

Yongs Zeng

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122
papers

11,661
citations

43
h-index

107
g-index

132
ext. papers

14,801
ext. citations

7.1
avg, IF

7.76
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 122 | Wireless communications with unmanned aerial vehicles: opportunities and challenges 2016 , 54, 36-42 | | 1826 |
| 121 | Energy-Efficient UAV Communication With Trajectory Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2017 , 16, 3747-3760 | 9.6 | 958 |
| 120 | Joint Trajectory and Communication Design for Multi-UAV Enabled Wireless Networks. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2109-2121 | 9.6 | 849 |
| 119 | Throughput Maximization for UAV-Enabled Mobile Relaying Systems. <i>IEEE Transactions on Communications</i> , 2016 , 64, 4983-4996 | 6.9 | 740 |
| 118 | Energy Minimization for Wireless Communication With Rotary-Wing UAV. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 2329-2345 | 9.6 | 507 |
| 117 | Placement Optimization of UAV-Mounted Mobile Base Stations. <i>IEEE Communications Letters</i> , 2017 , 21, 604-607 | 3.8 | 493 |
| 116 | Accessing From the Sky: A Tutorial on UAV Communications for 5G and Beyond. <i>Proceedings of the IEEE</i> , 2019 , 107, 2327-2375 | 14.3 | 410 |
| 115 | Energy-Efficient Data Collection in UAV Enabled Wireless Sensor Network. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 328-331 | 5.9 | 371 |
| 114 | Wireless powered communication networks: an overview. <i>IEEE Wireless Communications</i> , 2016 , 23, 10-18 | 13.4 | 325 |
| 113 | UAV-Enabled Wireless Power Transfer: Trajectory Design and Energy Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 5092-5106 | 9.6 | 295 |
| 112 | Communications and Signals Design for Wireless Power Transmission. <i>IEEE Transactions on Communications</i> , 2017 , 65, 2264-2290 | 6.9 | 278 |
| 111 | . <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 421-439 | 9.6 | 272 |
| 110 | Cellular-Connected UAV: Potential, Challenges, and Promising Technologies. <i>IEEE Wireless Communications</i> , 2019 , 26, 120-127 | 13.4 | 271 |
| 109 | . <i>IEEE Wireless Communications Letters</i> , 2015 , 4, 201-204 | 5.9 | 266 |
| 108 | Trajectory Design for Completion Time Minimization in UAV-Enabled Multicasting. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2233-2246 | 9.6 | 241 |
| 107 | Energy Tradeoff in Ground-to-UAV Communication via Trajectory Design. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 6721-6726 | 6.8 | 224 |
| 106 | Cellular-Enabled UAV Communication: A Connectivity-Constrained Trajectory Optimization Perspective. <i>IEEE Transactions on Communications</i> , 2019 , 67, 2580-2604 | 6.9 | 190 |

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| 105 | . <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 3988-4001 | 9.6 | 180 |
| 104 | Millimeter Wave MIMO With Lens Antenna Array: A New Path Division Multiplexing Paradigm. <i>IEEE Transactions on Communications</i> , 2016 , 64, 1557-1571 | 6.9 | 177 |
| 103 | Optimized Training Design for Wireless Energy Transfer. <i>IEEE Transactions on Communications</i> , 2015 , 63, 536-550 | 6.9 | 168 |
| 102 | Joint Altitude and Beamwidth Optimization for UAV-Enabled Multiuser Communications. <i>IEEE Communications Letters</i> , 2018 , 22, 344-347 | 3.8 | 155 |
| 101 | Cyclical Multiple Access in UAV-Aided Communications: A Throughput-Delay Tradeoff. <i>IEEE Wireless Communications Letters</i> , 2016 , 5, 600-603 | 5.9 | 151 |
| 100 | Wireless Information Surveillance via Proactive Eavesdropping with Spoofing Relay. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2016 , 10, 1449-1461 | 7.5 | 100 |
| 99 | Transmit Optimization With Improper Gaussian Signaling for Interference Channels. <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 2899-2913 | 4.8 | 98 |
| 98 | Wireless communications with programmable metasurface: Transceiver design and experimental results. <i>China Communications</i> , 2019 , 16, 46-61 | 3 | 96 |
| 97 | Overcoming Endurance Issue: UAV-Enabled Communications With Proactive Caching. <i>IEEE Journal on Selected Areas in Communications</i> , 2018 , 36, 1231-1244 | 14.2 | 91 |
| 96 | Electromagnetic Lens-Focusing Antenna Enabled Massive MIMO: Performance Improvement and Cost Reduction. <i>IEEE Journal on Selected Areas in Communications</i> , 2014 , 32, 1194-1206 | 14.2 | 86 |
| 95 | Completion Time Minimization for Multi-UAV-Enabled Data Collection. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 4859-4872 | 9.6 | 78 |
| 94 | Trajectory Optimization and Power Allocation for Multi-Hop UAV Relaying Communications. <i>IEEE Access</i> , 2018 , 6, 48566-48576 | 3.5 | 76 |
| 93 | UAV-Enabled Radio Access Network: Multi-Mode Communication and Trajectory Design. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 5269-5284 | 4.8 | 70 |
| 92 | Spectrum and energy efficiency maximization in UAV-enabled mobile relaying 2017 , | | 69 |
| 91 | Asynchronous Mobile-Edge Computation Offloading: Energy-Efficient Resource Management. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 7590-7605 | 9.6 | 66 |
| 90 | Joint Trajectory and Communication Design for UAV-Enabled Multiple Access 2017 , | | 60 |
| 89 | Multi-UAV Interference Coordination via Joint Trajectory and Power Control. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 843-858 | 4.8 | 54 |
| 88 | 2017 , | | 54 |

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| 87 | Aerial-Ground Cost Tradeoff for Multi-UAV-Enabled Data Collection in Wireless Sensor Networks. <i>IEEE Transactions on Communications</i> , 2020 , 68, 1937-1950 | 6.9 | 51 |
| 86 | Aerial Intelligent Reflecting Surface: Joint Placement and Passive Beamforming Design With 3D Beam Flattening. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 4128-4143 | 9.6 | 51 |
| 85 | A Comprehensive Overview on 5G-and-Beyond Networks With UAVs: From Communications to Sensing and Intelligence. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 2912-2945 | 14.2 | 51 |
| 84 | Bidirectional Wireless Information and Power Transfer With a Helping Relay. <i>IEEE Communications Letters</i> , 2016 , 20, 862-865 | 3.8 | 49 |
| 83 | Multi-User Millimeter Wave MIMO With Full-Dimensional Lens Antenna Array. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 2800-2814 | 9.6 | 46 |
| 82 | Trajectory Design for Distributed Estimation in UAV-Enabled Wireless Sensor Network. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 10155-10159 | 6.8 | 46 |
| 81 | Optimized Transmission with Improper Gaussian Signaling in the K-User MISO Interference Channel. <i>IEEE Transactions on Wireless Communications</i> , 2013 , 12, 6303-6313 | 9.6 | 45 |
| 80 | Optimized Training for Net Energy Maximization in Multi-Antenna Wireless Energy Transfer Over Frequency-Selective Channel. <i>IEEE Transactions on Communications</i> , 2015 , 63, 2360-2373 | 6.9 | 44 |
| 79 | Joint Beamforming and Power Allocation for UAV-Enabled Full-Duplex Relay. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 1657-1671 | 6.8 | 43 |
| 78 | Channel Estimation for Millimeter-Wave MIMO Communications With Lens Antenna Arrays. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 3239-3251 | 6.8 | 40 |
| 77 | Secrecy Energy Efficiency Maximization for UAV-Enabled Mobile Relaying. <i>IEEE Transactions on Green Communications and Networking</i> , 2020 , 4, 180-193 | 4 | 40 |
| 76 | Common Throughput Maximization for UAV-Enabled Interference Channel With Wireless Powered Communications. <i>IEEE Transactions on Communications</i> , 2020 , 68, 3197-3212 | 6.9 | 36 |
| 75 | Robust Secure Beamforming for Wireless Powered Full-Duplex Systems With Self-Energy Recycling. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 10055-10069 | 6.8 | 35 |
| 74 | Spectrum Sharing and Cyclical Multiple Access in UAV-Aided Cellular Offloading 2017 , | | 34 |
| 73 | Retrodirective Multi-User Wireless Power Transfer With Massive MIMO. <i>IEEE Wireless Communications Letters</i> , 2018 , 7, 54-57 | 5.9 | 33 |
| 72 | UAV-enabled multiuser wireless power transfer: Trajectory design and energy optimization 2017 , | | 33 |
| 71 | Cost-Effective Millimeter-Wave Communications with Lens Antenna Array. <i>IEEE Wireless Communications</i> , 2017 , 24, 81-87 | 13.4 | 28 |
| 70 | A Generic Receiver Architecture for MIMO Wireless Power Transfer With Nonlinear Energy Harvesting. <i>IEEE Signal Processing Letters</i> , 2019 , 26, 312-316 | 3.2 | 28 |

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| 69 | Enabling Panoramic Full-Angle Reflection Via Aerial Intelligent Reflecting Surface 2020 , | | 27 |
| 68 | Wireless Power Transfer With Hybrid Beamforming: How Many RF Chains Do We Need?. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 6972-6984 | 9.6 | 25 |
| 67 | Cellular-Enabled UAV Communication: Trajectory Optimization under Connectivity Constraint 2018 , | | 25 |
| 66 | Wideband Millimeter Wave Communication With Lens Antenna Array: Joint Beamforming and Antenna Selection With Group Sparse Optimization. <i>IEEE Transactions on Wireless Communications</i> , 2018 , 17, 6575-6589 | 9.6 | 23 |
| 65 | Path Design for Cellular-Connected UAV with Reinforcement Learning 2019 , | | 23 |
| 64 | Simultaneous Navigation and Radio Mapping for Cellular-Connected UAV With Deep Reinforcement Learning. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 4205-4220 | 9.6 | 22 |
| 63 | Enabling Smart Reflection in Integrated Air-Ground Wireless Network: IRS Meets UAV. <i>IEEE Wireless Communications</i> , 2021 , 28, 138-144 | 13.4 | 22 |
| 62 | Optimal Resource Allocation for Multiuser Internet of Things Network With Single Wireless-Powered Relay. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 3132-3142 | 10.7 | 20 |
| 61 | Software-Defined Coexisting UAV and WiFi: Delay-Oriented Traffic Offloading and UAV Placement. <i>IEEE Journal on Selected Areas in Communications</i> , 2020 , 38, 988-998 | 14.2 | 19 |
| 60 | Efficient channel estimation for millimeter wave MIMO with limited RF chains 2016 , | | 19 |
| 59 | Active eavesdropping via spoofing relay attack 2016 , | | 18 |
| 58 | Throughput Maximization for Mobile Relaying Systems 2016 , | | 16 |
| 57 | Batched Network Coding With Adaptive Recoding for Multi-Hop Erasure Channels With Memory. <i>IEEE Transactions on Communications</i> , 2018 , 66, 1042-1052 | 6.9 | 15 |
| 56 | Joint Base Station selection and linear precoding for cellular networks with multi-cell processing 2010 , | | 15 |
| 55 | Energy-Efficient Data Uploading for Cellular-Connected UAV Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 7279-7292 | 9.6 | 15 |
| 54 | Communicating with Extremely Large-Scale Array/Surface: Unified Modelling and Performance Analysis. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1 | 9.6 | 14 |
| 53 | Cellular-Connected UAV: Performance Analysis with 3D Antenna Modelling 2019 , | | 14 |
| 52 | Waveform optimization for radio-frequency wireless power transfer : (Invited paper) 2017 , | | 13 |

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| 51 | Achievable Rate Region of MISO Interference Channel Aided by Intelligent Reflecting Surface. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 16264-16269 | 6.8 | 13 |
| 50 | An overview on integrated localization and communication towards 6G. <i>Science China Information Sciences</i> , 2022 , 65, 1 | 3.4 | 13 |
| 49 | Receding Horizon Optimization for Energy-Efficient UAV Communication. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 490-494 | 5.9 | 12 |
| 48 | A survey of prototype and experiment for UAV communications. <i>Science China Information Sciences</i> , 2021 , 64, 1 | 3.4 | 12 |
| 47 | Quasi-Universal BATS Code. <i>IEEE Transactions on Vehicular Technology</i> , 2017 , 66, 3497-3501 | 6.8 | 11 |
| 46 | . <i>IEEE Transactions on Multimedia</i> , 2018 , 20, 271-281 | 6.6 | 11 |
| 45 | Toward Environment-Aware 6G Communications via Channel Knowledge Map. <i>IEEE Wireless Communications</i> , 2021 , 28, 84-91 | 13.4 | 11 |
| 44 | Electromagnetic lens-focusing antenna enabled massive MIMO 2013 , | | 9 |
| 43 | Online Maneuver Design for UAV-Enabled NOMA Systems via Reinforcement Learning 2020 , | | 9 |
| 42 | Modified Block Diagonalization Precoding in Multicell Cooperative Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2012 , 61, 3819-3824 | 6.8 | 8 |
| 41 | Waveform Design and Performance Analysis for Full-Duplex Integrated Sensing and Communication. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 1-1 | 14.2 | 8 |
| 40 | Multi-user millimeter wave MIMO with single-sided full-dimensional lens antenna array 2017 , | | 7 |
| 39 | In-Band Wireless Information and Power Transfer With Lens Antenna Array. <i>IEEE Communications Letters</i> , 2017 , 21, 100-103 | 3.8 | 7 |
| 38 | Wireless Communication with Extremely Large-Scale Intelligent Reflecting Surface 2021 , | | 7 |
| 37 | BATS code with unequal error protection 2016 , | | 7 |
| 36 | Performance Analysis of Finite-Length Spatial-Temporal Network Coding. <i>IEEE Communications Letters</i> , 2014 , 18, 1163-1166 | 3.8 | 6 |
| 35 | Improving achievable rate for the two-user SISO interference channel with improper Gaussian signaling 2012 , | | 6 |
| 34 | Communication and Localization With Extremely Large Lens Antenna Array. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 3031-3048 | 9.6 | 6 |

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| 33 | Rotary-Wing UAV Enabled Wireless Network: Trajectory Design and Resource Allocation 2018, | | 6 |
| 32 | Spatial-Temporal Network Coding Based on BATS Code. <i>IEEE Communications Letters</i> , 2017 , 21, 620-623 | 3.8 | 5 |
| 31 | Near-Field Modelling and Performance Analysis for Multi-User Extremely Large-Scale MIMO Communication. <i>IEEE Communications Letters</i> , 2021 , 1-1 | 3.8 | 5 |
| 30 | 3D Trajectory Optimization for Energy-Efficient UAV Communication: A Control Design Perspective. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1 | 9.6 | 5 |
| 29 | Delay-Oriented Spectrum Sharing and Traffic Offloading in Coexisting UAV-Enabled Cellular and WiFi Networks 2018, | | 5 |
| 28 | Cognitive Wireless Power Transfer With Information Helping. <i>IEEE Wireless Communications Letters</i> , 2017 , 6, 346-349 | 5.9 | 4 |
| 27 | Cellular-V2X Communications With Weighted-Power-Based Mode Selection. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 386-400 | 6.7 | 4 |
| 26 | Minimum-Latency FEC Design With Delayed Feedback: Mathematical Modeling and Efficient Algorithms. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 7210-7223 | 9.6 | 4 |
| 25 | How Does Performance Scale with Antenna Number for Extremely Large-Scale MIMO? 2021, | | 4 |
| 24 | Environment-Aware and Training-Free Beam Alignment for mmWave Massive MIMO via Channel Knowledge Map 2021, | | 4 |
| 23 | Energy Consumption Tradeoff for Association-Free Fog-IoT 2019, | | 3 |
| 22 | Resource Management for Asynchronous Mobile-Edge Computation Offloading 2018, | | 3 |
| 21 | Optimal Scheduling for Multi-Hop Video Streaming with Network Coding in Vehicular Networks 2018, | | 3 |
| 20 | An Achievable Region for Double-Unicast Networks With Linear Network Coding. <i>IEEE Transactions on Communications</i> , 2014 , 62, 3621-3630 | 6.9 | 3 |
| 19 | Improper Gaussian signaling for the K-user SISO interference channel 2013, | | 3 |
| 18 | Sub-stream fairness and numerical correctness in MIMO interference channels 2013, | | 2 |
| 17 | MISO interference channel with improper Gaussian signaling 2013, | | 2 |
| 16 | On the degrees of freedom of the 3-user rank-deficient MIMO interference channels 2013, | | 2 |

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| 15 | Energy Minimization for Cellular-Connected UAV: From Optimization to Deep Reinforcement Learning. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1 | 9.6 | 2 |
| 14 | Full-Duplex Integrated Sensing and Communication: Waveform Design and Performance Analysis 2021 , | | 1 |
| 13 | Stochastic Geometry-Based Performance Analysis of Drone Cellular Networks 2020 , 231-254 | | 1 |
| 12 | A Survey of Air-to-Ground Propagation Channel Modeling for Unmanned Aerial Vehicles 2020 , 17-70 | | 1 |
| 11 | Guest Editorial Special Issue on UAV Communications in 5G and Beyond Networks Part I. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 2907-2911 | 14.2 | 1 |
| 10 | Balancing Weighted Substreams in MIMO Interference Channels. <i>IEEE Wireless Communications Letters</i> , 2014 , 3, 513-516 | 5.9 | 0 |
| 9 | Non-Orthogonal Multiple Access for UAV Communications 2020 , 349-371 | | 0 |
| 8 | UAV-Enabled Wireless Power Transfer 2020 , 399-416 | | 0 |
| 7 | Guest Editorial Special Issue on UAV Communications in 5G and Beyond Networks Part II. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 3247-3251 | 14.2 | |
| 6 | Joint Trajectory and Resource Optimization 2020 , 283-297 | | |
| 5 | Energy-Efficient UAV Communications 2020 , 299-314 | | |
| 4 | Fundamental Trade-Offs for UAV Communications 2020 , 315-328 | | |
| 3 | IEEE ACCESS Special Section Editorial: Energy Efficient Wireless Communications With Energy Harvesting and Wireless Power Transfer. <i>IEEE Access</i> , 2018 , 6, 72041-72045 | 3.5 | |
| 2 | Near-Field Spatial Correlation for Extremely Large-Scale Array Communications. <i>IEEE Communications Letters</i> , 2022 , 1-1 | 3.8 | |
| 1 | Near-Field Modelling and Performance Analysis of Modular Extremely Large-Scale Array Communications. <i>IEEE Communications Letters</i> , 2022 , 1-1 | 3.8 | |