

Xavier Crosta

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

3,463
citations

201575

27
h-index

143943

57
g-index

68
all docs

68
docs citations

68
times ranked

3560
citing authors

#	ARTICLE	IF	CITATIONS
1	Smaller fish species in a warm and oxygen-poor Humboldt Current system. <i>Science</i> , 2022, 375, 101-104.	6.0	29
2	Leanne Armand's obituary. <i>Marine Micropaleontology</i> , 2022, 171, 102095.	0.5	0
3	Reconstructing Antarctic winter sea-ice extent during Marine Isotope Stage 5e. <i>Climate of the Past</i> , 2022, 18, 129-146.	1.3	3
4	Sea ice changes in the southwest Pacific sector of the Southern Ocean during the last 140,000 years. <i>Climate of the Past</i> , 2022, 18, 465-483.	1.3	4
5	New cosmogenic nuclide constraints on Late Glacial and Holocene glacier fluctuations in the sub-Antarctic Indian Ocean (Kerguelen Islands, 49°S). <i>Quaternary Science Reviews</i> , 2022, 283, 107461.	1.4	9
6	Evaluating seasonal sea-ice cover over the Southern Ocean at the Last Glacial Maximum. <i>Climate of the Past</i> , 2022, 18, 845-862.	1.3	7
7	Mid-Holocene Antarctic sea-ice increase driven by marine ice sheet retreat. <i>Climate of the Past</i> , 2021, 17, 1-19.	1.3	18
8	Multi-decadal trends in Antarctic sea-ice extent driven by ENSO-SAM over the last 2,000 years. <i>Nature Geoscience</i> , 2021, 14, 156-160.	5.4	26
9	Sea Surface Temperatures in the Indian Sub-Antarctic Southern Ocean for the Last Four Interglacial Periods. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090994.	1.5	7
10	Impact of Southern Ocean surface conditions on deep ocean circulation during the LGM: a model analysis. <i>Climate of the Past</i> , 2021, 17, 1139-1159.	1.3	12
11	Vulnerability of the North Water ecosystem to climate change. <i>Nature Communications</i> , 2021, 12, 4475.	5.8	30
12	The Southern Ocean Radiolarian (SO-RAD) dataset: a new compilation of modern radiolarian census data. <i>Earth System Science Data</i> , 2021, 13, 5441-5453.	3.7	4
13	Late Pleistocene oceanographic and depositional variations along the Wilkes Land margin (East) Tj ETQq1 1 0.784314 rgBT /Overlock Change, 2020, 184, 103045.	1.6	16
14	Antarctic sea-ice and palaeoproductivity variation over the last 156,000 years in the Indian sector of Southern Ocean. <i>Marine Micropaleontology</i> , 2020, 160, 101894.	0.5	14
15	Glacial-interglacial flux and size variability of <i>Fragilariopsis kerguelensis</i> and <i>Thalassiosira lentiginosa</i> from the Indian sector of the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2020, 178, 104746.	0.6	1
16	Learning from the past: Impact of the Arctic Oscillation on sea ice and marine productivity off northwest Greenland over the last 9,000 years. <i>Global Change Biology</i> , 2020, 26, 6767-6786.	4.2	19
17	Last Abundant Appearance Datum of <i>Hemidiscus karstenii</i> driven by climate change. <i>Marine Micropaleontology</i> , 2020, 157, 101861.	0.5	16
18	Sea surface temperature in the Indian sector of the Southern Ocean over the Late Glacial and Holocene. <i>Climate of the Past</i> , 2020, 16, 1451-1467.	1.3	12

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19	Glacial-interglacial dust and export production records from the Southern Indian Ocean. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115716.	1.8	30
20	Southern Ocean sea ice and frontal changes during the Late Quaternary and their linkages to Asian summer monsoon. <i>Quaternary Science Reviews</i> , 2019, 213, 93-104.	1.4	24
21	Antarctic Sea Ice Proxies from Marine and Ice Core Archives Suitable for Reconstructing Sea Ice over the Past 2000 Years. <i>Geosciences (Switzerland)</i> , 2019, 9, 506.	1.0	35
22	Response of the carbon cycle in an intermediate complexity model to the different climate configurations of the last nine interglacials. <i>Climate of the Past</i> , 2018, 14, 239-253.	1.3	10
23	Quantitative comparison of taxa and taxon concepts in the diatom genus <i>Fragilariopsis</i> : a case study on using slide scanning, multiexpert image annotation, and image analysis in taxonomy. <i>Journal of Phycology</i> , 2018, 54, 703-719.	1.0	10
24	Ocean as the main driver of Antarctic ice sheet retreat during the Holocene. <i>Global and Planetary Change</i> , 2018, 166, 62-74.	1.6	17
25	Causes of dust size variability in central East Antarctica (Dome B): Atmospheric transport from expanded South American sources during Marine Isotope Stage 2. <i>Quaternary Science Reviews</i> , 2017, 168, 55-68.	1.4	46
26	<i>Fragilariopsis kerguelensis</i> size variability from the Indian subtropical Southern Ocean over the last 42 000 years. <i>Antarctic Science</i> , 2017, 29, 139-146.	0.5	5
27	Sedimentary response to sea ice and atmospheric variability over the instrumental period off Ad�lie Land, East Antarctica. <i>Biogeosciences</i> , 2016, 13, 4205-4218.	1.3	19
28	Environmental responses of the Northeast Antarctic Peninsula to the Holocene climate variability. <i>Paleoceanography</i> , 2016, 31, 131-147.	3.0	24
29	Assessing recent trends in high-latitude Southern Hemisphere surface climate. <i>Nature Climate Change</i> , 2016, 6, 917-926.	8.1	253
30	<i>Thalassiosira lentiginosa</i> size variation and associated biogenic silica burial in the Southern Ocean over the last 42 kyrs. <i>Marine Micropaleontology</i> , 2016, 127, 74-85.	0.5	11
31	Differences between mono-generic and mixed diatom silicon isotope compositions trace present and past nutrient utilisation off Peru. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 177, 30-47.	1.6	13
32	Centennial-scale variations in diatom productivity off Peru over the last 3000 years. <i>Holocene</i> , 2016, 26, 520-531.	0.9	2
33	First records of winter sea ice concentration in the southwest Pacific sector of the Southern Ocean. <i>Paleoceanography</i> , 2015, 30, 1525-1539.	3.0	34
34	The silicon isotope composition of <i>Ethmodiscus rex</i> laminated diatom mats from the tropical West Pacific: Implications for silicate cycling during the Last Glacial Maximum. <i>Paleoceanography</i> , 2015, 30, 803-823.	3.0	27
35	Statistical modeling of Southern Ocean marine diatom proxy and winter sea ice data: Model comparison and developments. <i>Progress in Oceanography</i> , 2015, 131, 100-112.	1.5	14
36	Retreat history of the East Antarctic Ice Sheet since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 10-30.	1.4	140

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37	Holocene glacial discharge fluctuations and recent instability in East Antarctica. <i>Earth and Planetary Science Letters</i> , 2014, 394, 38-47.	1.8	23
38	Sea ice diatom contributions to Holocene nutrient utilization in East Antarctica. <i>Paleoceanography</i> , 2014, 29, 328-343.	3.0	12
39	A community-based geological reconstruction of Antarctic Ice Sheet deglaciation since the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2014, 100, 1-9.	1.4	228
40	Diatoms and biomarkers evidence for major changes in sea ice conditions prior the instrumental period in Antarctic Peninsula. <i>Quaternary Science Reviews</i> , 2013, 79, 99-110.	1.4	20
41	Climate mediated size variability of diatom <i>Fragilariopsis kerguelensis</i> in the Southern Ocean. <i>Quaternary Science Reviews</i> , 2013, 69, 49-58.	1.4	20
42	Potential role of giant marine diatoms in sequestration of atmospheric CO ₂ during the Last Glacial Maximum: $\delta^{13}\text{C}$ evidence from laminated <i>Ethmodiscus rex</i> mats in tropical West Pacific. <i>Global and Planetary Change</i> , 2013, 108, 1-14.	1.6	27
43	Cleaning of marine sediment samples for large diatom stable isotope analysis. <i>Journal of Earth Science (Wuhan, China)</i> , 2012, 23, 161-172.	1.1	8
44	The impact of African aridity on the isotopic signature of Atlantic deep waters across the Middle Pleistocene Transition. <i>Quaternary Research</i> , 2012, 77, 182-191.	1.0	8
45	Highly branched isoprenoids as proxies for variable sea ice conditions in the Southern Ocean. <i>Antarctic Science</i> , 2011, 23, 487-498.	0.5	75
46	Sediment delivery and depositional patterns off Ad�lie Land (East Antarctica) in relation to late Quaternary climatic cycles. <i>Marine Geology</i> , 2011, 284, 96-113.	0.9	28
47	Seasonal progression of diatom assemblages in surface waters of Ryder Bay, Antarctica. <i>Polar Biology</i> , 2010, 33, 13-29.	0.5	77
48	Potential and limitations of marine and ice core sea ice proxies: an example from the Indian Ocean sector. <i>Quaternary Science Reviews</i> , 2010, 29, 296-302.	1.4	49
49	Deglacial environments in eastern Prydz Bay, East Antarctica. <i>Quaternary Science Reviews</i> , 2010, 29, 2731-2740.	1.4	52
50	Sea ice and wind variability during the Holocene in East Antarctica: insight on middle�high latitude coupling. <i>Quaternary Science Reviews</i> , 2010, 29, 3709-3719.	1.4	58
51	Observations on the relationship between the Antarctic coastal diatoms <i>Thalassiosira antarctica</i> Comber and <i>Porosira glacialis</i> (Grunow) J�rgensen and sea ice concentrations during the late Quaternary. <i>Marine Micropaleontology</i> , 2009, 73, 14-25.	0.5	60
52	Impact of lateral transport on organic proxies in the Southern Ocean. <i>Quaternary Research</i> , 2009, 71, 246-250.	1.0	44
53	Holocene size variations in two diatom species off East Antarctica: Productivity vs environmental conditions. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 1983-1993.	0.6	25
54	Holocene glacier and deep water dynamics, Ad�lie Land region, East Antarctica. <i>Quaternary Science Reviews</i> , 2009, 28, 1291-1303.	1.4	38

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55	Holocene productivity changes off Ad�lie Land (East Antarctica). <i>Paleoceanography</i> , 2009, 24, .	3.0	32
56	Chapter Eight Diatoms: From Micropaleontology to Isotope Geochemistry. <i>Developments in Marine Geology</i> , 2007, 1, 327-369.	0.4	40
57	The biogeography of major diatom taxa in Southern Ocean sediments. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 223, 93-126.	1.0	209
58	The biogeography of major diatom taxa in Southern Ocean sediments: 2. Open ocean related species. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 223, 66-92.	1.0	176
59	Sea-surface temperature and sea ice distribution of the Southern Ocean at the EPILOG Last Glacial Maximum�a circum-Antarctic view based on siliceous microfossil records. <i>Quaternary Science Reviews</i> , 2005, 24, 869-896.	1.4	470
60	Relationship between Antarctic sea ice and southwest African climate during the late Quaternary. <i>Geology</i> , 2004, 32, 909.	2.0	89
61	Holocene climate in the Atlantic sector of the Southern Ocean: Controlled by insolation or oceanic circulation?. <i>Geology</i> , 2004, 32, 317.	2.0	94
62	Late Quaternary sea ice history in the Indian sector of the Southern Ocean as recorded by diatom assemblages. <i>Marine Micropaleontology</i> , 2004, 50, 209-223.	0.5	168
63	Late quaternary variations of elemental ratios (C/Si and N/Si) in diatom-bound organic matter from the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 1939-1952.	0.6	27
64	Abrupt Cooling of Antarctic Surface Waters and Sea Ice Expansion in the South Atlantic Sector of the Southern Ocean at 5000 cal yr B.P.. <i>Quaternary Research</i> , 2001, 56, 191-198.	1.0	174
65	Reappraisal of Antarctic seasonal sea-ice at the Last Glacial Maximum. <i>Geophysical Research Letters</i> , 1998, 25, 2703-2706.	1.5	92
66	Distribution of <i>Chaetoceros</i> resting spores in modern peri-Antarctic sediments. <i>Marine Micropaleontology</i> , 1997, 29, 283-299.	0.5	94
67	Sensitivity of Holocene East Antarctic productivity to subdecadal variability set by sea ice. <i>Nature Geoscience</i> , 0, , .	5.4	5