# Linglong Dai

List of Publications by Year
in descending order

| 210 papers | 16,695 citations | 16451<br>64 h-index | 16183<br>124 g-index |
| --- | --- | --- | --- |
| 210 all docs | 210 docs citations | 210 times ranked | 8405 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 | Energy-Efficient Hybrid Analog and Digital Precoding for MmWave MIMO Systems With Large Antenna Arrays. IEEE Journal on Selected Areas in Communications, 2016, 34, 998-1009. | 14.0 | 801 |
| 4 | Millimeter Wave Communications for Future Mobile Networks. IEEE Journal on Selected Areas in Communications, 2017, 35, 1909-1935. | 14.0 | 797 |
| 5 | 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 |
| 6 | Millimeter-Wave Massive MIMO Communication for Future Wireless Systems: A Survey. IEEE Communications Surveys and Tutorials, 2018, 20, 836-869. | 39.4 | 457 |
| 7 | Reconfigurable Intelligent Surface-Based Wireless Communications: Antenna Design, Prototyping, and Experimental Results. IEEE Access, 2020, 8, 45913-45923. | 4.2 | 432 |
| 8 | MmWave massive-MIMO-based wireless backhaul for the 5G ultra-dense network. IEEE Wireless Communications, 2015, 22, 13-21. | 9.0 | 339 |
| 9 | Optimal 3D-Trajectory Design and Resource Allocation for Solar-Powered UAV Communication Systems. IEEE Transactions on Communications, 2019, 67, 4281-4298. | 7.8 | 285 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Near-Optimal Beam Selection for Beamspace MmWave Massive MIMO Systems. IEEE Communications Letters, 2016, 20, 1054-1057. | 4.1 | 230 |
| 14 | Performance Analysis of Mixed-ADC Massive MIMO Systems Over Rician Fading Channels. IEEE Journal on Selected Areas in Communications, 2017, 35, 1327-1338. | 14.0 | 220 |
| 15 | Hybrid Precoding-Based Millimeter-Wave Massive MIMO-NOMA With Simultaneous Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2019, 37, 131-141. | 14.0 | 219 |
| 16 | On Low-Resolution ADCs in Practical 5G Millimeter-Wave Massive MIMO Systems. IEEE Communications Magazine, 2018, 56, 205-211. | 6.1 | 218 |
| 17 | MIMO-NOMA Design for Small Packet Transmission in the Internet of Things. IEEE Access, 2016, 4, 1393-1405. | 4.2 | 209 |
| 18 | On the Spectral Efficiency of Massive MIMO Systems With Low-Resolution ADCs. IEEE Communications Letters, 2016, 20, 842-845. | 4.1 | 207 |

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|---|---------|-----|-----------|
| 19 | Channel Estimation for Orthogonal Time Frequency Space (OTFS) Massive MIMO. IEEE Transactions on Signal Processing, 2019, 67, 4204-4217. | 5.3 | 198 |
| 20 | Compressive Sensing Techniques for Next-Generation Wireless Communications. IEEE Wireless Communications, 2018, 25, 144-153. | 9.0 | 190 |
| 21 | 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 |
| 22 | Reliable Beamspace Channel Estimation for Millimeter-Wave Massive MIMO Systems with Lens Antenna Array. IEEE Transactions on Wireless Communications, 2017, 16, 6010-6021. | 9.2 | 180 |
| 23 | Smart Pilot Assignment for Massive MIMO. IEEE Communications Letters, 2015, 19, 1644-1647. | 4.1 | 178 |
| 24 | Two-Timescale Channel Estimation for Reconfigurable Intelligent Surface Aided Wireless Communications. IEEE Transactions on Communications, 2021, 69, 7736-7747. | 7.8 | 175 |
| 25 | Structured Compressive Sensing-Based Spatio-Temporal Joint Channel Estimation for FDD Massive MIMO. IEEE Transactions on Communications, 2016, 64, 601-617. | 7.8 | 173 |
| 26 | Low RF-Complexity Technologies to Enable Millimeter-Wave MIMO with Large Antenna Array for 5G Wireless Communications. IEEE Communications Magazine, 2018, 56, 211-217. | 6.1 | 167 |
| 27 | Dynamic Compressive Sensing-Based Multi-User Detection for Uplink Grant-Free NOMA. IEEE Communications Letters, 2016, 20, 2320-2323. | 4.1 | 166 |
| 28 | Fast Channel Tracking for Terahertz Beamspace Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 5689-5696. | 6.3 | 154 |
| 29 | Next-generation digital television terrestrial broadcasting systems: Key technologies and research trends. , 2012, 50, 150-158. | | 141 |
| 30 | A Joint Precoding Framework for Wideband Reconfigurable Intelligent Surface-Aided Cell-Free Network. IEEE Transactions on Signal Processing, 2021, 69, 4085-4101. | 5.3 | 141 |
| 31 | On the Performance of NOMA-Based Cooperative Relaying Systems Over Rician Fading Channels. IEEE Transactions on Vehicular Technology, 2017, 66, 11409-11413. | 6.3 | 137 |
| 32 | Machine learning inspired energy-efficient hybrid precoding for mmWave massive MIMO systems. , 2017, , . | | 130 |
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| 36 | Channel Estimation for RIS Assisted Wireless Communications—Part II: An Improved Solution Based on Double-Structured Sparsity. IEEE Communications Letters, 2021, 25, 1403-1407. | 4.1 | 119 |

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| 37 | Channel Estimation for Extremely Large-Scale MIMO: Far-Field or Near-Field?. IEEE Transactions on Communications, 2022, 70, 2663-2677. | 7.8 | 115 |
| 38 | Low-complexity near-optimal signal detection for uplink large-scale MIMO systems. Electronics Letters, 2014, 50, 1326-1328. | 1.0 | 113 |
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| 40 | Joint User Activity and Data Detection Based on Structured Compressive Sensing for NOMA. IEEE Communications Letters, 2016, , 1-1. | 4.1 | 110 |
| 41 | Performance Analysis of FD-NOMA-Based Decentralized V2X Systems. IEEE Transactions on Communications, 2019, 67, 5024-5036. | 7.8 | 109 |
| 42 | Super-Resolution Channel Estimation for MmWave Massive MIMO With Hybrid Precoding. IEEE Transactions on Vehicular Technology, 2018, 67, 8954-8958. | 6.3 | 108 |
| 43 | Spectrum- and Energy-Efficient OFDM Based on Simultaneous Multi-Channel Reconstruction. IEEE Transactions on Signal Processing, 2013, 61, 6047-6059. | 5.3 | 106 |
| 44 | Asymmetrical Hybrid Optical OFDM for Visible Light Communications With Dimming Control. IEEE Photonics Technology Letters, 2015, 27, 974-977. | 2.5 | 104 |
| 45 | Structured compressive sensing based superimposed pilot design in downlink large-scale MIMO systems. Electronics Letters, 2014, 50, 896-898. | 1.0 | 100 |
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| 48 | 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 |
| 49 | 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 |
| 50 | Efficient Vertical Handover Scheme for Heterogeneous VLC-RF Systems. Journal of Optical Communications and Networking, 2015, 7, 1172. | 4.8 | 88 |
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| 52 | Channel Estimation for RIS Assisted Wireless Communications—Part I: Fundamentals, Solutions, and Future Opportunities. IEEE Communications Letters, 2021, 25, 1398-1402. | 4.1 | 87 |
| 53 | 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 |
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| 86 | Channel Estimation for Extremely Large-Scale Massive MIMO: Far-Field, Near-Field, or Hybrid-Field?. IEEE Communications Letters, 2022, 26, 177-181. | 4.1 | 42 |
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| 88 | Asymptotic Orthogonality Analysis of Time-Domain Sparse Massive MIMO Channels. IEEE Communications Letters, 2015, 19, 1826-1829. | 4.1 | 39 |
| 89 | Channel estimation for mmWave massive MIMO based access and backhaul in ultra-dense network. , 2016, , . | | 38 |
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| 92 | Dimmable Visible Light Communications Based on Multilayer ACO-OFDM. IEEE Photonics Journal, 2016, 8, 1-11. | 2.0 | 36 |
| 93 | Secure SWIPT Networks Based on a Non-Linear Energy Harvesting Model. , 2017, , . | | 35 |
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| 101 | Performance Analysis of a Hybrid Downlink-Uplink Cooperative NOMA Scheme. , 2017, , . | | 30 |
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| 105 | Energy Efficiency Maximization for Device-to-Device Communication Underlaying Cellular Networks on Multiple Bands. IEEE Access, 2016, 4, 7682-7691. | 4.2 | 24 |
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| 113 | Variable earns profit: Improved adaptive channel estimation using sparse VSS-NLMS algorithms. , 2014, , . | | 19 |
| 114 | Multipair Massive MIMO Two-Way Full-Duplex Relay Systems with Hardware Impairments. , 2017, , . | | 19 |
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| 124 | Priori-aided channel tracking for millimeter-Wave beamspace massive MIMO systems. , 2016, , . | | 14 |
| 125 | AoD-adaptive subspace codebook for channel feedback in FDD massive MIMO systems. , 2017, , . | | 14 |
| 126 | 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 |

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| 169 | Pilot Design and Channel Estimation for TDS-OFDM System with Transmit Diversity. IEICE Transactions on Communications, 2011, E94-B, 852-855. | 0.7 | 3 |
| 170 | Simultaneous time-frequency channel estimation based on compressive sensing for OFDM system. , 2014, , . | | 3 |
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