

Barbara Stenni

List of Publications by Year in descending order

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106
papers

11,788
citations

57631

44
h-index

29081

104
g-index

169
all docs

169
docs citations

169
times ranked

9623
citing authors

#	ARTICLE	IF	CITATIONS
1	Eight glacial cycles from an Antarctic ice core. <i>Nature</i> , 2004, 429, 623-628.	13.7	2,015
2	Orbital and Millennial Antarctic Climate Variability over the Past 800,000 Years. <i>Science</i> , 2007, 317, 793-796.	6.0	1,880
3	One-to-one coupling of glacial climate variability in Greenland and Antarctica. <i>Nature</i> , 2006, 444, 195-198.	13.7	1,111
4	Continental-scale temperature variability during the past two millennia. <i>Nature Geoscience</i> , 2013, 6, 339-346.	5.4	954
5	A Review of Antarctic Surface Snow Isotopic Composition: Observations, Atmospheric Circulation, and Isotopic Modeling*. <i>Journal of Climate</i> , 2008, 21, 3359-3387.	1.2	344
6	Assessing recent trends in high-latitude Southern Hemisphere surface climate. <i>Nature Climate Change</i> , 2016, 6, 917-926.	8.1	253
7	An Oceanic Cold Reversal During the Last Deglaciation. <i>Science</i> , 2001, 293, 2074-2077.	6.0	224
8	Expression of the bipolar see-saw in Antarctic climate records during the last deglaciation. <i>Nature Geoscience</i> , 2011, 4, 46-49.	5.4	212
9	EPICA Dome C record of glacial and interglacial intensities. <i>Quaternary Science Reviews</i> , 2010, 29, 113-128.	1.4	202
10	The deuterium excess records of EPICA Dome C and Dronning Maud Land ice cores (East Antarctica). <i>Quaternary Science Reviews</i> , 2010, 29, 146-159.	1.4	195
11	Continuous monitoring of summer surface water vapor isotopic composition above the Greenland Ice Sheet. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4815-4828.	1.9	155
12	Oxygen isotope variations of phosphate in mammalian bone and tooth enamel. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 4299-4305.	1.6	150
13	Antarctic climate variability on regional and continental scales over the last 2000 years. <i>Climate of the Past</i> , 2017, 13, 1609-1634.	1.3	145
14	Millennial and sub-millennial scale climatic variations recorded in polar ice cores over the last glacial period. <i>Climate of the Past</i> , 2010, 6, 345-365.	1.3	143
15	A new 27 ky high resolution East Antarctic climate record. <i>Geophysical Research Letters</i> , 2001, 28, 3199-3202.	1.5	140
16	A comparison of the present and last interglacial periods in six Antarctic ice cores. <i>Climate of the Past</i> , 2011, 7, 397-423.	1.3	131
17	Rooting depth, water relations and non-structural carbohydrate dynamics in three woody angiosperms differentially affected by an extreme summer drought. <i>Plant, Cell and Environment</i> , 2016, 39, 618-627.	2.8	126
18	Regional Antarctic snow accumulation over the past 1000 years. <i>Climate of the Past</i> , 2017, 13, 1491-1513.	1.3	124

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19	Eight centuries of volcanic signal and climate change at Talos Dome (East Antarctica). <i>Journal of Geophysical Research</i> , 2002, 107, ACL 3-1-ACL 3-13.	3.3	121
20	What controls the isotopic composition of Greenland surface snow?. <i>Climate of the Past</i> , 2014, 10, 377-392.	1.3	121
21	On the reproducibility and repeatability of laser absorption spectroscopy measurements for $\delta^{18}\text{O}$ and $\delta^2\text{H}$ isotopic analysis. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 1551-1566.	1.9	116
22	A global database of Holocene paleotemperature records. <i>Scientific Data</i> , 2020, 7, 115.	2.4	112
23	Abrupt ice-age shifts in southern westerly winds and Antarctic climate forced from the north. <i>Nature</i> , 2018, 563, 681-685.	13.7	108
24	Ranges of moisture-source temperature estimated from Antarctic ice cores stable isotope records over glacial-interglacial cycles. <i>Climate of the Past</i> , 2012, 8, 1109-1125.	1.3	98
25	Past temperature reconstructions from deep ice cores: relevance for future climate change. <i>Climate of the Past</i> , 2006, 2, 145-165.	1.3	95
26	TALDICE-1 age scale of the Talos Dome deep ice core, East Antarctica. <i>Climate of the Past</i> , 2011, 7, 1-16.	1.3	93
27	Common millennial-scale variability of Antarctic and Southern Ocean temperatures during the past 5000 years reconstructed from the EPICA Dome C ice core. <i>Holocene</i> , 2004, 14, 145-151.	0.9	84
28	A late-glacial high-resolution site and source temperature record derived from the EPICA Dome C isotope records (East Antarctica). <i>Earth and Planetary Science Letters</i> , 2004, 217, 183-195.	1.8	83
29	Deglaciation records of $\delta^{17}\text{O}$ -excess in East Antarctica: reliable reconstruction of oceanic normalized relative humidity from coastal sites. <i>Climate of the Past</i> , 2012, 8, 1-16.	1.3	80
30	Technical Note: Evaluation of between-sample memory effects in the analysis of $\delta^2\text{H}$ and $\delta^{18}\text{O}$ of water samples measured by laser spectrometers. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 3925-3933.	1.9	78
31	Oxygen isotopic composition of fossil equid tooth and bone phosphate: an archive of difficult interpretation. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1994, 107, 317-328.	1.0	77
32	Abrupt change of Antarctic moisture origin at the end of Termination II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12091-12094.	3.3	71
33	Holocene sea ice variability driven by wind and polynya efficiency in the Ross Sea. <i>Nature Communications</i> , 2017, 8, 1334.	5.8	67
34	A review of the bipolar seesaw from synchronized and high resolution ice core water stable isotope records from Greenland and East Antarctica. <i>Quaternary Science Reviews</i> , 2015, 114, 18-32.	1.4	63
35	Three-year monitoring of stable isotopes of precipitation at Concordia Station, East Antarctica. <i>Cryosphere</i> , 2016, 10, 2415-2428.	1.5	62
36	New MIS 19 EPICA Dome C high resolution deuterium data: Hints for a problematic preservation of climate variability at sub-millennial scale in the oldest ice. <i>Earth and Planetary Science Letters</i> , 2010, 298, 95-103.	1.8	60

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37	Acquisition of isotopic composition for surface snow in East Antarctica and the links to climatic parameters. <i>Cryosphere</i> , 2016, 10, 837-852.	1.5	56
38	A late medieval warm period in the Southern Ocean as a delayed response to external forcing?. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	54
39	A 16,000-yr tephra framework for the Antarctic ice sheet: a contribution from the new Talos Dome core. <i>Quaternary Science Reviews</i> , 2012, 49, 52-63.	1.4	51
40	Volcanic synchronisation of the EPICA-DC and TALDICE ice cores for the last 42 kyr BP. <i>Climate of the Past</i> , 2012, 8, 509-517.	1.3	51
41	The global distribution of natural tritium in precipitation simulated with an Atmospheric General Circulation Model and comparison with observations. <i>Earth and Planetary Science Letters</i> , 2015, 427, 160-170.	1.8	51
42	Interpreting last glacial to Holocene dust changes at Talos Dome (East Antarctica): implications for atmospheric variations from regional to hemispheric scales. <i>Climate of the Past</i> , 2012, 8, 741-750.	1.3	50
43	Temperature trends during the Present and Last Interglacial periods – a multi-model-data comparison. <i>Quaternary Science Reviews</i> , 2014, 99, 224-243.	1.4	48
44	Archival processes of the water stable isotope signal in East Antarctic ice cores. <i>Cryosphere</i> , 2018, 12, 1745-1766.	1.5	48
45	Climate variability along latitudinal and longitudinal transects in East Antarctica. <i>Annals of Glaciology</i> , 2004, 39, 351-358.	2.8	47
46	Nitrate in Polar Ice: A New Tracer of Solar Variability. <i>Solar Physics</i> , 2012, 280, 237-254.	1.0	47
47	Chemical and isotopic snow variability along the 1998 ITASE traverse from Terra Nova Bay to Dome C, East Antarctica. <i>Annals of Glaciology</i> , 2002, 35, 187-194.	2.8	44
48	Stratigraphic correlations between the European Project for Ice Coring in Antarctica (EPICA) Dome C and Vostok ice cores showing the relative variations of snow accumulation over the past 45 kyr. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	43
49	Age of the Mt. Ortles ice cores, the Tyrolean Iceman and glaciation of the highest summit of South Tyrol since the Northern Hemisphere Climatic Optimum. <i>Cryosphere</i> , 2016, 10, 2779-2797.	1.5	43
50	Snow accumulation rates in northern Victoria Land, Antarctica, by firn-core analysis. <i>Journal of Glaciology</i> , 2000, 46, 541-552.	1.1	42
51	Chemical and isotopic snow variability in East Antarctica along the 2001/02 ITASE traverse. <i>Annals of Glaciology</i> , 2004, 39, 473-482.	2.8	40
52	Regional imprints of millennial variability during the MIS 3 period around Antarctica. <i>Quaternary Science Reviews</i> , 2012, 48, 99-112.	1.4	40
53	A stable isotope study of the Garda lake, northern Italy: Its hydrological balance. <i>Journal of Hydrology</i> , 2008, 360, 103-116.	2.3	37
54	Using data assimilation to investigate the causes of Southern Hemisphere high latitude cooling from 10 to 8 ka BP. <i>Climate of the Past</i> , 2013, 9, 887-901.	1.3	33

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55	Retrieving the paleoclimatic signal from the deeper part of the EPICA Dome C ice core. <i>Cryosphere</i> , 2015, 9, 1633-1648.	1.5	32
56	Links between MIS 11 millennial to sub-millennial climate variability and long term trends as revealed by new high resolution EPICA Dome C deuterium data – A comparison with the Holocene. <i>Climate of the Past</i> , 2011, 7, 437-450.	1.3	30
57	Significant marine-ice accumulation in the ablation zone beneath an Antarctic ice shelf. <i>Journal of Glaciology</i> , 2001, 47, 359-368.	1.1	29
58	Isotopic composition and thermal regime of ice wedges in northern Victoria Land, East Antarctica. <i>Permafrost and Periglacial Processes</i> , 2011, 22, 65-83.	1.5	27
59	Antarctic temperature changes during the last millennium: evaluation of simulations and reconstructions. <i>Quaternary Science Reviews</i> , 2012, 55, 75-90.	1.4	27
60	Precipitation and synoptic regime in two extreme years 2009 and 2010 at Dome C, Antarctica – implications for ice core interpretation. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4757-4770.	1.9	26
61	Siderophile metal fallout to Greenland from the 1991 winter eruption of Hekla (Iceland) and during the global atmospheric perturbation of Pinatubo. <i>Chemical Geology</i> , 2008, 255, 78-86.	1.4	25
62	The dynamics of central Main Ethiopian Rift waters: Evidence from δD , $\delta^{18}O$ and $87Sr/86Sr$ ratios. <i>Applied Geochemistry</i> , 2010, 25, 1860-1871.	1.4	25
63	Prominent features in isotopic, chemical and dust stratigraphies from coastal East Antarctic ice sheet (Eastern Wilkes Land). <i>Chemosphere</i> , 2017, 176, 273-287.	4.2	24
64	Climate variability features of the last interglacial in the East Antarctic EPICA Dome C ice core. <i>Geophysical Research Letters</i> , 2014, 41, 4004-4012.	1.5	23
65	200 years of isotope and chemical records in a firn core from Hercules Point, northern Victoria Land, Antarctica. <i>Annals of Glaciology</i> , 1999, 29, 106-112.	2.8	22
66	Experimental observation of transient H_2O interaction between snow and advective airflow under various temperature gradient conditions. <i>Cryosphere</i> , 2017, 11, 1733-1743.	1.5	22
67	Vineyard water relations in a karstic area: deep roots and irrigation management. <i>Agriculture, Ecosystems and Environment</i> , 2018, 263, 53-59.	2.5	22
68	<i>Larix decidua</i> $\delta^{18}O$ tree-ring cellulose mainly reflects the isotopic signature of winter snow in a high-altitude glacial valley of the European Alps. <i>Science of the Total Environment</i> , 2017, 579, 230-237.	3.9	21
69	Assessing the robustness of Antarctic temperature reconstructions over the past 2 millennia using pseudoproxy and data assimilation experiments. <i>Climate of the Past</i> , 2019, 15, 661-684.	1.3	21
70	Influence of Summer Sublimation on δD , $\delta^{18}O$, and $\delta^{17}O$ in Precipitation, East Antarctica, and Implications for Climate Reconstruction From Ice Cores. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7339-7358.	1.2	20
71	Estimation of soil water evaporative loss after tillage operation using the stable isotope technique. <i>International Agrophysics</i> , 2013, 27, 257-264.	0.7	19
72	Peritidal sedimentary depositional facies and carbon isotope variation across K/T boundary carbonates from NW Adriatic platform. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 255, 77-86.	1.0	18

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73	The atmospheric water cycle of a coastal lagoon: An isotope study of the interactions between water vapor, precipitation and surface waters. <i>Journal of Hydrology</i> , 2019, 572, 630-644.	2.3	18
74	Chemical and isotopic profiles from snow pits and shallow firn cores on Campbell Glacier, northern Victoria Land, Antarctica. <i>Annals of Glaciology</i> , 1998, 27, 679-684.	2.8	17
75	An oxygen isotope record from the Foscagno rock-glacier ice core, Upper Valtellina, Italian Central Alps. <i>Holocene</i> , 2007, 17, 1033-1039.	0.9	15
76	A new Eemian record of Antarctic tephra layers retrieved from the Talos Dome ice core (Northern Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	14
77	Regionalization of the Atmospheric Dust Cycle on the Periphery of the East Antarctic Ice Sheet Since the Last Glacial Maximum. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 3540-3554.	1.0	14
78	Rapid climate variability during warm and cold periods in polar regions and Europe. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 935-946.	0.4	13
79	Radiocarbon ages of pedogenic carbonate nodules from Coimbatore region, Tamil Nadu. <i>Journal of the Geological Society of India</i> , 2010, 75, 791-798.	0.5	13
80	Stable isotope study of water, gypsum and carbonate samples from the Bannock and Tyro Basins, eastern Mediterranean. <i>Marine Chemistry</i> , 1990, 31, 123-135.	0.9	12
81	The influence of the synoptic regime on stable water isotopes in precipitation at Dome A, East Antarctica. <i>Cryosphere</i> , 2017, 11, 2345-2361.	1.5	12
82	Grapevine water relations and rooting depth in karstic soils. <i>Science of the Total Environment</i> , 2019, 692, 669-675.	3.9	12
83	Interglacial Antarctic Southern Ocean climate decoupling due to moisture source area shifts. <i>Nature Geoscience</i> , 2021, 14, 918-923.	5.4	12
84	Sea salt sodium record from Talos Dome (East Antarctica) as a potential proxy of the Antarctic past sea ice extent. <i>Chemosphere</i> , 2017, 177, 266-274.	4.2	11
85	Water Isotopic Signature of Surface Snow Metamorphism in Antarctica. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093382.	1.5	11
86	Growth processes of an inland Antarctic ice wedge, Mesa Range, northern Victoria Land. <i>Annals of Glaciology</i> , 2004, 39, 379-385.	2.8	10
87	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
88	OUP accepted manuscript. , 2019, 7, coz012.		10
89	Isotopic features of precipitation and groundwater from the Eastern Alps of Italy: results from the Mt. Tinisa hydrogeological system. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	9
90	Oxygen and hydrogen isotopic composition of waters in a past-mining area of southern Apuan Alps (Italy): Hydrogeological characterization and implications on the fate of potentially toxic elements. <i>Journal of Geochemical Exploration</i> , 2019, 205, 106338.	1.5	9

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91	Volcanic Fluxes Over the Last Millennium as Recorded in the Gv7 Ice Core (Northern Victoria Land.) Tj ETQq1 1 0.784314 rgBJ /Overl	1.0	1
92	Palaeoproductivity in the Ross Sea, Antarctica, during the last 15 kyr BP and its link with ice-core temperature proxies. <i>Annals of Glaciology</i> , 2004, 39, 445-451.	2.8	8
93	Climate dependent contrast in surface mass balance in East Antarctica over the past 216 ka. <i>Journal of Glaciology</i> , 2016, 62, 1037-1048.	1.1	8
94	Spatial distribution and interannual trends of $\delta^{18}O$, δ^2H , and deuterium excess in precipitation across North-Eastern Italy. <i>Journal of Hydrology</i> , 2021, 598, 125749.	2.3	7
95	Identification of the Palaeocene–Eocene Boundary Based on Larger Foraminifers in Deposits of the Palaeogene Adriatic Carbonate Platform, Southwestern Slovenia. <i>Springer Geology</i> , 2014, , 89-93.	0.2	7
96	Isotopic Characterization of Italian Industrial Hemp (<i>Cannabis sativa</i> L.) Intended for Food Use: A First Exploratory Study. <i>Separations</i> , 2022, 9, 136.	1.1	7
97	First discrete iron(II) records from Dome C (Antarctica) and the Holtedahlfonna glacier (Svalbard). <i>Chemosphere</i> , 2021, 267, 129335.	4.2	6
98	Two-dimensional impurity imaging in deep Antarctic ice cores: snapshots of three climatic periods and implications for high-resolution signal interpretation. <i>Cryosphere</i> , 2021, 15, 3523-3538.	1.5	6
99	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
100	Water Masses in the Eastern Mediterranean Sea: An Analysis of Measured Isotopic Oxygen. <i>Pure and Applied Geophysics</i> , 2018, 175, 4047-4064.	0.8	4
101	Tree-ring $\delta^{18}O$ from an Alpine catchment reveals changes in glacier stream water inputs between 1980 and 2010. <i>Arctic, Antarctic, and Alpine Research</i> , 2019, 51, 250-264.	0.4	4
102	Synoptic to mesoscale processes affecting the water vapor isotopic daily cycle over a coastal lagoon. <i>Atmospheric Environment</i> , 2019, 197, 118-130.	1.9	4
103	Characterization of water chemistry in some communities of the Lower Tano river basin, Ghana, West Africa. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	3
104	Dating of the GV7 East Antarctic ice core by high-resolution chemical records and focus on the accumulation rate variability in the last millennium. <i>Climate of the Past</i> , 2021, 17, 2073-2089.	1.3	3
105	Geochemical features and effects on deep-seated fluids during the May-June 2012 southern Po Valley seismic sequence. <i>Annals of Geophysics</i> , 2012, 55, .	0.5	2
106	Long-term climate evolution based on ice core records. , 2020, , 3-25.		0