

# Fan Jiang

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

529  
citations

687335

13  
h-index

713444

21  
g-index

36  
all docs

36  
docs citations

36  
times ranked

445  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Spatial Signal Design for mmWave Positioning Under Imperfect Synchronization. IEEE Transactions on Vehicular Technology, 2022, 71, 5558-5563.	6.3	14
2	A Computationally Efficient EK-PMBM Filter for Bistatic mmWave Radio SLAM. IEEE Journal on Selected Areas in Communications, 2022, 40, 2179-2192.	14.0	12
3	Beyond 5G RIS mmWave Systems: Where Communication and Localization Meet. IEEE Access, 2022, 10, 68075-68084.	4.2	26
4	Data-Aided Doppler Compensation for High-Speed Railway Communications Over mmWave Bands. IEEE Transactions on Wireless Communications, 2021, 20, 520-534.	9.2	16
5	5G SLAM with Low-complexity Channel Estimation. , 2021, , .		2
6	High-dimensional Channel Estimation for Simultaneous Localization and Communications. , 2021, , .		12
7	A Mobile Node Assisted Localization System for Wireless Sensor Networks. , 2021, , .		1
8	5G SLAM Using the Clustering and Assignment Approach with Diffuse Multipath. Sensors, 2020, 20, 4656.	3.8	36
9	Analysis of the Underwater Multi-Path Reflections on Doppler Shift Estimation. IEEE Wireless Communications Letters, 2020, 9, 1758-1762.	5.0	12
10	AUV-Aided Localization of Underwater Acoustic Devices Based on Doppler Shift Measurements. IEEE Transactions on Wireless Communications, 2020, 19, 2226-2239.	9.2	39
11	A Machine Learning-Based Approach for Auto-Detection and Localization of Targets in Underwater Acoustic Array Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 15857-15866.	6.3	13
12	Efficient and Fast Processing of Large Array Signal Detection in Underwater Acoustic Communications. , 2019, , .		3
13	MMSE-based iterative processing with imperfect channel and parity check in MIMO systems. IET Communications, 2019, 13, 2660-2667.	2.2	0
14	Angle Domain Channel Tracking With Large Antenna Array for High Mobility V2I Millimeter Wave Communications. IEEE Journal on Selected Topics in Signal Processing, 2019, 13, 1077-1089.	10.8	23
15	Pilot Decontamination in Noncooperative Massive MIMO Cellular Networks Based on Spatial Filtering. IEEE Transactions on Wireless Communications, 2019, 18, 1419-1433.	9.2	17
16	Iterative Approaches for Massive MIMO Uplink Processing Under Imperfect Channel Conditions. IEEE Transactions on Vehicular Technology, 2019, 68, 3642-3654.	6.3	4
17	Passive Underwater Event and Object Detection Based on Time Difference of Arrival. , 2019, , .		4
18	Low Complexity and Fast Processing Algorithms for V2I Massive MIMO Uplink Detection. IEEE Transactions on Vehicular Technology, 2018, 67, 5054-5068.	6.3	23

#	ARTICLE	IF	CITATIONS
19	AUV-Aided Joint Localization and Time Synchronization for Underwater Acoustic Sensor Networks. IEEE Signal Processing Letters, 2018, 25, 477-481.	3.6	92
20	Stair Matrix and Its Applications to Massive MIMO Uplink Data Detection. IEEE Transactions on Communications, 2018, 66, 2437-2455.	7.8	36
21	Channel Estimation for Sparse Massive MIMO Channels in Low SNR Regime. IEEE Transactions on Cognitive Communications and Networking, 2018, 4, 883-893.	7.9	11
22	Accurate Analytical BER Performance for ZF Receivers Under Imperfect Channel in Low-SNR Region for Large Receiving Antennas. IEEE Signal Processing Letters, 2018, 25, 1246-1250.	3.6	17
23	Extrinsic Information Analysis of a New Iterative Method Using the Stair Matrix for Massive MIMO Uplink Signal Detection. IEEE Wireless Communications Letters, 2018, 7, 1022-1025.	5.0	4
24	Pilot Decontamination for Cell-Edge Users in Multi-Cell Massive MIMO Based on Spatial Filter. , 2018, , .		4
25	Massive MIMO for Future Vehicular Networks: Compressed-Sensing and Low-Complexity Detection Schemes (Invited Paper). Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 53-63.	0.3	0
26	A New SQRD-Based Soft Interference Cancellation Scheme in Multi-User MIMO SC-FDMA System. IEEE Communications Letters, 2017, 21, 821-824.	4.1	11
27	A New Turbo Equalizer Conditioned on Estimated Channel for MIMO MMSE Receiver. IEEE Communications Letters, 2017, 21, 957-960.	4.1	8
28	A low complexity soft-output data detection scheme based on Jacobi method for massive MIMO uplink transmission. , 2017, , .		29
29	Design, Analysis, and Field Testing of an Innovative Drone-Assisted Zero-Configuration Localization Framework for Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 10322-10335.	6.3	26
30	Pilot contamination mitigation strategies in massive MIMO systems. IET Communications, 2017, 11, 2403-2409.	2.2	15
31	Block Gauss-Seidel Method Based Detection in Vehicle-to-Infrastructure Massive MIMO Uplink. , 2017, , .		6
32	GF(q)-based precoding: information theoretical analysis and performance evaluation. Wireless Communications and Mobile Computing, 2016, 16, 3032-3044.	1.2	0
33	Soft Input Soft Output MMSE-SQRD Based Turbo Equalization for MIMO-OFDM Systems under Imperfect Channel Estimation. , 2015, , .		7
34	GF (q) Precoding: Mutual information analysis in AWGN channels. , 2015, , .		1
35	A Preliminary Investigation of Multi-user Interference Cancellation Techniques at Roadside Unit in Vehicular Networks. , 2014, , .		1
36	Average effective SNR mapping in LTE-A uplink. , 2012, , .		4