Hong Ren

List of Publications by Year
in descending order

50 papers	4,133 citations	159358 30 h-index	288905 40 g-index
50 all docs	50 docs citations	50 times ranked	1882 citing authors

#	Article	IF	Citations
1	Robust Beamforming Design for Intelligent Reflecting Surface Aided Cognitive Radio Systems With Imperfect Cascaded CSI. IEEE Transactions on Cognitive Communications and Networking, 2022, 8, 186-201.	4.9	36
2	Statistical CSI-Based Transmission Design for Reconfigurable Intelligent Surface-Aided Massive MIMO Systems With Hardware Impairments. IEEE Wireless Communications Letters, 2022, 11, 38-42.	3.2	23
3	RIS-Aided D2D Communications Relying on Statistical CSI With Imperfect Hardware. IEEE Communications Letters, 2022, 26, 473-477.	2.5	16
4	Ergodic Rate Analysis of Reconfigurable Intelligent Surface-Aided Massive MIMO Systems With ZF Detectors. IEEE Communications Letters, 2022, 26, 264-268.	2.5	17
5	Robust Transmission Design for RIS-Aided Communications With Both Transceiver Hardware Impairments and Imperfect CSI. IEEE Wireless Communications Letters, 2022, 11, 528-532.	3.2	17
6	Long-Term CSI-Based Design for RIS-Aided Multiuser MISO Systems Exploiting Deep Reinforcement Learning. IEEE Communications Letters, 2022, 26, 567-571.	2.5	12
7	Intelligent Reflecting Surface-Aided URLLC in a Factory Automation Scenario. IEEE Transactions on Communications, 2022, 70, 707-723.	4.9	61
8	Fairness-Oriented Multiple RIS-Aided mmWave Transmission: Stochastic Optimization Methods. IEEE Transactions on Signal Processing, 2022, 70, 1402-1417.	3.2	5
9	Active RIS Versus Passive RIS: Which is Superior With the Same Power Budget?. IEEE Communications Letters, 2022, 26, 1150-1154.	2.5	86
10	Channel Estimation for RIS-Aided Multiuser Millimeter-Wave Systems. IEEE Transactions on Signal Processing, 2022, 70, 1478-1492.	3.2	72
11	Deep Reinforcement Learning-Based Resource Management for Flexible Mobile Edge Computing: Architectures, Applications, and Research Issues. IEEE Vehicular Technology Magazine, 2022, 17, 85-93.	2.8	3
12	Power Scaling Law Analysis and Phase Shift Optimization of RIS-Aided Massive MIMO Systems With Statistical CSI. IEEE Transactions on Communications, 2022, 70, 3558-3574.	4.9	52
13	User cooperation for IRS-aided secure MIMO systems. Intelligent and Converged Networks, 2022, 3, 86-102.	3.2	5
14	Packet Error Probability and Effective Throughput for Ultra-Reliable and Low-Latency UAV Communications. IEEE Transactions on Communications, 2021, 69, 73-84.	4.9	48
15	Stochastic Learning-Based Robust Beamforming Design for RIS-Aided Millimeter-Wave Systems in the Presence of Random Blockages. IEEE Transactions on Vehicular Technology, 2021, 70, 1057-1061.	3.9	45
16	Uplink Achievable Rate of Intelligent Reflecting Surface-Aided Millimeter-Wave Communications With Low-Resolution ADC and Phase Noise. IEEE Wireless Communications Letters, 2021, 10, 654-658.	3.2	44
17	Robust Transmission Design for Intelligent Reflecting Surface-Aided Secure Communication Systems With Imperfect Cascaded CSI. IEEE Transactions on Wireless Communications, 2021, 20, 2487-2501.	6.1	120
18	Analysis and Optimization for RIS-Aided Multi-Pair Communications Relying on Statistical CSI. IEEE Transactions on Vehicular Technology, 2021, 70, 3897-3901.	3.9	58

#	Article	IF	Citations
19	Statistical CSI-Based Design for Reconfigurable Intelligent Surface-Aided Massive MIMO Systems With Direct Links. IEEE Wireless Communications Letters, 2021, 10, 1128-1132.	3.2	70
20	RIS-Aided mmWave Transmission: A Stochastic Majorization-Minimization Approach. , 2021, , .		2
21	Reconfigurable Intelligent Surfaces for 6G Systems: Principles, Applications, and Research Directions. IEEE Communications Magazine, 2021, 59, 14-20.	4.9	354
22	Secure Wireless Communication in RIS-Aided MISO System With Hardware Impairments. IEEE Wireless Communications Letters, 2021, 10, 1309-1313.	3.2	61
23	User Cooperation for RIS-aided Secure SWIPT MIMO Systems under the passive eavesdropping. , 2021, , .		6
24	Average Data Rate and Decoding Error Probability Analysis for IRS-aided URLLC in a Factory Automation Scenario. , 2021, , .		3
25	Analysis and Optimization of RIS-aided Massive MIMO Systems with Statistical CSI. , 2021, , .		6
26	Resource Allocation for Intelligent Reflecting Surface Aided Wireless Powered Mobile Edge Computing in OFDM Systems. IEEE Transactions on Wireless Communications, 2021, 20, 5389-5407.	6.1	103
27	Reconfigurable Intelligent Surface Aided Massive MIMO Systems With Low-Resolution DACs. IEEE Communications Letters, 2021, 25, 3124-3128.	2.5	12
28	Reconfigurable Intelligent Surface-Aided MISO Systems with Statistical CSI: Channel Estimation, Analysis and Optimization : (Invited Paper). , 2021, , .		11
29	Channel Estimation for RIS-Aided Millimeter-Wave Massive MIMO Systems : (Invited Paper). , 2021, , .		2
30	Joint Power and Blocklength Optimization for URLLC in a Factory Automation Scenario. IEEE Transactions on Wireless Communications, 2020, 19, 1786-1801.	6.1	115
31	A Framework of Robust Transmission Design for IRS-Aided MISO Communications With Imperfect Cascaded Channels. IEEE Transactions on Signal Processing, 2020, 68, 5092-5106.	3.2	269
32	Artificial-Noise-Aided Secure MIMO Wireless Communications via Intelligent Reflecting Surface. IEEE Transactions on Communications, 2020, 68, 7851-7866.	4.9	202
33	Intelligent Reflecting Surface Aided Multigroup Multicast MISO Communication Systems. IEEE Transactions on Signal Processing, 2020, 68, 3236-3251.	3.2	198
34	Multicell MIMO Communications Relying on Intelligent Reflecting Surfaces. IEEE Transactions on Wireless Communications, 2020, 19, 5218-5233.	6.1	589
35	Joint Transmit Power and Placement Optimization for URLLC-Enabled UAV Relay Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 8003-8007.	3.9	61
36	Resource Allocation for Secure URLLC in Mission-Critical IoT Scenarios. IEEE Transactions on Communications, 2020, 68, 5793-5807.	4.9	81

#	Article	IF	Citations
37	Robust Beamforming Design for Intelligent Reflecting Surface Aided MISO Communication Systems. IEEE Wireless Communications Letters, 2020, 9, 1658-1662.	3.2	185
38	Intelligent Reflecting Surface Aided MIMO Broadcasting for Simultaneous Wireless Information and Power Transfer. IEEE Journal on Selected Areas in Communications, 2020, 38, 1719-1734.	9.7	507
39	Joint Pilot and Payload Power Allocation for Massive-MIMO-Enabled URLLC IIoT Networks. IEEE Journal on Selected Areas in Communications, 2020, 38, 816-830.	9.7	88
40	Robust Beamforming Optimization for Intelligent Reflecting Surface Aided Cognitive Radio Networks. , 2020, , .		10
41	Transmit Power Minimization for Secure Short-packet Transmission in a Mission-Critical IoT Scenario. , 2020, , .		1
42	Robust Transmission Design for Intelligent Reflecting Surface Aided Secure Communications. , 2020, , .		4
43	Resource Allocation for URLLC in 5G Mission-Critical IoT Networks. , 2019, , .		19
44	Achievable Data Rate for URLLC-Enabled UAV Systems With 3-D Channel Model. IEEE Wireless Communications Letters, 2019, 8, 1587-1590.	3.2	82
45	Robust Beamforming Design for Ultra-Dense User-Centric C-RAN in the Face of Realistic Pilot Contamination and Limited Feedback. IEEE Transactions on Wireless Communications, 2019, 18, 780-795.	6.1	33
46	Joint Blocklength and Location Optimization for URLLC-Enabled UAV Relay Systems. IEEE Communications Letters, 2019, 23, 498-501.	2.5	149
47	The Non-Coherent Ultra-Dense C-RAN Is Capable of Outperforming Its Coherent Counterpart at a Limited Fronthaul Capacity. IEEE Journal on Selected Areas in Communications, 2018, 36, 2549-2560.	9.7	23
48	Pricing-Based Distributed Energy-Efficient Beamforming for MISO Interference Channels. IEEE Journal on Selected Areas in Communications, 2016, 34, 710-722.	9.7	40
49	Large-Scale Antenna Systems With UL/DL Hardware Mismatch: Achievable Rates Analysis and Calibration. IEEE Transactions on Communications, 2015, 63, 1216-1229.	4.9	96
50	Weighted Sum Energy Efficiency Maximization in Ad Hoc Networks. IEEE Wireless Communications Letters, 2015, 4, 233-236.	3.2	31