

# Xingzhao Liu

## 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.

91  
papers

524  
citations

13  
h-index

18  
g-index

189  
ext. papers

751  
ext. citations

3.8  
avg, IF

4.35  
L-index

#	Paper	IF	Citations
91	A Novel Dimension-Reduced Space-Time Adaptive Processing Algorithm for Spaceborne Multichannel Surveillance Radar Systems Based on Spatial-Temporal 2-D Sliding Window1. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2022</b> , 1-1	8.1	4
90	Air Moving Target Imaging for Staggered ISAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2022</b> , 19, 1-5	4.1	1
89	Moving Target Focusing in SAR Imagery Based on Subaperture Processing and DART. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 18, 311-315	4.1	8
88	Road-Aided Along-Track Baseline Estimation in a Multichannel SAR-GMTI System. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 18, 1416-1420	4.1	4
87	A Modified Keystone Transform Matched Filtering Method for Space-Moving Target Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-16	8.1	0
86	ISAR Imaging of a Maneuvering Target Based on Parameter Estimation of Multicomponent Cubic Phase Signals. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-18	8.1	6
85	A Statistical Model Based on Modified Generalized-K Distribution for Sea Clutter. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	3
84	A Novel Channel Phase Error Calibration Method Based on Hybrid AFSA-GSO-GA for Multichannel HRWS-SAR Imaging. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	1
83	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-19	8.1	5
82	Logarithmic Norm Regularized Low-Rank Factorization for Matrix and Tensor Completion. <i>IEEE Transactions on Image Processing</i> , <b>2021</b> , 30, 3434-3449	8.7	2
81	Approach for Topography-Dependent Clutter Suppression in a Spaceborne Surveillance Radar System Based on Adaptive Broadening Processing. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	1
80	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-24	8.1	2
79	Multichannel Sea Clutter Modeling for Spaceborne Early Warning Radar and Clutter Suppression Performance Analysis. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 59, 8349-8366	8.1	10
78	High-Resolution ISAR Imaging for Maneuvering Targets Based on Iterative Adaptive Processing. <i>IEEE Transactions on Computational Imaging</i> , <b>2021</b> , 1-1	4.5	4
77	Multiscale Supervised Kernel Dictionary Learning for SAR Target Recognition. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 6281-6297	8.1	6
76	Phase-Only Robust Minimum Dispersion Beamforming. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 5664-5679	4.8	1
75	Space Maneuvering Target Integration Detection and Parameter Estimation for a Spaceborne Radar System With Target Doppler Aliasing. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2020</b> , 13, 3579-3594	4.7	6

74	Convolutional Neural Network-Based Dictionary Learning for SAR Target Recognition. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 1-5	4.1	4
73	Feature-Enhanced Speckle Reduction via Low-Rank and Space-Angle Continuity for Circular SAR Target Recognition. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 7734-7752	8.1	19
72	Robust Low-Rank Tensor Recovery via Nonconvex Singular Value Minimization. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , PP,	8.7	8
71	A Novel Baseline Estimation Method for Multichannel HRSW SAR System. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2019</b> , 16, 1829-1833	4.1	12
70	. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2019</b> , 1-19	4.1	2
69	Ground Moving Target Refocusing in SAR Imagery Based on RFRT-FrFT. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 5476-5492	8.1	26
68	Multiscale Incremental Dictionary Learning With Label Constraint for SAR Object Recognition. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2019</b> , 16, 80-84	4.1	7
67	Phase-only Robust Minimum Dispersion Beamforming <b>2019</b> ,		1
66	Semi-Supervised SAR ATR via Multi-Discriminator Generative Adversarial Network. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 7525-7533	4	21
65	High-speed optical synthetic aperture radar target recognition system. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 5940-5943	0.7	0
64	Relationship of different optimal criteria in radar waveform design. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 7950-7953	0.7	1
63	Multi-channel Sea Clutter Modeling and Characteristics Analysis for Spaceborne Early Warning Radar <b>2019</b> ,		1
62	SAR image compression using optronic processing. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 5982-5985	0.7	2
61	Precise frequency division algorithm for residual aperture-variant motion compensation in synthetic aperture radar. <i>Electronics Letters</i> , <b>2019</b> , 55, 51-53	1.1	6
60	A Coherent Integration Method for Moving Target Detection Using Frequency Agile Radar. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2019</b> , 16, 206-210	4.1	12
59	Ground Moving Target Refocusing in SAR Imagery Using Scaled GHAF. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2018</b> , 56, 1030-1045	8.1	13
58	Joint optimisation of transmit waveform and receive filter for cognitive radar. <i>IET Radar, Sonar and Navigation</i> , <b>2018</b> , 12, 11-20	1.4	8
57	Radial velocity estimation of moving target based on maximum likelihood estimation. <i>Electronics Letters</i> , <b>2018</b> , 54, 1001-1003	1.1	

56	Adaptive Waveform Design for Cognitive Radar in Multiple Targets Situation. <i>Entropy</i> , <b>2018</b> , 20,	2.8	5
55	Refocusing and Motion Parameter Estimation for Ground Moving Targets Based on Improved Axis Rotation-Time Reversal Transform. <i>IEEE Transactions on Computational Imaging</i> , <b>2018</b> , 4, 479-494	4.5	24
54	Large-Scale Robust Beamforming via $\ell_{\infty}$ -Minimization. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 3824-3837	4.8	8
53	Coherent integration for uniformly moving target detection. <i>Electronics Letters</i> , <b>2018</b> , 54, 712-714	1.1	6
52	Ground moving target indication for multichannel synthetic aperture radar systems using asymmetry of spatial spectrum. <i>Journal of Applied Remote Sensing</i> , <b>2018</b> , 12, 1	1.4	1
51	Array error estimation method for multichannel synthetic aperture radar systems in azimuth. <i>Journal of Applied Remote Sensing</i> , <b>2017</b> , 11, 015027	1.4	
50	Optimal waveform design for target tracking and estimation in cognitive radar <b>2017</b> ,		1
49	Isolation improvement method for frequency modulated continuous wave SAR <b>2017</b> ,		1
48	A blind reconstruction of azimuth signal for multichannel HRWS SAR system <b>2017</b> ,		4
47	Suppression of Azimuth Ambiguities of Strong Point-Like Targets for Multichannel SAR Systems. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2017</b> , 14, 1046-1050	4.1	1
46	Robust Matrix Completion via Alternating Projection. <i>IEEE Signal Processing Letters</i> , <b>2017</b> , 24, 579-583	3.2	26
45	Realization of strong backscattering homogeneous regions with known backscattering coefficient in synthetic aperture radar images. <i>Journal of Applied Remote Sensing</i> , <b>2017</b> , 11, 016018	1.4	2
44	Robust Channel Phase Error Calibration Algorithm for Multichannel High-Resolution and Wide-Swath SAR Imaging. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2017</b> , 14, 649-653	4.1	17
43	Fast channel phase error calibration algorithm for azimuth multichannel high-resolution and wide-swath synthetic aperture radar imaging system. <i>Journal of Applied Remote Sensing</i> , <b>2017</b> , 11, 035003	1.4	6
42	Azimuth-Variant Phase Error Calibration Technique for Multichannel SAR Systems. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2017</b> , 14, 1383-1387	4.1	4
41	A novel method for estimating the baseband Doppler centroid of conventional synthetic aperture radar <b>2017</b> ,		2
40	A mini radar system for low altitude targets detection <b>2017</b> ,		2
39	Generalized synthetic aperture radar automatic target recognition by convolutional neural network with joint use of two-dimensional principal component analysis and support vector machine. <i>Journal of Applied Remote Sensing</i> , <b>2017</b> , 11, 1	1.4	3

38	An automatic RCMC technique based on BFGS method <b>2016</b> ,		1
37	Improved Channel Error Calibration Algorithm for Azimuth Multichannel SAR Systems. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2016</b> , 13, 1022-1026	4.1	25
36	Ground Moving Target Indication for HRWS-SAR Systems via Symmetric Reconstruction. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2016</b> , E99.A, 1576-1583	0.4	1
35	Dual-channel SAR moving target detector based on WVD and FAC <b>2016</b> ,		1
34	Azimuth signal reconstruction for HRWS SAR from recurrent nonuniform samples <b>2016</b> ,		1
33	Optimal waveform design oriented toward cognitive radar in fractional Fourier domain <b>2016</b> ,		2
32	Modified reconstruction algorithm based on space-time adaptive processing for multichannel synthetic aperture radar systems in azimuth. <i>Journal of Applied Remote Sensing</i> , <b>2016</b> , 10, 035022	1.4	4
31	Wirtinger Flow Method With Optimal Step Size for Phase Retrieval. <i>IEEE Signal Processing Letters</i> , <b>2016</b> , 23, 1627-1631	3.2	15
30	A Realization of Signal-Model-Based SAR Imaging via Atomic Decomposition. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , <b>2015</b> , E98.A, 1906-1913	0.4	
29	Edge Extraction for Polarimetric SAR Images Using Degenerate Filter With Weighted Maximum Likelihood Estimation. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2014</b> , 11, 2140-2144	4.1	11
28	Measurement of surface currents from a shipborne HFSWR <b>2014</b> ,		1
27	A novel concept of plane grid resolution for high-resolution SAR imaging systems <b>2014</b> ,		1
26	An automatic SAR-GMTI algorithm based on DPCA <b>2014</b> ,		2
25	Measurement of Sharpness and Its Application in ISAR Imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2013</b> , 51, 4885-4892	8.1	13
24	A fast raw data simulator for the stripmap SAR based on CUDA via GPU <b>2013</b> ,		3
23	A new MTF-based image quality assessment for high-resolution SAR Sensors <b>2013</b> ,		1
22	Ground Moving Target Indication in SAR Images by Symmetric Defocusing. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2013</b> , 10, 241-245	4.1	21
21	Advanced digital beamforming technique for target height finding in phased array 3D radar systems <b>2013</b> ,		3

20	Model-based adaptive synthetic aperture radar image formation algorithm. <i>IET Radar, Sonar and Navigation</i> , <b>2013</b> , 7, 123-129	1.4	2
19	Ground moving target indication in SAR images based on local 2-Look similarity <b>2013</b> ,		2
18	SAR simulation for large scenes by ray tracing technique based on GPU <b>2013</b> ,		1
17	Estimating target-induced azimuth envelope for SAR image formation and feature extraction <b>2012</b> ,		1
16	Optimum two-dimensional transmit-receiver design <b>2012</b> ,		1
15	Bayesian change detection based on space contextual information and EM algorithm <b>2012</b> ,		1
14	Design considerations for DBF phased array 3D surveillance radar <b>2011</b> ,		5
13	Superpixel-based classification of polarimetric synthetic aperture radar images <b>2011</b> ,		3
12	SAR imaging based on Compressed Sensing <b>2011</b> ,		5
11	Range Cell Migration Correction using texture mapping on GPU <b>2010</b> ,		2
10	Automatic Correction of Range Migration in SAR Imaging. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2010</b> , 7, 256-260	4.1	19
9	An Efficient SAR Processor Based on GPU via CUDA <b>2009</b> ,		7
8	A Model-Spectrum-Based Flattening Algorithm for Airborne Single-Pass SAR Interferometry. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2009</b> , 6, 307-311	4.1	3
7	A multilevel interferometric SAR simulator <b>2009</b> ,		1
6	A two-level simulator for spaceborne SAR <b>2009</b> ,		1
5	A GPU based time-domain raw signal simulator for interferometric SAR <b>2009</b> ,		2
4	Wavelet-based SAR image despeckling using Cauchy pdf modeling <b>2008</b> ,		3
3	An improved time-frequency phase adjustment technique for ISAR <b>2007</b> ,		1

- 2 Enhanced visibility of maneuvering targets for high-frequency over-the-horizon radar. *IEEE Transactions on Antennas and Propagation*, **2005**, 53, 404-411 4.9 20
- 1 A piecewise parametric method based on polynomial phase model to compensate ionospheric phase contamination 3