

Xiao Cheng

List of Publications by Year in descending order

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76
papers

1,183
citations

471509

17
h-index

477307

29
g-index

83
all docs

83
docs citations

83
times ranked

1649
citing authors

#	ARTICLE	IF	CITATIONS
1	Ocean-driven thinning enhances iceberg calving and retreat of Antarctic ice shelves. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3263-3268.	7.1	182
2	Performance evaluation of GEDI and ICESat-2 laser altimeter data for terrain and canopy height retrievals. Remote Sensing of Environment, 2021, 264, 112571.	11.0	133
3	A Monitoring System for Vegetable Greenhouses based on a Wireless Sensor Network. Sensors, 2010, 10, 8963-8980.	3.8	53
4	Quantifying economic impacts of climate change under nine future emission scenarios within CMIP6. Science of the Total Environment, 2020, 703, 134950.	8.0	39
5	Remote Sensing of Environmental Changes in Cold Regions: Methods, Achievements and Challenges. Remote Sensing, 2019, 11, 1952.	4.0	34
6	Deep Learning Based Sea Ice Classification with Gaofen-3 Fully Polarimetric SAR Data. Remote Sensing, 2021, 13, 1452.	4.0	30
7	Towards reliable Arctic sea ice prediction using multivariate data assimilation. Science Bulletin, 2019, 64, 63-72.	9.0	27
8	Opportunities and challenges of applications of satellite-derived sun-induced fluorescence at relatively high spatial resolution. Science of the Total Environment, 2018, 619-620, 649-653.	8.0	26
9	Resolving Fine-Scale Surface Features on Polar Sea Ice: A First Assessment of UAS Photogrammetry Without Ground Control. Remote Sensing, 2019, 11, 784.	4.0	25
10	Design and Implementation of a Wireless Sensor Network-Based Remote Water-Level Monitoring System. Sensors, 2011, 11, 1706-1720.	3.8	23
11	A new surface meltwater routing model for use on the Greenland Ice Sheet surface. Cryosphere, 2018, 12, 3791-3811.	3.9	23
12	Supraglacial rivers on the northwest Greenland Ice Sheet, Devon Ice Cap, and Barnes Ice Cap mapped using Sentinel-2 imagery. International Journal of Applied Earth Observation and Geoinformation, 2019, 78, 1-13.	2.8	22
13	Evaluation of 2-m Air Temperature and Surface Temperature from ERA5 and ERA-I Using Buoy Observations in the Arctic during 2010-2020. Remote Sensing, 2021, 13, 2813.	4.0	21
14	Satellite-Based Sea Ice Navigation for Prydz Bay, East Antarctica. Remote Sensing, 2017, 9, 518.	4.0	20
15	The potential of sea ice leads as a predictor for summer Arctic sea ice extent. Cryosphere, 2018, 12, 3747-3757.	3.9	20
16	Monitoring the tabular icebergs C28A and C28B calved from the Mertz Ice Tongue using radar remote sensing data. Remote Sensing of Environment, 2018, 216, 615-625.	11.0	19
17	Retrieval of Snow Depth over Arctic Sea Ice Using a Deep Neural Network. Remote Sensing, 2019, 11, 2864.	4.0	19
18	UAV-Based Photogrammetry and LiDAR for the Characterization of Ice Morphology Evolution. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4188-4199.	4.9	19

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19	Revealing the early ice flow patterns with historical Declassified Intelligence Satellite Photographs back to 1960s. <i>Geophysical Research Letters</i> , 2016, 43, 5758-5767.	4.0	18
20	Seasonal patterns of canopy photosynthesis captured by remotely sensed sun-induced fluorescence and vegetation indexes in mid-to-high latitude forests: A cross-platform comparison. <i>Science of the Total Environment</i> , 2018, 644, 439-451.	8.0	17
21	Limitations and Challenges of MODIS-Derived Phenological Metrics Across Different Landscapes in Pan-Arctic Regions. <i>Remote Sensing</i> , 2018, 10, 1784.	4.0	16
22	Automatically Extracted Antarctic Coastline Using Remotely-Sensed Data: An Update. <i>Remote Sensing</i> , 2019, 11, 1844.	4.0	15
23	MYI Floes Identification Based on the Texture and Shape Feature from Dual-Polarized Sentinel-1 Imagery. <i>Remote Sensing</i> , 2020, 12, 3221.	4.0	15
24	A new image mosaic of Greenland using Landsat-8 OLI images. <i>Science Bulletin</i> , 2020, 65, 522-524.	9.0	15
25	Time Series Phase Unwrapping Based on Graph Theory and Compressed Sensing. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-12.	6.3	15
26	Glacier Velocity Changes in the Himalayas in Relation to Ice Mass Balance. <i>Remote Sensing</i> , 2021, 13, 3825.	4.0	14
27	Vegetation grows more luxuriantly in Arctic permafrost drained lake basins. <i>Global Change Biology</i> , 2021, 27, 5865-5876.	9.5	13
28	Antarctic Surface Ice Velocity Retrieval from MODIS-Based Mosaic of Antarctica (MOA). <i>Remote Sensing</i> , 2018, 10, 1045.	4.0	12
29	Delay in Arctic Sea Ice Freeze-Up Linked to Early Summer Sea Ice Loss: Evidence from Satellite Observations. <i>Remote Sensing</i> , 2021, 13, 2162.	4.0	12
30	Automatic Extraction of Supraglacial Lakes in Southwest Greenland during the 2014â€“2018 Melt Seasons Based on Convolutional Neural Network. <i>Water (Switzerland)</i> , 2020, 12, 891.	2.7	11
31	The spatio-temporal patterns of landfast ice in Antarctica during 2006â€“2011 and 2016â€“2017 using high-resolution SAR imagery. <i>Remote Sensing of Environment</i> , 2020, 242, 111736.	11.0	11
32	An Intercomparison of Satellite Derived Arctic Sea Ice Motion Products. <i>Remote Sensing</i> , 2022, 14, 1261.	4.0	11
33	Retrieval of Melt Pond Fraction over Arctic Sea Ice during 2000â€“2019 Using an Ensemble-Based Deep Neural Network. <i>Remote Sensing</i> , 2020, 12, 2746.	4.0	10
34	How Do Weakening of the Stratospheric Polar Vortex in the Southern Hemisphere Affect Regional Antarctic Sea Ice Extent?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092582.	4.0	10
35	A 15-year circum-Antarctic iceberg calving dataset derived from continuous satellite observations. <i>Earth System Science Data</i> , 2021, 13, 4583-4601.	9.9	10
36	Landsat-Based Monitoring of Landscape Dynamics in Arctic Permafrost Region. <i>Journal of Remote Sensing</i> , 2022, 2022, .	6.7	10

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37	Semi-Automatic Mapping of Tidal Cracks in the Fast Ice Region near Zhongshan Station in East Antarctica Using Landsat-8 OLI Imagery. <i>Remote Sensing</i> , 2016, 8, 242.	4.0	9
38	Aerial photography based census of Ad�lie Penguin and its application in CH4 and N2O budget estimation in Victoria Land, Antarctic. <i>Scientific Reports</i> , 2017, 7, 12942.	3.3	9
39	Using the Google Earth Engine to estimate a 10�m resolution monthly inventory of soil fugitive dust emissions in Beijing, China. <i>Science of the Total Environment</i> , 2020, 735, 139174.	8.0	9
40	Accuracy Evaluation on Geolocation of the Chinese First Polar Microsatellite (Ice Pathfinder) Imagery. <i>Remote Sensing</i> , 2021, 13, 4278.	4.0	9
41	Detection of thermokarst lake drainage events in the northern Alaska permafrost region. <i>Science of the Total Environment</i> , 2022, 807, 150828.	8.0	9
42	Greenland Ice Sheet Daily Surface Melt Flux Observed From Space. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	9
43	Is Enhanced Predictability of the Amundsen Sea Low in Subseasonal to Seasonal Hindcasts Linked to Stratosphere�Troposphere Coupling?. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089700.	4.0	8
44	Recent and imminent calving events do little to impair Amery ice shelf�s stability. <i>Acta Oceanologica Sinica</i> , 2020, 39, 168-170.	1.0	8
45	Distribution and Evolution of Supraglacial Lakes in Greenland during the 2016�2018 Melt Seasons. <i>Remote Sensing</i> , 2022, 14, 55.	4.0	8
46	A Multi-Interface Ice and Snow Remote Monitoring Platform in the Polar Region. <i>IEEE Sensors Journal</i> , 2014, 14, 3738-3744.	4.7	7
47	<i>Xuelong</i> Navigation in Fast Ice Near the Zhongshan Station, Antarctica. <i>Marine Technology Society Journal</i> , 2014, 48, 84-91.	0.4	7
48	Sea-ice conditions in the Ad�lie Depression, Antarctica, during besetment of the icebreaker RVXuelong. <i>Annals of Glaciology</i> , 2015, 56, 160-166.	1.4	7
49	Grounding and calving cycle of Mertz Ice Tongue revealed by shallow Mertz Bank. <i>Cryosphere</i> , 2016, 10, 2043-2056.	3.9	7
50	Intercomparison of Arctic Sea Ice Backscatter and Ice Type Classification Using Ku-Band and C-Band Scatterometers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-18.	6.3	7
51	Recent Changes in Groundwater and Surface Water in Large Pan-Arctic River Basins. <i>Remote Sensing</i> , 2022, 14, 607.	4.0	7
52	Validation of Remote Sensing Retrieval Products using Data from a Wireless Sensor-Based Online Monitoring in Antarctica. <i>Sensors</i> , 2016, 16, 1938.	3.8	6
53	Uniqueness of Lekima compared to tropical cyclones landed in the east coast of China during 1979�2019. <i>Acta Oceanologica Sinica</i> , 2020, 39, 121-124.	1.0	6
54	Efficient Location and Extraction of the Iceberg Calved Areas of the Antarctic Ice Shelves. <i>Remote Sensing</i> , 2020, 12, 2658.	4.0	6

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55	Lagged response of AdÃ©lie penguin (<i>Pygoscelis adeliae</i>) abundance to environmental variability in the Ross Sea, Antarctica. <i>Polar Biology</i> , 2020, 43, 1769-1781.	1.2	6
56	Assessment of Snow Depth over Arctic Sea Ice in CMIP6 Models Using Satellite Data. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 168-186.	4.3	6
57	Fine-resolution mapping of the circumpolar Arctic Man-made impervious areas (CAMI) using sentinels, OpenStreetMap and ArcticDEM. <i>Big Earth Data</i> , 2022, 6, 196-218.	4.4	6
58	Investigation of Polarimetric Decomposition for Arctic Summer Sea Ice Classification Using Gaofen-3 Fully Polarimetric SAR Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 3904-3915.	4.9	6
59	The effect of seafloor topography in the Southern Ocean on tabular iceberg drifting and grounding. <i>Science China Earth Sciences</i> , 2017, 60, 697-706.	5.2	5
60	The seasonal cycle and break-up of landfast sea ice along the northwest coast of Kotelný Island, East Siberian Sea. <i>Journal of Glaciology</i> , 2022, 68, 153-165.	2.2	5
61	Global Snowmelt Onset Reflects Climate Variability: Insights from Spaceborne Radiometer Observations. <i>Journal of Climate</i> , 2022, 35, 2945-2959.	3.2	5
62	Fine-Resolution Mapping of Pan-Arctic Lake Ice-Off Phenology Based on Dense Sentinel-2 Time Series Data. <i>Remote Sensing</i> , 2021, 13, 2742.	4.0	4
63	Effectively Extracting Iceberg Freeboard Using Bi-Temporal Landsat-8 Panchromatic Image Shadows. <i>Remote Sensing</i> , 2021, 13, 430.	4.0	4
64	An Accurate and Automated Method for Identifying and Mapping Exposed Rock Outcrop in Antarctica Using Landsat 8 Images. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018, 11, 57-67.	4.9	3
65	Fingerprint of COVID-19 in Arctic sea ice changes. <i>Science Bulletin</i> , 2021, 66, 2050-2053.	9.0	3
66	Australian Coastal Sea Level Trends Over 16Ãyr of Reprocessed Jason Altimeter 20ÃHz Data Sets. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	3
67	New Advances on Environment Monitoring with Wireless Sensor Network. <i>International Journal of Distributed Sensor Networks</i> , 2016, 12, 2378070.	2.2	2
68	Ocean contributes to the melting of the Jakobshavn Glacier front. <i>Science China Earth Sciences</i> , 2020, 63, 405-411.	5.2	2
69	Retreating Shorelines as an Emerging Threat to AdÃ©lie Penguins on Inexpressible Island. <i>Remote Sensing</i> , 2021, 13, 4718.	4.0	2
70	An Improved Side Scan Sonar Image Processing Framework for Autonomous Underwater Vehicle Navigation. , 2021, , .		2
71	Grounding Event of Iceberg D28 and Its Interactions with Seabed Topography. <i>Remote Sensing</i> , 2022, 14, 154.	4.0	2
72	Decadal Changes in Greenland Ice Sheet Firn Aquifers from Radar Scatterometer. <i>Remote Sensing</i> , 2022, 14, 2134.	4.0	2

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73	On the Synergy of SMAP and AMSR2 for Estimating Snow Depth on Arctic Sea Ice. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	2
74	Improving the observation and prediction capabilities for Arctic marine environment: from the perspective of Arctic Shipping. Acta Oceanologica Sinica, 2021, 40, 1-3.	1.0	1
75	Concept-driven extraction of the Antarctic marginal sea ice zone from remote sensing image time series. Spatial Statistics, 2022, , 100578.	1.9	1
76	Structural and Operational Optimization of A Flapping Fin Used as A Self-Propulsor for AUV Propulsion. China Ocean Engineering, 2022, 36, 86-99.	1.6	1