

# Xingzhao Liu

## List of Publications by Citations

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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	Robust Matrix Completion via Alternating Projection. <i>IEEE Signal Processing Letters</i> , <b>2017</b> , 24, 579-583	3.2	26
90	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
89	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
88	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
87	Semi-Supervised SAR ATR via Multi-Discriminator Generative Adversarial Network. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 7525-7533	4	21
86	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
85	Enhanced visibility of maneuvering targets for high-frequency over-the-horizon radar. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2005</b> , 53, 404-411	4.9	20
84	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
83	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
82	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
81	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
80	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
79	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
78	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
77	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
76	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
75	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

74	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
73	Large-Scale Robust Beamforming via $\ell_{\infty}$ -Minimization. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 3824-3837	4.8	8
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	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
70	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
69	An Efficient SAR Processor Based on GPU via CUDA <b>2009</b> ,		7
68	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
67	Coherent integration for uniformly moving target detection. <i>Electronics Letters</i> , <b>2018</b> , 54, 712-714	1.1	6
66	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 <sup>14</sup>		6
65	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
64	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
63	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
62	Adaptive Waveform Design for Cognitive Radar in Multiple Targets Situation. <i>Entropy</i> , <b>2018</b> , 20,	2.8	5
61	Design considerations for DBF phased array 3D surveillance radar <b>2011</b> ,		5
60	SAR imaging based on Compressed Sensing <b>2011</b> ,		5
59	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-19	8.1	5
58	A blind reconstruction of azimuth signal for multichannel HRWS SAR system <b>2017</b> ,		4
57	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

56	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
55	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
54	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
53	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
52	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
51	A fast raw data simulator for the stripmap SAR based on CUDA via GPU <b>2013</b> ,		3
50	Advanced digital beamforming technique for target height finding in phased array 3D radar systems <b>2013</b> ,		3
49	Superpixel-based classification of polarimetric synthetic aperture radar images <b>2011</b> ,		3
48	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
47	Wavelet-based SAR image despeckling using Cauchy pdf modeling <b>2008</b> ,		3
46	A piecewise parametric method based on polynomial phase model to compensate ionospheric phase contamination		3
45	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
44	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
43	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
42	. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2019</b> , 1-19	4.1	2
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	An automatic SAR-GMTI algorithm based on DPCA <b>2014</b> ,		2

38	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
37	Ground moving target indication in SAR images based on local 2-Look similarity <b>2013</b> ,		2
36	Range Cell Migration Correction using texture mapping on GPU <b>2010</b> ,		2
35	A GPU based time-domain raw signal simulator for interferometric SAR <b>2009</b> ,		2
34	Optimal waveform design oriented toward cognitive radar in fractional Fourier domain <b>2016</b> ,		2
33	SAR image compression using optronic processing. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 5982-5985	0.7	2
32	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
31	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-24	8.1	2
30	Optimal waveform design for target tracking and estimation in cognitive radar <b>2017</b> ,		1
29	Isolation improvement method for frequency modulated continuous wave SAR <b>2017</b> ,		1
28	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
27	An automatic RCMC technique based on BFGS method <b>2016</b> ,		1
26	Phase-only Robust Minimum Dispersion Beamforming <b>2019</b> ,		1
25	Measurement of surface currents from a shipborne HFSWR <b>2014</b> ,		1
24	A novel concept of plane grid resolution for high-resolution SAR imaging systems <b>2014</b> ,		1
23	Estimating target-induced azimuth envelope for SAR image formation and feature extraction <b>2012</b> ,		1
22	A new MTF-based image quality assessment for high-resolution SAR Sensors <b>2013</b> ,		1
21	SAR simulation for large scenes by ray tracing technique based on GPU <b>2013</b> ,		1

20	Optimum two-dimensional transmit-receiver design <b>2012</b> ,		1
19	Bayesian change detection based on space contextual information and EM algorithm <b>2012</b> ,		1
18	A multilevel interferometric SAR simulator <b>2009</b> ,		1
17	A two-level simulator for spaceborne SAR <b>2009</b> ,		1
16	An improved time-frequency phase adjustment technique for ISAR <b>2007</b> ,		1
15	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
14	Relationship of different optimal criteria in radar waveform design. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 7950-7953	0.7	1
13	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
12	Phase-Only Robust Minimum Dispersion Beamforming. <i>IEEE Transactions on Signal Processing</i> , <b>2020</b> , 68, 5664-5679	4.8	1
11	Dual-channel SAR moving target detector based on WVD and FAC <b>2016</b> ,		1
10	Azimuth signal reconstruction for HRWS SAR from recurrent nonuniform samples <b>2016</b> ,		1
9	Multi-channel Sea Clutter Modeling and Characteristics Analysis for Spaceborne Early Warning Radar <b>2019</b> ,		1
8	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
7	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
6	Air Moving Target Imaging for Staggered ISAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2022</b> , 19, 1-5	4.1	1
5	High-speed optical synthetic aperture radar target recognition system. <i>Journal of Engineering</i> , <b>2019</b> , 2019, 5940-5943	0.7	0
4	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
3	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	

- 2 Radial velocity estimation of moving target based on maximum likelihood estimation. *Electronics Letters*, **2018**, 54, 1001-1003 1.1
- 1 A Realization of Signal-Model-Based SAR Imaging via Atomic Decomposition. *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, **2015**, E98.A, 1906-1913 0.4