

# Xiangyuan Bu

## List of Publications by Year in descending order

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72  
papers

451  
citations

933447

10  
h-index

839539

18  
g-index

72  
all docs

72  
docs citations

72  
times ranked

541  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Diffraction Measurement Model and Particle Filter Tracking Method for RSS-Based DFL. IEEE Journal on Selected Areas in Communications, 2015, 33, 2391-2403.	14.0	52
2	Green Large-Scale Fog Computing Resource Allocation Using Joint Benders Decomposition, Dinkelbach Algorithm, ADMM, and Branch-and-Bound. IEEE Internet of Things Journal, 2019, 6, 4106-4117.	8.7	47
3	Beamspace Precoding and Beam Selection for Wideband Millimeter-Wave MIMO Relying on Lens Antenna Arrays. IEEE Transactions on Signal Processing, 2019, 67, 6301-6313.	5.3	39
4	UAV-Aided Low Latency Mobile Edge Computing with mmWave Backhaul. , 2019, , .		21
5	Network Function Virtualization Resource Allocation Based on Joint Benders Decomposition and ADMM. IEEE Transactions on Vehicular Technology, 2020, 69, 1706-1718.	6.3	20
6	UAV-Aided Low Latency Multi-Access Edge Computing. IEEE Transactions on Vehicular Technology, 2021, 70, 4955-4967.	6.3	20
7	Decomposition Optimization Algorithms for Distributed Radar Systems. IEEE Transactions on Signal Processing, 2016, 64, 6443-6458.	5.3	19
8	Bayesian Device-Free Localization and Tracking in a Binary RF Sensor Network. Sensors, 2017, 17, 969.	3.8	18
9	Network for hypersonic UCAV swarms. Science China Information Sciences, 2020, 63, 1.	4.3	14
10	Energy-Efficient Power Control for Device-to-Device Communications with Max-Min Fairness. , 2016, , .		10
11	Intelligent Covert Satellite Communication for Military Robot Swarm. IEEE Access, 2020, 8, 5363-5382.	4.2	10
12	Concurrent Multipath Routing Optimization in Named Data Networks. IEEE Internet of Things Journal, 2020, 7, 1451-1463.	8.7	10
13	Radio Signal Automatic Modulation Classification based on Deep Learning and Expert Features. , 2020, , .		10
14	Design, Simulation, and Implementation of a CMOS Analog Decoder for (480,240) Low-Density Parity-Check Code. IEEE Access, 2017, 5, 17381-17391.	4.2	9
15	NOMA-Based Calibration for Large-Scale Spaceborne Antenna Arrays. IEEE Transactions on Vehicular Technology, 2018, 67, 2231-2242.	6.3	9
16	Low-Density Parity-Check Coded Direct Sequence Spread Spectrum Receiver Based on Analog Probabilistic Processing. IEEE Transactions on Vehicular Technology, 2021, 70, 6355-6370.	6.3	9
17	Adaptive bayesian beamforming with sidelobe constraint. IEEE Communications Letters, 2010, 14, 369-371.	4.1	8
18	Compressed Receiver for Multipath DSSS Signals. IEEE Communications Letters, 2014, 18, 1359-1362.	4.1	8

#	ARTICLE	IF	CITATIONS
19	Green Fog Computing Resource Allocation Using Joint Benders Decomposition, Dinkelbach Algorithm, and Modified Distributed Inner Convex Approximation. , 2018, , .		8
20	Optimum Combining for Coherent FFH/DS Spread Spectrum Receivers in the Presence of Multi-Tone Jammer. IEEE Access, 2020, 8, 53097-53106.	4.2	8
21	A 16 Å— 16-Element Slot Array Fed by Double-Layered Gap Waveguide Distribution Network at 160 GHz. IEEE Access, 2020, 8, 55372-55382.	4.2	8
22	Shadow fading assisted device-free localization for indoor environments. , 2016, , .		7
23	A Leakage-Based Directional Modulation Scheme for Frequency Diverse Array in Robot Swarm Networks. IEEE Access, 2020, 8, 107823-107837.	4.2	7
24	Time- and Frequency-Interleaving: Distinctions and Connections. IEEE Transactions on Signal Processing, 2021, 69, 2555-2568.	5.3	7
25	Radar waveform design and multi-target detection in vehicular applications. , 2015, , .		6
26	Two-Dimensional Joint Acquisition of Doppler Factor and Delay for MC-DS-CDMA in LEO Satellite System. IEEE Access, 2020, 8, 148203-148213.	4.2	6
27	Coded Pilot Assisted Baseband Receiver for High Data Rate Millimeter-Wave Communications. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4719-4727.	4.6	6
28	Predictive decision and reliable accessing for UAV communication in space-air-ground integrated networks. China Communications, 2022, 19, 166-185.	3.2	5
29	A Generalized Total Least-Squares Algorithm for Hyperbolic Location. , 2008, , .		4
30	Adaptive channel selection and slot length configuration in cognitive radio. Wireless Communications and Mobile Computing, 2016, 16, 2636-2648.	1.2	4
31	An Improved Eigenvalue-Based Algorithm for Cooperative Spectrum Sensing. , 2010, , .		3
32	Network Utility Maximization in Wireless Networks Over Fading Channels With Uncertain Distribution. IEEE Communications Letters, 2017, 21, 1107-1110.	4.1	3
33	Calibration for spaceborne phased array antennas without interrupting satellite communications. , 2017, , .		3
34	Joint angle delay estimation in terahertz large-scale array system. Science China Information Sciences, 2020, 63, 1.	4.3	3
35	Joint CCI Mitigation and Power Control for MC-DS-CDMA in LEO Satellite Networks. IEEE Internet of Things Journal, 2022, 9, 17627-17639.	8.7	3
36	Spectrum Sensing for OFDM Systems Based on Cyclostationary Statistical Test. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
37	Energy Efficient Mobile Edge Computing using Joint Benders Decomposition and Distributed Dinkelbach Algorithm. , 2018, , .		2
38	Fast and Accurate Near-Field Calibration Method for Phased Array Antennas. , 2018, , .		2
39	Polar Code-Aided Frequency Offset Estimation Algorithm in Satellite Covert Communication Carrier Synchronization. , 2020, , .		2
40	An MPSK Millimeter-Wave Point-to-Point Link With Radio Over Fiber Synchronous Baseband Receiver. Journal of Lightwave Technology, 2022, 40, 481-489.	4.6	2
41	On a New SNR Estimation Approach With Polar Codes. , 2021, , .		2
42	Design and Simulation of A Directional Dual-Beam Antenna-Coupled High-Temperature Superconducting Balanced Terahertz Receiver. , 2021, , .		2
43	The effects of nonlinear thermal fluctuation and series junction array on high-T <sub>c</sub> superconducting terahertz mixer performance. Superconductor Science and Technology, 2021, 34, 015005.	3.5	2
44	Novel Low Complexity BP Decoding Algorithms for Polar Codes: Simplifying on Non-Linear Operations. Electronics (Switzerland), 2022, 11, 93.	3.1	2
45	A new acquisition method in FFH system. , 2014, , .		1
46	A Low Complexity Calibration Method for Space-Borne Phased Array Antennas. , 2016, , .		1
47	Fairness-aware energy-efficient power control scheme for D2D communications underlying cellular networks. , 2017, , .		1
48	A Novel RTRLNN Model for Passive Intermodulation Cancellation in Satellite Communications. , 2018, , .		1
49	Coherent Fast Frequency Hopping Doppler Local Oscillator Based on DDS. , 2019, , .		1
50	A Novel Anti-interception Waveform in LEO Satellite System. , 2020, , .		1
51	A Joint Code-Doppler Acquisition Algorithm for DSSS-MSK Based on FFT. , 2020, , .		1
52	Multi-User Hybrid Beamforming Design for Physical Layer Secured mmWave LOS Communications. Electronics (Switzerland), 2021, 10, 2635.	3.1	1
53	Modeling and analysis of a high-T <sub>c</sub> superconducting polarization-manipulating single-sideband mixer for terahertz communications. Journal of Applied Physics, 2021, 130, .	2.5	1
54	Channel Estimation in MIMO-OFDM Systems by Tracking the Delay-Subspace. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
55	Rapid and Low-Complexity Synchronization for IR-UWB Receiver. , 2008, , .		0
56	Parallel calibration method for phased array antennas with orthogonal and nonorthogonal codes. , 2015, , .		0
57	Combined algorithm of acquisition and anti-jamming based on SFT. Journal of Systems Engineering and Electronics, 2015, 26, 431-440.	2.2	0
58	Frequency offset estimation algorithm of spread spectrum coherent heterodyne based on ISFT. , 2017, , .		0
59	A game theoretical model for signature selection in non-cooperative IrLDS-OFDMA system. , 2017, , .		0
60	A Sparse Temporal Synchronization Algorithm of Laser Communications for Feeder Links in 5G Nonterrestrial Networks. Wireless Communications and Mobile Computing, 2018, 2018, 1-17.	1.2	0
61	A Compressive Sensing-Based Dynamic Estimation Algorithm in Unified Laser TTC System. IEEE Access, 2019, 7, 29963-29972.	4.2	0
62	Filtering wideband slot antenna using split-ring resonator. IEICE Electronics Express, 2019, 16, 20190647-20190647.	0.8	0
63	Design and Implementation of High-Speed Transmission Link Based on PCI-E. , 2020, , .		0
64	Real Time Noise Power Estimation for Single Carrier Frequency Domain Equalization. , 2021, , .		0
65	Large Frequency Acquisition Range and Fast Acquisition Speed Digital Phase Locked Loop Suitable for Low Earth Orbit Satellite Communications. , 2021, , .		0
66	Low-Complexity Polar Coded Noncoherent Detection Using Information Reconstruction. IEEE Communications Letters, 2021, 25, 2492-2496.	4.1	0
67	Comparison of Carrier Synchronization Schemes in Millimeter Wave Communication. , 2020, , .		0
68	Modeling and Simulation of an Antenna-Coupled Image-Reject High-Temperature Superconducting Terahertz Receiver. , 2020, , .		0
69	Noise and Conversion Analyses for High-T <sub>c</sub> Superconducting Harmonic Mixers: Theoretical Modeling and Experimental Verification. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 282-292.	3.1	0
70	Near-Nyquist-Limit Optical Communication and Ranging Method Based on Waveform Matched PPM. Electronics (Switzerland), 2022, 11, 565.	3.1	0
71	Robust or nonrobust: On MC-DS-CDMA acquisition in LEO satellite communications. Digital Communications and Networks, 2023, 9, 896-905.	5.0	0
72	Burst Frame Synchronization for MC-DS-CDMA System in Multipath Channels. , 2022, , .		0