

# Hua Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64  
papers

612  
citations

14  
h-index

22  
g-index

100  
ext. papers

837  
ext. citations

3.9  
avg, IF

4.46  
L-index

#	Paper	IF	Citations
64	Group-based CSS Modulation: A Novel Enhancement to LoRa Physical Layer. <i>IEEE Wireless Communications Letters</i> , <b>2022</b> , 1-1	5.9	1
63	Time Domain Multiplexed LoRa Modulation Waveform Design for IoT Communication. <i>IEEE Communications Letters</i> , <b>2022</b> , 1-1	3.8	0
62	Low-Complexity Iterative Detection for Dual-Mode Index Modulation in Dispersive Nonlinear Satellite Channels. <i>IEEE Transactions on Communications</i> , <b>2021</b> , 1-1	6.9	
61	BD-UCD-Based Nonlinear Hybrid Precoding for Millimeter Wave Massive Multiuser MIMO Systems. <i>IEEE Communications Letters</i> , <b>2021</b> , 25, 1010-1014	3.8	1
60	Orthogonal Time Frequency Space (OTFS) With Dual-Mode Index Modulation. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 10, 991-995	5.9	2
59	Terahertz Ultra-Massive MIMO-Based Aeronautical Communications in Space-Air-Ground Integrated Networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2021</b> , 39, 1741-1767	14.2	17
58	Training Based Hybrid Precoding Scheme for Multiuser Massive MIMO-OFDM. <i>IEEE Communications Letters</i> , <b>2021</b> , 1-1	3.8	1
57	Joint relay and jammer selection for secure cooperative networks with a full-duplex active eavesdropper. <i>IET Communications</i> , <b>2020</b> , 14, 1043-1055	1.3	3
56	Principal Component Analysis-Based Broadband Hybrid Precoding for Millimeter-Wave Massive MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2020</b> , 19, 6331-6346	9.6	18
55	Factor Graph Based Message Passing Algorithms for Joint Phase-Noise Estimation and Decoding in OFDM-IM. <i>IEEE Transactions on Communications</i> , <b>2020</b> , 68, 2906-2921	6.9	4
54	GMD-Based Hybrid Beamforming for Large Reconfigurable Intelligent Surface Assisted Millimeter-Wave Massive MIMO. <i>IEEE Access</i> , <b>2020</b> , 8, 19530-19539	3.5	51
53	Robust THP Design for Energy Efficiency of Multibeam Satellite Systems with Imperfect CSI. <i>IEEE Communications Letters</i> , <b>2020</b> , 24, 428-432	3.8	3
52	Learning-based secure communication against active eavesdropper in dynamic environment. <i>IET Communications</i> , <b>2019</b> , 13, 2235-2242	1.3	1
51	A Multi-Layer Cluster Based Energy Efficient Routing Scheme for UWSNs. <i>IEEE Access</i> , <b>2019</b> , 7, 77398-77410	3.10	22
50	Multi-User Wideband Sparse Channel Estimation for Aerial BS with Hybrid Full-Dimensional MIMO <b>2019</b> ,		1
49	Closed-Loop Sparse Channel Estimation for Wideband Millimeter-Wave Full-Dimensional MIMO Systems. <i>IEEE Transactions on Communications</i> , <b>2019</b> , 67, 8329-8345	6.9	35
48	Adaptive hierarchical coding and modulation scheme over satellite channels. <i>IET Communications</i> , <b>2019</b> , 13, 2834-2839	1.3	5

47	Learning-Based Wireless Powered Secure Transmission. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 600-603	5.9	14
46	Frequency-Domain Joint Channel Estimation and Decoding for Faster-Than-Nyquist Signaling. <i>IEEE Transactions on Communications</i> , <b>2018</b> , 66, 781-795	6.9	51
45	Analysis of Average Packet Loss Rate in Multi-Hop Broadcast for VANETs. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 157-160	3.8	14
44	Transmit Antenna Selection in MIMO Wiretap Channels: A Machine Learning Approach. <i>IEEE Wireless Communications Letters</i> , <b>2018</b> , 7, 634-637	5.9	55
43	Turbo equalization based on joint Gaussian, SIC-MMSE and LMMSE for nonlinear satellite channels. <i>Science China Information Sciences</i> , <b>2018</b> , 61, 1	3.4	2
42	Iterative Learning Control Assisted Neural Network for Digital Predistortion of MIMO Power Amplifier <b>2018</b> ,		5
41	A Novel Digital Predistortion of 5G Wideband Power Amplifier with Narrow Bandwidth ADC <b>2018</b> ,		1
40	Turbo Equalization Based on a Combined VMP-BP Algorithm for Nonlinear Satellite Channels. <i>IEEE Access</i> , <b>2018</b> , 6, 35492-35500	3.5	5
39	Wideband Hybrid Precoding for Next-Generation Backhaul/Fronthaul Based on mmWave FD-MIMO <b>2018</b> ,		2
38	MMSE-THP with QoS Requirements for the Downlink of Multiuser MIMO Systems <b>2018</b> ,		1
37	Model Identification for Digital Predistortion of Power Amplifier With Signed Regressor Algorithm. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 921-923	2.6	8
36	A Dual-Mode Index Modulation Scheme With Gray-Coded Pairwise Index Mapping. <i>IEEE Communications Letters</i> , <b>2018</b> , 22, 1580-1583	3.8	6
35	A factor graph-based iterative detection of faster-than-Nyquist signaling in the presence of phase noise and carrier frequency offset <b>2017</b> , 63, 25-34		8
34	On the Performance Limits of Cooperative Localization in Wireless Sensor Networks With Strong Sensor Position Uncertainty. <i>IEEE Communications Letters</i> , <b>2017</b> , 21, 1613-1616	3.8	13
33	Digital Predistortion of Wideband Power Amplifier With Single Undersampling ADC. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 1016-1018	2.6	19
32	Joint Phase Noise Estimation and Iterative Detection of Faster-than-Nyquist Signaling Based on Factor Graph <b>2017</b> ,		3
31	Saturated throughput analysis of vehicular ad hoc networks over Rayleigh-fading channels <b>2017</b> ,		1
30	Hybrid blind symbol rate estimation for linearly modulated signals <b>2017</b> ,		2

29	Cooperative Detection-Assisted Localization in Wireless Networks in the Presence of Ranging Outliers. <i>IEEE Transactions on Communications</i> , <b>2017</b> , 65, 5165-5179	6.9	7
28	Understanding the efficiency of cooperation in location-aware wireless networks <b>2017</b> ,		1
27	2D Unitary ESPRIT Based Super-Resolution Channel Estimation for Millimeter-Wave Massive MIMO With Hybrid Precoding. <i>IEEE Access</i> , <b>2017</b> , 5, 24747-24757	3.5	42
26	Cooperative Joint Localization and Clock Synchronization Based on Gaussian Message Passing in Asynchronous Wireless Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2016</b> , 65, 7258-7273	6.8	63
25	Joint channel estimation and decoding in the presence of phase noise over time-selective flat-fading channels. <i>IET Communications</i> , <b>2016</b> , 10, 577-585	1.3	3
24	Joint Channel Estimation and Decoding for FTNS in Frequency-Selective Fading Channels <b>2016</b> ,		2
23	Frequency-Domain Iterative Message Passing Receiver for Faster-Than-Nyquist Signaling in Doubly Selective Channels. <i>IEEE Wireless Communications Letters</i> , <b>2016</b> , 5, 584-587	5.9	14
22	Factor graph approach for joint passive localization and receiver synchronization in wireless sensor networks <b>2016</b> ,		1
21	Joint localization and cooperative detection in location-aware wireless networks in the presence of ranging outliers <b>2016</b> ,		2
20	Variational Inference-Based Frequency-Domain Equalization for Faster-Than-Nyquist Signaling in Doubly Selective Channels. <i>IEEE Signal Processing Letters</i> , <b>2016</b> , 23, 1270-1274	3.2	26
19	Distributed cooperative localization based on Gaussian message passing on factor graph in wireless networks. <i>Science China Information Sciences</i> , <b>2015</b> , 58, 1-15	3.4	7
18	A Performance Limit of TOA-Based Location-Aware Wireless Networks With Ranging Outliers. <i>IEEE Communications Letters</i> , <b>2015</b> , 19, 1414-1417	3.8	13
17	Joint synchronization and localization based on Gaussian belief propagation in sensor networks <b>2015</b> ,		2
16	Nodes localization with inaccurate anchors via EM algorithm in wireless sensor networks <b>2014</b> ,		3
15	Expectation-maximisation-based localisation using anchors with uncertainties in wireless sensor networks. <i>IET Communications</i> , <b>2014</b> , 8, 1977-1987	1.3	15
14	Simplified error performance analysis of APSK signals. <i>IEICE Communications Express</i> , <b>2014</b> , 3, 163-167	0.4	1
13	A context-aware MAC protocol in VANET based on Bayesian Networks <b>2014</b> ,		3
12	Gaussian message-based cooperative localization on factor graph in wireless sensor networks <b>2014</b> ,		1

11	A Message Passing Approach to Joint Channel Estimation and Decoding with Carrier Frequency Offset in Time Selective Rayleigh Fading Channel <b>2013</b> ,		1
10	Semi-Analytical Method for Performance Analysis of Code-Aided Soft-Information Based Iterative Carrier Phase Recovery. <i>IEICE Transactions on Communications</i> , <b>2013</b> , E96.B, 3062-3069	0.5	
9	Low Complexity SNR Estimation for Linear Modulations on AWGN Channel <b>2012</b> ,		1
8	Look-Up Table Based Low Complexity LLR Calculation for High-Order Amplitude Phase Shift Keying Signals. <i>IEICE Transactions on Communications</i> , <b>2012</b> , E95.B, 2936-2938	0.5	1
7	Performance Analysis and Optimization of Non-Data-Aided Carrier Frequency Estimator for APSK Signals. <i>IEICE Transactions on Communications</i> , <b>2012</b> , E95.B, 2080-2086	0.5	2
6	Performance analysis of code-aided iterative hard/soft decision-directed carrier phase recovery <b>2012</b> ,		1
5	Performance Analysis of Code-Aided Symbol Timing Recovery on AWGN Channels. <i>IEEE Transactions on Communications</i> , <b>2011</b> , 59, 1975-1984	6.9	10
4	Design and Analysis of Data-Aided Coarse Carrier Frequency Recovery in DVB-S2 <b>2010</b> ,		2
3	Performance evaluation of different detectors for frame synchronization in DVB-S2 system <b>2010</b> ,		2
2	Corrections to "Cramer-Rao lower bound for non-data-aided SNR estimation of linear modulation schemes". <i>IEEE Transactions on Communications</i> , <b>2010</b> , 58, 318-318	6.9	
1	Design and Performance Evaluation of Feedforward Timing Estimator for M-PSK Signals <b>2009</b> ,		1