

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	The OFDM-IDMA approach to wireless communication systems. IEEE Wireless Communications, 2007, 14, 18-24.	9.0	145
2	Analysis and optimization of CDMA systems with chip-level interleavers. IEEE Journal on Selected Areas in Communications, 2006, 24, 141-150.	14.0	83
3	Superposition coded modulation and iterative linear MMSE detection. IEEE Journal on Selected Areas in Communications, 2009, 27, 995-1004.	14.0	63
4	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
5	Analysis and design of OFDM-IDMA systems. European Transactions on Telecommunications, 2008, 19, 561-569.	1.2	40
6	Knowledge-Aided Covariance Matrix Estimation via Kronecker Product Expansions for Airborne STAP. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 527-531.	3.1	31
7	Superposition Coded Modulation With Peak-Power Limitation. IEEE Transactions on Information Theory, 2009, 55, 2562-2576.	2.4	29
8	Iterative Soft Compensation for OFDM Systems with Clipping and Superposition Coded Modulation. IEEE Transactions on Communications, 2010, 58, 2861-2870.	7.8	27
9	Laser Self-Mixing Fiber Bragg Grating Sensor for Acoustic Emission Measurement. Sensors, 2018, 18, 1956.	3.8	26
10	Orthogonal Polynomial-Based Nonlinearity Modeling and Mitigation for LED Communications. IEEE Photonics Journal, 2016, 8, 1-12.	2.0	21
11	Automatic non-proliferative diabetic retinopathy screening system based on color fundus image. BioMedical Engineering OnLine, 2017, 16, 122.	2.7	21
12	Linear shrinkage estimation of covariance matrices using low-complexity cross-validation. Signal Processing, 2018, 148, 223-233.	3.7	21
13	Measuring Linewidth Enhancement Factor by Relaxation Oscillation Frequency in a Laser with Optical Feedback. Sensors, 2018, 18, 4004.	3.8	19
14	High sensitive sensing by a laser diode with dual optical feedback operating at period-one oscillation. Applied Physics Letters, 2019, 115, .	3.3	18
15	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
16	A Fiber-Coupled Self-Mixing Laser Diode for the Measurement of Young's Modulus. Sensors, 2016, 16, 928.	3.8	16
17	Shrinkage of Covariance Matrices for Linear Signal Estimation Using Cross-Validation. IEEE Transactions on Signal Processing, 2016, 64, 2965-2975.	5.3	16
18	Energy Efficiency of Uplink Massive MIMO Systems With Successive Interference Cancellation. IEEE Communications Letters, 2017, 21, 668-671.	4.1	16

#	ARTICLE	IF	CITATIONS
19	Displacement sensing using the relaxation oscillation frequency of a laser diode with optical feedback. Applied Optics, 2017, 56, 6962.	1.8	16
20	Modeling for optical feedback laser diode operating in period-one oscillation and its application. Optics Express, 2019, 27, 4090.	3.4	16
21	Performance Analysis of OFDM-IDMA Systems with Peak-Power Limitation. , 2008, , .		15
22	Performance analysis of superposition coded modulation. Physical Communication, 2010, 3, 147-155.	2.1	15
23	Low-complexity approximate iterative LMMSE detection for large-scale MIMO systems. , 2017, 60, 134-139.		15
24	Matrix Completion-Based Channel Estimation for MmWave Communication Systems With Array-Inherent Impairments. IEEE Access, 2018, 6, 62915-62931.	4.2	15
25	Grid-Less Variational Bayesian Channel Estimation for Antenna Array Systems With Low Resolution ADCs. IEEE Transactions on Wireless Communications, 2020, 19, 1549-1562.	9.2	14
26	Period-One Microwave Photonic Sensing by a Laser Diode With Optical Feedback. Journal of Lightwave Technology, 2020, 38, 5423-5429.	4.6	14
27	Superposition Coding with Peak-Power Limitation. , 2006, , .		13
28	Improving Measurement Sensitivity for a Displacement Sensor Based on Self-Mixing Effect. IEEE Photonics Journal, 2018, 10, 1-10.	2.0	13
29	On Iterative Compensation of Clipping Distortion in OFDM Systems. IEEE Wireless Communications Letters, 2019, 8, 436-439.	5.0	13
30	Mutual Information-Based Waveform Design for MIMO Radar Space-Time Adaptive Processing. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 2909-2921.	6.3	13
31	Design and Analysis of Large MIMO Systems With Krylov Subspace Receivers. IEEE Transactions on Signal Processing, 2012, 60, 2482-2493.	5.3	12
32	A New Algorithm for Displacement Measurement Using Self-Mixing Interferometry With Modulated Injection Current. IEEE Access, 2020, 8, 123253-123261.	4.2	12
33	On the Performance of Massive MIMO Systems With Low-Resolution ADCs and MRC Receivers Over Rician Fading Channels. IEEE Systems Journal, 2021, 15, 4514-4524.	4.6	12
34	On the Energy Efficiency of Massive MIMO Systems With Low-Resolution ADCs and Lattice Reduction Aided Detectors. Symmetry, 2020, 12, 406.	2.2	11
35	Energy Detection of DVB-T Signals Against Noise Uncertainty. IEEE Communications Letters, 2014, 18, 1831-1834.	4.1	10
36	Improved method for estimation of multiple parameters in self-mixing interferometry. Applied Optics, 2015, 54, 2703.	1.8	10

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37	Fringe Order Correction for Fringe Projection Profilometry Based on Robust Principal Component Analysis. IEEE Access, 2021, 9, 23110-23119.	4.2	10
38	Features of a Self-Mixing Laser Diode Operating Near Relaxation Oscillation. Sensors, 2016, 16, 1546.	3.8	9
39	Compressive Sensing-Based Data Aggregation Approaches for Dynamic WSNs. IEEE Communications Letters, 2019, 23, 1073-1076.	4.1	9
40	Robust channel estimation for switch-based mmWave MIMO systems. , 2017, , .		8
41	V-Matrix-Based Scalable Data Aggregation Scheme in WSN. IEEE Access, 2019, 7, 56081-56094.	4.2	8
42	Capacity Maximized Linear Precoder Design for Spatial-Multiplexing MIMO VLC Systems. IEEE Access, 2020, 8, 63901-63909.	4.2	8
43	A unified framework for regularized linear estimation in communication systems. Signal Processing, 2013, 93, 2671-2686.	3.7	7
44	Precoder Design for MIMO Visible Light Communications With Decision-Feedback Receivers. IEEE Photonics Technology Letters, 2019, 31, 521-524.	2.5	7
45	Regularized Covariance Estimation for Polarization Radar Detection in Compound Gaussian Sea Clutter. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	7
46	Regularized Preconditioning for Krylov Subspace Equalization of OFDM Systems over Doubly Selective Channels. IEEE Wireless Communications Letters, 2013, 2, 367-370.	5.0	6
47	Removing the impulsive noise contained in a self-mixing interferometry system using outlier detection. Optical Engineering, 2014, 53, 124108.	1.0	6
48	Transmitter polarization optimization for space-time adaptive processing with diversely polarized antenna array. Signal Processing, 2020, 169, 107401.	3.7	6
49	A Low-Complexity Three-Stage Estimator for Low-Rank mmWave Channels. IEEE Transactions on Vehicular Technology, 2021, 70, 5920-5931.	6.3	6
50	DPSA: dense pixelwise spatial attention network for hatching egg fertility detection. Journal of Electronic Imaging, 2020, 29, 1.	0.9	6
51	Reduced-complexity Krylov subspace methods for large-scale MIMO channel estimation. , 2018, 78, 332-337.		5
52	Iterative Nonlinearity Mitigation and Decoding for LED Communications. IEEE Photonics Technology Letters, 2018, 30, 1731-1734.	2.5	5
53	Structured Clutter Covariance Matrix Estimation for Airborne MIMO Radar With Limited Training Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	5
54	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

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55	Achieving Long Distance Sensing Using Semiconductor Laser with Optical Feedback by Operating at Switching Status. <i>Sensors</i> , 2022, 22, 963.	3.8	5
56	Linear precoding for time-varying MIMO channels with low-complexity receivers. , 2011, , .		4
57	Eliminating influence of transient oscillations on a self-mixing interferometry. <i>Optical Engineering</i> , 2016, 55, 104102.	1.0	4
58	Channel Covariance Matrix Estimation via Dimension Reduction for Hybrid MIMO MmWave Communication Systems. <i>Sensors</i> , 2019, 19, 3368.	3.8	4
59	Dual-Frequency Doppler LiDAR Based on External Optical Feedback Effect in a Laser. <i>Sensors</i> , 2020, 20, 6303.	3.8	4
60	Extreme-Learning-Machine-Based Noniterative and Iterative Nonlinearity Mitigation for LED Communication Systems. <i>IEEE Systems Journal</i> , 2020, 14, 4674-4683.	4.6	4
61	Regularized linear equalization for multipath channels with imperfect channel estimation. , 2012, , .		3
62	Young's modulus measurement using fibre-coupled self-mixing laser diode. , 2016, , .		3
63	Measurement of surface parameters of three-dimensional braided composite preform based on curvature scale space corner detector. <i>Textile Reseach Journal</i> , 2018, 88, 2641-2653.	2.2	3
64	Frequency Domain Equalization and Post Distortion for LED Communications With Orthogonal Polynomial Based Joint LED Nonlinearity and Channel Estimation. <i>IEEE Photonics Journal</i> , 2018, 10, 1-11.	2.0	3
65	Knowledge-Aided Target Detection for Multistatic Passive Radar. <i>IEEE Access</i> , 2019, 7, 53463-53475.	4.2	3
66	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
67	Performance analysis of multi-ary systems with iterative linear minimum-mean-square-error detection. , 2008, , .		2
68	Linear Precoding for MIMO Systems with Low-Complexity Receivers. <i>IEEE Transactions on Wireless Communications</i> , 2012, , 1-10.	9.2	2
69	Retinal vessel segmentation based on adaptive difference of Gauss filter. , 2016, , .		2
70	Choosing the diagonal loading factor for linear signal estimation using cross validation. , 2016, , .		2
71	Surface parameters measurement of braided preform based on local edge extreme. <i>Journal of the Textile Institute</i> , 2019, 110, 535-542.	1.9	2
72	Tuning the Parameters for Precision Matrix Estimation Using Regression Analysis. <i>IEEE Access</i> , 2019, 7, 90585-90596.	4.2	2

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73	Pattern Synthesis for Sparse Linear Arrays via Atomic Norm Minimization. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 2215-2219.	4.0	2
74	Microwave Photonic Sensing for High Performance Displacement Measurement Based on Period-One Dynamics in a Laser. Journal of Lightwave Technology, 2022, 40, 6737-6744.	4.6	2
75	Impact of Signaling Schemes on Iterative Linear Minimum-Mean-Square-Error Detection. , 2008, , .		1
76	Iterative Detection Techniques for Clipped OFDM Systems. , 2008, , .		1
77	Precoder design and convergence analysis of MIMO systems with Krylov subspace receivers. , 2011, , .		1
78	Regularized successive interference cancellation (SIC) under mismatched modeling. , 2014, , .		1
79	Signal estimation-oriented reduced-rank channel estimation for MIMO communications. , 2015, , .		1
80	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
81	Regularised equalisation for OFDM systems with BEM-based channel estimation. , 2017, , .		1
82	A Self-Mixing Laser Diode for Micro-Displacement Measurement. , 2018, , .		1
83	On the Robustness of Covariance Matrix Shrinkage-Based Robust Adaptive Beamforming. , 2018, , .		1
84	Cross-Validated Bandwidth Selection for Precision Matrix Estimation. , 2018, , .		1
85	On Matrix Completion-Based Channel Estimators for Massive MIMO Systems. Symmetry, 2019, 11, 1377.	2.2	1
86	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
87	Fast long-time coherent integration algorithm for detecting manoeuvring targets with high-order motion parameters based on GKT and ISCPF. IET Radar, Sonar and Navigation, 2019, 13, 1313-1322.	1.8	1
88	Effect of windowing on a sensing signal generated by self-mixing interferometry. , 2019, , .		1
89	Photoplethysmographic waveform detection for determining hatching egg activity via deep neural network. Signal, Image and Video Processing, 2022, 16, 955-963.	2.7	1
90	Achieving high sensing resolution using a Microwave Photonic Signal generated by a laser diode with a control cavity. Optics and Lasers in Engineering, 2022, 158, 107171.	3.8	1

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91	Linear equalization in communications with mismatched modeling using Krylov subspace expansion. , 2013, , .		0
92	FPGA based design for real-time measurement of alpha. , 2014, , .		0
93	Low-complexity iterative Doppler spread and channel estimation over Rayleigh fading channels. , 2015, , .		0
94	High rate serially concatenated codes with low error floors. , 2015, , .		0
95	Analysis on the transient of a self-mixing interferometry sensing system. , 2015, , .		0
96	Relationship between the relaxation oscillation frequency of a laser diode and its external cavity length. , 2016, , .		0
97	Alpha Measurement Using Laser Dynamics. , 2018, , .		0
98	Improving the Performance of 3D Shape Measurement of Moving Objects by Fringe Projection and Data Fusion. IEEE Access, 2021, 9, 34682-34691.	4.2	0
99	Reduced-Dimension Space-Time Adaptive Processing in the Presence of Multiple Targets. , 2021, , .		0
100	Influence of system bandwidth on self-mixing signal. , 2018, , .		0
101	Sensing using Dynamics of a Laser Diode with Dual-Cavity. , 2019, , .		0
102	A Fast Gridless Method for High Order Motion Parameter Estimation Based on PUMA. , 2020, , .		0
103	Chaotic Lidar Sensing Performance Analysis Based on Laser Diode with Optical Feedback. , 2021, , .		0