Yunlong Cai

List of Publications by Year
in descending order

| 134 papers | 3,525 citations | 186265
28 h-index | 149698
56 g-index |
|---|---|---|---|
| 134 all docs | 134 docs citations | 134 times ranked | 3426 citing authors |

#	Article	IF	Citations
1	Intelligent Reflecting Surface Aided Full-Duplex Communication: Passive Beamforming and Deployment Design. IEEE Transactions on Wireless Communications, 2022, 21, 383-397.	9.2	33
2	Proactive Eavesdropping via Jamming in UAV-Enabled Suspicious Multiuser Communications. IEEE Wireless Communications Letters, 2022, 11, 3-7.	5.0	11
3	Beamforming Design Based on Two-Stage Stochastic Optimization for RIS-Assisted Over-the-Air Computation Systems. IEEE Internet of Things Journal, 2022, 9, 5474-5488.	8.7	12
4	Channel Estimation for IRS-Aided Multiuser Communications With Reduced Error Propagation. IEEE Transactions on Wireless Communications, 2022, 21, 2725-2741.	9.2	27
5	Deep-Unfolding Beamforming for Intelligent Reflecting Surface Assisted Full-Duplex Systems. IEEE Transactions on Wireless Communications, 2022, 21, 4784-4800.	9.2	13
6	Proactive Eavesdropping via Opportunistic Energy Transfer and Jamming for Wireless-Powered Suspicious Communication. IEEE Transactions on Green Communications and Networking, 2022, 6, 1055-1068.	5.5	2
7	Proactive Eavesdropping via Jamming Over Multiple Suspicious Links With Wireless-Powered Monitor. IEEE Signal Processing Letters, 2022, 29, 354-358.	3.6	3
8	RIS-Aided Hybrid Massive MIMO Systems Relying on Adaptive-Resolution ADCs: Robust Beamforming Design and Resource Allocation. IEEE Transactions on Vehicular Technology, 2022, 71, 3281-3286.	6.3	9
9	Channel Estimation for STAR-RIS-Aided Wireless Communication. IEEE Communications Letters, 2022, 26, 652-656.	4.1	50
10	Intelligent Reflecting Surface-Assisted Proactive Eavesdropping Over Suspicious Broadcasting Communication With Statistical CSI. IEEE Transactions on Vehicular Technology, 2022, 71, 4483-4488.	6.3	13
11	Two-Timescale End-to-End Learning for Channel Acquisition and Hybrid Precoding. IEEE Journal on Selected Areas in Communications, 2022, 40, 163-181.	14.0	13
12	Channel Estimation for Hybrid Massive MIMO Systems With Adaptive-Resolution ADCs. IEEE Transactions on Communications, 2022, 70, 2131-2146.	7.8	1
13	Proactive Eavesdropping With Jamming Power Allocation in Training-Based Suspicious Communications. IEEE Signal Processing Letters, 2022, 29, 667-671.	3.6	2
14	Proactive Eavesdropping via Jamming in UAV-Enabled Relaying Systems With Statistical CSI. IEEE Signal Processing Letters, 2022, 29, 1267-1271.	3.6	3
15	RIS-Assisted Communication Radar Coexistence: Joint Beamforming Design and Analysis. IEEE Journal on Selected Areas in Communications, 2022, 40, 2131-2145.	14.0	45
16	Decentralized Edge Learning via Unreliable Device-to-Device Communications. IEEE Transactions on Wireless Communications, 2022, 21, 9041-9055.	9.2	3
17	Joint Pilot Optimization, Target Detection and Channel Estimation for Integrated Sensing and Communication Systems. IEEE Transactions on Wireless Communications, 2022, 21, 10351-10365.	9.2	9
18	Joint Beamforming Aided Over-the-Air Computation Systems Relying on Both BS-Side and User-Side Reconfigurable Intelligent Surfaces. IEEE Transactions on Wireless Communications, 2022, 21, 10766-10779.	9.2	1

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19	Mixed-Timescale Deep-Unfolding for Joint Channel Estimation and Hybrid Beamforming. IEEE Journal on Selected Areas in Communications, 2022, 40, 2510-2528.	14.0	6
20	Proactive Eavesdropping in Two-Way Amplify-and-Forward Relay Networks. IEEE Systems Journal, 2021, 15, 3415-3426.	4.6	7
21	Iterative Algorithm Induced Deep-Unfolding Neural Networks: Precoding Design for Multiuser MIMO Systems. IEEE Transactions on Wireless Communications, 2021, 20, 1394-1410.	9.2	91
22	Joint User Scheduling and Resource Allocation for Millimeter Wave Systems Relying on Adaptive-Resolution ADCs. IEEE Transactions on Vehicular Technology, 2021, 70, 12260-12265.	6.3	2
23	Low-Complexity Joint Power Allocation and Trajectory Design for UAV-Enabled Secure Communications With Power Splitting. IEEE Transactions on Communications, 2021, 69, 1896-1911.	7.8	32
24	Mixed-Timescale Channel Estimation for MIMO Relay Multi-User Systems Based on the PARAFAC Decomposition. IEEE Communications Letters, 2021, 25, 1288-1292.	4.1	4
25	Power Minimization for Massive MIMO Over-the-Air Computation With Two-Timescale Hybrid Beamforming. IEEE Wireless Communications Letters, 2021, 10, 873-877.	5.0	6
26	Two-Timescale Uplink Channel Estimation for Dual-Hop MIMO Relay Multi-User Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 4724-4739.	6.3	3
27	Resource Allocation for Millimeter-Wave Train-Ground Communications in <?brk?>High-Speed Railway Scenarios. IEEE Transactions on Vehicular Technology, 2021, 70, 4823-4838.	6.3	13
28	Deep Stochastic Optimization for Algorithm-Specific Pilot Design in Massive MIMO. , 2021, , .		2
29	MIMO-Aided Nonlinear Hybrid Transceiver Design for Multiuser Mmwave Systems Relying on Tomlinson-Harashima Precoding. IEEE Transactions on Vehicular Technology, 2021, 70, 6943-6957.	6.3	8
30	Joint Deep Reinforcement Learning and Unfolding: Beam Selection and Precoding for mmWave Multiuser MIMO With Lens Arrays. IEEE Journal on Selected Areas in Communications, 2021, 39, 2289-2304.	14.0	31
31	Latency Minimization in Intelligent Reflecting Surface Assisted D2D Offloading Systems. IEEE Communications Letters, 2021, 25, 3046-3050.	4.1	7
32	Energy-Efficient User Clustering and Downlink Beamforming for MIMO-SCMA in C-RAN. IEEE Access, 2021, 9, 115175-115191.	4.2	5
33	Hybrid Precoding Design Based on Dual-Layer Deep-Unfolding Neural Network. , 2021, , .		4
34	Constrained K-means User Clustering and Downlink Beamforming in MIMO-SCMA systems. , 2021, , .		2
35	Error Propagation Reduced Channel Estimation for IRS-aided Multiuser Communications. , 2021, , .		2
36	Energy-Efficient Resource Allocation for Latency-Sensitive Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2020, 69, 2246-2262.	6.3	40

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37	Deep Learning Based Channel Estimation Algorithm for Fast Time-Varying MIMO-OFDM Systems. IEEE Communications Letters, 2020, 24, 572-576.	4.1	61
38	Distributed Penalty Dual Decomposition Algorithm for Optimal Power Flow in Radial Networks. IEEE Transactions on Power Systems, 2020, 35, 2176-2189.	6.5	17
39	Efficient Resource Allocation for Relay-Assisted Computation Offloading in Mobile-Edge Computing. IEEE Internet of Things Journal, 2020, 7, 2452-2468.	8.7	37
40	Joint Task Allocation and Hybrid Beamforming for mmWave D2D MEC Systems. , 2020, , .		3
41	Secure Hybrid A/D Beamforming for Hardware-Efficient Large-Scale Multiple-Antenna SWIPT Systems. IEEE Transactions on Communications, 2020, 68, 6141-6156.	7.8	9
42	Joint Optimization of Position and Jamming Power for UAV-Aided Proactive Eavesdropping Over Multiple Suspicious Communication Links. IEEE Wireless Communications Letters, 2020, 9, 2093-2097.	5.0	10
43	Optimizing the Learning Performance in Mobile Augmented Reality Systems With CNN. IEEE Transactions on Wireless Communications, 2020, 19, 5333-5344.	9.2	14
44	Two-Timescale Hybrid Analog-Digital Beamforming for mmWave Full-Duplex MIMO Multiple-Relay Aided Systems. IEEE Journal on Selected Areas in Communications, 2020, 38, 2086-2103.	14.0	28
45	Robust Joint Hybrid Analog-Digital Transceiver Design for Full-Duplex mmWave Multicell Systems. IEEE Transactions on Communications, 2020, 68, 4788-4802.	7.8	22
46	Low-Complexity Joint Resource Allocation and Trajectory Design for UAV-Aided Relay Networks With the Segmented Ray-Tracing Channel Model. IEEE Transactions on Wireless Communications, 2020, 19, 6179-6195.	9.2	30
47	Mobile Edge Computing Meets mmWave Communications: Joint Beamforming and Resource Allocation for System Delay Minimization. IEEE Transactions on Wireless Communications, 2020, 19, 2382-2396.	9.2	48
48	Robust transceiver design based on switched preprocessing for K â€pair MIMO interference channels. IET Communications, 2020, 14, 300-312.	2.2	2
49	Improving Caching Efficiency in Content-Aware C-RAN-Based Cooperative Beamforming: A Joint Design Approach. IEEE Transactions on Wireless Communications, 2020, 19, 4125-4140.	9.2	9
50	Optimizing the Learning Accuracy in Mobile Augmented Reality Systems with CNN. , 2020, , .		3
51	Stochastic Hybrid Combining Design for Quantized Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 16224-16229.	6.3	3
52	Decoding Binary Linear Codes Using Penalty Dual Decomposition Method. IEEE Communications Letters, 2019, 23, 958-962.	4.1	18
53	Joint Content Placement, RRH Clustering and Beamforming for Cache-Enabled Cloud-RAN. , 2019, , .		4
54	Randomized Two-Timescale Hybrid Precoding for Downlink Multicell Massive MIMO Systems. IEEE Transactions on Signal Processing, 2019, 67, 4152-4167.	5.3	30

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55	Robust Joint Hybrid Transceiver Design for Millimeter Wave Full-Duplex MIMO Relay Systems. IEEE Transactions on Wireless Communications, 2019, 18, 1199-1215.	9.2	68
56	Joint Computation Offloading and Resource Allocation in D2D Enabled MEC Networks. , 2019, , .		25
57	Peak-to-Average Power Ratio Reduction Based on Penalty-CCCP for Filter Bank Multicarrier Systems. IEEE Transactions on Vehicular Technology, 2019, 68, 11353-11357.	6.3	3
58	Multiple Access for Mobile-UAV Enabled Networks: Joint Trajectory Design and Resource Allocation. IEEE Transactions on Communications, 2019, 67, 4980-4994.	7.8	71
59	D2D Communications Meet Mobile Edge Computing for Enhanced Computation Capacity in Cellular Networks. IEEE Transactions on Wireless Communications, 2019, 18, 1750-1763.	9.2	166
60	Rethinking Outage Constraints for Resource Management in NOMA Networks. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 423-435.	10.8	13
61	UAV Communications Based on Non-Orthogonal Multiple Access. IEEE Wireless Communications, 2019, 26, 52-57.	9.0	198
62	Joint Resource Allocation and Trajectory Optimization for UAV-Aided Relay Networks. , 2019, , .		5
63	Resource Allocation for NOMA Networks under Alternative Outage Constraints. , 2019, , .		1
64	Joint Hybrid Beamforming and Offloading for mmWave Mobile Edge Computing Systems. , 2019, , .		7
65	Efficient Detection Scheme for Physical-Layer Network Coding in Multiway Relay Channels. IEEE Access, 2019, 7, 167639-167652.	4.2	3
66	Joint Offloading and Trajectory Design for UAV-Enabled Mobile Edge Computing Systems. IEEE Internet of Things Journal, 2019, 6, 1879-1892.	8.7	308
67	An Edge-Computing Based Architecture for Mobile Augmented Reality. IEEE Network, 2019, 33, 162-169.	6.9	112
68	Joint Beamforming and Jamming Design for mmWave Information Surveillance Systems. IEEE Journal on Selected Areas in Communications, 2018, 36, 1410-1425.	14.0	31
69	Joint Design of Beam Selection and Precoding Matrices for mmWave MU-MIMO Systems Relying on Lens Antenna Arrays. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 313-325.	10.8	28
70	Modulation and Multiple Access for 5G Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 629-646.	39.4	348
71	Joint Trajectory Design and Power Allocation for UAV-Enabled Non-Orthogonal Multiple Access Systems. , 2018, , .		10
72	Joint Cooperative Computation and Interactive Communication for Relay-Assisted Mobile Edge Computing. , 2018, , .		11

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73	Joint Transmit Precoding and Receive Antenna Selection for Uplink Multiuser Massive MIMO Systems. IEEE Transactions on Communications, 2018, 66, 5249-5260.	7.8	13
74	Dual-UAV-Enabled Secure Communications: Joint Trajectory Design and User Scheduling. IEEE Journal on Selected Areas in Communications, 2018, 36, 1972-1985.	14.0	159
75	Low-Complexity Reduced-Dimension Space–Time Adaptive Processing for Navigation Receivers. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 3160-3168.	4.7	5
76	Latency Optimization for Resource Allocation in Mobile-Edge Computation Offloading. IEEE Transactions on Wireless Communications, 2018, 17, 5506-5519.	9.2	339
77	Non‐linear transceiver design for secure communications with artificial noise‐assisted MIMO relay. IET Communications, 2017, 11, 930-935.	2.2	4
78	Joint Transceiver Design for Secure Downlink Communications Over an Amplify-and-Forward MIMO Relay. IEEE Transactions on Communications, 2017, 65, 3691-3704.	7.8	25
79	Joint Transceiver Design for Full-Duplex Cloud Radio Access Networks With SWIPT. IEEE Transactions on Wireless Communications, 2017, 16, 5644-5658.	9.2	28
80	Joint Transceiver Designs for Full-Duplex K -Pair MIMO Interference Channel With SWIPT. IEEE Transactions on Communications, 2017, 65, 890-905.	7.8	26
81	Nonlinear MIMO Transceivers Improve Wireless-Powered and Self-Interference-Aided Relaying. IEEE Transactions on Wireless Communications, 2017, 16, 6953-6966.	9.2	10
82	Distributed blind equalization in networked systems. , 2017, , .		9
83	Joint Transceiver Design With Antenna Selection for Large-Scale MU-MIMO mmWave Systems. IEEE Journal on Selected Areas in Communications, 2017, 35, 2085-2096.	14.0	48
84	Cost-Efficient Cellular Networks Powered by Micro-Grids. IEEE Transactions on Wireless Communications, 2017, 16, 6047-6061.	9.2	7
85	Partial Offloading for Latency Minimization in Mobile-Edge Computing. , 2017, , .		51
86	Energy efficient content-centric beamforming in multicast fog radio access network. , 2017, , .		1
87	Joint Optimization of Beamforming and Power Allocation for Multicell Downlink Systems. , 2016, , .		0
88	Joint Secure AF Relaying and Artificial Noise Optimization: A Penalized Difference-of-Convex Programming Framework. IEEE Access, 2016, 4, 10076-10095.	4.2	5
89	Joint precoding and antenna selection for large-scale MU-MIMO uplink systems. , 2016, , .		3
90	Robust Transceiver Design for MISO Interference Channel With Energy Harvesting. IEEE Transactions on Signal Processing, 2016, 64, 4618-4633.	5.3	36

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91	Multi-Branch Vector Perturbation Precoding Design Using Lattice Reduction for MU-MIMO Systems. , 2016, , .		2
92	Joint Transceiver Design Algorithms for Multiuser MISO Relay Systems with Energy Harvesting. IEEE Transactions on Communications, 2016, , 1-1.	7.8	22
93	Joint Source-Relay Design for Full-Duplex MIMO AF Relay Systems. IEEE Transactions on Signal Processing, 2016, 64, 6118-6131.	5.3	104
94	Low-Complexity Detection for FTN Signaling Based on Weighted FG-SS-BP Equalization Method. , 2016, , .		3
95	Low-complexity correlated time-averaged variable forgetting factor mechanism for diffusion RLS algorithm in sensor networks. , 2016, , .		1
96	Low-complexity factor-graph-based MAP detector for filter bank multicarrier systems. Journal of Communications and Information Networks, 2016, 1, 10-22.	5.2	1
97	Energy Efficiency Optimization for MISO SWIPT Systems With Zero-Forcing Beamforming. IEEE Transactions on Signal Processing, 2016, 64, 842-854.	5.3	115
98	Reduced-Rank DOA Estimation Algorithms Based on Alternating Low-Rank Decomposition. IEEE Signal Processing Letters, 2016, 23, 565-569.	3.6	25
99	An improved adaptive constrained constant modulus reduced-rank algorithm with sparse updates for beamforming. Multidimensional Systems and Signal Processing, 2016, 27, 321-340.	2.6	6
100	Reduced-rank interference suppression algorithm based on generalized MBER criterion for large-scale multiuser MIMO systems. , 2015, , .		0
101	Robust Transceiver Design for MISO Interference Channel with Energy Harvesting. , 2015, , .		4
102	TCGTR-based channel estimation for cooperative multi-cell large scale antenna systems. , 2015, , .		1
103	Joint 2-D DOA estimation and mutual coupling calibration for uniform rectangular arrays. , 2015, , .		2
104	Robust MMSE Precoding Based on Switched Relaying and Side Information for Multiuser MIMO Relay Systems. IEEE Transactions on Vehicular Technology, 2015, 64, 5677-5687.	6.3	13
105	Adaptive blind widely linear CCM reduced-rank beamforming for large-scale antenna arrays. , 2015, , .		2
106	Adaptive Reduced-Rank Receive Processing Based on Minimum Symbol-Error-Rate Criterion for Large-Scale Multiple-Antenna Systems. IEEE Transactions on Communications, 2015, 63, 4185-4201.	7.8	17
107	Lowâ€complexity variable forgetting factor mechanisms for adaptive linearly constrained minimum variance beamforming algorithms. IET Signal Processing, 2015, 9, 154-165.	1.5	14
108	New detection algorithms based on the jointly Gaussian approach and successive interference cancelation for iterative MIMO systems. International Journal of Communication Systems, 2014, 27, 1964-1983.	2.5	6

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109	Min-max MSE transceiver with switched preprocessing for MIMO interference channels. , 2014, , .		5
110	Robust Transceiver with Switched Preprocessing for K-Pair MIMO Interference Channels. , 2014, , .		1
111	Complexity reduction techniques for blind adaptive beamforming in OFDM antenna arrays. , 2014, , .		1
112	Robust Multibranch Tomlinson–Harashima Precoding Design in Amplify-and-Forward MIMO Relay Systems. IEEE Transactions on Communications, 2014, 62, 3476-3490.	7.8	14
113	Low-complexity variable forgetting factor constant modulus RLS-based algorithm for blind adaptive beamforming. , 2013, , .		2
114	Adaptive Linear Minimum BER Reduced-Rank Interference Suppression Algorithms Based on Joint and Iterative Optimization of Filters. IEEE Communications Letters, 2013, 17, 633-636.	4.1	10
115	Low-complexity adaptive transceiver techniques for K-pair MIMO interference channels. , 2013, , .		0
116	Joint CFO and sparse channel estimation for MIMO-OFDM systems via the SAGE algorithm. , 2013, , .		3
117	Low-complexity variable forgetting factor mechanism for recursive least-squares algorithms in interference suppression applications. IET Communications, 2013, 7, 1070-1080.	2.2	3
118	Robust Tomlinson-Harashima precoding design in amplify-and-forward MIMO relay systems via MMSE criterion. , 2013, , .		2
119	Construction of EIRA codes with enlarged dual diagonal distance by EXIT charts. , 2013, , .		0
120	Joint-Iterative Power Allocation and Interference Suppression Using MBER Technique for Cooperative CDMA Systems. , 2013, , .		0
121	Robust Multi-Branch Tomlinson-Harashima Source and Relay Precoding Scheme in Nonregenerative MIMO Relay Systems. , 2013, , .		1
122	Turbo equalization based on compressive sensing channel estimation in wideband HF systems. , 2013, , .		3
123	Robust MMSE precoding strategy for multiuser MIMO relay systems with switched relaying and side information. , 2013, , .		1
124	A code-aided iterative receiver applied to AF two-way relay MC-CDMA systems. , 2013, , .		0
125	Low-complexity variable forgetting factor mechanism for RLS algorithms in interference mitigation applications. , 2012, , .		4
126	A Precoding Scheme for N-Continuous OFDM. IEEE Communications Letters, 2012, 16, 1937-1940.	4.1	23

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127	Low-Complexity Variable Forgetting Factor Mechanism for Blind Adaptive Constrained Constant Modulus Algorithms. IEEE Transactions on Signal Processing, 2012, 60, 3988-4002.	5.3	28
128	Iterative Timing Recovery with Turbo Decoding at Very Low SNRs. , 2012, , .		4
129	An improved multicarrier differential CDMA system with synchronization errors in HF channels. , 2011, , .		2
130	A novel synchronization scheme for relay-assisted cooperative communication systems. , 2011, , .		0
131	Transmit Processing Techniques Based on Switched Interleaving and Limited Feedback for Interference Mitigation in Multiantenna MC-CDMA Systems. IEEE Transactions on Vehicular Technology, 2011, 60, 1559-1570.	6.3	16
132	Switched Interleaving Techniques with Limited Feedback for Interference Mitigation in DS-CDMA Systems. IEEE Transactions on Communications, 2011, 59, 1946-1956.	7.8	22
133	A novel ML-based frequency offset estimator for OFDM systems. , 2011, , .		0
134	A Novel Frequency Offset Tracking Algorithm for Space-Time Block Coded OFDM Systems. , 2011, , .		2