

# Jun Tong

## List of Publications by Year in descending order

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103  
papers

1,091  
citations

516710

16  
h-index

477307

29  
g-index

103  
all docs

103  
docs citations

103  
times ranked

785  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structured Clutter Covariance Matrix Estimation for Airborne MIMO Radar With Limited Training Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	5
2	Photoplethysmographic waveform detection for determining hatching egg activity via deep neural network. <i>Signal, Image and Video Processing</i> , 2022, 16, 955-963.	2.7	1
3	Regularized Covariance Estimation for Polarization Radar Detection in Compound Gaussian Sea Clutter. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	6.3	7
4	Achieving Long Distance Sensing Using Semiconductor Laser with Optical Feedback by Operating at Switching Status. <i>Sensors</i> , 2022, 22, 963.	3.8	5
5	Microwave Photonic Sensing for High Performance Displacement Measurement Based on Period-One Dynamics in a Laser. <i>Journal of Lightwave Technology</i> , 2022, 40, 6737-6744.	4.6	2
6	Achieving high sensing resolution using a Microwave Photonic Signal generated by a laser diode with a control cavity. <i>Optics and Lasers in Engineering</i> , 2022, 158, 107171.	3.8	1
7	Covariance Matrix Whitening-Based Training Sample Selection Method for Airborne Radar. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021, 18, 647-651.	3.1	3
8	Mutual Information-Based Waveform Design for MIMO Radar Space-Time Adaptive Processing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 2909-2921.	6.3	13
9	On the Performance of Massive MIMO Systems With Low-Resolution ADCs and MRC Receivers Over Rician Fading Channels. <i>IEEE Systems Journal</i> , 2021, 15, 4514-4524.	4.6	12
10	Pattern Synthesis for Sparse Linear Arrays via Atomic Norm Minimization. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 2215-2219.	4.0	2
11	Fringe Order Correction for Fringe Projection Profilometry Based on Robust Principal Component Analysis. <i>IEEE Access</i> , 2021, 9, 23110-23119.	4.2	10
12	Improving the Performance of 3D Shape Measurement of Moving Objects by Fringe Projection and Data Fusion. <i>IEEE Access</i> , 2021, 9, 34682-34691.	4.2	0
13	A Low-Complexity Three-Stage Estimator for Low-Rank mmWave Channels. <i>IEEE Transactions on Vehicular Technology</i> , 2021, 70, 5920-5931.	6.3	6
14	Reduced-Dimension Space-Time Adaptive Processing in the Presence of Multiple Targets. , 2021, , .		0
15	Chaotic Lidar Sensing Performance Analysis Based on Laser Diode with Optical Feedback. , 2021, , .		0
16	Grid-Less Variational Bayesian Channel Estimation for Antenna Array Systems With Low Resolution ADCs. <i>IEEE Transactions on Wireless Communications</i> , 2020, 19, 1549-1562.	9.2	14
17	Transmitter polarization optimization for space-time adaptive processing with diversely polarized antenna array. <i>Signal Processing</i> , 2020, 169, 107401.	3.7	6
18	On the Energy Efficiency of Massive MIMO Systems With Low-Resolution ADCs and Lattice Reduction Aided Detectors. <i>Symmetry</i> , 2020, 12, 406.	2.2	11

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19	A New Algorithm for Displacement Measurement Using Self-Mixing Interferometry With Modulated Injection Current. IEEE Access, 2020, 8, 123253-123261.	4.2	12
20	Dual-Frequency Doppler LiDAR Based on External Optical Feedback Effect in a Laser. Sensors, 2020, 20, 6303.	3.8	4
21	A Recursive Angle-Doppler Channel Selection Method for Reduced-Dimension Space-Time Adaptive Processing. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3985-4000.	4.7	18
22	Extreme-Learning-Machine-Based Noniterative and Iterative Nonlinearity Mitigation for LED Communication Systems. IEEE Systems Journal, 2020, 14, 4674-4683.	4.6	4
23	Capacity Maximized Linear Precoder Design for Spatial-Multiplexing MIMO VLC Systems. IEEE Access, 2020, 8, 63901-63909.	4.2	8
24	Period-One Microwave Photonic Sensing by a Laser Diode With Optical Feedback. Journal of Lightwave Technology, 2020, 38, 5423-5429.	4.6	14
25	DPSA: dense pixelwise spatial attention network for hatching egg fertility detection. Journal of Electronic Imaging, 2020, 29, 1.	0.9	6
26	Training-free moving target detection with uncertain a priori knowledge for airborne radar. IET Radar, Sonar and Navigation, 2020, 14, 372-380.	1.8	5
27	A Fast Gridless Method for High Order Motion Parameter Estimation Based on PUMA. , 2020, , .		0
28	Surface parameters measurement of braided preform based on local edge extreme. Journal of the Textile Institute, 2019, 110, 535-542.	1.9	2
29	High sensitive sensing by a laser diode with dual optical feedback operating at period-one oscillation. Applied Physics Letters, 2019, 115, .	3.3	18
30	Tuning the Parameters for Precision Matrix Estimation Using Regression Analysis. IEEE Access, 2019, 7, 90585-90596.	4.2	2
31	Compressive Sensing-Based Data Aggregation Approaches for Dynamic WSNs. IEEE Communications Letters, 2019, 23, 1073-1076.	4.1	9
32	Channel Covariance Matrix Estimation via Dimension Reduction for Hybrid MIMO MmWave Communication Systems. Sensors, 2019, 19, 3368.	3.8	4
33	Energy Efficiency of Massive MIMO Systems With Low-Resolution ADCs and Successive Interference Cancellation. IEEE Transactions on Wireless Communications, 2019, 18, 3987-4002.	9.2	44
34	Knowledge-Aided Target Detection for Multistatic Passive Radar. IEEE Access, 2019, 7, 53463-53475.	4.2	3
35	V-Matrix-Based Scalable Data Aggregation Scheme in WSN. IEEE Access, 2019, 7, 56081-56094.	4.2	8
36	Precoder Design for MIMO Visible Light Communications With Decision-Feedback Receivers. IEEE Photonics Technology Letters, 2019, 31, 521-524.	2.5	7

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37	On Matrix Completion-Based Channel Estimators for Massive MIMO Systems. <i>Symmetry</i> , 2019, 11, 1377.	2.2	1
38	On Iterative Compensation of Clipping Distortion in OFDM Systems. <i>IEEE Wireless Communications Letters</i> , 2019, 8, 436-439.	5.0	13
39	Modeling for optical feedback laser diode operating in period-one oscillation and its application. <i>Optics Express</i> , 2019, 27, 4090.	3.4	16
40	Sensing using Dynamics of a Laser Diode with Dual-Cavity. , 2019, , .		0
41	Fast long-time coherent integration algorithm for detecting manoeuvring targets with high-order motion parameters based on GKT and ISCPF. <i>IET Radar, Sonar and Navigation</i> , 2019, 13, 1313-1322.	1.8	1
42	Effect of windowing on a sensing signal generated by self-mixing interferometry. , 2019, , .		1
43	Linear shrinkage estimation of covariance matrices using low-complexity cross-validation. <i>Signal Processing</i> , 2018, 148, 223-233.	3.7	21
44	Reduced-complexity Krylov subspace methods for large-scale MIMO channel estimation. , 2018, 78, 332-337.		5
45	Knowledge-Aided Covariance Matrix Estimation via Kronecker Product Expansions for Airborne STAP. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018, 15, 527-531.	3.1	31
46	Measurement of surface parameters of three-dimensional braided composite preform based on curvature scale space corner detector. <i>Textile Research Journal</i> , 2018, 88, 2641-2653.	2.2	3
47	A Self-Mixing Laser Diode for Micro-Displacement Measurement. , 2018, , .		1
48	Alpha Measurement Using Laser Dynamics. , 2018, , .		0
49	Measuring Linewidth Enhancement Factor by Relaxation Oscillation Frequency in a Laser with Optical Feedback. <i>Sensors</i> , 2018, 18, 4004.	3.8	19
50	Improving Measurement Sensitivity for a Displacement Sensor Based on Self-Mixing Effect. <i>IEEE Photonics Journal</i> , 2018, 10, 1-10.	2.0	13
51	On the Robustness of Covariance Matrix Shrinkage-Based Robust Adaptive Beamforming. , 2018, , .		1
52	Cross-Validated Bandwidth Selection for Precision Matrix Estimation. , 2018, , .		1
53	Matrix Completion-Based Channel Estimation for MmWave Communication Systems With Array-Inherent Impairments. <i>IEEE Access</i> , 2018, 6, 62915-62931.	4.2	15
54	Iterative Nonlinearity Mitigation and Decoding for LED Communications. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1731-1734.	2.5	5

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55	Laser Self-Mixing Fiber Bragg Grating Sensor for Acoustic Emission Measurement. Sensors, 2018, 18, 1956.	3.8	26
56	Frequency Domain Equalization and Post Distortion for LED Communications With Orthogonal Polynomial Based Joint LED Nonlinearity and Channel Estimation. IEEE Photonics Journal, 2018, 10, 1-11.	2.0	3
57	Influence of system bandwidth on self-mixing signal. , 2018, , .		0
58	Energy Efficiency of Uplink Massive MIMO Systems With Successive Interference Cancellation. IEEE Communications Letters, 2017, 21, 668-671.	4.1	16
59	Low-complexity approximate iterative LMMSE detection for large-scale MIMO systems. , 2017, 60, 134-139.		15
60	Regularised equalisation for OFDM systems with BEM-based channel estimation. , 2017, , .		1
61	Robust channel estimation for switch-based mmWave MIMO systems. , 2017, , .		8
62	Displacement sensing using the relaxation oscillation frequency of a laser diode with optical feedback. Applied Optics, 2017, 56, 6962.	1.8	16
63	Automatic non-proliferative diabetic retinopathy screening system based on color fundus image. BioMedical Engineering OnLine, 2017, 16, 122.	2.7	21
64	A Fiber-Coupled Self-Mixing Laser Diode for the Measurement of Young's Modulus. Sensors, 2016, 16, 928.	3.8	16
65	Features of a Self-Mixing Laser Diode Operating Near Relaxation Oscillation. Sensors, 2016, 16, 1546.	3.8	9
66	Orthogonal Polynomial-Based Nonlinearity Modeling and Mitigation for LED Communications. IEEE Photonics Journal, 2016, 8, 1-12.	2.0	21
67	Relationship between the relaxation oscillation frequency of a laser diode and its external cavity length. , 2016, , .		0
68	Retinal vessel segmentation based on adaptive difference of Gauss filter. , 2016, , .		2
69	Choosing the diagonal loading factor for linear signal estimation using cross validation. , 2016, , .		2
70	Young's modulus measurement using fibre-coupled self-mixing laser diode. , 2016, , .		3
71	Eliminating influence of transient oscillations on a self-mixing interferometry. Optical Engineering, 2016, 55, 104102.	1.0	4
72	Multiple-rate codes from block Markov superposition transmission of first-order Reed-Muller and extended Hamming codes. Electronics Letters, 2016, 52, 1531-1533.	1.0	1

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73	Shrinkage of Covariance Matrices for Linear Signal Estimation Using Cross-Validation. IEEE Transactions on Signal Processing, 2016, 64, 2965-2975.	5.3	16
74	Frequency-Domain Turbo Equalization with Iterative Impulsive Noise Mitigation for Single-Carrier Power-Line Communications. Lecture Notes in Electrical Engineering, 2016, , 891-902.	0.4	1
75	Low-complexity iterative Doppler spread and channel estimation over Rayleigh fading channels. , 2015, , .		0
76	High rate serially concatenated codes with low error floors. , 2015, , .		0
77	Analysis on the transient of a self-mixing interferometry sensing system. , 2015, , .		0
78	Signal estimation-oriented reduced-rank channel estimation for MIMO communications. , 2015, , .		1
79	Improved method for estimation of multiple parameters in self-mixing interferometry. Applied Optics, 2015, 54, 2703.	1.8	10
80	FPGA based design for real-time measurement of alpha. , 2014, , .		0
81	Removing the impulsive noise contained in a self-mixing interferometry system using outlier detection. Optical Engineering, 2014, 53, 124108.	1.0	6
82	Regularized successive interference cancellation (SIC) under mismatched modeling. , 2014, , .		1
83	Energy Detection of DVB-T Signals Against Noise Uncertainty. IEEE Communications Letters, 2014, 18, 1831-1834.	4.1	10
84	Regularized Preconditioning for Krylov Subspace Equalization of OFDM Systems over Doubly Selective Channels. IEEE Wireless Communications Letters, 2013, 2, 367-370.	5.0	6
85	A unified framework for regularized linear estimation in communication systems. Signal Processing, 2013, 93, 2671-2686.	3.7	7
86	Linear equalization in communications with mismatched modeling using Krylov subspace expansion. , 2013, , .		0
87	Regularized linear equalization for multipath channels with imperfect channel estimation. , 2012, , .		3
88	Linear Precoding for MIMO Systems with Low-Complexity Receivers. IEEE Transactions on Wireless Communications, 2012, , 1-10.	9.2	2
89	Design and Analysis of Large MIMO Systems With Krylov Subspace Receivers. IEEE Transactions on Signal Processing, 2012, 60, 2482-2493.	5.3	12
90	Precoder design and convergence analysis of MIMO systems with Krylov subspace receivers. , 2011, , .		1

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91	Linear precoding for time-varying MIMO channels with low-complexity receivers. , 2011, , .		4
92	Iterative Soft Compensation for OFDM Systems with Clipping and Superposition Coded Modulation. IEEE Transactions on Communications, 2010, 58, 2861-2870.	7.8	27
93	Performance analysis of superposition coded modulation. Physical Communication, 2010, 3, 147-155.	2.1	15
94	Superposition Coded Modulation With Peak-Power Limitation. IEEE Transactions on Information Theory, 2009, 55, 2562-2576.	2.4	29
95	Superposition coded modulation and iterative linear MMSE detection. IEEE Journal on Selected Areas in Communications, 2009, 27, 995-1004.	14.0	63
96	Analysis and design of OFDM-IDMA systems. European Transactions on Telecommunications, 2008, 19, 561-569.	1.2	40
97	Performance Analysis of OFDM-IDMA Systems with Peak-Power Limitation. , 2008, , .		15
98	Impact of Signaling Schemes on Iterative Linear Minimum-Mean-Square-Error Detection. , 2008, , .		1
99	Performance analysis of multi-ary systems with iterative linear minimum-mean-square-error detection. , 2008, , .		2
100	Iterative Detection Techniques for Clipped OFDM Systems. , 2008, , .		1
101	The OFDM-IDMA approach to wireless communication systems. IEEE Wireless Communications, 2007, 14, 18-24.	9.0	145
102	Analysis and optimization of CDMA systems with chip-level interleavers. IEEE Journal on Selected Areas in Communications, 2006, 24, 141-150.	14.0	83
103	Superposition Coding with Peak-Power Limitation. , 2006, , .		13