Qian Liu

List of Publications by Year
in descending order

72 papers	1,384 citations	430874 18 h-index	377865 34 g-index
72 all docs	72 docs citations	72 times ranked	992 citing authors

#	Article	IF	Citations
1	Hybrid Precoder and Combiner Design With Low-Resolution Phase Shifters in mmWave MIMO Systems. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 256-269.	10.8	135
2	The IEEE 1918.1 â€œTactile Internetâ€•Standards Working Group and its Standards. Proceedings of the IEEE, 2019, 107, 256-279.	21.3	119
3	Haptic Codecs for the Tactile Internet. Proceedings of the IEEE, 2019, 107, 447-470.	21.3	102
4	Intelligent Reflecting Surface Enhanced Wideband MIMO-OFDM Communications: From Practical Model to Reflection Optimization. IEEE Transactions on Communications, 2021, 69, 4807-4820.	7.8	73
5	Joint Transmit Waveform and Passive Beamforming Design for RIS-Aided DFRC Systems. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 995-1010.	10.8	68
6	Practical Modeling and Beamforming for Intelligent Reflecting Surface Aided Wideband Systems. IEEE Communications Letters, 2020, 24, 1568-1571.	4.1	65
7	Hybrid Beamforming With Dynamic Subarrays and Low-Resolution PSs for mmWave MU-MISO Systems. IEEE Transactions on Communications, 2020, 68, 602-614.	7.8	53
8	Dynamic Hybrid Beamforming With Low-Resolution PSs for Wideband mmWave MIMO-OFDM Systems. IEEE Journal on Selected Areas in Communications, 2020, 38, 2168-2181.	14.0	50
9	Joint Symbol-Level Precoding and Reflecting Designs for IRS-Enhanced MU-MISO Systems. IEEE Transactions on Wireless Communications, 2021, 20, 798-811.	9.2	49
10	Dual-Functional Radar-Communication Waveform Design: A Symbol-Level Precoding Approach. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 1316-1331.	10.8	45
11	Iterative Hybrid Precoder and Combiner Design for mmWave Multiuser MIMO Systems. IEEE Communications Letters, 2017, 21, 1581-1584.	4.1	42
12	A Hardware-Efficient Hybrid Beamforming Solution for mmWave MIMO Systems. IEEE Wireless Communications, 2019, 26, 137-143.	9.0	42
13	Joint Waveform and Filter Designs for STAP-SLP-Based MIMO-DFRC Systems. IEEE Journal on Selected Areas in Communications, 2022, 40, 1918-1931.	14.0	28
14	Transmit Antenna Selection and Analog Beamforming With Low-Resolution Phase Shifters in mmWave MISO Systems. IEEE Communications Letters, 2018, 22, 1878-1881.	4.1	25
15	Energy Efficient Analog Beamformer Design for mmWave Multicast Transmission. IEEE Transactions on Green Communications and Networking, 2019, 3, 552-564.	5.5	25
16	IRS-Enhanced Wideband MU-MISO-OFDM Communication Systems. , 2020, , .		25
17	Joint hybrid precoder and combiner design for multiâ€stream transmission in mmWave MIMO systems. IET Communications, 2017, 11, 2596-2604.	2.2	23
18	Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. IEEE Systems Journal, 2020, 14, 548-559.	4.6	21

#	Article	IF	Citations
19	Symbol-Level Precoding Design for Intelligent Reflecting Surface Assisted Multi-User MIMO Systems. , 2019, , .		20
20	Joint CRF and Locality-Consistent Dictionary Learning for Semantic Segmentation. IEEE Transactions on Multimedia, 2019, 21, 875-886.	7.2	20
21	A Low-Cost Acquisition, Display, and Evaluation Setup for Tactile Codec Development. , 2018, , .		19
22	Hybrid Precoder and Combiner Design for Secure Transmission in mmWave MIMO Systems. , 2017, , .		17
23	Channel Estimation for Practical IRS-Assisted OFDM Systems. , 2021, , .		17
24	IRS-Assisted Multicell Multiband Systems: Practical Reflection Model and Joint Beamforming Design. IEEE Transactions on Communications, 2022, 70, 3897-3911.	7.8	17
25	Random-Training-Assisted Pilot Spoofing Detection and Security Enhancement. IEEE Access, 2017, 5, 27384-27399.	4.2	16
26	Intelligent Reflecting Surface Based Passive Information Transmission: A Symbol-Level Precoding Approach. IEEE Transactions on Vehicular Technology, 2021, 70, 6735-6749.	6.3	15
27	A candidate hardware and software reference setup for kinesthetic codec standardization. , 2017, , .		14
28	Secure Beamformer Designs in MU-MIMO Systems With Multiuser Interference Exploitation. IEEE Transactions on Vehicular Technology, 2018, 67, 8288-8301.	6.3	14
29	Exploring QoE for Power Efficiency. , 2015, , .		14
30	Iterative hybrid precoder and combiner design for mmWave MIMO-OFDM systems. Wireless Networks, 2019, 25, 4829-4837.	3.0	13
31	Joint Antenna Selection and Analog Precoder Design With Low-Resolution Phase Shifters. IEEE Transactions on Vehicular Technology, 2019, 68, 967-971.	6.3	13
32	Passive Information Transmission in Intelligent Reflecting Surface Aided MISO Systems. IEEE Communications Letters, 2020, 24, 2951-2955.	4.1	13
33	Deep Learning Based Efficient Symbol-Level Precoding Design for MU-MISO Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 8309-8313.	6.3	12
34	Secure Symbol-Level Precoding in MU-MISO Wiretap Systems. IEEE Transactions on Information Forensics and Security, 2020, 15, 3359-3373.	6.9	11
35	Hybrid Beamforming and Passive Reflection Design for RIS-Assisted mmWave MIMO Systems. , 2021, , .		10
36	Integrating Haptic Data Reduction with Energy Reflection-Based Passivity Control for Time-delayed Teleoperation. , 2020, , .		10

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37	Broadcast tree construction framework in tactile internet via dynamic algorithm. Journal of Systems and Software, 2018, 136, 59-73.	4.5	9
38	CrowdDBS: A Crowdsourced Brightness Scaling Optimization for Display Energy Reduction in Mobile Video. IEEE Transactions on Mobile Computing, 2018, 17, 2536-2549.	5.8	9
39	Hybrid Beamforming with One-Bit Quantized Phase Shifters in mmWave MIMO Systems. , 2018, , .		9
40	Perception-Lossless Codec of Haptic Data with Low Delay. , 2020, , .		9
41	Symbol-Level Precoding Design for IRS-assisted MU-MISO Systems. , 2020, , .		7
42	Intelligent Reflecting Surface Assisted Multi-cell Multi-band Wireless Networks. , 2021, , .		7
43	Hybrid Beamforming Design for C-RAN Based mmWave Cell-Free Systems. , 2020, , .		7
44	Detection of Generalized Space Shift Keying Signal With Sparse Reconstruction. IEEE Transactions on Vehicular Technology, 2017, 66, 5471-5475.	6.3	6
45	Bacterial Foraging Algorithm Based on Activity of Bacteria for DNA Computing Sequence Design. IEEE Access, 2021, 9, 2110-2124.	4.2	6
46	Cloud-based video streaming with systematic mobile display energy saving: Rate-distortion-display energy profiling. , 2016, , .		5
47	A Novel Energy Compensation Scheme for Quality Enhancement in Time-Delayed Teleoperation With Multi-DoF Haptic Data Reduction and Communication. IEEE Transactions on Haptics, 2021, 14, 936-944.	2.7	5
48	QoS-Based Binary Signature Design for Secure CDMA Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 10011-10023.	6.3	4
49	Visual Attention and Haptic Control: A Cross-Study. , 2019, , .		3
50	FP-based Hybrid Precoding with Dynamic Subarrays and Low-resolution PSs. , 2019, , .		3
51	Unsupervised Clustering for Nonlinear Equalization in Indoor Millimeter-Wave Communications. IEEE Access, 2019, 7, 714-727.	4.2	3
52	Integrating Mobile Display Energy Saving into Cloud-Based Video Streaming via Rate-Distortion-Display Energy Profiling. IEEE Transactions on Cloud Computing, 2020, 8, 1250-1263.	4.4	3
53	AN-aided Secure Beamforming Design for Dual-Functional Radar-Communication Systems. , 2021, , .		3
54	Adaptive kernel selection network with attention constraint for surgical instrument classification. Neural Computing and Applications, 2022, 34, 1577-1591.	5.6	3

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55	Deep Learning Based Low-Resolution Hybrid Precoding Design for mmWave MISO Systems. , 2020, , .		3
56	QoE-driven Delay-adaptive Control Scheme Switching for Time-delayed Bilateral Teleoperation with Haptic Data Reduction. , 2021, , .		3
57	Low-Complexity Designs of Symbol-Level Precoding for MU-MISO Systems. IEEE Transactions on Communications, 2022, 70, 4624-4639.	7.8	3
58	User Association and Hybrid Beamforming Designs for Cooperative mmWave MIMO Systems. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 641-654.	2.8	3
59	Hybrid Beamformer Design with Low-Resolution Phase Shifters in MU-MISO SWIPT Systems. , 2018, , .		2
60	Workload-aware harmonic partitioned scheduling for probabilistic real-time systems. , 2018, , .		2
61	Secure Symbol-Level Precoding Design for QAM Signals in MU-MISO Wiretap Systems. , 2020, , .		2
62	Joint Design of Hybrid and Reflection Beamforming for RIS-Aided mmWave MIMO Communications. , 2021, , .		2
63	Hybrid Analog-Digital Beamforming in Cooperative mmWave MIMO Systems. , 2021, , .		2
64	Joint Transmit Beamforming Design for Secure Communication and Radar Coexistence Systems. , 2022, , .		2
65	Seamless Vertical Handoff Protocol for LTE-802.11p Hybrid Vehicular Communications Over the Tactile Internet. , 2018, , .		1
66	Efficient Hybrid Beamforming for Multi-Group Multicasting in mmWave Systems. , 2019, , .		1
67	Symbol-Level Precoding Design for Dual-Functional Radar-Communication Systems. , 2021, , .		1
68	High Efficiency Vibrotactile Codec Based on Gate Recurrent Network. IEEE Transactions on Multimedia, 2023, 25, 5043-5052.	7.2	1
69	Physical layer secure binary signature design for wiretap CDMA systems. , 2017, , .		0
70	Proactive interference cancellation for mobile-to-mobile communication underlaying LTE networks. , 2018, , .		0
71	MMSE-based-filter and artificial noise design for MIMOâ€"OFDM systems. Wireless Networks, 2019, 25, 521-531.	3.0	0
72	Precoder Design for Dynamically Sub-connected Hybrid Architecture in MU-MISO-OFDM Systems. , 2020, , .		0