

# Hong Zhang

## 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.

71  
papers

1,212  
citations

19  
h-index

33  
g-index

79  
ext. papers

1,681  
ext. citations

4.3  
avg, IF

5.1  
L-index

#	Paper	IF	Citations
71	InSAR Phase Unwrapping by Deep Learning Based on Gradient Information Fusion. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2022</b> , 19, 1-5	4.1	0
70	Interferometric SAR Observation of Permafrost Status in the Northern Qinghai-Tibet Plateau by ALOS, ALOS-2 and Sentinel-1 between 2007 and 2021. <i>Remote Sensing</i> , <b>2022</b> , 14, 1870	5	2
69	A Review of Satellite Synthetic Aperture Radar Interferometry Applications in Permafrost Regions: Current Status, Challenges, and Trends. <i>IEEE Geoscience and Remote Sensing Magazine</i> , <b>2022</b> , 2-23	8.9	5
68	Improving CPT-InSAR Algorithm with Adaptive Coherent Distributed Pixels Selection. <i>Remote Sensing</i> , <b>2021</b> , 13, 4784	5	1
67	Freeze-Thaw Deformation Cycles and Temporal-Spatial Distribution of Permafrost along the Qinghai-Tibet Railway Using Multitrack InSAR Processing. <i>Remote Sensing</i> , <b>2021</b> , 13, 4744	5	4
66	Detecting Rock Glacier Displacement in the Central Himalayas Using Multi-Temporal InSAR. <i>Remote Sensing</i> , <b>2021</b> , 13, 4738	5	4
65	Parallel CS-InSAR for Mapping Nationwide Deformation in China <b>2021</b> ,		2
64	High Performance Computing for CS-InSAR Data Processing <b>2021</b> ,		1
63	Rice Mapping Using a BiLSTM-Attention Model from Multitemporal Sentinel-1 Data. <i>Agriculture (Switzerland)</i> , <b>2021</b> , 11, 977	3	0
62	Paddy Rice Mapping in Thailand Using Time-Series Sentinel-1 Data and Deep Learning Model. <i>Remote Sensing</i> , <b>2021</b> , 13, 3994	5	3
61	First mapping of China surface movement using supercomputing interferometric SAR technique. <i>Science Bulletin</i> , <b>2021</b> , 66, 1608-1608	10.6	5
60	Time Series InSAR Three-Dimensional Displacement Inversion Model of Coal Mining Areas Based on Symmetrical Features of Mining Subsidence. <i>Remote Sensing</i> , <b>2021</b> , 13, 2143	5	8
59	Soil Moisture Estimation based on the Distributed Scatterers Adaptive Filter over the QTP Permafrost Region using Sentinel-1 and High-resolution TerraSAR-X Data. <i>International Journal of Remote Sensing</i> , <b>2021</b> , 42, 902-928	3.1	2
58	Map and Quantify the Ground Deformation Around Salt Lake in Hoh Xil, Qinghai-Tibet Plateau Using Time-Series InSAR From 2006 to 2018. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2021</b> , 14, 858-869	4.7	5
57	Multitemporal Water Extraction of Dongting Lake and Poyang Lake Based on an Automatic Water Extraction and Dynamic Monitoring Framework. <i>Remote Sensing</i> , <b>2021</b> , 13, 865	5	13
56	Built-up area mapping in China from GF-3 SAR imagery based on the framework of deep learning. <i>Remote Sensing of Environment</i> , <b>2021</b> , 262, 112515	13.2	7
55	Active Layer Thickness Retrieval Over the Qinghai-Tibet Plateau Using Sentinel-1 Multitemporal InSAR Monitored Permafrost Subsidence and Temporal-Spatial Multilayer Soil Moisture Data. <i>IEEE Access</i> , <b>2020</b> , 8, 84336-84351	3.5	9

54	A Multi-Scale U-Shaped Convolution Auto-Encoder Based on Pyramid Pooling Module for Object Recognition in Synthetic Aperture Radar Images. <i>Sensors</i> , <b>2020</b> , 20,	3.8	1
53	Quad-pol reconstruction from compact polarimetry using a fully convolutional network. <i>Remote Sensing Letters</i> , <b>2020</b> , 11, 397-406	2.3	1
52	A Two-Component Deep Learning Network for SAR Image Denoising. <i>IEEE Access</i> , <b>2020</b> , 8, 17792-17803	3.5	8
51	SAR Image Ship Object Generation and Classification With Improved Residual Conditional Generative Adversarial Network. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 1-5	4.1	5
50	MW-ACGAN: Generating Multiscale High-Resolution SAR Images for Ship Detection. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
49	Multi-Temporal InSAR Parallel Processing for Sentinel-1 Large-Scale Surface Deformation Mapping. <i>Remote Sensing</i> , <b>2020</b> , 12, 3749	5	8
48	Small-Baseline Approach for Monitoring the Freezing and Thawing Deformation of Permafrost on the Beiluhe Basin, Tibetan Plateau Using TerraSAR-X and Sentinel-1 Data. <i>Sensors</i> , <b>2020</b> , 20,	3.8	7
47	Spaceborne SAR Data for Regional Urban Mapping Using a Robust Building Extractor. <i>Remote Sensing</i> , <b>2020</b> , 12, 2791	5	4
46	Monitoring of large-scale landslides in Zongling, Guizhou, China, with improved distributed scatterer interferometric SAR time series methods. <i>Landslides</i> , <b>2020</b> , 17, 1777-1795	6.6	12
45	Crop Classification Based on Temporal Information Using Sentinel-1 SAR Time-Series Data. <i>Remote Sensing</i> , <b>2019</b> , 11, 53	5	45
44	Operational Flood Detection Using Sentinel-1 SAR Data over Large Areas. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 786	3	45
43	Time-Series InSAR Monitoring of Permafrost Freeze-Thaw Seasonal Displacement over Qinghai-Tibetan Plateau Using Sentinel-1 Data. <i>Remote Sensing</i> , <b>2019</b> , 11, 1000	5	23
42	Urban Building Change Detection in SAR Images Using Combined Differential Image and Residual U-Net Network. <i>Remote Sensing</i> , <b>2019</b> , 11, 1091	5	22
41	Automatic Ship Detection Based on RetinaNet Using Multi-Resolution Gaofen-3 Imagery. <i>Remote Sensing</i> , <b>2019</b> , 11, 531	5	90
40	A SAR Dataset of Ship Detection for Deep Learning under Complex Backgrounds. <i>Remote Sensing</i> , <b>2019</b> , 11, 765	5	139
39	SAR object classification using the DAE with a modified triplet restriction. <i>IET Radar, Sonar and Navigation</i> , <b>2019</b> , 13, 1081-1091	1.4	8
38	Fine-grained ship classification based on deep residual learning for high-resolution SAR images. <i>Remote Sensing Letters</i> , <b>2019</b> , 10, 1095-1104	2.3	19
37	Large-Scale Rice Mapping of Thailand using Sentinel-1 Multi-Temporal SAR Data <b>2019</b> ,		3

36	Corn Fine Classification With Gf-3 High-Resolution Sar Data Based on Deep Learning <b>2019</b> ,		1
35	Roll-Invariant Target Parameter Extraction From POLSAR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 4502-4516	4-7	1
34	Deformation Feature Analysis of Qinghai-Tibet Railway Using TerraSAR-X and Sentinel-1A Time-Series Interferometry. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 5199-5212	4-7	7
33	Multi-Temporal SAR Data Large-Scale Crop Mapping Based on U-Net Model. <i>Remote Sensing</i> , <b>2019</b> , 11, 68	5	59
32	Analysis of Permafrost Region Coherence Variation in the Qinghai-Tibet Plateau with a High-Resolution TerraSAR-X Image. <i>Remote Sensing</i> , <b>2018</b> , 10, 298	5	32
31	Operational Built-Up Areas Extraction for Cities in China Using Sentinel-1 SAR Data. <i>Remote Sensing</i> , <b>2018</b> , 10, 874	5	8
30	Combining a single shot multibox detector with transfer learning for ship detection using sentinel-1 SAR images. <i>Remote Sensing Letters</i> , <b>2018</b> , 9, 780-788	2-3	43
29	Deformation Estimation for Time Series InSAR Using Simulated Annealing Algorithm. <i>Sensors</i> , <b>2018</b> , 19,	3-8	4
28	The deformation analysis of Wenjiagou giant landslide by the distributed scatterer interferometry technique. <i>Landslides</i> , <b>2018</b> , 15, 347-357	6-6	5
27	Permafrost Soil Moisture Monitoring Using Multi-Temporal TerraSAR-X Data in Beiluhe of Northern Tibet, China. <i>Remote Sensing</i> , <b>2018</b> , 10, 1577	5	7
26	Active Layer Thickness Retrieval of Qinghai-Tibet Permafrost Using the TerraSAR-X InSAR Technique. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2018</b> , 11, 4403-4413	4-7	29
25	Surface Deformation Monitoring in Zhengzhou City from 2014 to 2016 Using Time-Series InSAR. <i>Remote Sensing</i> , <b>2018</b> , 10, 1731	5	11
24	SAR Image Change Detection Using Saliency Extraction and Shearlet Transform. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2018</b> , 11, 4701-4710	4-7	14
23	Ship Classification in High-Resolution SAR Images Using Deep Learning of Small Datasets. <i>Sensors</i> , <b>2018</b> , 18,	3-8	40
22	Seasonal deformation features on Qinghai-Tibet railway observed using time-series InSAR technique with high-resolution TerraSAR-X images. <i>Remote Sensing Letters</i> , <b>2017</b> , 8, 1-10	2-3	36
21	Automatic Detection of Low-Rise Gable-Roof Building from Single Submeter SAR Images Based on Local Multilevel Segmentation. <i>Remote Sensing</i> , <b>2017</b> , 9, 263	5	8
20	Detectability Analysis of Road Vehicles in Radarsat-2 Fully Polarimetric SAR Images for Traffic Monitoring. <i>Sensors</i> , <b>2017</b> , 17,	3-8	3
19	Compact Polarimetric SAR Ship Detection with m-Decomposition Using Visual Attention Model. <i>Remote Sensing</i> , <b>2016</b> , 8, 751	5	12

18	Earthquake-Induced Building Damage Detection with Post-Event Sub-Meter VHR TerraSAR-X Staring Spotlight Imagery. <i>Remote Sensing</i> , <b>2016</b> , 8, 887	5	42
17	Multi-Sensor SAR Image Registration Based on Object Shape. <i>Remote Sensing</i> , <b>2016</b> , 8, 923	5	3
16	Monitoring permafrost soil moisture with multi-temporal TERRASAR-X data in northern tibet <b>2016</b> ,		3
15	Identification of changes in urban land cover type using fully polarimetric SAR data. <i>Remote Sensing Letters</i> , <b>2016</b> , 7, 691-700	2.3	6
14	A unified framework for crop classification in southern China using fully polarimetric, dual polarimetric, and compact polarimetric SAR data. <i>International Journal of Remote Sensing</i> , <b>2015</b> , 36, 3798-3818 <sup>19</sup>	3.1	19
13	An SAR ATR Method Based on Scattering Centre Feature and Bipartite Graph Matching. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , <b>2015</b> , 32, 364-375	1.5	10
12	Capability of Rice Mapping Using Hybrid Polarimetric SAR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2015</b> , 8, 3812-3822	4.7	17
11	Analysis of ground subsidence at a coal-mining area in Huainan using time-series InSAR. <i>International Journal of Remote Sensing</i> , <b>2015</b> , 36, 5790-5810	3.1	16
10	Polarimetric synthetic aperture radar change detection for specific land cover types. <i>International Journal of Digital Earth</i> , <b>2015</b> , 8, 334-344	3.9	4
9	Classification of Vessels in Single-Pol COSMO-SkyMed Images Based on Statistical and Structural Features. <i>Remote Sensing</i> , <b>2015</b> , 7, 5511-5533	5	12
8	Similarity analysis of entropy/alpha decomposition between HH/VV dual- and quad-polarization SAR data. <i>Remote Sensing Letters</i> , <b>2015</b> , 6, 228-237	2.3	5
7	Subsidence monitoring in coal area using time-series InSAR combining persistent scatterers and distributed scatterers. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2015</b> , 39, 49-55	7.3	23
6	A Novel Hierarchical Ship Classifier for COSMO-SkyMed SAR Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2014</b> , 11, 484-488	4.1	54
5	Investigation of the Capability of $\alpha$ Decomposition of Compact Polarimetric SAR. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2014</b> , 11, 868-872	4.1	15
4	A PolSAR ship detector based on a multi-polarimetric-feature combination using visual attention. <i>International Journal of Remote Sensing</i> , <b>2014</b> , 35, 7763-7774	3.1	11
3	Merchant Vessel Classification Based on Scattering Component Analysis for COSMO-SkyMed SAR Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2013</b> , 10, 1275-1279	4.1	38
2	Ground Deformation Retrieval Using Quasi Coherent Targets DInSAR, With Application to Suburban Area of Tianjin, China. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2012</b> , 5, 867-873	4.7	13
1	Rice Crop Monitoring in South China With RADARSAT-2 Quad-Polarization SAR Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2011</b> , 8, 196-200	4.1	80

