

Jianping An

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.

135
papers

1,220
citations

17
h-index

30
g-index

185
ext. papers

1,602
ext. citations

5.8
avg, IF

5.35
L-index

#	Paper	IF	Citations
135	Covert Communication in Ambient Backscatter Systems with Uncontrollable RF Source. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	2
134	Predictive decision and reliable accessing for UAV communication in space-air-ground integrated networks. <i>China Communications</i> , 2022 , 19, 166-185	3	1
133	Joint Hybrid and Passive RIS-Assisted Beamforming for MmWave MIMO Systems Relying on Dynamically Configured Subarrays. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1	10.7	1
132	Joint Device Detection, Channel Estimation, and Data Decoding with Collision Resolution for MIMO Massive Unsourced Random Access. <i>IEEE Journal on Selected Areas in Communications</i> , 2022 , 1-1	14.2	3
131	Cluster-Based Multi-Carrier Hybrid Beamforming for Massive Device Terahertz Communications. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	2
130	Noise and Conversion Analyses for High-Tc Superconducting Harmonic Mixers: Theoretical Modeling and Experimental Verification. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2022 , 1-1	3.4	
129	Let's Work Together: Cooperative Beamforming for UAV Anti-Jamming in Space-Air-Ground Networks. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1	10.7	1
128	Training Beam Design for Channel Estimation in Hybrid mmWave MIMO Systems. <i>IEEE Transactions on Wireless Communications</i> , 2022 , 1-1	9.6	0
127	Robust Channel Estimation for RIS-Aided Millimeter-Wave System with RIS Blockage. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	1
126	Massive Unsourced Random Access: Exploiting Angular Domain Sparsity. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	2
125	Near-Nyquist-Limit Optical Communication and Ranging Method Based on Waveform Matched PPM. <i>Electronics (Switzerland)</i> , 2022 , 11, 565	2.6	
124	Latency versus Reliability in LEO Mega-Constellations: Terrestrial, Aerial, or Space Relay. <i>IEEE Transactions on Mobile Computing</i> , 2022 , 1-1	4.6	2
123	Joint Bayesian Channel Estimation and Data Detection for OTFS Systems in LEO Satellite Communications. <i>IEEE Transactions on Communications</i> , 2022 , 1-1	6.9	0
122	Modeling and analysis of a high-Tc superconducting polarization-manipulating single-sideband mixer for terahertz communications. <i>Journal of Applied Physics</i> , 2021 , 130, 173903	2.5	0
121	The effects of nonlinear thermal fluctuation and series junction array on high-T c superconducting terahertz mixer performance. <i>Superconductor Science and Technology</i> , 2021 , 34, 015005	3.1	2
120	Throughput Maximization for Asynchronous RIS-Aided Hybrid Powered Communication Networks. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	1
119	Joint Diagnosis of RIS and BS for RIS-Aided Millimeter-Wave System. <i>Electronics (Switzerland)</i> , 2021 , 10, 2556	2.6	

118	Multi-User Hybrid Beamforming Design for Physical Layer Secured mmWave LOS Communications. <i>Electronics (Switzerland)</i> , 2021 , 10, 2635	2.6	1
117	An overview of protected satellite communications in intelligent age. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	1
116	Hybrid precoding for cluster-based multi-carrier beam division multiple access in terahertz wireless communications. <i>China Communications</i> , 2021 , 18, 81-92	3	1
115	Beamforming Optimization for Intelligent Reflecting Surface-Aided SWIPT IoT Networks Relying on Discrete Phase Shifts. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 8585-8602	10.7	24
114	Wideband Beamforming for Hybrid Massive MIMO Terahertz Communications. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 1725-1740	14.2	19
113	Low-Density Parity-Check Coded Direct Sequence Spread Spectrum Receiver Based on Analog Probabilistic Processing. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 6355-6370	6.8	1
112	Dynamic Hybrid Precoding Relying on Twin-Resolution Phase Shifters in Millimeter-Wave Communication Systems. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 20, 812-826	9.6	3
111	Deep Multimodal Learning: Merging Sensory Data for Massive MIMO Channel Prediction. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 1885-1898	14.2	5
110	Stabilizing Frame Slotted Aloha-Based IoT Systems: A Geometric Ergodicity Perspective. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 714-725	14.2	8
109	Weighted Sum Rate Maximization of the mmWave Cell-Free MIMO Downlink Relying on Hybrid Precoding. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	2
108	Training Optimization for Subarray Based IRS-Assisted MIMO Communications. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	3
107	Computation-Communication Trade-offs for Missing Multi-tagged Item Detection in RFID Networks. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	0
106	Time- and Frequency-Interleaving: Distinctions and Connections. <i>IEEE Transactions on Signal Processing</i> , 2021 , 69, 2555-2568	4.8	2
105	Throughput Maximization for Intelligent Reflecting Surface Aided MIMO WPCNs With Different DL/UL Reflection Patterns. <i>IEEE Transactions on Signal Processing</i> , 2021 , 69, 2706-2724	4.8	13
104	Wideband Channel Estimation for IRS-Aided Systems in the Face of Beam Squint. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	14
103	An MPSK Millimeter-Wave Point-to-Point Link With Radio Over Fiber Synchronous Baseband Receiver. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	1
102	Low-Complexity Adaptive Optics Aided Orbital Angular Momentum Based Wireless Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 70, 7812-7824	6.8	3
101	Hybrid LMMSE Transceiver Optimization for Distributed IoT Sensing Networks With Different Levels of Synchronization. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 14458-14470	10.7	

100	Cooperative Scheme for Backscatter-Aided Passive Relay Communications in Wireless-Powered D2D Networks. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	6
99	QA2: QoS-Guaranteed Access Assistance for Space-Air-Ground Internet of Vehicle Networks. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	0
98	Unified IRS-Aided MIMO Transceiver Designs via Majorization Theory. <i>IEEE Transactions on Signal Processing</i> , 2021 , 69, 3016-3032	4.8	9
97	ADGAN: A Scalable GAN-based Architecture for Image Anomaly Detection 2020 ,		2
96	On Fast and Reliable Missing Event Detection Protocol for Multitagged RFID Systems. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 10324-10335	10.7	1
95	On the Secrecy of UAV Systems With Linear Trajectory. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 6277-6288	9.6	11
94	Frequency-Interleaved ADCs With Adaptive Blind Cyclic Calibration. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 9427-9440	5.2	5
93	Antenna Array Diagnosis for Millimeter-Wave MIMO Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 4585-4589	6.8	7
92	Network for hypersonic UCAV swarms. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	10
91	Optimal Duplex Mode Selection for D2D-Aided Underlying Cellular Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 3119-3134	6.8	12
90	Mining Mobile Intelligence for Wireless Systems: A Deep Neural Network Approach. <i>IEEE Computational Intelligence Magazine</i> , 2020 , 15, 24-31	5.6	30
89	Energy-Efficient Channel Estimation. <i>IEEE Access</i> , 2020 , 8, 9702-9714	3.5	
88	Energy-Efficient Base Station Association and Beamforming for Multi-Cell Multiuser Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 2841-2854	9.6	28
87	Adaptive Bitrate Streaming in Wireless Networks With Transcoding at Network Edge Using Deep Reinforcement Learning. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 3879-3892	6.8	21
86	Optimum Combining for Coherent FFH/DS Spread Spectrum Receivers in the Presence of Multi-Tone Jammer. <i>IEEE Access</i> , 2020 , 8, 53097-53106	3.5	4
85	A 16 × 6-Element Slot Array Fed by Double-Layered Gap Waveguide Distribution Network at 160 GHz. <i>IEEE Access</i> , 2020 , 8, 55372-55382	3.5	2
84	Resource Allocation for Secure Multi-UAV Communication Systems With Multi-Eavesdropper. <i>IEEE Transactions on Communications</i> , 2020 , 68, 4490-4506	6.9	22
83	Analysis on the Number of Linear Regions of Piecewise Linear Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , PP,	10.3	2

82	OFDM Radar Range Accuracy Enhancement Using Fractional Fourier Transformation and Phase Analysis Techniques. <i>IEEE Sensors Journal</i> , 2020 , 20, 1011-1018	4	4
81	Estimation of Multiple Angle-of-Arrivals With Localized Hybrid Subarrays for Millimeter Wave Systems. <i>IEEE Transactions on Communications</i> , 2020 , 68, 1897-1910	6.9	3
80	Concurrent Multipath Routing Optimization in Named Data Networks. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 1451-1463	10.7	5
79	Micrometer Accuracy Phase Modulated Radar for Distance Measurement and Monitoring. <i>IEEE Sensors Journal</i> , 2020 , 20, 2919-2927	4	4
78	Hybrid Precoder Design With Minimum-Subspace-Distortion Quantization in Multiuser mmWave Communications. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 11055-11065	6.8	3
77	Joint angle delay estimation in terahertz large-scale array system. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	1
76	A Coalition Game for Backscatter-Aided Passive Relay Communications in Wireless-Powered D2D Networks 2020 ,		1
75	Hybrid Beamforming for Terahertz Multi-Carrier Systems Over Frequency Selective Fading. <i>IEEE Transactions on Communications</i> , 2020 , 68, 6186-6199	6.9	32
74	Low-Complexity Subarray-Based RF Precoding for Wideband Multiuser Millimeter Wave Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 1-1	6.8	1
73	Secure Cooperative Hybrid VLC-RF Systems. <i>IEEE Transactions on Wireless Communications</i> , 2020 , 19, 7097-7107	9.6	7
72	Enabling Massive Connections Using Hybrid Beamforming in Terahertz Micro-Scale Networks 2020 ,		8
71	Parameter Estimation and Signal Optimization for Joint Communication and Radar Sensing 2020 ,		5
70	An Inhomogeneous Background Imaging Method Based on Generative Adversarial Network. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 4684-4693	4.1	20
69	Synthesis-free directional modulation for retrodirective frequency diverse array. <i>Science China Information Sciences</i> , 2020 , 63, 1	3.4	0
68	Deep Learning Based Power Allocation for Workload Driven Full-Duplex D2D-Aided Underlying Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 15880-15892	6.8	4
67	Contract Design for Time Resource Assignment and Pricing in Backscatter-Assisted RF-Powered Networks. <i>IEEE Wireless Communications Letters</i> , 2020 , 9, 42-46	5.9	30
66	Compressive Sensing Based Radio Tomographic Imaging with Spatial Diversity. <i>Sensors</i> , 2019 , 19,	3.8	16
65	A Compressive Sensing-Based Dynamic Estimation Algorithm in Unified Laser TTC System. <i>IEEE Access</i> , 2019 , 7, 29963-29972	3.5	

64	An Active Power Control Technique for Downlink Interference Management in a Two-Tier Macro-Femto Network. <i>Sensors</i> , 2019 , 19,	3.8	6
63	A Dual-Antenna Collaborative Communication Strategy for Flying Ad Hoc Networks. <i>IEEE Communications Letters</i> , 2019 , 23, 913-917	3.8	5
62	Buffer-Aware Streaming in Small-Scale Wireless Networks: A Deep Reinforcement Learning Approach. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 6891-6902	6.8	15
61	Auction-Based Time Scheduling for Backscatter-Aided RF-Powered Cognitive Radio Networks. <i>IEEE Transactions on Wireless Communications</i> , 2019 , 18, 1684-1697	9.6	82
60	Power Allocation for Energy Harvesting Wireless Communications With Energy State Information. <i>IEEE Wireless Communications Letters</i> , 2019 , 8, 201-204	5.9	3
59	A Synchronous Baseband Receiver for High-Data-Rate Millimeter-Wave Communication Systems. <i>IEEE Microwave and Wireless Components Letters</i> , 2019 , 29, 412-414	2.6	3
58	Beam Selection for Wideband Millimeter Wave MIMO Relying on Lens Antenna Arrays. <i>IEEE Communications Letters</i> , 2019 , 23, 1875-1878	3.8	12
57	Channel Estimation for Orthogonal Time Frequency Space (OTFS) Massive MIMO. <i>IEEE Transactions on Signal Processing</i> , 2019 , 67, 4204-4217	4.8	74
56	Optimization for HTTP Adaptive Video Streaming in UAV-Enabled Relaying System 2019 ,		3
55	Filtering wideband slot antenna using split-ring resonator. <i>IEICE Electronics Express</i> , 2019 , 16, 20190647-20190647		3
54	Low Complexity DSSS Acquisition Method of LEO Satellite Communication ASIC 2019 ,		1
53	Low Complexity Hybrid Precoding for Multiuser Millimeter Wave Systems Over Frequency Selective Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2019 , 68, 983-987	6.8	30
52	Resource Allocation Robust to Traffic and Channel Variations in Multihop Wireless Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 7861-7866	6.8	1
51	Optimal Node Placement and Resource Allocation for UAV Relaying Network. <i>IEEE Communications Letters</i> , 2018 , 22, 808-811	3.8	99
50	Dynamic Spectrum Leasing With Two Sellers. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 4852-4856	4.8	5
49	Optimal Training Design for MIMO Systems With General Power Constraints. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 3649-3664	4.8	12
48	Resource Allocation in Cognitive Underlay System With Uncertain Interference Channel Statistics. <i>IEEE Communications Letters</i> , 2018 , 22, 1022-1025	3.8	2
47	NOMA-Based Calibration for Large-Scale Spaceborne Antenna Arrays. <i>IEEE Transactions on Vehicular Technology</i> , 2018 , 67, 2231-2242	6.8	7

46	Interference Management in Femtocells by the Adaptive Network Sensing Power Control Technique. <i>Future Internet</i> , 2018 , 10, 25	3.3	4
45	Hybrid Beamforming for MIMO-OFDM Terahertz Wireless Systems over Frequency Selective Channels 2018 ,		15
44	Experimental Verification: Enabling Obstacle Mapping Based On Radio Tomographic Imaging 2018 ,		3
43	Joint Trajectory and Resource Allocation Design for UAV Communication Systems 2018 ,		17
42	An Auction-Based Time Scheduling Mechanism for Backscatter-Aided RF-Powered Cognitive Radio Networks 2018 ,		1
41	Fast and Accurate Near-Field Calibration Method for Phased Array Antennas 2018 ,		1
40	Direction of Arrival Estimation Using Augmentation of Coprime Arrays. <i>Information (Switzerland)</i> , 2018 , 9, 277	2.6	1
39	Energy-Efficient User Scheduling and Power Control for Multi-Cell OFDMA Networks Based on Channel Distribution Information. <i>IEEE Transactions on Signal Processing</i> , 2018 , 66, 5848-5861	4.8	16
38	Bayesian Device-Free Localization and Tracking in a Binary RF Sensor Network. <i>Sensors</i> , 2017 , 17,	3.8	9
37	Design, Simulation, and Implementation of a CMOS Analog Decoder for (480,240) Low-Density Parity-Check Code. <i>IEEE Access</i> , 2017 , 5, 17381-17391	3.5	4
36	Achieving Sustainable Ultra-Dense Heterogeneous Networks for 5G 2017 , 55, 84-90		166
35	Fairness-aware energy-efficient power control scheme for D2D communications underlying cellular networks 2017 ,		1
34	Calibration for spaceborne phased array antennas without interrupting satellite communications 2017 ,		2
33	Energy-Efficient Resource Allocation and Power Control for Downlink Multi-Cell OFDMA Networks 2017 ,		6
32	Secure Space-Time Communications Over Rayleigh Flat Fading Channels. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 1491-1504	9.6	8
31	Robust Power and Bandwidth Allocation in Cognitive Radio System With Uncertain Distributional Interference Channels. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 7160-7173	9.6	10
30	Adaptive channel selection and slot length configuration in cognitive radio. <i>Wireless Communications and Mobile Computing</i> , 2016 , 16, 2636-2648	1.9	1
29	Linear Physical-Layer Network Coding and Information Combining for the $\mathbb{K}\mathbb{K}$ -User Fading Multiple-Access Relay Network. <i>IEEE Transactions on Wireless Communications</i> , 2016 , 15, 5637-5650	9.6	10

28	Dynamic Pricing Over Multiple Rounds of Spectrum Leasing in Cognitive Radio. <i>IEEE Transactions on Vehicular Technology</i> , 2016 , 65, 1782-1789	6.8	9
27	Shadow fading assisted device-free localization for indoor environments 2016 ,		4
26	Multiuser Decoding Scheme for K -user Fading Multiple-Access Channel Based on Physical-Layer Network Coding. <i>IEEE Communications Letters</i> , 2016 , 20, 1046-1049	3.8	7
25	A Hardware Efficient Implementation of a Digital Baseband Receiver for High-Capacity Millimeter-Wave Radios. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 1683-1692	4.1	4
24	A Diffraction Measurement Model and Particle Filter Tracking Method for RSS-Based DFL. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 2391-2403	14.2	38
23	Design of non-binary irregular repeat-accumulate codes for reliable physical-layer network coding 2015 ,		1
22	Radar waveform design and multi-target detection in vehicular applications 2015 ,		2
21	Multi-metrics Restricts on MPRs over Standard OLSR 2015 ,		1
20	Under-sampling spectrum-sparse signals based on active aliasing for low probability detection. <i>Security and Communication Networks</i> , 2015 , 8, 4087-4097	1.9	1
19	Achieving the Near-Capacity of Two-Way Relay Channels With Modulation-Coded Physical-Layer Network Coding. <i>IEEE Transactions on Wireless Communications</i> , 2015 , 14, 5225-5239	9.6	31
18	An improved CoSaMP sparse channel estimation algorithm in OFDM system 2015 ,		2
17	An improved ROMP sparse channel estimation algorithm in OFDM system 2015 ,		2
16	Compressed Receiver for Multipath DSSS Signals. <i>IEEE Communications Letters</i> , 2014 , 18, 1359-1362	3.8	5
15	Irregular repeat-accumulate coded physical-layer network coding design for two-way relay channels 2014 ,		1
14	Joint Timing and Channel Estimation for Bandlimited Long-Code-Based MC-DS-CDMA: A Low-Complexity Near-Optimal Algorithm and the CRLB. <i>IEEE Transactions on Communications</i> , 2013 , 61, 1998-2011	6.9	6
13	Rateless codes aided coherent M-ary PSK systems in the presence of receiver imperfections and Rician fading. <i>European Transactions on Telecommunications</i> , 2011 , 22, 367-374		3
12	A novel routing and data transmission method for stub network of internet of things based on percolation 2011 ,		1
11	Uplink Channel Estimation for Bandlimited MC-DS-CDMA Systems Relying on Long Spreading Codes 2011 ,		4

10	Opportunistic Spectrum Access with Spectrum Heterogeneity in Cognitive Networks 2011,	1
9	Research on the Cascaded Suppression Method of Blanket Jamming in Satellite Navigation Receivers 2010,	1
8	A Blind Source Separation Algorithm Based on Whitening and Non-linear Decorrelation 2010,	1
7	An Improved Eigenvalue-Based Algorithm for Cooperative Spectrum Sensing 2010,	1
6	Studies on data analysis of piezoelectric transducer and its matching 2010,	1
5	Adaptive bayesian beamforming with sidelobe constraint. <i>IEEE Communications Letters</i> , 2010 , 14, 369-373	5
4	Spectrum Sensing for OFDM Systems Based on Cyclostationary Statistical Test 2010,	2
3	Adaptive Threshold for Fast Signal Detection in Multi-target Tracking 2010,	1
2	A Generalized Total Least-Squares Algorithm for Hyperbolic Location 2008,	3
1	A Comparative Investigation of Transmission Frame Synchronization Algorithms in DRM Receiver 2006,	1