank matrix recovery for FDD massive MIMO systems. , 2015, , . | | 1 |
| 239 | Two‐stage beamforming training for multi‐user millimetre wave systems. Electronics Letters, 2016, 52, 1351-1353. | 1.0 | 1 |
| 240 | Low-density spatial RS design and channel estimation for FDD massive full-dimensional MIMO systems. , 2016, , . | | 1 |
| 241 | Multi-Service MIMO Broadcasting with Different Receive Antennas. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1994-1997. | 0.3 | 1 |
| 242 | BICM-ID with 3-Dimensional BPSK and Signal Space Diversity over Rayleigh Channel. IEICE Transactions on Communications, 2011, E94-B, 282-284. | 0.7 | 1 |
| 243 | Low-Complexity Hybrid Precoding Based on PAST for Millimeter Wave Massive MIMO System. IEICE Transactions on Communications, 2022, E105.B, 1192-1201. | 0.7 | 1 |
| 244 | DeepAntiJam: Stackelberg Game-Oriented Secure Transmission via Deep Reinforcement Learning. IEEE Communications Letters, 2022, 26, 1984-1988. | 4.1 | 1 |
| 245 | Accurate position location in TDS-OFDM based digital television broadcasting networks. , 2010, , . | | 0 |
| 246 | Improve initial ranging for uplink OFDMA systems by partial frequency sequence detection. , 2011, , . | | 0 |
| 247 | Reliable Multi-Path Routing With Bandwidth and Delay Constraints. Intelligent Automation and Soft Computing, 2011, 17, 1125-1137. | 2.1 | 0 |
| 248 | Physical layer signalling transmission using Walsh sequences for OFDM systems. , 2012, , . | | 0 |
| 249 | Spectrum-efficient coherent optical zero padding OFDM for future high-speed transport networks. , 2012, , . | | 0 |
| 250 | Efficient mobile content dissemination through broadcast and opportunistic networks. , 2012, , . | | 0 |
| 251 | A Flexible Superframe Structure Supporting Localization for TDS-OFDM. IEICE Transactions on Communications, 2012, E95.B, 3922-3924. | 0.7 | 0 |
| 252 | Decision-directed tracking for burst-mode OFDM with frequency selective channel. , 2012, , . | | 0 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 253 | A novel peak-to-average power ratio reduction method for amplitude phase shift keying. , 2013, , . | | 0 |
| 254 | Spectrally efficient time-frequency training OFDM for MIMO systems. , 2013, , . | | 0 |
| 255 | Signaling-Embedded Preamble Design for Flexible Optical Transport Networks. , 2014, , . | | 0 |
| 256 | PM-DCO-OFDM for PAPR reduction in visible light communications. , 2015, , . | | 0 |
| 257 | Performance optimisation for bit‐interleaved coded modulation with iterative demapping with max‐log‐maximum a posterior detection. IET Communications, 2015, 9, 1746-1753. | 2.2 | 0 |
| 258 | Coded MIMO With Asymmetric Constellation Sizes. IEEE Transactions on Vehicular Technology, 2015, 64, 4338-4344. | 6.3 | 0 |
| 259 | Data-Aided Spatial Modulation. IEEE Access, 2017, 5, 7285-7293. | 4.2 | 0 |
| 260 | Efficient and reliable slice allocation for multi‐services in DVB‐T2 networks. IET Communications, 2017, 11, 837-845. | 2.2 | 0 |
| 261 | Non-Uniform Beam Design for Multi-User mmWave Systems. , 2019, , . | | 0 |
| 262 | Hierarchical Sparse Reconstruction Based Multi-feature Saliency for Target Detection in SAR Images. , 2019, , . | | 0 |
| 263 | Reordering ART-based detector and Geo-PAM constellation design for SPAD VLC systems under nonlinear distortions. Optics Communications, 2020, 474, 126180. | 2.1 | 0 |
| 264 | Fairness‐aware power allocation in downlink MIMO‐NOMA systems. IET Communications, 2021, 15, 1143-1157. | 2.2 | 0 |
| 265 | Improved Beam Training with Finite Slots in Millimeter Wave Wireless Communications. , 2021, , . | | 0 |
| 266 | Complexity Reduced Transmit Diversity Scheme for Time Domain Synchronous OFDM Systems. IEICE Transactions on Communications, 2011, E94-B, 3116-3124. | 0.7 | 0 |
| 267 | Online Content Dissemination in Hybrid Broadcast-Unicast Networks. IEICE Transactions on Communications, 2013, E96.B, 1551-1558. | 0.7 | 0 |
| 268 | Chromaticity-domain index modulation for visible light communication. , 2020, , . | | 0 |
| 269 | Pricing for Using Operator Platforms with Sharing Edge Services. , 2021, , . | | 0 |
| 270 | Simultaneous Multi-Beam Training for Millimeter-Wave Communication System. IEEE Transactions on Vehicular Technology, 2022, 71, 10631-10645. | 6.3 | 0 |