Zhi Chen

List of Publications by Year
in descending order

70 papers	2,770 citations	236612 25 h-index	174990 52 g-index
70 all docs	70 docs citations	70 times ranked	2317 citing authors

#	Article	IF	Citations
1	Reconfigurable Intelligent Surface-Based Wireless Communications: Antenna Design, Prototyping, and Experimental Results. IEEE Access, 2020, 8, 45913-45923.	2.6	432
2	Intelligent Reflecting Surface-Assisted Millimeter Wave Communications: Joint Active and Passive Precoding Design. IEEE Transactions on Vehicular Technology, 2020, 69, 14960-14973.	3.9	270
3	Improving Physical Layer Security Using UAV-Enabled Mobile Relaying. IEEE Wireless Communications Letters, 2017, 6, 310-313.	3.2	176
4	Low-Rank Tensor Decomposition-Aided Channel Estimation for Millimeter Wave MIMO-OFDM Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 1524-1538.	9.7	169
5	Efficient Multi-User Detection for Uplink Grant-Free NOMA: Prior-Information Aided Adaptive Compressive Sensing Perspective. IEEE Journal on Selected Areas in Communications, 2017, 35, 2812-2828.	9.7	122
6	Terahertz Multi-User Massive MIMO With Intelligent Reflecting Surface: Beam Training and Hybrid Beamforming. IEEE Transactions on Vehicular Technology, 2021, 70, 1376-1393.	3.9	121
7	Data-Driven-Based Analog Beam Selection for Hybrid Beamforming Under mm-Wave Channels. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 340-352.	7.3	87
8	Beamforming Optimization for Intelligent Reflecting Surface Assisted MIMO: A Sum-Path-Gain Maximization Approach. IEEE Wireless Communications Letters, 2020, , 1-1.	3.2	84
9	Joint Channel Estimation and Data Rate Maximization for Intelligent Reflecting Surface Assisted Terahertz MIMO Communication Systems. IEEE Access, 2020, 8, 99565-99581.	2.6	82
10	Joint Channel Estimation and Multiuser Detection for Uplink Grant-Free NOMA. IEEE Wireless Communications Letters, 2018, 7, 682-685.	3.2	81
11	Optimizing Resource Allocation in URLLC for Real-Time Wireless Control Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 8916-8927.	3.9	79
12	Block-Sparsity-Based Multiuser Detection for Uplink Grant-Free NOMA. IEEE Transactions on Wireless Communications, 2018, 17, 7894-7909.	6.1	77
13	Joint Power and Trajectory Design for Physical-Layer Secrecy in the UAV-Aided Mobile Relaying System. IEEE Access, 2018, 6, 62849-62855.	2.6	72
14	Toward Real-Time Control in Future Wireless Networks: Communication-Control Co-Design. IEEE Communications Magazine, 2019, 57, 138-144.	4.9	60
15	Integrated Scheduling of Sensing, Communication, and Control for mmWave/THz Communications in Cellular Connected UAV Networks. IEEE Journal on Selected Areas in Communications, 2022, 40, 2103-2113.	9.7	51
16	Intelligent Reflecting Surface Assisted Terahertz Communications Toward 6G. IEEE Wireless Communications, 2021, 28, 110-117.	6.6	49
17	An Incentive-Aware Job Offloading Control Framework for Multi-Access Edge Computing. IEEE Transactions on Mobile Computing, 2021, 20, 63-75.	3.9	45
18	SIW Folded Cassegrain Lens for Millimeter-Wave Multibeam Application. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 583-586.	2.4	39

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19	One-Bit Quantization Design and Channel Estimation for Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 10921-10934.	3.9	39
20	Low-Complexity Detector in Sparse Code Multiple Access Systems. IEEE Communications Letters, 2016, 20, 1812-1815.	2.5	34
21	Planar 2-D Scanning SIW Multibeam Array With Low Sidelobe Level for Millimeter-Wave Applications. IEEE Transactions on Antennas and Propagation, 2019, 67, 4570-4578.	3.1	33
22	Fast Beam Alignment for Millimeter Wave Communications: A Sparse Encoding and Phaseless Decoding Approach. IEEE Transactions on Signal Processing, 2019, 67, 4402-4417.	3.2	32
23	Distance-Adaptive Absorption Peak Modulation (DA-APM) for Terahertz Covert Communications. IEEE Transactions on Wireless Communications, 2021, 20, 2064-2077.	6.1	30
24	Compressive Channel Estimation and Multi-User Detection in C-RAN With Low-Complexity Methods. IEEE Transactions on Wireless Communications, 2018, 17, 3931-3944.	6.1	28
25	Deep Neural Networks for CSI-Based Authentication. IEEE Access, 2019, 7, 123026-123034.	2.6	28
26	On Artificial-Noise-Aided Transmit Design for Multiuser MISO Systems With Integrated Services. IEEE Transactions on Vehicular Technology, 2017, 66, 8179-8195.	3.9	25
27	A Unified 3D Beam Training and Tracking Procedure for Terahertz Communication. IEEE Transactions on Wireless Communications, 2022, 21, 2445-2461.	6.1	24
28	Joint Estimation of Azimuth and Elevation via Manifold Separation for Arbitrary Array Structures. IEEE Transactions on Vehicular Technology, 2018, , 1-1.	3.9	23
29	Low Complexity Detection Based on Dynamic Factor Graph for SCMA Systems. IEEE Communications Letters, 2017, 21, 2666-2669.	2.5	21
30	An ADMM Approach for PAPR Reduction for Large-Scale MIMO-OFDM Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 7407-7418.	3.9	20
31	Improving Security of THz Communication with Intelligent Reflecting Surface. , 2019, , .		20
32	Dynamic Communication QoS Design for Real-Time Wireless Control Systems. IEEE Sensors Journal, 2020, 20, 3005-3015.	2.4	20
33	Interference-Cancelled Asymmetric Traffic Cellular Networks: Dynamic TDD Meets Massive MIMO. IEEE Transactions on Vehicular Technology, 2018, 67, 9785-9800.	3.9	19
34	GSVD-Based Precoding in MIMO Systems With Integrated Services. IEEE Signal Processing Letters, 2016, 23, 1528-1532.	2.1	17
35	Hybrid Precoding and Combining for Millimeter Wave/Sub-THz MIMO-OFDM Systems With Beam Squint Effects. IEEE Transactions on Vehicular Technology, 2021, 70, 8314-8319.	3.9	17
36	Autonomous D2D Transmission Scheme in URLLC for Real-Time Wireless Control Systems. IEEE Transactions on Communications, 2021, 69, 5546-5558.	4.9	16

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37	DNN-Powered SIC-Free Receiver Artificial Noise Aided Terahertz Secure Communications With Randomly Distributed Eavesdroppers. IEEE Transactions on Wireless Communications, 2022, 21, 563-576.	6.1	14
38	Physical Layer Service Integration in 5G: Potentials and Challenges. IEEE Access, 2018, 6, 16563-16575.	2.6	13
39	Generalized Bussgang LMMSE Channel Estimation for One-Bit Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2020, 19, 4234-4246.	6.1	13
40	Joint Communication and Control for mmWave/THz Beam Alignment in V2X Networks. IEEE Internet of Things Journal, 2022, 9, 11203-11213.	5.5	13
41	Codebook-Based Hybrid Beamforming Design for MISOME Wiretap Channel. IEEE Wireless Communications Letters, 2019, 8, 57-60.	3.2	12
42	Dynamic Pricing for Smart Mobile Edge Computing: A Reinforcement Learning Approach. IEEE Wireless Communications Letters, 2021, 10, 700-704.	3.2	12
43	Coverage Modeling and Analysis for Outdoor THz Networks With Blockage and Molecular Absorption. IEEE Wireless Communications Letters, 2021, 10, 1028-1031.	3.2	12
44	Enhancing THz/mmWave Network Beam Alignment With Integrated Sensing and Communication. IEEE Communications Letters, 2022, 26, 1698-1702.	2.5	12
45	Packet-Drop Design in URLLC for Real-Time Wireless Control Systems. IEEE Access, 2019, 7, 183081-183090.	2.6	11
46	Distance-Adaptive Absorption-Peak Hopping (DA-APH) Modulation for Terahertz Covert Communications. , 2019, , .		11
47	Channel Estimation for Intelligent Reflecting Surface Enabled Terahertz MIMO Systems: A Deep Learning Perspective. , 2020, , .		11
48	Calculating Terahertz Channel Capacity Under Beam Misalignment and User Mobility. IEEE Wireless Communications Letters, 2022, 11, 348-351.	3.2	11
49	Dynamic Wireless QoS Analysis for Real-Time Control in URLLC. , 2018, , .		9
50	Confidential Broadcasting and Service Integration in Millimeter Wave Systems. IEEE Systems Journal, 2019, 13, 147-158.	2.9	9
51	Broad Learning Based Hybrid Beamforming for Mm-Wave MIMO in Time-Varying Environments. IEEE Communications Letters, 2020, 24, 358-361.	2.5	8
52	An Analytical Range-Angle Dependent Beam Focusing Model for Terahertz Linear Antenna Array. IEEE Wireless Communications Letters, 2022, 11, 1870-1874.	3.2	6
53	Energy Efficiency Region for Gaussian MISO Channels With Integrated Services. IEEE Wireless Communications Letters, 2017, 6, 90-93.	3.2	5
54	Secrecy rate optimization for intelligent reflecting surface aided multiâ€input-singleâ€output terahertz communication. Microwave and Optical Technology Letters, 2020, 62, 2760-2765.	0.9	5

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55	Effective age of information in real-time wireless feedback control systems. Science China Information Sciences, 2021, 64, 1.	2.7	5
56	Joint Power Allocation and Passive Beamforming Design for IRS-Assisted Physical-Layer Service Integration. IEEE Transactions on Wireless Communications, 2021, 20, 7286-7301.	6.1	5
57	Compressive Channel Estimation and User Activity Detection in Distributed-Input Distributed-Output Systems. IEEE Communications Letters, 2018, 22, 1850-1853.	2.5	4
58	Optimal Pricing for Job Offloading in the MEC System With Two Priority Classes. IEEE Transactions on Vehicular Technology, 2021, 70, 8080-8091.	3.9	4
59	Mobility and Blockage-induced Beam Misalignment and Throughput Analysis for THz Networks. , 2021, , .		4
60	Generalized Bussgang LMMSE Channel Estimator for One-Bit Massive MIMO Systems. , 2019, , .		3
61	Establishing UAV-Aided VBSs for Secure Multicasting. IEEE Wireless Communications Letters, 2020, , 1-1.	3.2	3
62	Throughput Maximization for Decode-and-Forward Relay Channels With Non-Ideal Circuit Power. IEEE Transactions on Wireless Communications, 2017, 16, 6091-6104.	6.1	2
63	Artificial noise-aided biobjective transmitter optimization for service integration in multi-user MIMO broadcast channel. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	1.5	2
64	Artificial Noise Aided Hybrid Precoding Design for Secure mmWave MIMO System. , 2019, , .		2
65	Low-Complexity Analog Beamforming for mmWave Large-Scale MISOME Wiretap Channel. IEEE Communications Letters, 2020, 24, 268-271.	2.5	2
66	3D Beam Training in Terahertz Communication: A Quadruple-UPA Architecture. , 2021, , .		2
67	Joint Sensing, Control, and Communication Scheduling for THz Beam Alignment in Cellular Connected UAV Networks (Invited Paper). , 2021, , .		2
68	Throughput Maximization for Buffer-Aided Decode-and-Forward Relay Channels With Non-Ideal Circuit Power. IEEE Access, 2017, 5, 8222-8235.	2.6	1
69	Artificial-Noise-Aided Transmit Optimization for Service Integration in MIMO-OFDM Systems. , 2018, , .		0
70	State-to-Noise-Ratio-Based Transmission Scheduling in Wireless Control Systems for IIoT. IEEE Internet of Things Journal, 2022, 9, 4949-4957.	5.5	0