Zidong Wu

List of Publications by Citations

156	6,387	44	77
papers	citations	h-index	g-index
169	8,245	5.4	6.75
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
156	A Survey of Non-Orthogonal Multiple Access for 5G. *IEEE Communications Surveys and Tutorials*, **2018**, 20, 2294-2323	37.1	501
155	Millimeter-Wave Massive MIMO Communication for Future Wireless Systems: A Survey. *IEEE Communications Surveys and Tutorials*, **2018**, 20, 836-869	37.1	267
154	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	14.2	197
153	Reconfigurable Intelligent Surface-Based Wireless Communications: Antenna Design, Prototyping, and Experimental Results. *IEEE Access*, **2020**, 8, 45913-45923	3.5	190
152	Optimal 3D-Trajectory Design and Resource Allocation for Solar-Powered UAV Communication Systems. *IEEE Transactions on Communications*, **2019**, 67, 4281-4298	6.9	188
151	MIMO-NOMA Design for Small Packet Transmission in the Internet of Things. *IEEE Access*, **2016**, 4, 1393-1405	3.5	174
150	Channel Estimation for Millimeter-Wave Massive MIMO With Hybrid Precoding Over Frequency-Selective Fading Channels. *IEEE Communications Letters*, **2016**, 20, 1259-1262	3.8	171
149	On the Spectral Efficiency of Massive MIMO Systems With Low-Resolution ADCs. *IEEE Communications Letters*, **2016**, 20, 842-845	3.8	163
148	Performance Analysis of Mixed-ADC Massive MIMO Systems Over Rician Fading Channels. *IEEE Journal on Selected Areas in Communications*, **2017**, 35, 1327-1338	14.2	160
147	Near-Optimal Beam Selection for Beamspace MmWave Massive MIMO Systems. *IEEE Communications Letters*, **2016**, 20, 1054-1057	3.8	154
146	Spectrally Efficient Time-Frequency Training OFDM for Mobile Large-Scale MIMO Systems. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 251-263	14.2	145
145	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	14.2	144
144	Smart Pilot Assignment for Massive MIMO. *IEEE Communications Letters*, **2015**, 19, 1644-1647	3.8	134
143	Structured Compressive Sensing-Based Spatio-Temporal Joint Channel Estimation for FDD Massive MIMO. *IEEE Transactions on Communications*, **2016**, 64, 601-617	6.9	123
142	Dynamic Compressive Sensing-Based Multi-User Detection for Uplink Grant-Free NOMA. *IEEE Communications Letters*, **2016**, 20, 2320-2323	3.8	116
141	Reliable Beamspace Channel Estimation for Millimeter-Wave Massive MIMO Systems with Lens Antenna Array. *IEEE Transactions on Wireless Communications*, **2017**, 16, 6010-6021	9.6	115
140	Low RF-Complexity Technologies to Enable Millimeter-Wave MIMO with Large Antenna Array for 5G Wireless Communications. *IEEE Communications Magazine*, **2018**, 56, 211-217	9.1	107

139	Next-generation digital television terrestrial broadcasting systems: Key technologies and research trends **2012**, 50, 150-158		107
138	Unified Performance Analysis of Mixed Radio Frequency/Free-Space Optical Dual-Hop Transmission Systems. *Journal of Lightwave Technology*, **2015**, 33, 2286-2293	4	92
137	Low-complexity near-optimal signal detection for uplink large-scale MIMO systems. *Electronics Letters*, **2014**, 50, 1326-1328	1.1	92
136	Machine learning inspired energy-efficient hybrid precoding for mmWave massive MIMO systems **2017**,		89
135	Mixed-ADC/DAC Multipair Massive MIMO Relaying Systems: Performance Analysis and Power Optimization. *IEEE Transactions on Communications*, **2019**, 67, 140-153	6.9	88
134	Compressive Sensing Based Channel Estimation for OFDM Systems Under Long Delay Channels. *IEEE Transactions on Broadcasting*, **2014**, 60, 313-321	4.7	86
133	Asymmetrical Hybrid Optical OFDM for Visible Light Communications With Dimming Control. *IEEE Photonics Technology Letters*, **2015**, 27, 974-977	2.2	85
132	Spectrum- and Energy-Efficient OFDM Based on Simultaneous Multi-Channel Reconstruction. *IEEE Transactions on Signal Processing*, **2013**, 61, 6047-6059	4.8	78
131	Joint User Activity and Data Detection Based on Structured Compressive Sensing for NOMA. *IEEE Communications Letters*, **2016**, 1-1	3.8	76
130	Graph Coloring Based Pilot Allocation to Mitigate Pilot Contamination for Multi-Cell Massive MIMO Systems. *IEEE Communications Letters*, **2015**, 19, 1842-1845	3.8	75
129	Multiuser MIMO-OFDM for Visible Light Communications. *IEEE Photonics Journal*, **2015**, 7, 1-11	1.8	75
128	Structured compressive sensing based superimposed pilot design in downlink large-scale MIMO systems. *Electronics Letters*, **2014**, 50, 896-898	1.1	75
127	Channel Estimation for Orthogonal Time Frequency Space (OTFS) Massive MIMO. *IEEE Transactions on Signal Processing*, **2019**, 67, 4204-4217	4.8	74
126	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	14.2	74
125	Compressive Sensing Based Time Domain Synchronous OFDM Transmission for Vehicular Communications. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 460-469	14.2	64
124	Achievable Rate of Rician Large-Scale MIMO Channels With Transceiver Hardware Impairments. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 8800-8806	6.8	63
123	Joint CSIT Acquisition Based on Low-Rank Matrix Completion for FDD Massive MIMO Systems. *IEEE Communications Letters*, **2015**, 19, 2178-2181	3.8	59
122	Super-Resolution Channel Estimation for MmWave Massive MIMO With Hybrid Precoding. *IEEE Transactions on Vehicular Technology*, **2018**, 67, 8954-8958	6.8	59

121	Two-Timescale Channel Estimation for Reconfigurable Intelligent Surface Aided Wireless Communications. *IEEE Transactions on Communications*, **2021**, 1-1	6.9	59
120	NOMA Meets Finite Resolution Analog Beamforming in Massive MIMO and Millimeter-Wave Networks. *IEEE Communications Letters*, **2017**, 21, 1879-1882	3.8	54
119	Super-Resolution Sparse MIMO-OFDM Channel Estimation Based on Spatial and Temporal Correlations. *IEEE Communications Letters*, **2014**, 18, 1266-1269	3.8	54
118	Deep Learning-Based mmWave Beam Selection for 5G NR/6G With Sub-6 GHz Channel Information: Algorithms and Prototype Validation. *IEEE Access*, **2020**, 8, 51634-51646	3.5	51
117	Channel Feedback Based on AoD-Adaptive Subspace Codebook in FDD Massive MIMO Systems. *IEEE Transactions on Communications*, **2018**, 66, 5235-5248	6.9	51
116	Adaptive Hybrid Precoding for Multiuser Massive MIMO. *IEEE Communications Letters*, **2016**, 20, 776-779	3.8	50
115	Effective capacity of communication systems over shadowed fading channels. *Electronics Letters*, **2015**, 51, 1540-1542	1.1	49
114	Wideband Beamspace Channel Estimation for Millimeter-Wave MIMO Systems Relying on Lens Antenna Arrays. *IEEE Transactions on Signal Processing*, **2019**, 67, 4809-4824	4.8	48
113	Weighted-Graph-Coloring-Based Pilot Decontamination for Multicell Massive MIMO Systems. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 2829-2834	6.8	45
112	A Joint Precoding Framework for Wideband Reconfigurable Intelligent Surface-Aided Cell-Free Network. *IEEE Transactions on Signal Processing*, **2021**, 69, 4085-4101	4.8	44
111	On the Ergodic Capacity of MIMO Free-Space Optical Systems Over Turbulence Channels. *IEEE Journal on Selected Areas in Communications*, **2015**, 33, 1925-1934	14.2	43
110	Secure communication in TDS-OFDM system using constellation rotation and noise insertion. *IEEE Transactions on Consumer Electronics*, **2010**, 56, 1328-1332	4.8	41
109	Matrix inversion-less signal detection using SOR method for uplink large-scale MIMO systems **2014**,		40
108	Compressive Sensing Based Multi-User Detection for Uplink Grant-Free Non-Orthogonal Multiple Access **2015**,		39
107	Positioning with OFDM signals for the next- generation GNSS. *IEEE Transactions on Consumer Electronics*, **2010**, 56, 374-379	4.8	38
106	Joint Channel Training and Feedback for FDD Massive MIMO Systems. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 8762-8767	6.8	36
105	Channel estimation for mmWave massive MIMO based access and backhaul in ultra-dense network **2016**,		35
104	Channel Estimation for RIS Assisted Wireless Communications—Part II: An Improved Solution Based on Double-Structured Sparsity. *IEEE Communications Letters*, **2021**, 25, 1403-1407	3.8	35

103	Multi-User Sum-Rate Optimization for Visible Light Communications With Lighting Constraints. *Journal of Lightwave Technology*, **2016**, 34, 3943-3952	4	35
102	Asymptotic Orthogonality Analysis of Time-Domain Sparse Massive MIMO Channels. *IEEE Communications Letters*, **2015**, 19, 1826-1829	3.8	34
101	On the Multivariate Gamma□Gamma Distribution With Arbitrary Correlation and Applications in Wireless Communications. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 3834-3840	6.8	34
100	A Tight Upper Bound on Channel Capacity for Visible Light Communications. *IEEE Communications Letters*, **2016**, 20, 97-100	3.8	34
99	Compressive-Sensing-Based Multiuser Detector for the Large-Scale SM-MIMO Uplink. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 8725-8730	6.8	33
98	Deep Learning for Beamspace Channel Estimation in Millimeter-Wave Massive MIMO Systems. *IEEE Transactions on Communications*, **2021**, 69, 182-193	6.9	32
97	Low-Complexity SSOR-Based Precoding for Massive MIMO Systems. *IEEE Communications Letters*, **2016**, 20, 744-747	3.8	31
96	Low-Complexity MMSE Signal Detection Based on Richardson Method for Large-Scale MIMO Systems **2014**,		31
95	Location-based channel estimation and pilot assignment for massive MIMO systems **2015**,		30
94	Relay Hybrid Precoding Design in Millimeter-Wave Massive MIMO Systems. *IEEE Transactions on Signal Processing*, **2018**, 66, 2011-2026	4.8	29
93	Beamspace channel estimation for millimeter-wave massive MIMO systems with lens antenna array **2016**,		29
92	Dimmable Visible Light Communications Based on Multilayer ACO-OFDM. *IEEE Photonics Journal*, **2016**, 8, 1-11	1.8	27
91	Near-Optimal Signal Detector Based on Structured Compressive Sensing for Massive SM-MIMO. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 1860-1865	6.8	25
90	Improved Receiver Design for Layered ACO-OFDM in Optical Wireless Communications. *IEEE Photonics Technology Letters*, **2016**, 28, 319-322	2.2	25
89	Capacity Improvement in Wideband Reconfigurable Intelligent Surface-Aided Cell-Free Network **2020**,		25
88	Performance Analysis of a Hybrid Downlink-Uplink Cooperative NOMA Scheme **2017**,		24
87	Location-Aware Pilot Assignment for Massive MIMO Systems in Heterogeneous Networks. *IEEE Transactions on Vehicular Technology*, **2016**, 65, 6815-6821	6.8	24
86	Wireless Positioning Using TDS-OFDM Signals in Single-Frequency Networks. *IEEE Transactions on Broadcasting*, **2012**, 58, 236-246	4.7	24

85	On the Power Leakage Problem in Millimeter-Wave Massive MIMO With Lens Antenna Arrays. *IEEE Transactions on Signal Processing*, **2019**, 67, 4730-4744	4.8	23
84	Channel Estimation for RIS Assisted Wireless Communications-Part I: Fundamentals, Solutions, and Future Opportunities. *IEEE Communications Letters*, **2021**, 25, 1398-1402	3.8	23
83	Delay-Phase Precoding for THz Massive MIMO with Beam Split **2019**,		23
82	A Novel Uplink Multiple Access Scheme Based on TDS-FDMA. *IEEE Transactions on Wireless Communications*, **2011**, 10, 757-761	9.6	22
81	Iterative Receiver for Hybrid Asymmetrically Clipped Optical OFDM. *Journal of Lightwave Technology*, **2014**, 32, 4471-4477	4	21
80	Transmit Diversity for TDS-OFDM Broadcasting System Over Doubly Selective Fading Channels. *IEEE Transactions on Broadcasting*, **2011**, 57, 135-142	4.7	21
79	On the Performance of Channel-Statistics-Based Codebook for Massive MIMO Channel Feedback. *IEEE Transactions on Vehicular Technology*, **2017**, 66, 7553-7557	6.8	19
78	Active Reconfigurable Intelligent Surface: Fully-Connected or Sub-Connected?. *IEEE Communications Letters*, **2021**, 1-1	3.8	19
77	Energy Efficiency Maximization for Device-to-Device Communication Underlaying Cellular Networks on Multiple Bands. *IEEE Access*, **2016**, 4, 7682-7691	3.5	18
76	Near-Optimal Low-Complexity Sequence Detection for Clipped DCO-OFDM. *IEEE Photonics Technology Letters*, **2016**, 28, 233-236	2.2	18
75	Capacity-approaching linear precoding with low-complexity for large-scale MIMO systems **2015**,		18
74	Multipair Massive MIMO Two-Way Full-Duplex Relay Systems with Hardware Impairments **2017**,		16
73	Joint channel estimation and time-frequency synchronization for uplink TDS-OFDMA systems. *IEEE Transactions on Consumer Electronics*, **2010**, 56, 494-500	4.8	16
72	Beamspace MIMO-NOMA for Millimeter-Wave Communications Using Lens Antenna Arrays **2017**,		15
71	Channel Estimation for Extremely Large-Scale MIMO: Far-Field or Near-Field?. *IEEE Transactions on Communications*, **2022**, 1-1	6.9	14
70	Tracking a dynamic sparse channel via differential orthogonal matching pursuit **2015**,		13
69	Variable earns profit: Improved adaptive channel estimation using sparse VSS-NLMS algorithms **2014**,		13
68	Beamspace Channel Estimation for Wideband Millimeter-Wave MIMO with Lens Antenna Array **2018**,		13

67	Delay-Phase Precoding for Wideband THz Massive MIMO. *IEEE Transactions on Wireless Communications*, **2022**, 1-1	9.6	12
66	AoD-adaptive subspace codebook for channel feedback in FDD massive MIMO systems **2017**,		11
65	Spatially correlated channel estimation based on block iterative support detection for massive MIMO systems. *Electronics Letters*, **2015**, 51, 587-588	1.1	11
64	Joint Time-Frequency Channel Estimation for Time Domain Synchronous OFDM Systems. *IEEE Transactions on Broadcasting*, **2013**, 59, 168-173	4.7	11
63	On the Max-Min Fairness of Beamspace MIMO-NOMA. *IEEE Transactions on Signal Processing*, **2020**, 68, 4919-4932	4.8	10
62	Priori-aided channel tracking for millimeter-Wave beamspace massive MIMO systems **2016**,		10
61	Compressive sensing-based differential channel feedback for massive MIMO. *Electronics Letters*, **2015**, 51, 1824-1826	1.1	9
60	Partially Coherent Compressive Phase Retrieval for Millimeter-Wave Massive MIMO Channel Estimation. *IEEE Transactions on Signal Processing*, **2020**, 68, 1673-1687	4.8	9
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58	Dimension Reduced Channel Feedback for Reconfigurable Intelligent Surface Aided Wireless Communications. *IEEE Transactions on Communications*, **2021**, 1-1	6.9	9
57	Joint channel estimation and feedback with low overhead for FDD massive MIMO systems **2015**,		8
56	Compact User-Specific Reconfigurable Intelligent Surfaces for Uplink Transmission. *IEEE Transactions on Communications*, **2021**, 1-1	6.9	8
55	Beamspace channel estimation for 3D lens-based millimeter-wave massive MIMO systems **2016**,		8
54	Channel Estimation for Orthogonal Time Frequency Space (OTFS) Massive MIMO **2019**,		7
53	On the spectral efficiency of space-constrained massive MIMO with linear receivers **2016**,		7
52	Spectrum-Efficient Coherent Optical OFDM for Transport Networks. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 62-74	14.2	7
51	Block compressive channel estimation and feedback for FDD massive MIMO **2015**,		6
50	Angle-based codebook for low-resolution hybrid precoding in millimeter-wave massive MIMO systems **2017**,		6

49	A multi-user uplink TDS-OFDM system based on dual PN sequence padding. *IEEE Transactions on Consumer Electronics*, **2009**, 55, 1098-1106	4.8	6
48	On the Power Leakage Problem in Beamspace MIMO Systems with Lens Antenna Array **2017**,		5
47	Structured Matching Pursuit for Reconstruction of Dynamic Sparse Channels **2015**,		5
46	Time domain synchronous OFDM based on compressive sensing: A new perspective **2012**,		5
45	Flexible Multi-Block OFDM Transmission for High-Speed Fiber-Wireless Networks. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 788-796	14.2	4
44	Fast variational Bayesian learning for channel estimation with prior statistical information **2015**,		4
43	Unified Time-Frequency OFDM Transmission with Self Interference Cancellation. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2013**, E96.A, 807-813	0.4	4
42	TDS-OFDM based HDTV transmission over fast fading channels. *IEEE Transactions on Consumer Electronics*, **2013**, 59, 16-23	4.8	3
41	MDP-based vertical handover scheme for indoor VLC-WiFi systems **2015**,		3
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39	LDPC coded TDS-OFDM for PLC systems. *Tsinghua Science and Technology*, **2010**, 15, 312-318	3.4	3
38	Joint Code Acquisition and Doppler Frequency Shift Estimation for GPS Signals **2010**,		3
37	Channel Estimation for Extremely Large-Scale Massive MIMO: Far-Field, Near-Field, or Hybrid-Field?. *IEEE Communications Letters*, **2021**, 1-1	3.8	3
36	Channel Feedback in TDD Massive MIMO Systems with Partial Reciprocity. *IEEE Transactions on Vehicular Technology*, **2021**, 1-1	6.8	3
35	Reconfigurable Intelligent Surface Empowered Optimization for Spectrum Sharing: Scenarios and Methods. *IEEE Vehicular Technology Magazine*, **2022**, 2-9	9.9	3
34	Massive MIMO channel estimation based on block iterative support detection **2016**,		2
33	Correntropy Induced Metric Penalized Sparse RLS Algorithm to Improve Adaptive System Identification **2016**,		2
32	Dynamic multi-user detection based on structured compressive sensing for IoT-oriented 5G systems **2016**,		2

31	Spectrum-efficient superimposed pilot design based on structured compressive sensing for downlink large-scale MIMO systems **2014**,		2
30	Optimal FemtoCell Density for Maximizing Throughput in 5G Heterogeneous Networks under Outage Constraints **2017**,		2
29	Multi-user MIMO-OFDM for indoor visible light communication systems **2015**,		2
28	Temporal correlation based sparse channel estimation for TDS-OFDM in high-speed scenarios **2015**,		2
27	TDS-OFDMA: a novel multiple access system based on TDS-OFDM. *IEEE Transactions on Consumer Electronics*, **2011**, 57, 1528-1534	4.8	2
26	TDS-OFDM Transmit Diversity Based on Space-Time Shifted CAZAC Sequence **2010**,		2
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24	Wideband Beam Tracking Based on Beam Zooming for THz Massive MIMO **2020**,		2
23	Channel Feedback for Reconfigurable Intelligent Surface Assisted Wireless Communications **2020**,		2
22	A Novel CPR-TDS-OFDM System for High-Speed Mobile Reception. *IEICE Transactions on Communications*, **2010**, E93-B, 788-791	0.5	2
21	End-to-End Learning of Communication System without Known Channel **2021**,		2
20	Max-Min Fairness for Beamspace MIMO-NOMA: From Single-Beam to Multi-Beam. *IEEE Transactions on Wireless Communications*, **2021**, 1-1	9.6	2
19	Near-Field Channel Estimation for Extremely Large-scale MIMO with Hybrid Precoding **2021**,		2
18	Joint CSIT acquisition based on low-rank matrix recovery for FDD massive MIMO systems **2015**,		1
17	Reliable and energy-efficient OFDM based on structured compressive sensing **2014**,		1
16	Structured Matching Pursuit for Reconstruction of Dynamic Sparse Channels **2014**,		1
15	Energy-efficient hybrid precoding based on successive interference cancelation for millimeter-wave massive MIMO systems **2015**,		1
14	Pilot Design and Channel Estimation for TDS-OFDM System with Transmit Diversity. *IEICE Transactions on Communications*, **2011**, E94-B, 852-855	0.5	1

13	A Novel TDS-FDMA Scheme for Multi-User Uplink Scenarios **2010**,		1
12	Transmit Diversity Scheme for TDS-OFDM Systems with Reduced Complexity **2011**,		1
11	Power Allocation for Multi-Beam Max-Min Fairness in Millimeter-Wave Beamspace MIMO-NOMA **2019**,		1
10	Residual-Aided End-to-End Learning of Communication System without Known Channel. *IEEE Transactions on Cognitive Communications and Networking*, **2022**, 1-1	6.6	1
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8	Two-stage beamforming training for multi-user millimetre wave systems. *Electronics Letters*, **2016**, 52, 1351-1353	1.1	0
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6	End-to-End Learning for RIS-Aided Communication Systems. *IEEE Transactions on Vehicular Technology*, **2022**, 1-1	6.8	0
5	Distributed Machine Learning Based Downlink Channel Estimation for RIS Assisted Wireless Communications. *IEEE Transactions on Communications*, **2022**, 1-1	6.9	0
4	Coded MIMO With Asymmetric Constellation Sizes. *IEEE Transactions on Vehicular Technology*, **2015**, 64, 4338-4344	6.8	
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