

# 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	Time Series Phase Unwrapping Based on Graph Theory and Compressed Sensing. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	15
2	Intercomparison of Arctic Sea Ice Backscatter and Ice Type Classification Using Ku-Band and C-Band Scatterometers. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-18.	6.3	7
3	The seasonal cycle and break-up of landfast sea ice along the northwest coast of Kotelnny Island, East Siberian Sea. Journal of Glaciology, 2022, 68, 153-165.	2.2	5
4	Detection of thermokarst lake drainage events in the northern Alaska permafrost region. Science of the Total Environment, 2022, 807, 150828.	8.0	9
5	Concept-driven extraction of the Antarctic marginal sea ice zone from remote sensing image time series. Spatial Statistics, 2022, , 100578.	1.9	1
6	Recent Changes in Groundwater and Surface Water in Large Pan-Arctic River Basins. Remote Sensing, 2022, 14, 607.	4.0	7
7	Fine-resolution mapping of the circumpolar Arctic Man-made impervious areas (CAMI) using sentinels, OpenStreetMap and ArcticDEM. Big Earth Data, 2022, 6, 196-218.	4.4	6
8	Global Snowmelt Onset Reflects Climate Variability: Insights from Spaceborne Radiometer Observations. Journal of Climate, 2022, 35, 2945-2959.	3.2	5
9	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
10	Australian Coastal Sea Level Trends Over 16Âyrs of Reprocessed Jason Altimeter 20â€Hz Data Sets. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	3
11	An Intercomparison of Satellite Derived Arctic Sea Ice Motion Products. Remote Sensing, 2022, 14, 1261.	4.0	11
12	Greenland Ice Sheet Daily Surface Melt Flux Observed From Space. Geophysical Research Letters, 2022, 49, .	4.0	9
13	Grounding Event of Iceberg D28 and Its Interactions with Seabed Topography. Remote Sensing, 2022, 14, 154.	4.0	2
14	Distribution and Evolution of Supraglacial Lakes in Greenland during the 2016â€“2018 Melt Seasons. Remote Sensing, 2022, 14, 55.	4.0	8
15	Investigation of Polarimetric Decomposition for Arctic Summer Sea Ice Classification Using Gaofen-3 Fully Polarimetric SAR Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3904-3915.	4.9	6
16	Landsat-Based Monitoring of Landscape Dynamics in Arctic Permafrost Region. Journal of Remote Sensing, 2022, 2022, .	6.7	10
17	Decadal Changes in Greenland Ice Sheet Firn Aquifers from Radar Scatterometer. Remote Sensing, 2022, 14, 2134.	4.0	2
18	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

#	ARTICLE	IF	CITATIONS
19	Deep Learning Based Sea Ice Classification with Gaofen-3 Fully Polarimetric SAR Data. Remote Sensing, 2021, 13, 1452.	4.0	30
20	Delay in Arctic Sea Ice Freeze-Up Linked to Early Summer Sea Ice Loss: Evidence from Satellite Observations. Remote Sensing, 2021, 13, 2162.	4.0	12
21	How Do Weakening of the Stratospheric Polar Vortex in the Southern Hemisphere Affect Regional Antarctic Sea Ice Extent?. Geophysical Research Letters, 2021, 48, e2021GL092582.	4.0	10
22	Evaluation of 2-m Air Temperature and Surface Temperature from ERA5 and ERA-I Using Buoy Observations in the Arctic during 2010â€“2020. Remote Sensing, 2021, 13, 2813.	4.0	21
23	Fine-Resolution Mapping of Pan-Arctic Lake Ice-Off Phenology Based on Dense Sentinel-2 Time Series Data. Remote Sensing, 2021, 13, 2742.	4.0	4
24	Vegetation grows more luxuriantly in Arctic permafrost drained lake basins. Global Change Biology, 2021, 27, 5865-5876.	9.5	13
25	Glacier Velocity Changes in the Himalayas in Relation to Ice Mass Balance. Remote Sensing, 2021, 13, 3825.	4.0	14
26	A 15-year circum-Antarctic iceberg calving dataset derived from continuous satellite observations. Earth System Science Data, 2021, 13, 4583-4601.	9.9	10
27	Fingerprint of COVID-19 in Arctic sea ice changes. Science Bulletin, 2021, 66, 2050-2053.	9.0	3
28	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
29	Effectively Extracting Iceberg Freeboard Using Bi-Temporal Landsat-8 Panchromatic Image Shadows. Remote Sensing, 2021, 13, 430.	4.0	4
30	Assessment of Snow Depth over Arctic Sea Ice in CMIP6 Models Using Satellite Data. Advances in Atmospheric Sciences, 2021, 38, 168-186.	4.3	6
31	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
32	Accuracy Evaluation on Geolocation of the Chinese First Polar Microsatellite (Ice Pathfinder) Imagery. Remote Sensing, 2021, 13, 4278.	4.0	9
33	Retreating Shorelines as an Emerging Threat to AdÃ©lie Penguins on Inexpressible Island. Remote Sensing, 2021, 13, 4718.	4.0	2
34	An Improved Side Scan Sonar Image Processing Framework for Autonomous Underwater Vehicle Navigation. , 2021, , .		2
35	Quantifying economic impacts of climate change under nine future emission scenarios within CMIP6. Science of the Total Environment, 2020, 703, 134950.	8.0	39
36	Ocean contributes to the melting of the Jakobshavn Glacier front. Science China Earth Sciences, 2020, 63, 405-411.	5.2	2

#	ARTICLE	IF	CITATIONS
37	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
38	Uniqueness of Lekima compared to tropical cyclones landed in the east coast of China during 1979â€“2019. Acta Oceanologica Sinica, 2020, 39, 121-124.	1.0	6
39	Retrieval of Melt Pond Fraction over Arctic Sea Ice during 2000â€“2019 Using an Ensemble-Based Deep Neural Network. Remote Sensing, 2020, 12, 2746.	4.0	10
40	Is Enhanced Predictability of the Amundsen Sea Low in Subseasonal to Seasonal Hindcasts Linked to Stratosphereâ€“Troposphere Coupling?. Geophysical Research Letters, 2020, 47, e2020GL089700.	4.0	8
41	Efficient Location and Extraction of the Iceberg Calved Areas of the Antarctic Ice Shelves. Remote Sensing, 2020, 12, 2658.	4.0	6
42	Lagged response of AdÃ©lie penguin ( <i>Pygoscelis adeliae</i> ) abundance to environmental variability in the Ross Sea, Antarctica. Polar Biology, 2020, 43, 1769-1781.	1.2	6
43	MYI Floes Identification Based on the Texture and Shape Feature from Dual-Polarized Sentinel-1 Imagery. Remote Sensing, 2020, 12, 3221.	4.0	15
44	Automatic Extraction of Supraglacial Lakes in Southwest Greenland during the 2014â€“2018 Melt Seasons Based on Convolutional Neural Network. Water (Switzerland), 2020, 12, 891.	2.7	11
45	Using the Google Earth Engine to estimate a 10Ãm resolution monthly inventory of soil fugitive dust emissions in Beijing, China. Science of the Total Environment, 2020, 735, 139174.	8.0	9
46	Recent and imminent calving events do little to impair Amery ice shelfâ€™s stability. Acta Oceanologica Sinica, 2020, 39, 168-170.	1.0	8
47	A new image mosaic of Greenland using Landsat-8 OLI images. Science Bulletin, 2020, 65, 522-524.	9.0	15
48	The spatio-temporal patterns of landfast ice in Antarctica during 2006â€“2011 and 2016â€“2017 using high-resolution SAR imagery. Remote Sensing of Environment, 2020, 242, 111736.	11.0	11
49	Remote Sensing of Environmental Changes in Cold Regions: Methods, Achievements and Challenges. Remote Sensing, 2019, 11, 1952.	4.0	34
50	Automatically Extracted Antarctic Coastline Using Remotely-Sensed Data: An Update. Remote Sensing, 2019, 11, 1844.	4.0	15
51	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
52	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
53	Retrieval of Snow Depth over Arctic Sea Ice Using a Deep Neural Network. Remote Sensing, 2019, 11, 2864.	4.0	19
54	Towards reliable Arctic sea ice prediction using multivariate data assimilation. Science Bulletin, 2019, 64, 63-72.	9.0	27

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55	An Accurate and Automated Method for Identifying and Mapping Exposed Rock Outcrop in Antarctica Using Landsat 8 Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 57-67.	4.9	3
56	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
57	The potential of sea ice leads as a predictor for summer Arctic sea ice extent. Cryosphere, 2018, 12, 3747-3757.	3.9	20
58	Limitations and Challenges of MODIS-Derived Phenological Metrics Across Different Landscapes in Pan-Arctic Regions. Remote Sensing, 2018, 10, 1784.	4.0	16
59	A new surface meltwater routing model for use on the Greenland Ice Sheet surface. Cryosphere, 2018, 12, 3791-3811.	3.9	23
60	Antarctic Surface Ice Velocity Retrieval from MODIS-Based Mosaic of Antarctica (MOA). Remote Sensing, 2018, 10, 1045.	4.0	12
61	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
62	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. Science of the Total Environment, 2018, 644, 439-451.	8.0	17
63	Aerial photography based census of AdÃ©lie Penguin and its application in CH4 and N2O budget estimation in Victoria Land, Antarctic. Scientific Reports, 2017, 7, 12942.	3.3	9
64	The effect of seafloor topography in the Southern Ocean on tabular iceberg drifting and grounding. Science China Earth Sciences, 2017, 60, 697-706.	5.2	5
65	Satellite-Based Sea Ice Navigation for Prydz Bay, East Antarctica. Remote Sensing, 2017, 9, 518.	4.0	20
66	Grounding and calving cycle of Mertz Ice Tongue revealed by shallow Mertz Bank. Cryosphere, 2016, 10, 2043-2056.	3.9	7
67	Semi-Automatic Mapping of Tidal Cracks in the Fast Ice Region near Zhongshan Station in East Antarctica Using Landsat-8 OLI Imagery. Remote Sensing, 2016, 8, 242.	4.0	9
68	Validation of Remote Sensing Retrieval Products using Data from a Wireless Sensor-Based Online Monitoring in Antarctica. Sensors, 2016, 16, 1938.	3.8	6
69	New Advances on Environment Monitoring with Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2016, 12, 2378070.	2.2	2
70	Revealing the early ice flow patterns with historical Declassified Intelligence Satellite Photographs back to 1960s. Geophysical Research Letters, 2016, 43, 5758-5767.	4.0	18
71	Sea-ice conditions in the AdÃ©lie Depression, Antarctica, during besetment of the icebreaker RVXuelong. Annals of Glaciology, 2015, 56, 160-166.	1.4	7
72	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

#	ARTICLE	IF	CITATIONS
73	A Multi-Interface Ice and Snow Remote Monitoring Platform in the Polar Region. IEEE Sensors Journal, 2014, 14, 3738-3744.	4.7	7
74	<i>Xuelong</i> Navigation in Fast Ice Near the Zhongshan Station, Antarctica. Marine Technology Society Journal, 2014, 48, 84-91.	0.4	7
75	Design and Implementation of a Wireless Sensor Network-Based Remote Water-Level Monitoring System. Sensors, 2011, 11, 1706-1720.	3.8	23
76	A Monitoring System for Vegetable Greenhouses based on a Wireless Sensor Network. Sensors, 2010, 10, 8963-8980.	3.8	53