

Liang Liu

List of Publications by Year in descending order

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papers

5,576
citations

331538

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501076

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docs citations

46
times ranked

3730
citing authors

#	ARTICLE	IF	CITATIONS
1	Covariance-Based Joint Device Activity and Delay Detection in Asynchronous mMTC. IEEE Signal Processing Letters, 2022, 29, 538-542.	2.1	13
2	Device-Free Sensing in OFDM Cellular Network. IEEE Journal on Selected Areas in Communications, 2022, 40, 1838-1853.	9.7	19
3	NOMA-Based Energy-Efficiency Optimization for UAV Enabled Space-Air-Ground Integrated Relay Networks. IEEE Transactions on Vehicular Technology, 2022, 71, 4129-4141.	3.9	22
4	Efficiently and Globally Solving Joint Beamforming and Compression Problem in the Cooperative Cellular Network Via Lagrangian Duality. , 2022, , .		1
5	Uplink-Downlink Duality Between Multiple-Access and Broadcast Channels With Compressing Relays. IEEE Transactions on Information Theory, 2021, 67, 7304-7337.	1.5	5
6	Towards Reliable UAV Swarm Communication in D2D-Enhanced Cellular Networks. IEEE Transactions on Wireless Communications, 2021, 20, 1567-1581.	6.1	19
7	An Efficient Algorithm For Device Detection And Channel Estimation In Asynchronous IOT Systems. , 2021, , .		12
8	On Massive IoT Connectivity with Temporally-Correlated User Activity. , 2021, , .		4
9	Detection of Abrupt Change in Channel Covariance Matrix for Multi-Antenna Communication. , 2021, , .		3
10	A Covariance-based User Activity Detection and Channel Estimation Approach with Novel Pilot Design. , 2020, , .		6
11	Channel Estimation for Intelligent Reflecting Surface Assisted Multiuser Communications: Framework, Algorithms, and Analysis. IEEE Transactions on Wireless Communications, 2020, 19, 6607-6620.	6.1	462
12	Channel Estimation for Intelligent Reflecting Surface Assisted Multiuser Communications. , 2020, , .		46
13	A Two-Stage Radar Sensing Approach based on MIMO-OFDM Technology. , 2020, , .		10
14	Multi-Beam UAV Communication in Cellular Uplink: Cooperative Interference Cancellation and Sum-Rate Maximization. IEEE Transactions on Wireless Communications, 2019, 18, 4679-4691.	6.1	92
15	CoMP in the Sky: UAV Placement and Movement Optimization for Multi-User Communications. IEEE Transactions on Communications, 2019, 67, 5645-5658.	4.9	133
16	Joint Task Assignment and Resource Allocation for D2D-Enabled Mobile-Edge Computing. IEEE Transactions on Communications, 2019, 67, 4193-4207.	4.9	152
17	Fundamental Trade-offs in Communication and Trajectory Design for UAV-Enabled Wireless Network. IEEE Wireless Communications, 2019, 26, 36-44.	6.6	160
18	Massive Connectivity With Massive MIMO—Part II: Achievable Rate Characterization. IEEE Transactions on Signal Processing, 2018, 66, 2947-2959.	3.2	115

#	ARTICLE	IF	CITATIONS
19	Massive Connectivity With Massive MIMO—Part I: Device Activity Detection and Channel Estimation. IEEE Transactions on Signal Processing, 2018, 66, 2933-2946.	3.2	434
20	Transmit beamforming for simultaneous wireless information and power transfer. , 2018, , 479-506.		6
21	Cooperative Interference Cancellation for Multi-Beam UAV Uplink Communication: A DoF Analysis. , 2018, , .		8
22	Sparse Signal Processing for Grant-Free Massive Connectivity: A Future Paradigm for Random Access Protocols in the Internet of Things. IEEE Signal Processing Magazine, 2018, 35, 88-99.	4.6	314
23	A D2D-Based Protocol for Ultra-Reliable Wireless Communications for Industrial Automation. IEEE Transactions on Wireless Communications, 2018, 17, 5045-5058.	6.1	69
24	Channel Diagonalization for Cloud Radio Access. IEEE Wireless Communications Letters, 2018, 7, 622-625.	3.2	1
25	Cross-Layer Design for Downlink Multihop Cloud Radio Access Networks With Network Coding. IEEE Transactions on Signal Processing, 2017, 65, 1728-1740.	3.2	39
26	Fronthaul-Aware Design for Cloud Radio Access Networks. , 2017, , 48-75.		1
27	Massive device connectivity with massive MIMO. , 2017, , .		19
28	Joint Sparse Beamforming and Network Coding for Downlink Multi-Hop Cloud Radio Access Networks. , 2016, , .		4
29	How to Diagonalize a MIMO Channel With Arbitrary Transmit Covariance?. IEEE Wireless Communications Letters, 2016, 5, 352-355.	3.2	1
30	An uplink-downlink duality for cloud radio access network. , 2016, , .		17
31	Downlink SINR balancing in C-RAN under limited fronthaul capacity. , 2016, , .		19
32	Secrecy Wireless Information and Power Transfer in Fading Wiretap Channel. IEEE Transactions on Vehicular Technology, 2016, 65, 180-190.	3.9	141
33	Joint Power Control and Fronthaul Rate Allocation for Throughput Maximization in OFDMA-Based Cloud Radio Access Network. IEEE Transactions on Communications, 2015, 63, 4097-4110.	4.9	78
34	Optimized Uplink Transmission in Multi-Antenna C-RAN With Spatial Compression and Forward. IEEE Transactions on Signal Processing, 2015, 63, 5083-5095.	3.2	59
35	Collaborative Wireless Energy and Information Transfer in Interference Channel. IEEE Transactions on Wireless Communications, 2015, 14, 545-557.	6.1	92
36	Secrecy wireless information and power transfer in fading wiretap channel. , 2014, , .		28

#	ARTICLE	IF	CITATIONS
37	Multi-Antenna Wireless Powered Communication With Energy Beamforming. IEEE Transactions on Communications, 2014, 62, 4349-4361.	4.9	394
38	Multiuser MISO Beamforming for Simultaneous Wireless Information and Power Transfer. IEEE Transactions on Signal Processing, 2014, 62, 4798-4810.	3.2	430
39	Secrecy Wireless Information and Power Transfer With MISO Beamforming. IEEE Transactions on Signal Processing, 2014, 62, 1850-1863.	3.2	491
40	Joint Transmit Beamforming and Receive Power Splitting for MISO SWIPT Systems. IEEE Transactions on Wireless Communications, 2014, 13, 3269-3280.	6.1	448
41	Wireless Information Transfer with Opportunistic Energy Harvesting. IEEE Transactions on Wireless Communications, 2013, 12, 288-300.	6.1	578
42	Wireless Information and Power Transfer: A Dynamic Power Splitting Approach. IEEE Transactions on Communications, 2013, 61, 3990-4001.	4.9	491
43	Secrecy wireless information and power transfer with MISO beamforming. , 2013, , .		9
44	Multiuser MISO beamforming for simultaneous wireless information and power transfer. , 2013, , .		47
45	Achieving Global Optimality for Weighted Sum-Rate Maximization in the K-User Gaussian Interference Channel with Multiple Antennas. IEEE Transactions on Wireless Communications, 2012, 11, 1933-1945.	6.1	84