Cun-de Xiao

List of Publications by Year
in descending order

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85	2,668	361413	206112
papers	citations	20 h-index	48 g-index

85	85	85	3057
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatial and temporal variations of total mercury in Antarctic snow along the transect from Zhongshan Station to Dome A. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 25152.	1.6	17
2	Mismatch between the population and meltwater changes creates opportunities and risks for global glacier-fed basins. Science Bulletin, 2022, 67, 9-12.	9.0	20
3	Importance and vulnerability of water towers across Northwest China. Advances in Climate Change Research, 2022, 13, 63-72.	5.1	4
4	CH4 and CO2 observations from a melting high mountain glacier, Laohugou Glacier No. 12. Advances in Climate Change Research, 2022, 13, 146-155.	5.1	10
5	Bidecadal Temperature Anomalies Over the Tibetan Plateau and Arctic in Response to the 1450s Volcanic Eruptions. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	2
6	Upwelling of Atlantic Water in Barrow Canyon, Chukchi Sea. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	4
7	In-situ measurement on airâ€“water flux of CH4, CO2 and their carbon stable isotope in lakes of northeast Tibetan Plateau. Advances in Climate Change Research, 2022, 13, 279-289.	5.1	14
8	Sedimentary organic carbon storage of thermokarst lakes and ponds across Tibetan permafrost region. Science of the Total Environment, 2022, 831, 154761.	8.0	4
9	Iron in the NEEM ice core relative to Asian loess records over the last glacialâ€“interglacial cycle. National Science Review, 2021, 8, nwaa144.	9.5	6
10	Snow cover loss compounding the future economic vulnerability of western China. Science of the Total Environment, 2021, 755, 143025.	8.0	20
11	Spatial Variability of Glaciochemistry along a Transect from Zhongshan Station to LGB69, Antarctica. Atmosphere, 2021, 12, 393.	2.3	1
12	Modulation of the relationship between summer temperatures in the Qinghaiâ€“Tibetan Plateau and Arctic over the past millennium by external forcings. Quaternary Research, 2021, 103, 130-138.	1.7	6
13	A Preliminary Investigation of Arctic Sea Ice Negative Freeboard from in-situ Observations and Radar Altimetry. Journal of Ocean University of China, 2021, 20, 307-314.	1.2	1
14	Variability of Antarctic sea ice extent over the past 200Âyears. Science Bulletin, 2021, 66, 2394-2404.	9.0	12
15	Evaluating Cryospheric Water Withdrawal and Virtual Water Flows in Tarim River Basin of China: An Inputâ€“Output Analysis. Sustainability, 2021, 13, 7589.	3.2	2
16	Increasing Difference in Interannual Summertime Surface Air Temperature Between Interior East Antarctica and the Antarctic Peninsula Under Future Climate Scenarios. Geophysical Research Letters, 2021, 48, e2020GL092031.	4.0	2
17	Tropical teleconnection impacts on Antarctic climate changes. Nature Reviews Earth & Environment, 2021, 2, 680-698.	29.7	85
18	High methane emissions from thermokarst lakes on the Tibetan Plateau are largely attributed to ebullition fluxes. Science of the Total Environment, 2021, 801, 149692.	8.0	27

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19	Cascading costs of snow cover reduction trend in northern hemisphere. Science of the Total Environment, 2021, 806, 150970.	8.0	1
20	Sentinelâ€Based Inventory of Thermokarst Lakes and Ponds Across Permafrost Landscapes on the Qinghaiâ€Tibet Plateau. Earth and Space Science, 2021, 8, e2021EA001950.	2.6	31
21	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	9.1	306
22	Importance and vulnerability of the worldâ€™s water towers. Nature, 2020, 577, 364-369.	27.8	885
23	Estimation of the Atmospheric Ice Content Mass, Spatial Distribution, and Longâ€Term Changes Based on the ERA5 Reanalysis. Geophysical Research Letters, 2020, 47, e2020GL088186.	4.0	5
24	Larger Sensitivity of Arctic Precipitation Phase to Aerosol than Greenhouse Gas Forcing. Geophysical Research Letters, 2020, 47, e2020GL090452.	4.0	10
25	Towards More Snow Days in Summer since 2001 at the Great Wall Station, Antarctic Peninsula: The Role of the Amundsen Sea Low. Advances in Atmospheric Sciences, 2020, 37, 494-504.	4.3	11
26	The iron records and its sources during 1990â€“2017 from the Lambert Glacial Basin shallow ice core, East Antarctica. Chemosphere, 2020, 251, 126399.	8.2	6
27	A shallow ice core from East Greenland showing a reduction in black carbon during 1990â€“2016. Advances in Climate Change Research, 2020, 11, 360-369.	5.1	0
28	Sea Salt Sodium Record in a Shallow Ice Core from East Antarctica as a Potential Proxy of the Antarctic Sea Ice Extent in Southern Indian Ocean. Journal of Ocean University of China, 2019, 18, 1351-1359.	1.2	3
29	Condensed Matter Researches in Cryospheric Science. Condensed Matter, 2019, 4, 68.	1.8	0
30	A 300-Year High-Resolution Greenland Ice Record of Large-Scale Atmospheric Pollution by Arsenic in the Northern Hemisphere. Environmental Science & Technology, 2019, 53, 12999-13008.	10.0	6
31	Cryosphere Services and Human Well-Being. Sustainability, 2019, 11, 4365.	3.2	25
32	Comparison of Srâ€“Ndâ€“Pb isotopes in insoluble dust between northwestern China and high-latitude regions in the Northern Hemisphere. Atmospheric Environment, 2019, 214, 116837.	4.1	7
33	Relationship between the 2014â€“2015 Holuhraun eruption and the iron record in the East GRIP snow pit. Arctic, Antarctic, and Alpine Research, 2019, 51, 290-298.	1.1	8
34	A key factor initiating surface ablation of Arctic sea ice: earlier and increasing liquid precipitation. Cryosphere, 2019, 13, 1233-1246.	3.9	21
35	The Spatial Pattern of Ski Areas and Its Driving Factors in China: A Strategy for Healthy Development of the Ski Industry. Sustainability, 2019, 11, 3138.	3.2	17
36	Fe variation characteristics and sources in snow samples along a traverse from Zhongshan Station to Dome A, East Antarctica. Science of the Total Environment, 2019, 675, 380-389.	8.0	6

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37	Dust provenance in Pan-third pole modern glacierized regions: What is the regional source?. Environmental Pollution, 2019, 250, 762-772.	7.5	9
38	Climatic and environmental signals recorded in the EGRIP snowpit, Greenland. Environmental Earth Sciences, 2019, 78, 1.	2.7	9
39	Quantifying the developed and developing worldsâ€™ carbon reduction contributions to Northern Hemisphere cryosphere change. International Journal of Climatology, 2019, 39, 3231-3240.	3.5	1
40	Iron record associated with sandstorms in a central Asian shallow ice core spanning 1956â€“2004. Atmospheric Environment, 2019, 203, 121-130.	4.1	5
41	The perchlorate record during 1956â€“2004 from Tienshan ice core, East Asia. Science of the Total Environment, 2019, 656, 1121-1132.	8.0	11
42	Cascading risks to the deterioration in cryospheric functions and services. Chinese Science Bulletin, 2019, 64, 1975-1984.	0.7	14
43	Greenland records of aerosol source and atmospheric lifetime changes from the Eemian to the Holocene. Nature Communications, 2018, 9, 1476.	12.8	74
44	Cryospheric Science: research framework and disciplinary system. National Science Review, 2018, 5, 255-268.	9.5	82
45	Reconstruction of autumn sea ice extent changes since AD1289 in the Barents-Kara Sea, Arctic. Science China Earth Sciences, 2018, 61, 1279-1291.	5.2	7
46	The evolution and volcanic forcing of the southern annular mode during the past 300 years. International Journal of Climatology, 2018, 38, 1706-1717.	3.5	10
47	Identification of multiple natural and anthropogenic sources of dust in snow from Zhongshan Station to Dome A, East Antarctica. Journal of Glaciology, 2018, 64, 855-865.	2.2	18
48	Perspectives of XRF and XANES Applications in Cryospheric Sciences Using Chinese SR Facilities. Condensed Matter, 2018, 3, 29.	1.8	4
49	Projection of future streamflow of the Hunza River Basin, Karakoram Range (Pakistan) using HBV hydrological model. Journal of Mountain Science, 2018, 15, 2218-2235.	2.0	20
50	Changes in the Proportion of Precipitation Occurring as Rain in Northern Canada during Springâ€“Summer from 1979â€“2015. Advances in Atmospheric Sciences, 2018, 35, 1129-1136.	4.3	9
51	Arctic has been going through a transition from solid precipitation to liquid precipitation in spring. Chinese Science Bulletin, 2018, 63, 1154-1162.	0.7	6
52	Natural vs. anthropogenic sources supply aeolian dust to the Miaoergou Glacier: Evidence from Srâ€“Pb isotopes in the eastern Tienshan ice core. Quaternary International, 2017, 430, 60-70.	1.5	12
53	Evaluation and Comparison of TRMM Multi-Satellite Precipitation Products With Reference to Rain Gauge Observations in Hunza River Basin, Karakoram Range, Northern Pakistan. Sustainability, 2017, 9, 1954.	3.2	25
54	Re-assessment of recent (2008â€“2013) surface mass balance over Dome Argus, Antarctica. Polar Research, 2016, 35, 26133.	1.6	11

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55	Can Temperature Extremes in East Antarctica be Replicated from ERA Interim Reanalysis?. Arctic, Antarctic, and Alpine Research, 2016, 48, 603-621.	1.1	6
56	Grey Tienshan Urumqi Glacier No.1 and light-absorbing impurities. Environmental Science and Pollution Research, 2016, 23, 9549-9558.	5.3	39
57	Spatial and temporal variability of marine-origin matter along a transect from Zhongshan Station to Dome A, Eastern Antarctica. Journal of Environmental Sciences, 2016, 46, 190-202.	6.1	12
58	An ice-core record of Antarctic sea-ice extent in the southern Indian Ocean for the past 300 years. Annals of Glaciology, 2015, 56, 451-455.	1.4	8
59	A 2680-year record of sea ice extent in the Ross Sea and the associated atmospheric circulation derived from the DT401 East Antarctic ice core. Science China Earth Sciences, 2015, 58, 2090-2102.	5.2	3
60	Widespread Albedo Decreasing and Induced Melting of Himalayan Snow and Ice in the Early 21st Century. PLoS ONE, 2015, 10, e0126235.	2.5	53
61	Geochemical characteristics of insoluble dust as a tracer in an ice core from Miaoergou Glacier, east Tien Shan. Global and Planetary Change, 2015, 127, 12-21.	3.5	14
62	Spatial distribution of marine chemicals along a transect from Zhongshan Station to the Grove Mountain area, Eastern Antarctica. Science China Earth Sciences, 2014, 57, 2366-2373.	5.2	1
63	Temporal variations in marine chemical concentrations in coastal areas of eastern Antarctica and associated climatic causes. Quaternary International, 2014, 352, 16-25.	1.5	9
64	Assessment of air temperatures from different meteorological reanalyses for the East Antarctic region between Zhonshan and Dome A. Science China Earth Sciences, 2014, 57, 1538-1550.	5.2	7
65	Variations in stable hydrogen and oxygen isotopes in atmospheric water vapor in the marine boundary layer across a wide latitude range. Journal of Environmental Sciences, 2014, 26, 2266-2276.	6.1	17
66	Assessment of Surface Pressure between Zhongshan and Dome a in East Antarctica from Different Meteorological Reanalyses. Arctic, Antarctic, and Alpine Research, 2014, 46, 669-681.	1.1	6
67	Stable isotopes in surface snow along a traverse route from Zhongshan station to Dome A, East Antarctica. Climate Dynamics, 2013, 41, 2427-2438.	3.8	21
68	Factors controlling the nitrate in the DT-401 ice core in eastern Antarctica. Science China Earth Sciences, 2013, 56, 1531-1539.	5.2	4
69	Observed and modelled ice temperature and velocity along the main flowline of East Rongbuk Glacier, Qomolangma (Mount Everest), Himalaya. Journal of Glaciology, 2013, 59, 438-448.	2.2	26
70	Dating a 109.9 m ice core from Dome A (East Antarctica) with volcanic records and a firn densification model. Science China Earth Sciences, 2012, 55, 1280-1288.	5.2	7
71	Evaluation of atmospheric boundary layerâ€“surface process relationships in a regional climate model along an East Antarctic traverse. Journal of Geophysical Research, 2012, 117, .	3.3	17
72	Near surface climate of the traverse route from Zhongshan Station to Dome A, East Antarctica. Antarctic Science, 2010, 22, 443-459.	0.9	60

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73	Characteristics of aerosol dust in fresh snow in the Asian dust and non-dust periods at Urumqi glacier no. 1 of eastern Tian Shan, China. Environmental Earth Sciences, 2010, 60, 1361-1368.	2.7	27
74	A one-dimensional heat transfer model of the Antarctic Ice Sheet and modeling of snow temperatures at Dome A, the summit of Antarctic Plateau. Science China Earth Sciences, 2010, 53, 763-772.	5.2	9
75	Distribution of Î´18O in surface snow along a transect from Zhongshan Station to Dome A, East Antarctica. Science Bulletin, 2010, 55, 2709-2714.	1.7	19
76	A 2680 year volcanic record from the DTâ€401 East Antarctic ice core. Journal of Geophysical Research, 2010, 115, .	3.3	31
77	Preliminary results of the close-off depth and the stable isotopic records along a 109.91 m ice core from Dome A, Antarctica. Science in China Series D: Earth Sciences, 2009, 52, 1502-1509.	0.9	14
78	New focuses of polar ice-core study: NEEM and Dome A. Science Bulletin, 2009, 54, 1009-1011.	9.0	10
79	State of the Antarctic and Southern Ocean climate system. Reviews of Geophysics, 2009, 47, .	23.0	190
80	Progress on observation of cryospheric components and climate-related studies in China. Advances in Atmospheric Sciences, 2008, 25, 164-180.	4.3	19
81	Preliminary evidence indicating Dome A (Antarctica) satisfying preconditions for drilling the oldest ice core. Science Bulletin, 2008, 53, 102-106.	1.7	45
82	Observed changes of cryosphere in China over the second half of the 20th century: an overview. Annals of Glaciology, 2007, 46, 382-390.	1.4	40
83	Sea level pressure variability over the southern Indian Ocean inferred from a glaciochemical record in Princess Elizabeth Land, east Antarctica. Journal of Geophysical Research, 2004, 109, .	3.3	28
84	Linkage of liquid conductivity of glacier ice with its alkalinity over the north Qinghai-Xizang (Tibet) Plateau. Science in China Series D: Earth Sciences, 2002, 45, 300-310.	0.9	4
85	Mass balance of the Lambert Glacier basin, East Antarctica. Science in China Series D: Earth Sciences, 2002, 45, 842-850.	0.9	10