

Qian Liu

List of Publications by Year in descending order

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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	High Efficiency Vibrotactile Codec Based on Gate Recurrent Network. IEEE Transactions on Multimedia, 2023, 25, 5043-5052.	7.2	1
2	Adaptive kernel selection network with attention constraint for surgical instrument classification. Neural Computing and Applications, 2022, 34, 1577-1591.	5.6	3
3	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
4	IRS-Assisted Multicell Multiband Systems: Practical Reflection Model and Joint Beamforming Design. IEEE Transactions on Communications, 2022, 70, 3897-3911.	7.8	17
5	Low-Complexity Designs of Symbol-Level Precoding for MU-MISO Systems. IEEE Transactions on Communications, 2022, 70, 4624-4639.	7.8	3
6	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
7	Joint Transmit Beamforming Design for Secure Communication and Radar Coexistence Systems. , 2022, , .		2
8	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
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	Bacterial Foraging Algorithm Based on Activity of Bacteria for DNA Computing Sequence Design. IEEE Access, 2021, 9, 2110-2124.	4.2	6
11	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
12	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
13	Intelligent Reflecting Surface Assisted Multi-cell Multi-band Wireless Networks. , 2021, , .		7
14	Channel Estimation for Practical IRS-Assisted OFDM Systems. , 2021, , .		17
15	Hybrid Beamforming and Passive Reflection Design for RIS-Assisted mmWave MIMO Systems. , 2021, , .		10
16	Symbol-Level Precoding Design for Dual-Functional Radar-Communication Systems. , 2021, , .		1
17	Intelligent Reflecting Surface Based Passive Information Transmission: A Symbol-Level Precoding Approach. IEEE Transactions on Vehicular Technology, 2021, 70, 6735-6749.	6.3	15
18	AN-aided Secure Beamforming Design for Dual-Functional Radar-Communication Systems. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
19	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
20	Deep Learning Based Efficient Symbol-Level Precoding Design for MU-MISO Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 8309-8313.	6.3	12
21	QoE-driven Delay-adaptive Control Scheme Switching for Time-delayed Bilateral Teleoperation with Haptic Data Reduction. , 2021, , .		3
22	Joint Design of Hybrid and Reflection Beamforming for RIS-Aided mmWave MIMO Communications. , 2021, , .		2
23	Hybrid Analog-Digital Beamforming in Cooperative mmWave MIMO Systems. , 2021, , .		2
24	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
25	Secure Hybrid Beamformers Design in mmWave MIMO Wiretap Systems. IEEE Systems Journal, 2020, 14, 548-559.	4.6	21
26	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
27	Passive Information Transmission in Intelligent Reflecting Surface Aided MISO Systems. IEEE Communications Letters, 2020, 24, 2951-2955.	4.1	13
28	Secure Symbol-Level Precoding Design for QAM Signals in MU-MISO Wiretap Systems. , 2020, , .		2
29	IRS-Enhanced Wideband MU-MISO-OFDM Communication Systems. , 2020, , .		25
30	Secure Symbol-Level Precoding in MU-MISO Wiretap Systems. IEEE Transactions on Information Forensics and Security, 2020, 15, 3359-3373.	6.9	11
31	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
32	Symbol-Level Precoding Design for IRS-assisted MU-MISO Systems. , 2020, , .		7
33	Practical Modeling and Beamforming for Intelligent Reflecting Surface Aided Wideband Systems. IEEE Communications Letters, 2020, 24, 1568-1571.	4.1	65
34	Integrating Haptic Data Reduction with Energy Reflection-Based Passivity Control for Time-delayed Teleoperation. , 2020, , .		10
35	Deep Learning Based Low-Resolution Hybrid Precoding Design for mmWave MISO Systems. , 2020, , .		3
36	Perception-Lossless Codec of Haptic Data with Low Delay. , 2020, , .		9

#	ARTICLE	IF	CITATIONS
37	Precoder Design for Dynamically Sub-connected Hybrid Architecture in MU-MISO-OFDM Systems. , 2020, , .		0
38	Hybrid Beamforming Design for C-RAN Based mmWave Cell-Free Systems. , 2020, , .		7
39	Iterative hybrid precoder and combiner design for mmWave MIMO-OFDM systems. Wireless Networks, 2019, 25, 4829-4837.	3.0	13
40	Energy Efficient Analog Beamformer Design for mmWave Multicast Transmission. IEEE Transactions on Green Communications and Networking, 2019, 3, 552-564.	5.5	25
41	Visual Attention and Haptic Control: A Cross-Study. , 2019, , .		3
42	FP-based Hybrid Precoding with Dynamic Subarrays and Low-resolution PSs. , 2019, , .		3
43	Symbol-Level Precoding Design for Intelligent Reflecting Surface Assisted Multi-User MIMO Systems. , 2019, , .		20
44	Efficient Hybrid Beamforming for Multi-Group Multicasting in mmWave Systems. , 2019, , .		1
45	Joint CRF and Locality-Consistent Dictionary Learning for Semantic Segmentation. IEEE Transactions on Multimedia, 2019, 21, 875-886.	7.2	20
46	Unsupervised Clustering for Nonlinear Equalization in Indoor Millimeter-Wave Communications. IEEE Access, 2019, 7, 714-727.	4.2	3
47	The IEEE 1918.1 "Tactile Internet" Standards Working Group and its Standards. Proceedings of the IEEE, 2019, 107, 256-279.	21.3	119
48	A Hardware-Efficient Hybrid Beamforming Solution for mmWave MIMO Systems. IEEE Wireless Communications, 2019, 26, 137-143.	9.0	42
49	Joint Antenna Selection and Analog Precoder Design With Low-Resolution Phase Shifters. IEEE Transactions on Vehicular Technology, 2019, 68, 967-971.	6.3	13
50	Haptic Codecs for the Tactile Internet. Proceedings of the IEEE, 2019, 107, 447-470.	21.3	102
51	MMSE-based-filter and artificial noise design for MIMO-OFDM systems. Wireless Networks, 2019, 25, 521-531.	3.0	0
52	Broadcast tree construction framework in tactile internet via dynamic algorithm. Journal of Systems and Software, 2018, 136, 59-73.	4.5	9
53	Hybrid Beamformer Design with Low-Resolution Phase Shifters in MU-MISO SWIPT Systems. , 2018, , .		2
54	A Low-Cost Acquisition, Display, and Evaluation Setup for Tactile Codec Development. , 2018, , .		19

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55	Seamless Vertical Handoff Protocol for LTE-802.11p Hybrid Vehicular Communications Over the Tactile Internet. , 2018, , .		1
56	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
57	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
58	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
59	Hybrid Beamforming with One-Bit Quantized Phase Shifters in mmWave MIMO Systems. , 2018, , .		9
60	Workload-aware harmonic partitioned scheduling for probabilistic real-time systems. , 2018, , .		2
61	Secure Beamformer Designs in MU-MIMO Systems With Multiuser Interference Exploitation. IEEE Transactions on Vehicular Technology, 2018, 67, 8288-8301.	6.3	14
62	Proactive interference cancellation for mobile-to-mobile communication underlaying LTE networks. , 2018, , .		0
63	Iterative Hybrid Precoder and Combiner Design for mmWave Multiuser MIMO Systems. IEEE Communications Letters, 2017, 21, 1581-1584.	4.1	42
64	Random-Training-Assisted Pilot Spoofing Detection and Security Enhancement. IEEE Access, 2017, 5, 27384-27399.	4.2	16
65	QoS-Based Binary Signature Design for Secure CDMA Systems. IEEE Transactions on Vehicular Technology, 2017, 66, 10011-10023.	6.3	4
66	Detection of Generalized Space Shift Keying Signal With Sparse Reconstruction. IEEE Transactions on Vehicular Technology, 2017, 66, 5471-5475.	6.3	6
67	Joint hybrid precoder and combiner design for multi-stream transmission in mmWave MIMO systems. IET Communications, 2017, 11, 2596-2604.	2.2	23
68	A candidate hardware and software reference setup for kinesthetic codec standardization. , 2017, , .		14
69	Hybrid Precoder and Combiner Design for Secure Transmission in mmWave MIMO Systems. , 2017, , .		17
70	Physical layer secure binary signature design for wiretap CDMA systems. , 2017, , .		0
71	Cloud-based video streaming with systematic mobile display energy saving: Rate-distortion-display energy profiling. , 2016, , .		5
72	Exploring QoE for Power Efficiency. , 2015, , .		14