Hong Zhang

List of Publications by Year
in descending order

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79 papers	2,204 citations	279487 23 h-index	233125 45 g-index
79 all docs	79 docs citations	79 times ranked	1873 citing authors

#	Article	IF	Citations
1	SAR Image Ship Object Generation and Classification With Improved Residual Conditional Generative Adversarial Network. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	9
2	InSAR Phase Unwrapping by Deep Learning Based on Gradient Information Fusion. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	4
3	Interferometric SAR Observation of Permafrost Status in the Northern Qinghai-Tibet Plateau by ALOS, ALOS-2 and Sentinel-1 between 2007 and 2021. Remote Sensing, 2022, 14, 1870.	1.8	7
4	A Review of Satellite Synthetic Aperture Radar Interferometry Applications in Permafrost Regions: Current status, challenges, and trends. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 93-114.	4.9	20
5	Rice Mapping in a Subtropical Hilly Region Based on Sentinel-1 Time Series Feature Analysis and the Dual Branch BiLSTM Model. Remote Sensing, 2022, 14, 3213.	1.8	15
6	Soil Moisture Estimation based on the Distributed Scatterers Adaptive Filter over the QTP Permafrost Region using Sentinel-1 and High-resolution TerraSAR-X Data. International Journal of Remote Sensing, 2021, 42, 902-928.	1.3	6
7	Map and Quantify the Ground Deformation Around Salt Lake in Hoh Xil, Qinghai-Tibet Plateau Using Time-Series InSAR From 2006 to 2018. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 858-869.	2.3	12
8	Multitemporal Water Extraction of Dongting Lake and Poyang Lake Based on an Automatic Water Extraction and Dynamic Monitoring Framework. Remote Sensing, 2021, 13, 865.	1.8	26
9	First mapping of China surface movement using supercomputing interferometric SAR technique. Science Bulletin, 2021, 66, 1608-1608.	4.3	17
10	Time Series InSAR Three-Dimensional Displacement Inversion Model of Coal Mining Areas Based on Symmetrical Features of Mining Subsidence. Remote Sensing, 2021, 13, 2143.	1.8	27
11	Built-up area mapping in China from GF-3 SAR imagery based on the framework of deep learning. Remote Sensing of Environment, 2021, 262, 112515.	4.6	31
12	Parallel CS-InSAR for Mapping Nationwide Deformation in China. , 2021, , .		4
13	Sentinel-1 InSAR Measurements of Land Subsidence over Henan Province, China from 2018 To 2020. , 2021, , .		2
14	Synthetic Aperture Radar for SDGs in Big Data Era. , 2021, , .		2
15	High Performance Computing for CS-InSAR Data Processing. , 2021, , .		2
16	Rice Mapping Using a BiLSTM-Attention Model from Multitemporal Sentinel-1 Data. Agriculture (Switzerland), 2021, 11, 977.	1.4	7
17	Paddy Rice Mapping in Thailand Using Time-Series Sentinel-1 Data and Deep Learning Model. Remote Sensing, 2021, 13, 3994.	1.8	24
18	Improving CPT-InSAR Algorithm with Adaptive Coherent Distributed Pixels Selection. Remote Sensing, 2021, 13, 4784.	1.8	2

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19	Freeze-Thaw Deformation Cycles and Temporal-Spatial Distribution of Permafrost along the Qinghai-Tibet Railway Using Multitrack InSAR Processing. Remote Sensing, 2021, 13, 4744.	1.8	15
20	Detecting Rock Glacier Displacement in the Central Himalayas Using Multi-Temporal InSAR. Remote Sensing, 2021, 13, 4738.	1.8	17
21	MW-ACGAN: Generating Multiscale High-Resolution SAR Images for Ship Detection. Sensors, 2020, 20, 6673.	2.1	20
22	Multi-Temporal InSAR Parallel Processing for Sentinel-1 Large-Scale Surface Deformation Mapping. Remote Sensing, 2020, 12, 3749.	1.8	18
23	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. Sensors, 2020, 20, 4464.	2.1	17
24	Spaceborne SAR Data for Regional Urban Mapping Using a Robust Building Extractor. Remote Sensing, 2020, 12, 2791.	1.8	10
25	Active Layer Thickness Retrieval Over the Qinghai-Tibet Plateau Using Sentinel-1 Multitemporal InSAR Monitored Permafrost Subsidence and Temporal-Spatial Multilayer Soil Moisture Data. IEEE Access, 2020, 8, 84336-84351.	2.6	25
26	A Multi-Scale U-Shaped Convolution Auto-Encoder Based on Pyramid Pooling Module for Object Recognition in Synthetic Aperture Radar Images. Sensors, 2020, 20, 1533.	2.1	4
27	Quad-pol reconstruction from compact polarimetry using a fully convolutional network. Remote Sensing Letters, 2020, 11, 397-406.	0.6	7
28	A Two-Component Deep Learning Network for SAR Image Denoising. IEEE Access, 2020, 8, 17792-17803.	2.6	14
29	Monitoring of large-scale landslides in Zongling, Guizhou, China, with improved distributed scatterer interferometric SAR time series methods. Landslides, 2020, 17, 1777-1795.	2.7	28
30	Automatic Extraction of Built-Up Areas for Cities in China from GF-3 Images Based on Improved Residual U-Net Network. , 2020, , .		1
31	SAR object classification using the DAE with a modified triplet restriction. IET Radar, Sonar and Navigation, 2019, 13, 1081-1091.	0.9	9
32	Fine-grained ship classification based on deep residual learning for high-resolution SAR images. Remote Sensing Letters, 2019, 10, 1095-1104.	0.6	33
33	Large-Scale Rice Mapping of Thailand using Sentinel-1 Multi-Temporal SAR Data. , 2019, , .		8
34	Deformation Monitoring of Qinghai-Tibet Railway from 1997-2018 using SAR Interferometry with Multi-sensors SAR Datasets. , 2019, , .		1
35	Crop Classification Based on Temporal Information Using Sentinel-1 SAR Time-Series Data. Remote Sensing, 2019, 11, 53.	1.8	73
36	Operational Flood Detection Using Sentinel-1 SAR Data over Large Areas. Water (Switzerland), 2019, 11, 786.	1.2	88

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37	Time-Series InSAR Monitoring of Permafrost Freeze-Thaw Seasonal Displacement over Qinghaiâ€"Tibetan Plateau Using Sentinel-1 Data. Remote Sensing, 2019, 11, 1000.	1.8	45
38	Urban Building Change Detection in SAR Images Using Combined Differential Image and Residual U-Net Network. Remote Sensing, 2019, 11, 1091.	1.8	46
39	Automatic Ship Detection Based on RetinaNet Using Multi-Resolution Gaofen-3 Imagery. Remote Sensing, 2019, 11, 531.	1.8	181
40	A SAR Dataset of Ship Detection for Deep Learning under Complex Backgrounds. Remote Sensing, 2019, 11, 765.	1.8	291
41	Corn Fine Classification With Gf-3 High-Resolution Sar Data Based on Deep Learning. , 2019, , .		1
42	Structural Health and Stability Assessment of Qinghaiâ€"Tibet Power Transmission Line with Time-Series Insar Using X-Band Terrasar Data. , 2019, , .		1
43	Permafrost Subsidence Monitoring of Qinghai-Tibet Plateau using Sentinel-1 Data. , 2019, , .		0
44	Roll-Invariant Target Parameter Extraction From POLSAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4502-4516.	2.3	3
45	Deformation Feature Analysis of Qinghaiâ€"Tibet Railway Using TerraSAR-X and Sentinel-1A Time-Series Interferometry. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 5199-5212.	2.3	15
46	Multi-Temporal SAR Data Large-Scale Crop Mapping Based on U-Net Model. Remote Sensing, 2019, 11, 68.	1.8	102
47	Deformation Estimation for Time Series InSAR Using Simulated Annealing Algorithm. Sensors, 2019, 19, 115.	2.1	7
48	The deformation analysis of Wenjiagou giant landslide by the distributed scatterer interferometry technique. Landslides, 2018, 15, 347-357.	2.7	10
49	Permafrost Soil Moisture Monitoring Using Multi-Temporal TerraSAR-X Data in Beiluhe of Northern Tibet, China. Remote Sensing, 2018, 10, 1577.	1.8	9
50	Active Layer Thickness Retrieval of Qinghaiâ€"Tibet Permafrost Using the TerraSAR-X InSAR Technique. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4403-4413.	2.3	56
51	Surface Deformation Monitoring in Zhengzhou City from 2014 to 2016 Using Time-Series InSAR. Remote Sensing, 2018, 10, 1731.	1.8	19
52	SAR Image Change Detection Using Saliency Extraction and Shearlet Transform. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 4701-4710.	2.3	19
53	Ship Classification in High-Resolution SAR Images Using Deep Learning of Small Datasets. Sensors, 2018, 18, 2929.	2.1	79
54	Analysis of Permafrost Region Coherence Variation in the Qinghaiâ€"Tibet Plateau with a High-Resolution TerraSAR-X Image. Remote Sensing, 2018, 10, 298.	1.8	36

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55	Operational Built-Up Areas Extraction for Cities in China Using Sentinel-1 SAR Data. Remote Sensing, 2018, 10, 874.	1.8	17
56	Combining a single shot multibox detector with transfer learning for ship detection using sentinel-1 SAR images. Remote Sensing Letters, 2018, 9, 780-788.	0.6	78
57	Seasonal deformation features on Qinghai-Tibet railway observed using time-series InSAR technique with high-resolution TerraSAR-X images. Remote Sensing Letters, 2017, 8, 1-10.	0.6	51
58	Geometrical characteristics based building height extraction from VHR SAR imagery. , 2017, , .		1
59	Automatic Detection of Low-Rise Gable-Roof Building from Single Submeter SAR Images Based on Local Multilevel Segmentation. Remote Sensing, 2017, 9, 263.	1.8	10
60	Detectability Analysis of Road Vehicles in Radarsat-2 Fully Polarimetric SAR Images for Traffic Monitoring. Sensors, 2017, 17, 298.	2.1	6
61	Compact Polarimetric SAR Ship Detection with m-Î´ Decomposition Using Visual Attention Model. Remote Sensing, 2016, 8, 751.	1.8	14
62	Earthquake-Induced Building Damage Detection with Post-Event Sub-Meter VHR TerraSAR-X Staring Spotlight Imagery. Remote Sensing, 2016, 8, 887.	1.8	63
63	Multi-Sensor SAR Image Registration Based on Object Shape. Remote Sensing, 2016, 8, 923.	1.8	4
64	Monitoring permafrost soil moisture with multi-temporal TERRASAR-X data in northern tibet. , 2016, , .		3
65	Identification of changes in urban land cover type using fully polarimetric SAR data. Remote Sensing Letters, 2016, 7, 691-700.	0.6	6
66	Classification of Vessels in Single-Pol COSMO-SkyMed Images Based on Statistical and Structural Features. Remote Sensing, 2015, 7, 5511-5533.	1.8	20
67	Similarity analysis of entropy/alpha decomposition between HH/VV dual- and quad-polarization SAR data. Remote Sensing Letters, 2015, 6, 228-237.	0.6	8
68	Subsidence monitoring in coal area using time-series InSAR combining persistent scatterers and distributed scatterers. International Journal of Applied Earth Observation and Geoinformation, 2015, 39, 49-55.	1.4	29
69	A unified framework for crop classification in southern China using fully polarimetric, dual polarimetric, and compact polarimetric SAR data. International Journal of Remote Sensing, 2015, 36, 3798-3818.	1.3	29
70	An SAR ATR Method Based on Scattering Centre Feature and Bipartite Graph Matching. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2015, 32, 364-375.	2.1	13
71	Capability of Rice Mapping Using Hybrid Polarimetric SAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3812-3822.	2.3	24
72	Analysis of ground subsidence at a coal-mining area in Huainan using time-series InSAR. International Journal of Remote Sensing, 2015, 36, 5790-5810.	1.3	22

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73	Polarimetric synthetic aperture radar change detection for specific land cover types. International Journal of Digital Earth, 2015, 8, 334-344.	1.6	8
74	A PolSAR ship detector based on a multi-polarimetric-feature combination using visual attention. International Journal of Remote Sensing, 2014, 35, 7763-7774.	1.3	16
75	A Novel Hierarchical Ship Classifier for COSMO-SkyMed SAR Data. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 484-488.	1.4	69
76	Investigation of the Capability of $Hhbox{-}alpha$ Decomposition of Compact Polarimetric SAR. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 868-872.	1.4	24
77	Merchant Vessel Classification Based on Scattering Component Analysis for COSMO-SkyMed SAR Images. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1275-1279.	1.4	53
78	Ground Deformation Retrieval Using Quasi Coherent Targets DInSAR, With Application to Suburban Area of Tianjin, China. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 867-873.	2.3	14
79	Rice Crop Monitoring in South China With RADARSAT-2 Quad-Polarization SAR Data. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 196-200.	1.4	97