

# Anais J Orsi

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,691  
citations

361296

20  
h-index

330025

37  
g-index

64  
all docs

64  
docs citations

64  
times ranked

3204  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing recent trends in high-latitude Southern Hemisphere surface climate. <i>Nature Climate Change</i> , 2016, 6, 917-926.	8.1	253
2	Estimation of the Antarctic surface mass balance using the regional climate model MAR (1979â€“2015) and identification of dominant processes. <i>Cryosphere</i> , 2019, 13, 281-296.	1.5	171
3	Antarctic climate variability on regional and continental scales over the last 2000Âyears. <i>Climate of the Past</i> , 2017, 13, 1609-1634.	1.3	145
4	A global database of Holocene paleotemperature records. <i>Scientific Data</i> , 2020, 7, 115.	2.4	112
5	Minimal geological methane emissions during the Younger Dryasâ€“Preboreal abrupt warming event. <i>Nature</i> , 2017, 548, 443-446.	13.7	86
6	Isotopic constraint on the twentieth-century increase in tropospheric ozone. <i>Nature</i> , 2019, 570, 224-227.	13.7	80
7	Little Ice Age cold interval in West Antarctica: Evidence from borehole temperature at the West Antarctic Ice Sheet (WAIS) Divide. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	75
8	Spatial gradients of temperature, accumulation and $\delta^{18}O$ -ice in Greenland over a series of Dansgaardâ€“Oeschger events. <i>Climate of the Past</i> , 2013, 9, 1029-1051.	1.3	67
9	Isotopic exchange on the diurnal scale between near-surface snow and lower atmospheric water vapor at Kohlen station, East Antarctica. <i>Cryosphere</i> , 2016, 10, 1647-1663.	1.5	53
10	Firn Model Intercomparison Experiment (FirnMICE). <i>Journal of Glaciology</i> , 2017, 63, 401-422.	1.1	52
11	The Iso2k database: a global compilation of paleo- $\delta^{18}O$ and $\delta^{2}H$ records to aid understanding of Common Era climate. <i>Earth System Science Data</i> , 2020, 12, 2261-2288.	3.7	46
12	The Ross Sea Dipole â€“ temperature, snow accumulation and sea ice variability in the Ross Sea region, Antarctica, over the past 2700Âyears. <i>Climate of the Past</i> , 2018, 14, 193-214.	1.3	44
13	Recent changes in north-west Greenland climate documented by NEEM shallow ice core data and simulations, and implications for past-temperature reconstructions. <i>Cryosphere</i> , 2015, 9, 1481-1504.	1.5	41
14	The recent warming trend in North Greenland. <i>Geophysical Research Letters</i> , 2017, 44, 6235-6243.	1.5	40
15	Observing and modeling the influence of layering on bubble trapping in polar firn. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2558-2574.	1.2	39
16	Core handling and processing for the WAIS Divide ice-core project. <i>Annals of Glaciology</i> , 2014, 55, 15-26.	2.8	34
17	How warm was Greenland during the last interglacial period?. <i>Climate of the Past</i> , 2016, 12, 1933-1948.	1.3	30
18	Modelling firn thickness evolution during the last deglaciation: constraints on sensitivity to temperature and impurities. <i>Climate of the Past</i> , 2017, 13, 833-853.	1.3	28

#	ARTICLE	IF	CITATIONS
19	Water stable isotope spatio-temporal variability in Antarctica in 1960–2013: observations and simulations from the ECHAM5-wiso atmospheric general circulation model. <i>Climate of the Past</i> , 2018, 14, 923-946.	1.3	26
20	Experimental determination and theoretical framework of kinetic fractionation at the water vapour–ice interface at low temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 174, 54-69.	1.6	21
21	Assessing the robustness of Antarctic temperature reconstructions over the past 2000 years using pseudoproxy and data assimilation experiments. <i>Climate of the Past</i> , 2019, 15, 661-684.	1.3	21
22	Comparison of different methods to retrieve optical-equivalent snow grain size in central Antarctica. <i>Cryosphere</i> , 2017, 11, 2727-2741.	1.5	21
23	The heat is on in Antarctica. <i>Nature Geoscience</i> , 2013, 6, 87-88.	5.4	18
24	Measurements of $^{14}\text{C}$ in ancient ice from Taylor Glacier, Antarctica constrain in situ cosmogenic $^{14}\text{CH}_4$ and $^{14}\text{CO}$ production rates. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 177, 62-77.	1.6	18
25	Magnitude and temporal evolution of Dansgaard–Oeschger event 8 abrupt temperature change inferred from nitrogen and argon isotopes in GISP2 ice using a new least-squares inversion. <i>Earth and Planetary Science Letters</i> , 2014, 395, 81-90.	1.8	17
26	Surface studies of water isotopes in Antarctica for quantitative interpretation of deep ice core data. <i>Comptes Rendus - Geoscience</i> , 2017, 349, 139-150.	0.4	17
27	Differentiating bubble-free layers from melt layers in ice cores using noble gases. <i>Journal of Glaciology</i> , 2015, 61, 585-594.	1.1	15
28	Snowfall and Water Stable Isotope Variability in East Antarctica Controlled by Warm Synoptic Events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032863.	1.2	15
29	Surface Temperature in Twentieth Century at the Styx Glacier, Northern Victoria Land, Antarctica, From Borehole Thermometry. <i>Geophysical Research Letters</i> , 2018, 45, 9834-9842.	1.5	14
30	Coastal water vapor isotopic composition driven by katabatic wind variability in summer at Dumont d'Urville, coastal East Antarctica. <i>Earth and Planetary Science Letters</i> , 2019, 514, 37-47.	1.8	14
31	High-precision $^{14}\text{C}$ measurements demonstrate production of in situ cosmogenic $^{14}\text{CH}_4$ and rapid loss of in situ cosmogenic $^{14}\text{CO}$ in shallow Greenland firn. <i>Earth and Planetary Science Letters</i> , 2013, 365, 190-197.	1.8	12
32	New technique for high-precision, simultaneous measurements of $\text{CH}_4$ , $\text{N}_2\text{O}$ and $\text{CO}_2$ concentrations; isotopic and elemental ratios of $\text{N}_2\text{O}$ and $\text{Ar}$ ; and total air content in ice cores by wet extraction. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 6703-6731.	1.2	12
33	Surface formation, preservation, and history of low-porosity crusts at the WAIS Divide site, West Antarctica. <i>Cryosphere</i> , 2018, 12, 325-341.	1.5	10
34	An extension of the TALDICE ice core age scale reaching back to MIS 10.1. <i>Quaternary Science Reviews</i> , 2021, 266, 107078.	1.4	10
35	A 4.5 Year-Long Record of Svalbard Water Vapor Isotopic Composition Documents Winter Air Mass Origin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032681.	1.2	6
36	Unveiling the anatomy of Termination 3 using water and air isotopes in the Dome C ice core, East Antarctica. <i>Quaternary Science Reviews</i> , 2019, 211, 156-165.	1.4	5

#	ARTICLE	IF	CITATIONS
37	Comparison of observed borehole temperatures in Antarctica with simulations using a forward model driven by climate model outputs covering the past millennium. <i>Climate of the Past</i> , 2020, 16, 1411-1428.	1.3	1