Shi Jin

List of Publications by Year
in descending order

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327 papers	17,389 citations	20036 63 h-index	19470 122 g-index
328 all docs	328 docs citations	328 times ranked	8950 citing authors

#	Article	IF	Citations
1	Blockchain Storage, Computation Offloading, and User Association for Heterogeneous Cellular Networks. IEEE Internet of Things Journal, 2022, 9, 8191-8204.	5.5	6
2	Dual-Polarized RIS-Assisted Mobile Communications. IEEE Transactions on Wireless Communications, 2022, 21, 591-606.	6.1	17
3	Adaptive Bit Partitioning for Reconfigurable Intelligent Surface Assisted FDD Systems With Limited Feedback. IEEE Transactions on Wireless Communications, 2022, 21, 2488-2505.	6.1	11
4	Channel Estimation and User Localization for IRS-Assisted MIMO-OFDM Systems. IEEE Transactions on Wireless Communications, 2022, 21, 2320-2335.	6.1	43
5	Hybrid Evolutionary-Based Sparse Channel Estimation for IRS-Assisted mmWave MIMO Systems. IEEE Transactions on Wireless Communications, 2022, 21, 1586-1601.	6.1	61
6	Accurate and broadband manipulations of harmonic amplitudes and phases to reach 256 QAM millimeter-wave wireless communications by time-domain digital coding metasurface. National Science Review, 2022, 9, nwab134.	4.6	46
7	Joint Modulations of Electromagnetic Waves and Digital Signals on a Single Metasurface Platform to Reach Programmable Wireless Communications. Engineering, 2022, 8, 86-95.	3.2	11
8	Enabling Plug-and-Play and Crowdsourcing SLAM in Wireless Communication Systems. IEEE Transactions on Wireless Communications, 2022, 21, 1453-1468.	6.1	7
9	CAnet: Uplink-Aided Downlink Channel Acquisition in FDD Massive MIMO Using Deep Learning. IEEE Transactions on Communications, 2022, 70, 199-214.	4.9	17
10	Adaptive MIMO Detector Based on Hypernetwork: Design, Simulation, and Experimental Test. IEEE Journal on Selected Areas in Communications, 2022, 40, 65-81.	9.7	8
11	Improving Sum-Rate of Cell-Free Massive MIMO With Expanded Compute-and-Forward. IEEE Transactions on Signal Processing, 2022, 70, 202-215.	3.2	42
12	Deep Learning-Based Implicit CSI Feedback in Massive MIMO. IEEE Transactions on Communications, 2022, 70, 935-950.	4.9	21
13	Offset Learning Based Channel Estimation for Intelligent Reflecting Surface-Assisted Indoor Communication. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 41-55.	7.3	13
14	Low-Latency Federated Learning Over Wireless Channels With Differential Privacy. IEEE Journal on Selected Areas in Communications, 2022, 40, 290-307.	9.7	21
15	Simultaneous in situ Direction Finding and Field Manipulation Based on Space-Time-Coding Digital Metasurface. IEEE Transactions on Antennas and Propagation, 2022, 70, 4774-4783.	3.1	28
16	Reconfigurable Intelligent Surface Empowered Optimization for Spectrum Sharing: Scenarios and Methods. IEEE Vehicular Technology Magazine, 2022, 17, 74-82.	2.8	14
17	User-Centric Online Gossip Training for Autoencoder-Based CSI Feedback. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 559-572.	7.3	9
18	Hybrid Active and Passive Sensing for SLAM in Wireless Communication Systems. IEEE Journal on Selected Areas in Communications, 2022, 40, 2146-2163.	9.7	20

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19	Collaborative Intelligent Reflecting Surface Networks With Multi-Agent Reinforcement Learning. IEEE Journal on Selected Topics in Signal Processing, 2022, 16, 532-545.	7.3	10
20	Intelligent metasurface with frequency recognition for adaptive manipulation of electromagnetic wave. Nanophotonics, 2022, 11, 1401-1411.	2.9	20
21	Reconfigurable Intelligent Surfaces: Simplified-Architecture Transmittersâ€"From Theory to Implementations. Proceedings of the IEEE, 2022, 110, 1266-1289.	16.4	37
22	Near-Field Modeling and Performance Analysis of Modular Extremely Large-Scale Array Communications. IEEE Communications Letters, 2022, 26, 1529-1533.	2.5	4
23	Conformal IRS-Empowered MIMO-OFDM: Channel Estimation and Environment Mapping. IEEE Transactions on Communications, 2022, 70, 4884-4899.	4.9	9
24	Modeling and Measurements for Multi-path Mitigation with Reconfigurable Intelligent Surfaces. , 2022, , .		6
25	Eliminating CSI Feedback Overhead via Deep Learning-Based Data Hiding. IEEE Journal on Selected Areas in Communications, 2022, 40, 2267-2281.	9.7	4
26	Unsupervised Online Learning in Deep Learning-Based Massive MIMO CSI Feedback. IEEE Communications Letters, 2022, 26, 2086-2090.	2.5	4
27	Environment Knowledge-Aided Massive MIMO Feedback Codebook Enhancement Using Artificial Intelligence. IEEE Transactions on Communications, 2022, 70, 4527-4542.	4.9	7
28	Reinforcement Learning-Empowered Mobile Edge Computing for 6G Edge Intelligence. IEEE Access, 2022, 10, 65156-65192.	2.6	24
29	Deep Source-Channel Coding for Sentence Semantic Transmission With HARQ. IEEE Transactions on Communications, 2022, 70, 5225-5240.	4.9	37
30	Model-Driven Deep Learning-Based MIMO-OFDM Detector: Design, Simulation, and Experimental Results. IEEE Transactions on Communications, 2022, 70, 5193-5207.	4.9	4
31	Spatial Modulation: An Attractive Secure Solution to Future Wireless Networks. IEEE Network, 2022, 36, 130-135.	4.9	3
32	Linear and Nonlinear Polarization Syntheses and Their Programmable Controls based on Anisotropic Timeâ€Domain Digital Coding Metasurface. Small Structures, 2021, 2, 2000060.	6.9	58
33	Wireless Communications With Reconfigurable Intelligent Surface: Path Loss Modeling and Experimental Measurement. IEEE Transactions on Wireless Communications, 2021, 20, 421-439.	6.1	685
34	Physical Layer Security Enhancement Exploiting Intelligent Reflecting Surface. IEEE Communications Letters, 2021, 25, 734-738.	2.5	69
35	Deep Learning for Channel Estimation: Interpretation, Performance, and Comparison. IEEE Transactions on Wireless Communications, 2021, 20, 2398-2412.	6.1	73
36	Meta Learning-Based MIMO Detectors: Design, Simulation, and Experimental Test. IEEE Transactions on Wireless Communications, 2021, 20, 1122-1137.	6.1	30

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37	Efficient Resource Allocation for Multi-UAV Communication Against Adjacent and Co-Channel Interference. IEEE Transactions on Vehicular Technology, 2021, 70, 10222-10235.	3.9	12
38	Spatio-Temporal Analysis of Meta Distribution for Cell-Center/Cell-Edge Users. IEEE Transactions on Communications, 2021, 69, 8256-8270.	4.9	6
39	Aerial RIS-Assisted High Altitude Platform Communications. IEEE Wireless Communications Letters, 2021, 10, 2096-2100.	3.2	20
40	Linear and Nonlinear Polarization Syntheses and Their Programmable Controls based on Anisotropic Timeâ€Domain Digital Coding Metasurface. Small Structures, 2021, 2, 2170003.	6.9	5
41	A Learning-Based Spectrum Access Stackelberg Game: Friendly Jammer-Assisted Communication Confrontation. IEEE Transactions on Vehicular Technology, 2021, 70, 700-713.	3.9	37
42	Two Birds With One Stone: Simultaneous Jamming and Eavesdropping With the Bayesian-Stackelberg Game. IEEE Transactions on Communications, 2021, 69, 8013-8027.	4.9	8
43	Fast Antenna and Beam Switching Method for mmWave Handsets With Hand Blockage. IEEE Transactions on Wireless Communications, 2021, 20, 8134-8148.	6.1	4
44	Delay-Limited Computation Offloading for MEC-Assisted Mobile Blockchain Networks. IEEE Transactions on Communications, 2021, 69, 8569-8584.	4.9	7
45	Design and Implementation of MIMO Transmission Based on Dual-Polarized Reconfigurable Intelligent Surface. IEEE Wireless Communications Letters, 2021, 10, 2155-2159.	3.2	29
46	Efficient Multiband Channel Reconstruction and Tracking for Hybrid mmWave MIMO Systems. IEEE Transactions on Communications, 2021, 69, 8501-8517.	4.9	3
47	EVCsiNet: Eigenvector-Based CSI Feedback Under 3GPP Link-Level Channels. IEEE Wireless Communications Letters, 2021, 10, 2688-2692.	3.2	12
48	Reconfigurable Intelligent Surface-Assisted Multi-Cell MISO Communication Systems Exploiting Statistical CSI. IEEE Wireless Communications Letters, 2021, 10, 2313-2317.	3.2	21
49	MIMO Dual-Polarized Channel Extrapolation: From Theory to Experiment. , 2021, , .		2
50	A wireless communication scheme based on space- and frequency-division multiplexing using digital metasurfaces. Nature Electronics, 2021, 4, 218-227.	13.1	224
51	Wireless Communication Based on Information Metasurfaces. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1493-1510.	2.9	77
52	Passive Beamforming Design for Reconfigurable Intelligent Surface-aided OFDM: A Fractional Programming Based Approach. , 2021, , .		3
53	Designing Tensor-Train Deep Neural Networks For Time-Varying MIMO Channel Estimation. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 759-773.	7.3	14
54	Dynamic Metasurface Antennas for MIMO-OFDM Receivers With Bit-Limited ADCs. IEEE Transactions on Communications, 2021, 69, 2643-2659.	4.9	26

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55	Integrated communication and localization in millimeter-wave systems. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 457-470.	1.5	8
56	Hybrid Beamforming for mmWave MU-MISO Systems Exploiting Multi-Agent Deep Reinforcement Learning. IEEE Wireless Communications Letters, 2021, 10, 1046-1050.	3.2	11
57	Communication and Localization With Extremely Large Lens Antenna Array. IEEE Transactions on Wireless Communications, 2021, 20, 3031-3048.	6.1	22
58	Spatiotemporal Modeling of Massive MIMO Systems With Mixed-Type IoT Devices: Scheduling Optimization With Delay Constraints. IEEE Internet of Things Journal, 2021, 8, 10146-10159.	5.5	5
59	Tensor-Based Algebraic Channel Estimation for Hybrid IRS-Assisted MIMO-OFDM. IEEE Transactions on Wireless Communications, 2021, 20, 3770-3784.	6.1	40
60	Blockchain Storage and Computation Offloading for Cooperative Mobile-Edge Computing. IEEE Internet of Things Journal, 2021, 8, 9084-9098.	5.5	30
61	Analysis and Optimization of Local Delay for Cache-Enabled Networks with Random DTX. , 2021, , .		0
62	Deep learning based user scheduling for massive MIMO downlink system. Science China Information Sciences, 2021, 64, 1.	2.7	9
63	Joint Transmit Beamforming and Phase Shift Design for Reconfigurable Intelligent Surface Assisted MIMO Systems. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 354-368.	4.9	48
64	Model-Driven Deep Learning-Based Signal Detector for CP-Free MIMO-OFDM Systems. , 2021, , .		4
65	Highâ€Efficiency Spatialâ€Wave Frequency Multiplication Using Strongly Nonlinear Metasurface. Advanced Science, 2021, 8, e2101212.	5.6	18
66	Wireless Communication with Extremely Large-Scale Intelligent Reflecting Surface. , 2021, , .		14
67	Deep Learning-Based CSI Feedback for Beamforming in Single- and Multi-Cell Massive MIMO Systems. IEEE Journal on Selected Areas in Communications, 2021, 39, 1872-1884.	9.7	46
68	Aerial Intelligent Reflecting Surface: Joint Placement and Passive Beamforming Design With 3D Beam Flattening. IEEE Transactions on Wireless Communications, 2021, 20, 4128-4143.	6.1	148
69	Simultaneous Navigation and Radio Mapping for Cellular-Connected UAV With Deep Reinforcement Learning. IEEE Transactions on Wireless Communications, 2021, 20, 4205-4220.	6.1	81
70	Lightweight Convolutional Neural Networks for CSI Feedback in Massive MIMO. IEEE Communications Letters, 2021, 25, 2624-2628.	2.5	28
71	Model-Based Learning Network for 3-D Localization in mmWave Communications. IEEE Transactions on Wireless Communications, 2021, 20, 5449-5466.	6.1	12
72	Interplay Between RIS and AI in Wireless Communications: Fundamentals, Architectures, Applications, and Open Research Problems. IEEE Journal on Selected Areas in Communications, 2021, 39, 2271-2288.	9.7	25

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73	Multiuser joint downlink channel reconstruction based on spatial consistency. Physical Communication, 2021, 47, 101387.	1.2	0
74	Wireless Energy Transfer in Extra-Large Massive MIMO Rician Channels. IEEE Transactions on Wireless Communications, 2021, 20, 5628-5641.	6.1	3
75	Large System Achievable Rate Analysis of RIS-Assisted MIMO Wireless Communication With Statistical CSIT. IEEE Transactions on Wireless Communications, 2021, 20, 5572-5585.	6.1	56
76	Dual CNN-Based Channel Estimation for MIMO-OFDM Systems. IEEE Transactions on Communications, 2021, 69, 5859-5872.	4.9	35
77	3-D Deployment of UAV Swarm for Massive MIMO Communications. IEEE Journal on Selected Areas in Communications, 2021, 39, 3022-3034.	9.7	21
78	AI-Aided Online Adaptive OFDM Receiver: Design and Experimental Results. IEEE Transactions on Wireless Communications, 2021, 20, 7655-7668.	6.1	22
79	Multi-Domain Channel Extrapolation for FDD Massive MIMO Systems. IEEE Transactions on Communications, 2021, 69, 8534-8550.	4.9	1
80	Computation Offloading in Untrusted MEC-Aided Mobile Blockchain IoT Systems. IEEE Transactions on Wireless Communications, 2021, 20, 8333-8347.	6.1	19
81	Solving Sparse Linear Inverse Problems in Communication Systems: A Deep Learning Approach With Adaptive Depth. IEEE Journal on Selected Areas in Communications, 2021, 39, 4-17.	9.7	14
82	Asymmetrical Uplink and Downlink Transceivers in Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2021, 70, 11632-11647.	3.9	7
83	Phase Retrieval Using Expectation Consistent Signal Recovery Algorithm Based on Hypernetwork. IEEE Transactions on Signal Processing, 2021, 69, 5770-5783.	3.2	7
84	CSI-based Simultaneous Location and Velocity Estimation in mmWave Systems. , 2021, , .		0
85	A Low Complexity Expectation Propagation Detector for Extra-Large Scale Massive MIMO. , 2021, , .		2
86	An Efficient Precoding Algorithm for Reconfigurable Intelligent Surface-Based MIMO Communications. , 2021, , .		2
87	AI enlightens wireless communication: Analyses, solutions and opportunities on CSI feedback. China Communications, 2021, 18, 104-116.	2.0	10
88	Computation Offloading and User Association for Blockchain-Enabled Heterogeneous Cellular Networks. , 2021, , .		3
89	AI-enhanced Codebook-based CSI Feedback in FDD Massive MIMO. , 2021, , .		2
90	Reconfigurable Intelligent Surface-Enhanced Broadband OFDM Communication Based on Deep Reinforcement Learning. , 2021, , .		6

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91	Knowledge-distillation-aided Lightweight Neural Network for Massive MIMO CSI Feedback. , 2021, , .		5
92	On Channel Reciprocity in Reconfigurable Intelligent Surface Assisted Wireless Networks. IEEE Wireless Communications, 2021, 28, 94-101.	6.6	41
93	Environment-Aware Beam Selection for IRS-Aided Communication with Channel Knowledge Map. , 2021, , .		5
94	Channel Estimation for Extremely Large-Scale Massive MIMO Systems. IEEE Wireless Communications Letters, 2020, 9, 633-637.	3.2	75
95	Fast Beam Training Architecture for Hybrid mmWave Transceivers. IEEE Transactions on Vehicular Technology, 2020, 69, 2700-2715.	3.9	18
96	Expectation Propagation Detector for Extra-Large Scale Massive MIMO. IEEE Transactions on Wireless Communications, 2020, 19, 2036-2051.	6.1	35
97	Toward Massive Connectivity for IoT in Mixed-ADC Distributed Massive MIMO. IEEE Internet of Things Journal, 2020, 7, 1841-1856.	5.5	24
98	Realization of Multi-Modulation Schemes for Wireless Communication by Time-Domain Digital Coding Metasurface. IEEE Transactions on Antennas and Propagation, 2020, 68, 1618-1627.	3.1	105
99	Anti-Intelligent UAV Jamming Strategy via Deep Q-Networks. IEEE Transactions on Communications, 2020, 68, 569-581.	4.9	43
100	Grid-Less Variational Bayesian Channel Estimation for Antenna Array Systems With Low Resolution ADCs. IEEE Transactions on Wireless Communications, 2020, 19, 1549-1562.	6.1	14
101	Efficient Hardware for Generalized Turbo Signal Recovery in Compressed Sensing. IEEE Transactions on Vehicular Technology, 2020, 69, 1245-1256.	3.9	0
102	Sparse array of sub-surface aided blockage-free multi-user mmWave communication systems. Digital Communications and Networks, 2020, 6, 292-303.	2.7	7
103	The interplay between artificial intelligence and fog radio access networks. China Communications, 2020, 17, 1-13.	2.0	7
104	Arbitrary manipulations of dual harmonics and their wave behaviors based on space-time-coding digital metasurface. Applied Physics Reviews, 2020, 7, .	5.5	36
105	3D Scene-Based Beam Selection for mmWave Communications. IEEE Wireless Communications Letters, 2020, 9, 1850-1854.	3.2	44
106	Joint Channel Estimation and Localization for Cooperative Millimeter Wave Systems. , 2020, , .		4
107	Design and Implementation of MIMO Transmission through Reconfigurable Intelligent Surface. , 2020, , .		9
108	Transmitter Design for Large Intelligent Surface-Assisted MIMO Wireless Communication with Statistical CSI. , 2020, , .		12

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109	Analysis and Optimization of Random Caching in mmWave Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 10140-10154.	3.9	12
110	Model-Driven DNN Decoder for Turbo Codes: Design, Simulation, and Experimental Results. IEEE Transactions on Communications, 2020, 68, 6127-6140.	4.9	11
111	Fast Antenna and Beam Switching Method for mmWave Handsets with Multiple Subarrays. , 2020, , .		2
112	Deep Learning-Based FDD Non-Stationary Massive MIMO Downlink Channel Reconstruction. IEEE Journal on Selected Areas in Communications, 2020, 38, 1980-1993.	9.7	25
113	Model-Driven Deep Learning for Massive Multiuser MIMO Constant Envelope Precoding. IEEE Wireless Communications Letters, 2020, 9, 1835-1839.	3.2	8
114	Compression and Acceleration of Neural Networks for Communications. IEEE Wireless Communications, 2020, 27, 110-117.	6.6	40
115	Enabling Panoramic Full-Angle Reflection Via Aerial Intelligent Reflecting Surface. , 2020, , .		56
116	Adversarial attack on DL-based massive MIMO CSI feedback. Journal of Communications and Networks, 2020, 22, 230-235.	1.8	26
117	Distributive Throughput Optimization for Massive Random Access of M2M Communications in LTE Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 11828-11840.	3.9	11
118	Federated Learning With Differential Privacy: Algorithms and Performance Analysis. IEEE Transactions on Information Forensics and Security, 2020, 15, 3454-3469.	4.5	773
119	Highâ€Efficiency Synthesizer for Spatial Waves Based on Spaceâ€Timeâ€Coding Digital Metasurface. Laser and Photonics Reviews, 2020, 14, 1900133.	4.4	63
120	Phase Retrieval With Learning Unfolded Expectation Consistent Signal Recovery Algorithm. IEEE Signal Processing Letters, 2020, 27, 780-784.	2.1	6
121	Angle-Dependent Phase Shifter Model for Reconfigurable Intelligent Surfaces: Does the Angle-Reciprocity Hold?. IEEE Communications Letters, 2020, 24, 2060-2064.	2.5	35
122	Traffic-Aware Two-Stage Queueing Communication Networks: Queue Analysis and Energy Saving. IEEE Transactions on Communications, 2020, 68, 4919-4932.	4.9	16
123	PrecoderNet: Hybrid Beamforming for Millimeter Wave Systems With Deep Reinforcement Learning. IEEE Wireless Communications Letters, 2020, 9, 1677-1681.	3.2	51
124	On Uplink Performance of Multiuser Massive MIMO Relay Network With Limited RF Chains. IEEE Transactions on Vehicular Technology, 2020, 69, 8670-8683.	3.9	7
125	Transmission Scheme and Performance Analysis of Multi-Cell Decoupled Heterogeneous Networks. IEEE Transactions on Communications, 2020, 68, 4423-4436.	4.9	7
126	Analog Versus Hybrid Precoding for Multiuser Massive MIMO With Quantized CSI Feedback. IEEE Communications Letters, 2020, 24, 2319-2323.	2.5	13

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127	Robot-Assisted Backscatter Localization for IoT Applications. IEEE Transactions on Wireless Communications, 2020, 19, 5807-5818.	6.1	16
128	Model-Driven Deep Learning for Massive MU-MIMO With Finite-Alphabet Precoding. IEEE Communications Letters, 2020, 24, 2216-2220.	2.5	13
129	Dynamic Metasurface Antennas for Bit-Constrained MIMO-OFDM Receivers. , 2020, , .		1
130	Enhancing Physical Layer Security of Random Caching in Large-Scale Multi-Antenna Heterogeneous Wireless Networks. IEEE Transactions on Information Forensics and Security, 2020, 15, 2840-2855.	4.5	9
131	Decentralized Expectation Consistent Signal Recovery for Phase Retrieval. IEEE Transactions on Signal Processing, 2020, 68, 1484-1499.	3.2	11
132	Analysis and Optimization of Cache-Enabled Fog Radio Access Networks: Successful Transmission Probability, Fractional Offloaded Traffic and Delay. IEEE Transactions on Vehicular Technology, 2020, 69, 5219-5231.	3.9	20
133	Wireless Communications with Programmable Metasurface: New Paradigms, Opportunities, and Challenges on Transceiver Design. IEEE Wireless Communications, 2020, 27, 180-187.	6.6	183
134	Bayes-Optimal MMSE Detector for Massive MIMO Relaying With Low-Precision ADCs/DACs. IEEE Transactions on Signal Processing, 2020, 68, 3341-3357.	3.2	5
135	Data-Limited Modulation Classification With a CVAE-Enhanced Learning Model. IEEE Communications Letters, 2020, 24, 2191-2195.	2.5	8
136	Graph Coloring Based Pilot Assignment for Cell-Free Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 9180-9184.	3.9	67
137	Massive MIMO Networks With Spatio-Temporal Traffic: Scheduling Mechanism Optimization. IEEE Communications Letters, 2020, 24, 2339-2343.	2.5	5
138	Joint Optimal Software Caching, Computation Offloading and Communications Resource Allocation for Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2020, 69, 7879-7894.	3.9	56
139	Deep Learning Based Fast Downlink Channel Reconstruction For FDD Massive MIMO Systems. , 2020, , .		1
140	Channel Estimation and Indoor Positioning for Wideband Multiuser Millimeter Wave Systems. , 2020, , .		2
141	MIMO Detection for Reconfigurable Intelligent Surface-Assisted Millimeter Wave Systems. IEEE Journal on Selected Areas in Communications, 2020, 38, 1777-1792.	9.7	46
142	MIMO Transmission Through Reconfigurable Intelligent Surface: System Design, Analysis, and Implementation. IEEE Journal on Selected Areas in Communications, 2020, 38, 2683-2699.	9.7	242
143	User grouping and scheduling for dualâ€layer beamforming downlink FDâ€MIMO systems. Electronics Letters, 2020, 56, 162-165.	0.5	1
144	Model-Driven Deep Learning for MIMO Detection. IEEE Transactions on Signal Processing, 2020, 68, 1702-1715.	3.2	204

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145	Mobile Edge Cloud-Based Industrial Internet of Things: Improving Edge Intelligence With Hierarchical SDN Controllers. IEEE Vehicular Technology Magazine, 2020, 15, 36-45.	2.8	27
146	FFR Based Joint 3D Beamforming Interference Coordination for Multi-Cell FD-MIMO Downlink Transmission Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 3105-3118.	3.9	19
147	Bit-Level Optimized Neural Network for Multi-Antenna Channel Quantization. IEEE Wireless Communications Letters, 2020, 9, 87-90.	3.2	37
148	Location-Based MIMO-NOMA: Multiple Access Regions and Low-Complexity User Pairing. IEEE Transactions on Communications, 2020, 68, 2293-2307.	4.9	17
149	Convolutional Neural Network-Based Multiple-Rate Compressive Sensing for Massive MIMO CSI Feedback: Design, Simulation, and Analysis. IEEE Transactions on Wireless Communications, 2020, 19, 2827-2840.	6.1	163
150	Decentralized expected consistent signal recovery for quantization Measurements. , 2020, , .		1
151	Tensor-Based Channel Estimation for Millimeter Wave MIMO-OFDM With Dual-Wideband Effects. IEEE Transactions on Communications, 2020, 68, 4218-4232.	4.9	40
152	Computation Resource Allocation in Mobile Blockchain-enabled Edge Computing Networks. , 2020, , .		5
153	On the Uplink Transmission of Extra-Large Scale Massive MIMO Systems. IEEE Transactions on Vehicular Technology, 2020, 69, 15229-15243.	3.9	15
154	Sparse Array of Sub-surface Aided Anti-blockage mmWave Communication Systems. , 2020, , .		2
155	Realization of Reconfigurable Intelligent Surface-Based Alamouti Space-Time Transmission. , 2020, , .		11
156	Maximum Ergodic Spectral Efficiency of Reconfigurable Intelligent Surface Assisted MIMO Systems under Correlated Channels. , 2020, , .		0
157	Scheduling Optimization for Mixed-type Devices of IoT in Massive MIMO Systems with Spatio-Temporal Traffic. , 2020, , .		0
158	IoT Communications With <inline-formula> <tex-math notation="LaTeX">M </tex-math> </inline-formula>-PSK Modulated Ambient Backscatter: Algorithm, Analysis, and Implementation. IEEE Internet of Things Journal, 2019, 6, 844-855.	5.5	67
159	Sparse Bayesian Learning for the Time-Varying Massive MIMO Channels: Acquisition and Tracking. IEEE Transactions on Communications, 2019, 67, 1925-1938.	4.9	130
160	Angular domain precoding-based PAPR reduction for massive MIMO systems. Science China Information Sciences, 2019, 62, 1.	2.7	1
161	Throughput Optimization With Delay Guarantee for Massive Random Access of M2M Communications in Industrial IoT. IEEE Internet of Things Journal, 2019, 6, 10077-10092.	5.5	30
162	OFDM-Clipped Signal Recovery and Learning Using Gaussian Mixture GTurbo Approach. IEEE Wireless Communications Letters, 2019, 8, 1533-1536.	3.2	6

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163	Large Intelligent Surface-Assisted Wireless Communication Exploiting Statistical CSI. IEEE Transactions on Vehicular Technology, 2019, 68, 8238-8242.	3.9	537
164	Dynamic Power Control for NOMA Transmissions in Wireless Caching Networks. IEEE Wireless Communications Letters, 2019, 8, 1485-1488.	3.2	41
165	Expanded Compute-and-Forward for Backhaul-Limited Cell-Free Massive MIMO. , 2019, , .		5
166	An Overview of Enhanced Massive MIMO With Array Signal Processing Techniques. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 886-901.	7.3	104
167	Capacity Analysis and Scheduling for Distributed LIS-aided Large-Scale Antenna Systems. , 2019, , .		3
168	Channel Estimation for Cell-Free mmWave Massive MIMO Through Deep Learning. IEEE Transactions on Vehicular Technology, 2019, 68, 10325-10329.	3.9	124
169	Joint Uplink/Downlink Sub-Channel, Bit and Time Allocation for Multi-Access Edge Computing. IEEE Communications Letters, 2019, 23, 1811-1815.	2.5	19
170	Dynamic Metasurface Antennas Based Downlink Massive MIMO Systems. , 2019, , .		13
171	On the Ergodic Capacity of mmWave Systems Under Finite-Dimensional Channels. IEEE Transactions on Wireless Communications, 2019, 18, 5440-5453.	6.1	7
172	On the Uplink Achievable Rate of Massive MIMO System with Low-Resolution ADC and RF Impairments. IEEE Communications Letters, 2019, 23, 502-505.	2.5	43
173	Reliable OFDM Receiver With Ultra-Low Resolution ADC. IEEE Transactions on Communications, 2019, 67, 3566-3579.	4.9	22
174	Completion Time and Energy Consumption Minimization for UAV-Enabled Multicasting. IEEE Wireless Communications Letters, 2019, 8, 821-824.	3.2	39
175	Model-Driven Deep Learning for Physical Layer Communications. IEEE Wireless Communications, 2019, 26, 77-83.	6.6	271
176	Angle-Domain Aided UL/DL Channel Estimation for Wideband mmWave Massive MIMO Systems With Beam Squint. IEEE Transactions on Wireless Communications, 2019, 18, 3515-3527.	6.1	44
177	Artificial Intelligence-Aided Receiver for a CP-Free OFDM System: Design, Simulation, and Experimental Test. IEEE Access, 2019, 7, 58901-58914.	2.6	34
178	Achievable Rate and Capacity Analysis for Ambient Backscatter Communications. IEEE Transactions on Communications, 2019, 67, 6299-6310.	4.9	21
179	Deep Learning Based on Orthogonal Approximate Message Passing for CP-Free OFDM. , 2019, , .		19
180	Programmable metasurfaceâ€based RF chainâ€free 8PSK wireless transmitter. Electronics Letters, 2019, 55, 417-420.	0.5	121

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181	The Future of Wireless?. Electronics Letters, 2019, 55, 360-361.	0.5	15
182	Efficient Downlink Channel Reconstruction for FDD Multi-Antenna Systems. IEEE Transactions on Wireless Communications, 2019, 18, 3161-3176.	6.1	72
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