Hai Lin

List of Publications by Year
in descending order

		279798	223800
115 papers	2,305 citations	23 h-index	46 g-index
115 all docs	115 docs citations	115 times ranked	2193 citing authors

#	Article	IF	Citations
1	Spatial- and Frequency-Wideband Effects in Millimeter-Wave Massive MIMO Systems. IEEE Transactions on Signal Processing, 2018, 66, 3393-3406.	5.3	327
2	Angle Domain Hybrid Precoding and Channel Tracking for Millimeter Wave Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2017, 16, 6868-6880.	9.2	147
3	Spatial-Wideband Effect in Massive MIMO with Application in mmWave Systems. IEEE Communications Magazine, 2018, 56, 134-141.	6.1	112
4	Unsupervised Learning for Passive Beamforming. IEEE Communications Letters, 2020, 24, 1052-1056.	4.1	109
5	A New View of Multi-User Hybrid Massive MIMO: Non-Orthogonal Angle Division Multiple Access. IEEE Journal on Selected Areas in Communications, 2017, 35, 2268-2280.	14.0	108
6	An Overview of Enhanced Massive MIMO With Array Signal Processing Techniques. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 886-901.	10.8	104
7	Beam Squint and Channel Estimation for Wideband mmWave Massive MIMO-OFDM Systems. IEEE Transactions on Signal Processing, 2019, 67, 5893-5908.	5.3	90
8	Cell-Free Massive MIMO Systems With Low Resolution ADCs. IEEE Transactions on Communications, 2019, 67, 6844-6857.	7.8	76
9	Proactive Eavesdropping in Relaying Systems. IEEE Signal Processing Letters, 2017, 24, 917-921.	3.6	67
10	Frequency Synchronization for Uplink Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 235-249.	9.2	65
11	Full-Duplex Massive MIMO Relaying Systems With Low-Resolution ADCs. IEEE Transactions on Wireless Communications, 2017, 16, 5033-5047.	9.2	64
12	Symbol Detection of Ambient Backscatter Systems With Manchester Coding. IEEE Transactions on Wireless Communications, 2018, 17, 4028-4038.	9.2	64
13	Low-complexity pilot-aided compensation for carrier frequency offset and I/Q imbalance. IEEE Transactions on Communications, 2010, 58, 448-452.	7.8	48
14	Highly Efficient 3-D Resource Allocation Techniques in 5G for NOMA-Enabled Massive MIMO and Relaying Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2785-2797.	14.0	48
15	High-Mobility Wideband Massive MIMO Communications: Doppler Compensation, Analysis and Scaling Laws. IEEE Transactions on Wireless Communications, 2019, 18, 3177-3191.	9.2	48
16	Time Varying Channel Tracking With Spatial and Temporal BEM for Massive MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 5653-5666.	9.2	39
17	On the Capacity of Wireless Powered Communication Systems Over Rician Fading Channels. IEEE Transactions on Communications, 2018, 66, 404-417.	7.8	34
18	Design of Non-Orthogonal Beamspace Multiple Access for Cellular Internet-of-Things. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 538-552.	10.8	34

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19	Low complexity cross-layer design with packet dependent scheduling for heterogeneous traffic in multiuser OFDM systems. IEEE Transactions on Wireless Communications, 2010, 9, 1912-1923.	9.2	32
20	Power Allocation for Cache-Aided Small-Cell Networks With Limited Backhaul. IEEE Access, 2017, 5, 1272-1283.	4.2	30
21	Robust Beamforming for Physical Layer Security in BDMA Massive MIMO. IEEE Journal on Selected Areas in Communications, 2018, 36, 775-787.	14.0	29
22	Detection of Pilot Contamination Attack based on Uncoordinated Frequency Shifts. IEEE Transactions on Communications, 2018, 66, 2658-2670.	7.8	28
23	A New Adaptive OFDM System with Precoded Cyclic Prefix for Dynamic Cognitive Radio Communications. IEEE Journal on Selected Areas in Communications, 2011, 29, 431-442.	14.0	24
24	Maximum-Eigenvalue Detector for Multiple Antenna Ambient Backscatter Communication Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 12411-12415.	6.3	22
25	Low-Complexity Semiblind Multi-CFO Estimation and ICA-Based Equalization for CoMP OFDM Systems. IEEE Transactions on Vehicular Technology, 2014, 63, 1928-1934.	6.3	21
26	Estimation and Compensation of CFO and I/Q Imbalance in OFDM Systems Under Timing Ambiguity. IEEE Transactions on Vehicular Technology, 2011, 60, 1200-1205.	6.3	20
27	Self-interference cancellation in full-duplex wireless with IQ imbalance. Physical Communication, 2016, 18, 2-14.	2.1	19
28	Magnetic Resonant Beamforming for Secured Wireless Power Transfer. IEEE Signal Processing Letters, 2017, 24, 1173-1177.	3.6	19
29	Deep Reinforcement Learning for Joint Beamwidth and Power Optimization in mmWave Systems. IEEE Communications Letters, 2020, 24, 2201-2205.	4.1	19
30	A Low-Complexity Carrier Frequency Offset Estimator Independent of DC Offset. IEEE Communications Letters, 2008, 12, 520-522.	4.1	17
31	Subcarrier allocation based compensation for carrier frequency offset and I/Q imbalances in OFDM systems. IEEE Transactions on Wireless Communications, 2009, 8, 18-23.	9.2	17
32	Orthogonal Delay-Doppler Division Multiplexing Modulation. IEEE Transactions on Wireless Communications, 2022, 21, 11024-11037.	9.2	17
33	Independent component analysis based semi-blind I/Q imbalance compensation for MIMO OFDM systems. IEEE Transactions on Wireless Communications, 2010, 9, 914-920.	9.2	16
34	Time Domain Blind I/Q Imbalance Compensation Based on Real-Valued Filter. IEEE Transactions on Wireless Communications, 2012, 11, 4342-4350.	9.2	16
35	Blind Estimation of Carrier Frequency Offset and DC Offset for OFDM Systems. IEEE Transactions on Communications, 2008, 56, 704-707.	7.8	15
36	Joint Feedback and Artificial Noise Design for Secure Communications Over Fading Channels Without Eavesdropper's CSI. IEEE Transactions on Vehicular Technology, 2017, 66, 11414-11418.	6.3	14

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37	Adaptive cancellation of self-interference in full-duplex wireless with transmitter IQ imbalance. , 2014, , .		13
38	Combat Hybrid Eavesdropping in Power-Domain NOMA: Joint Design of Timing Channel and Symbol Transformation. IEEE Transactions on Vehicular Technology, 2018, 67, 4998-5012.	6.3	13
39	Energy Beamformer and Time Split Design for Wireless Powered Two-Way Relaying Systems. IEEE Transactions on Wireless Communications, 2018, 17, 3723-3736.	9.2	13
40	Joint User Pairing and Power Allocation Design for Heavy Loaded Full-Duplex Small Cell Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 8989-8993.	6.3	12
41	Massive Beam-Division Multiple Access for B5G Cellular Internet of Things. IEEE Internet of Things Journal, 2020, 7, 2386-2396.	8.7	12
42	Intrinsic Interference Based Physical Layer Encryption for OFDM/OQAM. IEEE Communications Letters, 2017, 21, 1059-1062.	4.1	11
43	Content Centric Network With Label Aided User Modeling and Cellular Partition. IEEE Access, 2017, 5, 12576-12583.	4.2	11
44	High-Robustness and Low-Complexity Joint Estimation of TOAs and CFOs for Multiuser SIMO OFDM Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 7739-7743.	6.3	11
45	Carrier Frequency Offset and I/Q Imbalances Compensation in OFDM Systems. , 2007, , .		10
46	ESPRIT-Based Carrier Frequency Offset Estimation for OFDM Direct-Conversion Receivers. IEEE Communications Letters, 2013, 17, 1513-1516.	4.1	10
47	Robust Downlink Beamforming for BDMA Massive MIMO System. IEEE Transactions on Communications, 2018, 66, 1496-1507.	7.8	10
48	Joint CFO and I/Q Imbalance Estimation for OFDM Systems Exploiting Constant Modulus Subcarriers. IEEE Transactions on Vehicular Technology, 2018, 67, 10076-10080.	6.3	10
49	Optimal Detection for Ambient Backscatter Communication Systems With Multiantenna Reader Under Complex Gaussian Illuminator. IEEE Internet of Things Journal, 2020, 7, 11371-11383.	8.7	10
50	Hybrid Domain Compensation for Analog Impairments in OFDM Systems. , 2008, , .		9
51	Spectrum Sensing of Unsynchronized OFDM Signals for Cognitive Radio Communications. , 2009, , .		9
52	Modulation classification based on Gaussian mixture models under multipath fading channel. , 2012, , .		9
53	Iterative Demodulation and Decoding Algorithm for 3GPP/LTE-A MIMO-OFDM Using Distribution Approximation. IEEE Transactions on Wireless Communications, 2018, 17, 1331-1342.	9.2	9
54	Distributed Decoding for Coded Slotted ALOHA. IEEE Communications Letters, 2017, 21, 1715-1718.	4.1	8

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55	Vandermonde decomposition of coprime coarray covariance matrix for DOA estimation. , 2017, , .		8
56	Wideband Channel Estimation for mmWave Massive MIMO Systems with Beam Squint Effect. , 2018, , .		8
57	Robust Magnetic Resonant Beamforming for Secured Wireless Power Transfer. IEEE Signal Processing Letters, 2018, 25, 1226-1230.	3.6	8
58	Frequency Synchronization in Distributed Antenna Systems: Pairing-Based Multi-CFO Estimation, Theoretical Analysis, and Optimal Pairing Scheme. IEEE Transactions on Communications, 2019, 67, 2924-2938.	7.8	8
59	Weighted Sum-Rate of Intelligent Reflecting Surface Aided Multiuser Downlink Transmission With Statistical CSI. IEEE Transactions on Wireless Communications, 2022, 21, 4925-4937.	9.2	8
60	Blind I/Q Imbalance Compensation Using Independent Component Analysis in MIMO OFDM Systems. , 2009, , .		7
61	Spatial-wideband effect in massive MIMO systems. , 2017, , .		7
62	A Novel Equalization Method for OFDM Systems without Guard Interval. , 2010, , .		6
63	Joint Estimation of Channel and I/Q Imbalance in OFDM/OQAM Systems. IEEE Communications Letters, 2016, 20, 284-287.	4.1	6
64	Data-Driven Optimization for Utility Providers with Differential Privacy of Users' Energy Profile. , 2018, , .		6
65	Multipair full-duplex massive MIMO relaying with low-resolution ADCs and imperfect CSI. , 2017, , .		5
66	Optimization of Power Beacon Assisted Wireless Powered Two-Way Relaying Systems under User Fairness. , 2017, , .		5
67	Compensation of Phase Noise in OFDM/OQAM Systems. , 2017, , .		5
68	Energy Efficiency of Massive MIMO Downlink WPT With Mixed-ADCs. IEEE Communications Letters, 2019, 23, 2316-2320.	4.1	5
69	Energy-Efficient Wireless Sensing for Level Set Estimations. IEEE Access, 2015, 3, 1480-1490.	4.2	4
70	On the Design of B5G Multi-Beam LEO Satellite Internet of Things. , 2020, , .		4
71	SPCp1-02: Blind Carrier Frequency Offset Estimation for OFDM Systems with DC Offset. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	3
72	Joint Estimation of Carrier Frequency Offset and I/Q Imbalance in the Presence of Time-Varying DC Offset. IEICE Transactions on Communications, 2010, E93.B, 16-21.	0.7	3

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73	Repeated preamble based carrier frequency offset estimation in the presence of I/Q imbalance. , 2012, , .		3
74	Angle Space Channel Tracking for Hybrid mmWave Massive MIMO Systems. , 2017, , .		3
75	Optimization and Analysis of Wireless Powered Multi-Antenna Two-Way Relaying Systems. IEEE Transactions on Communications, 2020, 68, 2048-2060.	7.8	3
76	Information Cofreshness-Aware Grant Assignment and Transmission Scheduling for Internet of Things. IEEE Internet of Things Journal, 2021, 8, 14435-14446.	8.7	3
77	Blind signal recovery in multiuser MIMO-OFDM system. , 0, , .		2
78	A Novel Blind Integer CFO Estimator for OFDM Systems. , 2006, , .		2
79	Joint Compensation of Frequency-Selective I/Q Imbalance and CFO in OFDM-Based WLAN. , 2008, , .		2
80	Kalman Filtering Based Compensation for I/Q Imbalance and CFO in Time-Varying MIMO OFDM Systems. , 2009, , .		2
81	Design and exploitation of precoded in-band pilots for OFDM signal in cognitive radio. , 2009, , .		2
82	Low SNR Timing and Frequency Synchronization for PIP-OFDM System. , 2010, , .		2
83	Semi-blind MIMO OFDM systems with precoding aided CFO estimation and ICA based equalization. , 2013, , .		2
84	Low-complexity frequency synchronization for ICA based semi-blind CoMP systems with ICI and phase rotation caused by multiple CFOs. , 2014, , .		2
85	Cross-layer energy-efficiency optimization for multiuser full-duplex decode-and-forward indoor relay networks at 60 GHz. , 2016, , .		2
86	Large Intelligent Reflecting Surface Enhanced Massive Access for B5G Cellular Internet of Things. , 2020, , .		2
87	Robust Frequency Offset Estimation in the Presence of Time-Varying DC Offset. IEICE Transactions on Communications, 2009, E92-B, 2577-2583.	0.7	2
88	Genetic Algorithm Based Equalizer for Ultra-Wideband Wireless Communication Systems. IEICE Transactions on Communications, 2010, E93-B, 2725-2734.	0.7	2
89	Multiuser Detection for MIMO-OFDM Systems Based on Known Partial CSI. , 0, , .		1
90	Pilot-based frequency offset estimation in the presence of time-varying DC offset. , 2009, , .		1

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91	Genetic Algorithm Based Frequency Domain Equalization for DS-UWB Systems without Guard Interval. , 2011, , .		1
92	Blind Frequency-Dependent I/Q Imbalance Compensation Using System Identification. , 2011, , .		1
93	Distributed joint source and channel code with correlated information sources. , 2012, , .		1
94	Semi-blind CoMP system with multiple-CFO estimation and ICA based equalization. , 2012, , .		1
95	ICA based joint semi-blind equalization and CFO estimation for OFDMA systems. , 2014, , .		1
96	Optimum Level Set Estimation of a Time-Varying Random Field under a Power Constraint. , 2015, , .		1
97	On the Precoding for Multi-Cell Massive MIMO Systems with Distributed Antenna Subarrays. , 2016, , .		1
98	Aggregated V2I Communications for Improved Energy Efficiency Using Non-Orthogonal Multiplexed Modulation. , 2016, , .		1
99	Downlink Performance of Pilot-Reused HetNet With Large-Scale Antenna Arrays. IEEE Transactions on Communications, 2017, 65, 2608-2624.	7.8	1
100	Design of Beamspace Massive Access for Cellular Internet-of-Things. , 2019, , .		1
101	Data-Driven Phase Noise Mitigation in OFDM Systems. , 2021, , .		1
102	Hysteretic Optimality of Container Warming Control in Serverless Computing Systems. IEEE Networking Letters, 2021, 3, 138-141.	1.9	1
103	Blind OFDM carrier frequency offset estimation in the presence of DC Offset. , 2011, , .		0
104	Optimum Level Set Estimation of a Time-Varying Random Field under a Power Constraint. , 2014, , .		0
105	Semi-blind full-duplex relay system with ICA based joint CFO mitigation and equalization. , 2015, , .		0
106	Circular-shift division multiple access with oversampling receivers. , 2015, , .		0
107	Optimum Poisson Sensing with Energy Harvesting Power Sources. , 2016, , .		0
108	Robust Beamforming for BDMA Massive MIMO. , 2017, , .		0

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109	Beam domain PAPR reduction for massive MIMO downlink. , 2017, , .		0
110	Capacity of wireless powered communication systems over rician fading channels. , 2017, , .		0
111	Optimum Multicast Scheduling in Delay-Constrained Content-Centric Wireless Networks. , 2019, , .		0
112	Signal Recovery in Multiuser MIMO-OFDM Systems with Known Partial Channel State Information. IEEJ Transactions on Electronics, Information and Systems, 2006, 126, 1049-1050.	0.2	0
113	Time and Frequency Synchronization in OFDM Systems. , 2018, , 1-5.		0
114	Time and Frequency Synchronization in OFDM Systems. , 2020, , 1395-1400.		0
115	Age-Efficient Concurrent Information Update Scheduling in Edge-Native Systems. IEEE Wireless Communications Letters, 2022, , 1-1.	5.0	0