Lamei Zhang

List of Publications by Year
in descending order

74	553	840119 11	752256 20
papers	citations	h-index	g-index

74	74	74	404
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiple-Component Scattering Model for Polarimetric SAR Image Decomposition. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 603-607.	1.4	99
2	Automatic Design of CNNs via Differentiable Neural Architecture Search for PolSAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6362-6375.	2.7	39
3	PolSAR Image Classification with Lightweight 3D Convolutional Networks. Remote Sensing, 2020, 12, 396.	1.8	32
4	Polarimetric SAR Terrain Classification Using 3D Convolutional Neural Network. , 2018, , .		27
5	Exploring Vision Transformers for Polarimetric SAR Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	25
6	Efficiently utilizing complex-valued PolSAR image data via a multi-task deep learning framework. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 157, 59-72.	4.9	23
7	Eigen-Decomposition-Based Four-Component Decomposition for PolSAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 1286-1296.	2.3	22
8	A Multi-GPU Accelerated Parallel Domain Decomposition One-Step Leapfrog ADI-FDTD. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 816-820.	2.4	21
9	Kresling origami-inspired reconfigurable antenna with spherical cap. International Journal of Mechanical Sciences, 2022, 227, 107470.	3.6	17
10	Object-Based Classification of PolSAR Images Based on Spatial and Semantic Features. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 609-619.	2.3	16
11	Unsupervised Deep Representation Learning and Few-Shot Classification of PolSAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	15
12	Attention-Based Polarimetric Feature Selection Convolutional Network for PolSAR Image Classification. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	14
13	Efficient oneâ€step leapfrog ADIâ€FDTD for farâ€field scattering calculation of lossy media. Microwave and Optical Technology Letters, 2020, 62, 1876-1881.	0.9	13
14	Independent and Commutable Target Decomposition of PolSAR Data Using a Mapping From SU(4) to SO(6). IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3396-3407.	2.7	10
15	Improved SLIC superpixel generation algorithm and its application in polarimetric SAR images classification. , 2017, , .		10
16	Ship detection in a large scene SAR image using image uniformity description factor. , 2017, , .		9
17	Vehicle Detection Based on Semantic-Context Enhancement for High-Resolution SAR Images in Complex Background. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	8
18	A novel super-resolution method of PolSAR images based on target decomposition and polarimetric spatial correlation. International Journal of Remote Sensing, 2011, 32, 4893-4913.	1.3	7

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19	An FDTD-Based Method for Difference Scattering From a Target Above a Randomly Rough Surface. IEEE Transactions on Antennas and Propagation, 2021, 69, 2427-2432.	3.1	7
20	Deployment of SMP Miura-ori sheet and its application: Aerodynamic drag and RCS reduction. Chinese Journal of Aeronautics, 2022, 35, 121-131.	2.8	7
21	Scattering Mechanism Analysis of Man-Made Targets via Polarimetric SAR Observation Simulation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 919-929.	2.3	7
22	An Improved CFAR Scheme for Man-Made Target Detection in High Resolution SAR Images. , 2018, , .		6
23	Densely Connected Convolutional Neural Network Based Polarimetric SAR Image Classification. , 2019, , .		6
24	Heterogeneous CPU+GPU-Accelerated FDTD for Scattering Problems With Dynamic Load Balancing. IEEE Transactions on Antennas and Propagation, 2020, 68, 6734-6742.	3.1	6
25	Incident Plane-Wave Source Formulations for Leapfrog Complying-Divergence Implicit FDTD Method. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2022, 7, 84-91.	1.4	6
26	Stokes matrix polarimetric similarity parameter and its application in target detection. Remote Sensing Letters, 2012, 3, 93-100.	0.6	5
27	Similarity-enhanced target detection algorithm using polarimetric SAR images. International Journal of Remote Sensing, 2012, 33, 6149-6162.	1.3	5
28	Coastline detection based on polarimetric characteristics and mathematical morphology using PolSAR images. , 2017, , .		5
29	High-Resolution PolSAR Image Interpretation Based on Human Image Cognition Mechanism. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, , 1-11.	2.3	5
30	Built-Up Area Extraction Using High-Resolution SAR Images Based on Spectral Reconfiguration. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1391-1395.	1.4	5
31	Multi-GPU based Leapfrog CDI-FDTD Method for Large-Scale Electromagnetic Problems. , 2021, , .		5
32	An extended multiple-component scattering model for PolSAR images. International Journal of Remote Sensing, 2009, 30, 5515-5525.	1.3	4
33	POLSAR image classification using BP neural network based on Quantum Clonal Evolutionary Algorithm. , 2010, , .		4
34	Forest height estimation from PolInSAR image using adaptive decomposition method. , 2012, , .		4
35	Classification of fully polarimetric SAR images based on ensemble learning and feature integration. , 2014, , .		4
36	Polarimetric SAR image classification based on contextual sparse representation. , 2015, , .		4

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37	General three-layer scattering model for forest parameter estimation using single-baseline polarimetric interferometry synthetic aperture radar data. Journal of Applied Remote Sensing, 2015, 9, 096043.	0.6	4
38	Docked Ships Detection Using PolSAR Image Based on GOPSO-SVM. , 2019, , .		4
39	PolSAR Image Classification Based on Object-Based Markov Random Field With Polarimetric Auxiliary Label Field. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1558-1562.	1.4	4
40	Ship Detection Using PolSAR Images Based on Simulated Annealing by Fuzzy Matching. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	4
41	Polarimetric Semivariogram-Based Spatial Scale Selection for PolSAR Image Segmentation With Mean-Shift Algorithm. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1239-1243.	1.4	4
42	Polarimetric SAR image classification using Multiple-Component Scattering Model and Support Vector Machine. , 2009, , .		3
43	Target detection based on granularity computing of quotient space theory using SAR image. , 2010, , .		3
44	Hybrid Method of FDTD/PO for EM Scattering Simulation of Electrically Large Targets. , 2019, , .		3
45	Independent Target Detection of PolSAR Image Joint Polarimetric and Spatial Features Based on Adaptive Convolution Sparse Representation. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1533-1537.	1.4	3
46	Adaptive Spatial Constraint Sparse Representation for Target Detection in Polsar Image. , 2019, , .		2
47	Joint Polarimetric-Adjacent Features Based on LCSR for PolSAR Image Classification. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6230-6243.	2.3	2
48	Multilevel Information Fusion-Based Change Detection for Multiangle PolSAR Images. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	2
49	Polsar Image Classification via Complex-Valued Multi-Scale Convolutional Neural Network. , 2020, , .		2
50	Inversion of Forest Parameters Based on Genetic Algorithm using L-Band Polinsar Data. , 2006, , .		1
51	Feature extraction and classification of PolSAR images based on sparse representation. , 2014, , .		1
52	High-resolution SAR signal simulation using parallel FDTD method. , 2014, , .		1
53	An improvement of multiple-component scattering model with rotated covariance matrix for polarimetric SAR decomposition. , 2015, , .		1
54	A Three-Layer Scattering Model of the Slope Forest Area for Polarimetric SAR Interferometry. , 2018, , .		1

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55	Hybrid Parallel FDTD Calculation Method Based on MPI for Electrically Large Objects. Wireless Communications and Mobile Computing, 2019, 2019, 1-9.	0.8	1
56	Polsar Image Classification Based on an Improved Bow Model with Mid-Level Semantic Features. , 2019, , .		1
57	Vehicle Azimuth Angle Estimation of Sar Image Based on Target Restoration. , 2019, , .		1
58	Implementation and optimization of <scp>GPUâ€based</scp> parallel <scp>oneâ€step</scp> leapfrog <scp>ADIâ€FDTD</scp> for farâ€field scattering problems. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22382.	0.8	1
59	A Slope Three-Layer Scattering Model for Forest Parameter Inversion of PolInSAR. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
60	Man-Made Target Detection of PolSAR Image Based on Local Convolution Sparse Representation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	1
61	Moving Targets Detection and Analysis on Multi-Look Polarimetric SAR Images using PWF Method. , 2008, , .		0
62	Target detection based on eigen-decomposition using PolInSAR data. , 2011, , .		0
63	A GS-based built-up area detection method using Polarimetric SAR images. , 2012, , .		0
64	A novel method for dual channel POLSAR raw data compression. , 2012, , .		0
65	Polarmetric SAR images classification based on sparse representation theory. , 2013, , .		0
66	Building detection based on human visual cognition mechanism using PolSAR images. , 2014, , .		0
67	A target detection method based on CBR in high resolution SAR images. , 2014, , .		0
68	Building density estimation using PolSAR images based on adaptive volume scattering model. , 2016, , .		0
69	An improved hybrid inversion method for polarimetric SAR interferometry. , 2017, , .		0
70	Region-Based Image-Key-Element Decomposition for Large-Scale SAR Images. , 2019, , .		0
71	Calculation of Electromagnetic Scattering Characteristics by Cell-Wise Extrapolation based on FDTD. , 2021, , .		0
72	Moving Vehicle Wheel Parameter Extraction via Micro-Doppler Feature Based on Matching Pursuit. , 2020, , .		0

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73	Unconditionally stable FDTD-based approach for scattering from an object above random rough surface. Waves in Random and Complex Media, 0, , 1-18.	1.6	0
74	The Convolutional Perfectly Matched Layer for an Efficient 3-D WLP-FDTD Method. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 1970-1974.	2.4	0