Hubertus Fischer

List of Publications by Year
in descending order

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186 papers	27,881 citations	20759 60 h-index	6113 159 g-index
265 all docs	265 docs citations	265 times ranked	16284 citing authors

#	Article	IF	Citations
1	Supporting evidence from the EPICA Dronning Maud Land ice core for atmospheric CO₂ changes during the past millennium. Tellus, Series B: Chemical and Physical Meteorology, 2022, 57, 51.	0.8	50
2	High-resolution aerosol concentration data from the Greenland NorthGRIP and NEEM deep ice cores. Earth System Science Data, 2022, 14, 1215-1231.	3.7	8
3	Magnitude, frequency and climate forcing of global volcanism during the last glacial period as seen in Greenland and Antarctic ice cores (60â€“9â€‰ka). Climate of the Past, 2022, 18, 485-506.	1.3	31
4	Stratigraphic templates for ice core records of the past 1.5 Myr. Climate of the Past, 2022, 18, 1563-1577.	1.3	3
5	The anatomy of past abrupt warmings recorded in Greenland ice. Nature Communications, 2021, 12, 2106.	5.8	27
6	Snapshots of mean ocean temperature over the last 700â€‰000Âyears using noble gases in the EPICA Dome C ice core. Climate of the Past, 2021, 17, 843-867.	1.3	11
7	No support for carbon storage of >1,000 GtC in northern peatlands. Nature Geoscience, 2021, 14, 465-467.	5.4	8
8	CH₄ and N₂O fluctuations during the penultimate deglaciation. Climate of the Past, 2021, 17, 1627-1643.	1.3	5
9	Investigating the internal structure of the Antarctic ice sheet: the utility of isochrones for spatiotemporal ice-sheet model calibration. Cryosphere, 2021, 15, 3839-3860.	1.5	18
10	Volcanic climate forcing preceding the inception of the Younger Dryas: Implications for tracing the Laacher See eruption. Quaternary Science Reviews, 2021, 274, 107260.	1.4	12
11	Ice Cores: Archive of the Climate System. Springer Textbooks in Earth Sciences, Geography and Environment, 2021, , 279-325.	0.1	3
12	Global ocean heat content in the Last Interglacial. Nature Geoscience, 2020, 13, 77-81.	5.4	31
13	Excess methane in Greenland ice cores associated with high dust concentrations. Geochimica Et Cosmochimica Acta, 2020, 270, 409-430.	1.6	20
14	N₂O changes from the Last Glacial Maximum to the preindustrial â€“ PartÂ2: terrestrial N₂O emissions and carbonâ€“nitrogen cycle interactions. Biogeosciences, 2020, 17, 3511-3543.	1.3	7
15	Abrupt CO ₂ release to the atmosphere under glacial and early interglacial climate conditions. Science, 2020, 369, 1000-1005.	6.0	35
16	Limited Retreat of the Wilkes Basin Ice Sheet During the Last Interglacial. Geophysical Research Letters, 2020, 47, e2020GL088131.	1.5	13
17	Old carbon reservoirs were not important in the deglacial methane budget. Science, 2020, 367, 907-910.	6.0	50
18	Bipolar volcanic synchronization of abrupt climate change in Greenland and Antarctic ice cores during the last glacial period. Climate of the Past, 2020, 16, 1565-1580.	1.3	44

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19	Millennial-scale atmospheric CO₂ variations during the Marine Isotope Stage 6 period (190â€“135â€‰ka). Climate of the Past, 2020, 16, 2203-2219.	1.3	10
20	Ice-nucleating particle concentrations of the past: insights from a 600-year-old Greenland ice core. Atmospheric Chemistry and Physics, 2020, 20, 12459-12482.	1.9	6
21	High-precision laser spectrometer for multiple greenhouse gas analysis in 1â€‰mL air from ice core samples. Atmospheric Measurement Techniques, 2020, 13, 6391-6406.	1.2	3
22	Marine N‹sub›2‹/sub›O emissions during a Younger Dryas-like event: the role of meridional overturning, tropical thermocline ventilation, and biological productivity. Environmental Research Letters, 2019, 14, 075007.	2.2	6
23	Earthâ€™s radiative imbalance from the Last Glacial Maximum to the present. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14881-14886.	3.3	40
24	Mechanisms of millennial-scale atmospheric CO2 change in numerical model simulations. Quaternary Science Reviews, 2019, 220, 30-74.	1.4	46
25	Single Particle Characterization and Total Elemental Concentration Measurements in Polar Ice Using Continuous Flow Analysis-Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. Environmental Science & Technology, 2019, 53, 13275-13283.	4.6	27
26	N₂O changes from the Last Glacial Maximum to the preindustrial â€“ Part 1: Quantitative reconstruction of terrestrial and marine emissions using N₂O stable isotopes in ice cores. Biogeosciences, 2019, 16, 3997-4021.	1.3	12
27	Modelling the Antarctic Ice Sheet across the mid-Pleistocene transition â€“ implications for Oldest Ice. Cryosphere, 2019, 13, 2023-2041.	1.5	42
28	Decadal-scale progression of the onset of Dansgaardâ€“Oeschger warming events. Climate of the Past, 2019, 15, 811-825.	1.3	31
29	Industrial-era decline in subarctic Atlantic productivity. Nature, 2019, 569, 551-555.	13.7	56
30	Palynological insights into global change impacts on Arctic vegetation, fire, and pollution recorded in Central Greenland ice. Holocene, 2019, 29, 1189-1197.	0.9	19
31	Impurity Analysis and Microstructure Along the Climatic Transition From MIS 6 Into 5e in the EDML Ice Core Using Cryo-Raman Microscopy. Frontiers in Earth Science, 2019, 7, .	0.8	18
32	Fe2+ in ice cores as a new potential proxy to detect past volcanic eruptions. Science of the Total Environment, 2019, 654, 1110-1117.	3.9	14
33	Greenland records of aerosol source and atmospheric lifetime changes from the Eemian to the Holocene. Nature Communications, 2018, 9, 1476.	5.8	74
34	Bipolar carbon and hydrogen isotope constraints on the Holocene methane budget. Biogeosciences, 2018, 15, 7155-7175.	1.3	24
35	High-resolution isotopic evidence for a potential Saharan provenance of Greenland glacial dust. Scientific Reports, 2018, 8, 15582.	1.6	20
36	Connecting the Greenland ice-core and Uâˆ•Th timescales via cosmogenic radionuclides: testing the synchroneity of Dansgaardâ€“Oeschger events. Climate of the Past, 2018, 14, 1755-1781.	1.3	62

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37	Temperature and mineral dust variability recorded in two low-accumulation Alpine ice cores over the last millennium. Climate of the Past, 2018, 14, 21-37.	1.3	39
38	The PMIP4 contribution to CMIP6 â€“ Part 1: Overview and over-arching analysis plan. Geoscientific Model Development, 2018, 11, 1033-1057.	1.3	164
39	Palaeoclimate constraints on the impact of 2 Â°C anthropogenic warming and beyond. Nature Geoscience, 2018, 11, 474-485.	5.4	166
40	Interlaboratory comparison of <i>Î´</i>¹³C and <i>Î´</i>D measurements of atmospheric CH₄ for combined use of data sets from different laboratories. Atmospheric Measurement Techniques, 2018, 11, 1207-1231.	1.2	31
41	Atmospheric impacts of the strongest known solar particle storm of 775 AD. Scientific Reports, 2017, 7, 45257.	1.6	54
42	Comment on "Changes in atmospheric CO 2 levels recorded by the isotopic signature of n -alkanes from plants" from K.S. Machado and S. Froehner. Global and Planetary Change, 2017, 156, 24-25.	1.6	2
43	Glacial/interglacial wetland, biomass burning, and geologic methane emissions constrained by dual stable isotopic CH ₄ ice core records. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5778-E5786.	3.3	58
44	The PMIP4 contribution to CMIP6 â€“ Part 2: Two interglacials, scientific objective and experimental design for Holocene and Last Interglacial simulations. Geoscientific Model Development, 2017, 10, 3979-4003.	1.3	171
45	Is there 1.5-million-year-old ice near DomeÂC, Antarctica?. Cryosphere, 2017, 11, 2427-2437.	1.5	36
46	A 156â€kyr smoothed history of the atmospheric greenhouse gases CO₂, CH₄, and N₂O and their radiative forcing. Earth System Science Data, 2017, 9, 363-387.	3.7	157
47	Real-time analysis of <i>Î´</i>¹³C- and <i>Î´</i>D-CH₄ in ambient air with laser spectroscopy: method development and first intercomparison results. Atmospheric Measurement Techniques, 2016, 9, 263-280.	1.2	43
48	Boreal fire records in Northern Hemisphere ice cores: a review. Climate of the Past, 2016, 12, 2033-2059.	1.3	70
49	How warm was Greenland during the last interglacial period?. Climate of the Past, 2016, 12, 1933-1948.	1.3	30
50	Climatic and insolation control on the high-resolution total air content in the NGRIP ice core. Climate of the Past, 2016, 12, 1979-1993.	1.3	12
51	In situ observations of the isotopic composition of methane at the Cabauw tall tower site. Atmospheric Chemistry and Physics, 2016, 16, 10469-10487.	1.9	77
52	Evolution of the stable carbon isotope composition of atmospheric CO₂ over the last glacial cycle. Paleoceanography, 2016, 31, 434-452.	3.0	81
53	Comparative carbon cycle dynamics of the present and last interglacial. Quaternary Science Reviews, 2016, 137, 15-32.	1.4	26
54	Geochemical and Microbiological Studies of Nitrous Oxide Variations within the New NEEM Greenland Ice Core during the Last Glacial Period. Geomicrobiology Journal, 2016, 33, 647-660.	1.0	21

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55	Chemical compositions of solid particles present in the Greenland NEEM ice core over the last 110,000 years. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9789-9813.	1.2	13
56	Revision of the EPICA Dome C CO₂ record from 800 to 600â€‰kyr before present. Geophysical Research Letters, 2015, 42, 542-549.	1.5	465
57	The role of seasonality of mineral dust concentration and size on glacial/interglacial dust changes in the EPICA Dronning Maud Land ice core. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9916-9931.	1.2	32
58	Retrieving the paleoclimatic signal from the deeper part of the EPICA Dome C ice core. Cryosphere, 2015, 9, 1633-1648.	1.5	32
59	Estimation and calibration of the water isotope differential diffusion length in ice core records. Cryosphere, 2015, 9, 1601-1616.	1.5	14
60	Comment on â€œSynchronous records of pCO2 and Î”14C suggest rapid, ocean-derived pCO2 fluctuations at the onset of Younger Dryasâ€•by Steinthorsdottir etÂal. Quaternary Science Reviews, 2015, 107, 267-270.	1.4	2
61	Timing and climate forcing of volcanic eruptions for the past 2,500 years. Nature, 2015, 523, 543-549.	13.7	824
62	A tephra lattice for Greenland and a reconstruction of volcanic events spanning 25â€“45 ka b2k. Quaternary Science Reviews, 2015, 118, 122-141.	1.4	75
63	Millennial changes in North American wildfire and soil activity over the last glacial cycle. Nature Geoscience, 2015, 8, 723-727.	5.4	53
64	Online technique for isotope and mixing ratios of CH₄, N₂O, Xe and mixing ratios of organic trace gases on a single ice core sample. Atmospheric Measurement Techniques, 2014, 7, 2645-2665.	1.2	24
65	Dependence of Eemian Greenland temperature reconstructions on the ice sheet topography. Climate of the Past, 2014, 10, 1221-1238.	1.3	27
66	NGRIP CH₄ concentration from 120 to 10 kyr before present and its relation to a Î´¹⁵N temperature reconstruction from the same ice core. Climate of the Past, 2014, 10, 903-920.	1.3	61
67	Influence of ice sheet topography on Greenland precipitation during the Eemian interglacial. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,749-10,768.	1.2	19
68	Diffusive equilibration of N₂, O₂ and CO₂ mixing ratios in a 1.5-million-years-old ice core. Cryosphere, 2014, 8, 245-256.	1.5	23
69	Improving accuracy and precision of ice core Î´D(CH₄) analyses using methane pre-pyrolysis and hydrogen post-pyrolysis trapping and subsequent chromatographic separation. Atmospheric Measurement Techniques, 2014, 7, 1999-2012.	1.2	14
70	Representativeness and seasonality of major ion records derived from NEEM firn cores. Cryosphere, 2014, 8, 1855-1870.	1.5	31
71	Isotopic constraints on marine and terrestrial N2O emissions during the last deglaciation. Nature, 2014, 516, 234-237.	13.7	38
72	A stratigraphic framework for abrupt climatic changes during the Last Glacial period based on three synchronized Greenland ice-core records: refining and extending the INTIMATE event stratigraphy. Quaternary Science Reviews, 2014, 106, 14-28.	1.4	1,436

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73	A climatological analysis of highâ€precipitation events in Dronning Maud Land, Antarctica, and associated largeâ€scale atmospheric conditions. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,932.	1.2	21
74	RADIX: a minimal-resources rapid-access drilling system. Annals of Glaciology, 2014, 55, 34-38.	2.8	34
75	Corrigendum to "Dependence of Eemian Greenland temperature reconstructions on the ice sheet topography" published in Clim. Past, 10, 1221â€“1238, 2014. Climate of the Past, 2014, 10, 1603-1604.	1.3	0
76	Independent variations of CH4 emissions and isotopic composition over the past 160,000 years. Nature Geoscience, 2013, 6, 885-890.	5.4	54
77	Eemian interglacial reconstructed from a Greenland folded ice core. Nature, 2013, 493, 489-494.	13.7	565
78	Impact of an abrupt cooling event on interglacial methane emissions in northern peatlands. Biogeosciences, 2013, 10, 1963-1981.	1.3	30
79	Continuous Flow Analysis of Labile Iron in Ice-Cores. Environmental Science & Technology, 2013, 47, 4416-4425.	4.6	8
80	A centrifugal ice microtome for measurements of atmospheric CO₂ on air trapped in polar ice cores. Atmospheric Measurement Techniques, 2013, 6, 251-262.	1.2	8
81	The response of atmospheric nitrous oxide to climate variations during the last glacial period. Geophysical Research Letters, 2013, 40, 1888-1893.	1.5	14
82	Where to find 1.5 million yr old ice for the IPICS "Oldest-Ice" ice core. Climate of the Past, 2013, 9, 2489-2505.	1.3	123
83	An optimized multi-proxy, multi-site Antarctic ice and gas orbital chronology (AICC2012): 120â€“800 ka. Climate of the Past, 2013, 9, 1715-1731.	1.3	324
84	A reconstruction of atmospheric carbon dioxide and its stable carbon isotopic composition from the penultimate glacial maximum to the last glacial inception. Climate of the Past, 2013, 9, 2507-2523.	1.3	90
85	Direct linking of Greenland and Antarctic ice cores at the Toba eruption (74 ka BP). Climate of the Past, 2013, 9, 749-766.	1.3	70
86	High-resolution mineral dust and sea ice proxy records from the Talos Dome ice core. Climate of the Past, 2013, 9, 2789-2807.	1.3	24
87	On the interference of Kr during carbon isotope analysis of methane using continuous-flow combustionâ€“isotope ratio mass spectrometry. Atmospheric Measurement Techniques, 2013, 6, 1425-1445.	1.2	26
88	Greenland accumulation and its connection to the large-scale atmospheric circulation in ERA-Interim and paleoclimate simulations. Climate of the Past, 2013, 9, 2433-2450.	1.3	22
89	9,400 years of cosmic radiation and solar activity from ice cores and tree rings. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5967-5971.	3.3	557
90	Mode change of millennial CO ₂ variability during the last glacial cycle associated with a bipolar marine carbon seesaw. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9755-9760.	3.3	134

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91	On the impact of impurities on the densification of polar firn. Earth and Planetary Science Letters, 2012, 325-326, 93-99.	1.8	78
92	Change in dust variability in the Atlantic sector of Antarctica at the end of the last deglaciation. Climate of the Past, 2012, 8, 135-147.	1.3	39
93	Centennial mineral dust variability in high-resolution ice core data from Dome C, Antarctica. Climate of the Past, 2012, 8, 609-623.	1.3	136
94	High-resolution interpolar difference of atmospheric methane around the Last Glacial Maximum. Biogeosciences, 2012, 9, 3961-3977.	1.3	54
95	Corrigendum to "High-resolution interpolar difference of atmospheric methane around the Last Glacial Maximum" published in Biogeosciences, 9, 3961â€“3977, 2012. Biogeosciences, 2012, 9, 4399-4399.	1.3	0
96	Carbon Isotope Constraints on the Deglacial CO ₂ Rise from Ice Cores. Science, 2012, 336, 711-714.	6.0	339
97	A global picture of the first abrupt climatic event occurring during the last glacial inception. Geophysical Research Letters, 2012, 39, .	1.5	33
98	A refined TALDICE-1a age scale from 55 to 112 ka before present for the Talos Dome ice core based on high-resolution methane measurements. Climate of the Past, 2011, 7, 1001-1009.	1.3	24
99	Simultaneous stable isotope analysis of methane and nitrous oxide on ice core samples. Atmospheric Measurement Techniques, 2011, 4, 2607-2618.	1.2	41
100	A sublimation technique for high-precision measurements of Î´¹³CO₂ and mixing ratios of CO₂ and N₂O from air trapped in ice cores. Atmospheric Measurement Techniques, 2011, 4, 1445-1461.	1.2	29
101	A gas chromatography/pyrolysis/isotope ratio mass spectrometry system for highâ€precision Î´D measurements of atmospheric methane extracted from ice cores. Rapid Communications in Mass Spectrometry, 2010, 24, 621-633.	0.7	37
102	Hydrogen Isotopes Preclude Marine Hydrate CH ₄ Emissions at the Onset of Dansgaard-Oeschger Events. Science, 2010, 328, 1686-1689.	6.0	69
103	CO2 and O2/N2 variations in and just below the bubbleâ€“clathrate transformation zone of Antarctic ice cores. Earth and Planetary Science Letters, 2010, 297, 226-233.	1.8	47
104	Atmospheric nitrous oxide during the last 140,000years. Earth and Planetary Science Letters, 2010, 300, 33-43.	1.8	154
105	Glacialâ€“interglacial and millennial-scale variations in the atmospheric nitrous oxide concentration during the last 800,000 years. Quaternary Science Reviews, 2010, 29, 182-192.	1.4	163
106	The role of Southern Ocean processes in orbital and millennial CO2 variations â€“ A synthesis. Quaternary Science Reviews, 2010, 29, 193-205.	1.4	115
107	Changes in environment over the last 800,000 years from chemical analysis of the EPICA Dome C ice core. Quaternary Science Reviews, 2010, 29, 285-295.	1.4	183
108	A major glacial-interglacial change in aeolian dust composition inferred from Rare Earth Elements in Antarctic ice. Quaternary Science Reviews, 2010, 29, 265-273.	1.4	86

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109	Atmospheric decadal variability from high-resolution Dome C ice core records of aerosol constituents beyond the Last Interglacial. Quaternary Science Reviews, 2010, 29, 324-337.	1.4	14
110	What caused Earth's temperature variations during the last 800,000 years? Data-based evidence on radiative forcing and constraints on climate sensitivity. Quaternary Science Reviews, 2010, 29, 129-145.	1.4	143
111	The deuterium excess records of EPICA Dome C and Dronning Maud Land ice cores (East Antarctica). Quaternary Science Reviews, 2010, 29, 146-159.	1.4	195
112	Ammonium and non-sea salt sulfate in the EPICA ice cores as indicator of biological activity in the Southern Ocean. Quaternary Science Reviews, 2010, 29, 313-323.	1.4	50
113	Climate of the last million years: new insights from EPICA and other records. Quaternary Science Reviews, 2010, 29, 1-7.	1.4	24
114	AtmosphericÎ´¹³CO₂and its relation topCO₂and deep oceanÎ´¹³C during the late Pleistocene. Paleoceanography, 2010, 25, .	3.0	57
115	115 year ice-core data from Akademii Nauk ice cap, Severnaya Zemlya: high-resolution record of Eurasian Arctic climate change. Journal of Glaciology, 2009, 55, 21-31.	1.1	20
116	Stable isotope constraints on Holocene carbon cycle changes from an Antarctic ice core. Nature, 2009, 461, 507-510.	13.7	203
117	Glacial terminations as southern warmings without northern control. Nature Geoscience, 2009, 2, 206-209.	5.4	109
118	Sulfate Spikes in the Deep Layers of EPICA-Dome C Ice Core: Evidence of Glaciological Artifacts. Environmental Science & Technology, 2009, 43, 8737-8743.	4.6	30
119	Revisiting sites of the South Pole Queen Maud Land Traverses in East Antarctica: Accumulation data from shallow firn cores. Journal of Geophysical Research, 2009, 114, .	3.3	24
120	A New Method for High-Resolution Methane Measurements on Polar Ice Cores Using Continuous Flow Analysis. Environmental Science & Technology, 2009, 43, 5371-5376.	4.6	31
121	A gas chromatography/combustion/isotope ratio mass spectrometry system for highâ€precision Î´¹³C measurements of atmospheric methane extracted from ice core samples. Rapid Communications in Mass Spectrometry, 2008, 22, 3261-3269.	0.7	30
122	Changing boreal methane sources and constant biomass burning during the last termination. Nature, 2008, 452, 864-867.	13.7	173
123	High-resolution carbon dioxide concentration record 650,000â€“800,000â€‰years before present. Nature, 2008, 453, 379-382.	13.7	1,837
124	Proxies and Measurement Techniques for Mineral Dust in Antarctic Ice Cores. Environmental Science & Technology, 2008, 42, 5675-5681.	4.6	81
125	High-Resolution Greenland Ice Core Data Show Abrupt Climate Change Happens in Few Years. Science, 2008, 321, 680-684.	6.0	761
126	The Southern Hemisphere at glacial terminations: insights from the Dome C ice core. Climate of the Past, 2008, 4, 345-356.	1.3	57

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127	The EDC3 chronology for the EPICA Dome C ice core. Climate of the Past, 2007, 3, 485-497.	1.3	396
128	Soluble and insoluble lithium dust in the EPICA DomeC ice coreâ€"Implications for changes of the East Antarctic dust provenance during the recent glacialâ€"interglacial transition. Earth and Planetary Science Letters, 2007, 258, 32-43.	1.8	27
129	Reconstruction of millennial changes in dust emission, transport and regional sea ice coverage using the deep EPICA ice cores from the Atlantic and Indian Ocean sector of Antarctica. Earth and Planetary Science Letters, 2007, 260, 340-354.	1.8	193
130	Erratum to â€œReconstruction of millennial changes in dust emission, transport and regional sea ice coverage using the deep EPICA ice cores from the Atlantic and Indian Ocean sector of Antarcticaâ€• [Earth Planet. Sci. Lett. 260 (2007) 340â€"354]. Earth and Planetary Science Letters, 2007, 262, 635-636.	1.8	1
131	Glacial/interglacial changes in mineral dust and sea-salt records in polar ice cores: Sources, transport, and deposition. Reviews of Geophysics, 2007, 45, .	9.0	200
132	Synchronisation of the EDML and EDC ice cores for the last 52 kyr by volcanic signature matching. Climate of the Past, 2007, 3, 367-374.	1.3	73
133	"EDML1": a chronology for the EPICA deep ice core from Dronning Maud Land, Antarctica, over the last 150 000 years. Climate of the Past, 2007, 3, 475-484.	1.3	143
134	Orbital and Millennial Antarctic Climate Variability over the Past 800,000 Years. Science, 2007, 317, 793-796.	6.0	1,880
135	The influence of regional circulation patterns on wet and dry mineral dust and sea salt deposition over Greenland. Climate Dynamics, 2007, 28, 635-647.	1.7	15
136	A model-based interpretation of low-frequency changes in the carbon cycle during the last 120,000 years and its implications for the reconstruction of atmospheric Î"14C. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	51
137	Influence of large-scale teleconnection patterns on methane sulfonate ice core records in Dronning Maud Land. Journal of Geophysical Research, 2006, 111, .	3.3	14
138	A new Greenland ice core chronology for the last glacial termination. Journal of Geophysical Research, 2006, 111, .	3.3	1,454
139	On the application and interpretation of Keeling plots in paleo climate research â€" deciphering Î´¹³C of atmospheric CO₂ measured in ice cores. Biogeosciences, 2006, 3, 539-556.	1.3	30
140	Simulating low frequency changes in atmospheric CO₂ during the last 740 000 years. Climate of the Past, 2006, 2, 57-78.	1.3	54
141	Constraints on N₂O budget changes since pre-industrial time from new firn air and ice core isotope measurements. Atmospheric Chemistry and Physics, 2006, 6, 493-503.	1.9	45
142	Southern Ocean sea-ice extent, productivity and iron flux over the past eight glacial cycles. Nature, 2006, 440, 491-496.	13.7	482
143	One-to-one coupling of glacial climate variability in Greenland and Antarctica. Nature, 2006, 444, 195-198.	13.7	1,111
144	30,000 Years of Cosmic Dust in Antarctic Ice. Science, 2006, 313, 491-491.	6.0	45

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145	The future of ice coring: International Partnerships in Ice Core Sciences (IPICS). PAGES News, 2006, 14, 6-10.	0.3	30
146	Snow chemistry across Antarctica. Annals of Glaciology, 2005, 41, 167-179.	2.8	90
147	Glaciochemical reconnaissance of a new ice core from Severnaya Zemlya, Eurasian Arctic. Journal of Glaciology, 2005, 51, 64-74.	1.1	23
148	Statistical techniques to select detection thresholds for peak signals in ice-core data. Journal of Glaciology, 2005, 51, 655-662.	1.1	8
149	Supporting evidence from the EPICA Dronning Maud Land ice core for atmospheric CO2 changes during the past millennium. Tellus, Series B: Chemical and Physical Meteorology, 2005, 57, 51-57.	0.8	71
150	A 1,000-year ice core record of interannual to multidecadal variations in atmospheric circulation over the North Atlantic. Climate Dynamics, 2005, 25, 65-74.	1.7	30
151	Stable Carbon Cycle-Climate Relationship During the Late Pleistocene. Science, 2005, 310, 1313-1317.	6.0	811
152	Quantitative interpretation of atmospheric carbon records over the last glacial termination. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	124
153	Holocene climatic changes in Greenland: Different deuterium excess signals at Greenland Ice Core Project (GRIP) and NorthGRIP. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	88
154	Modeling past atmospheric CO2: Results of a challenge. Eos, 2005, 86, 341.	0.1	18
155	Spatio-temporal variability in volcanic sulphate deposition over the past 2 kyr in snow pits and firn cores from Amundsenisen, Antarctica. Journal of Glaciology, 2004, 50, 137-146.	1.1	90
156	Eight glacial cycles from an Antarctic ice core. Nature, 2004, 429, 623-628.	13.7	2,015
157	High-resolution record of Northern Hemisphere climate extending into the last interglacial period. Nature, 2004, 431, 147-151.	13.7	2,489
158	Prevalence of the Antarctic Circumpolar Wave over the last two millenia recorded in Dronning Maud Land ice. Geophysical Research Letters, 2004, 31, .	1.5	23
159	Postdepositional losses of methane sulfonate, nitrate, and chloride at the European Project for Ice Coring in Antarctica deep-drilling site in Dronning Maud Land, Antarctica. Journal of Geophysical Research, 2004, 109, .	3.3	67
160	The EPICA challenge to the Earth system modeling community. Eos, 2004, 85, 363.	0.1	6
161	What do accumulation records of single ice cores in Greenland represent?. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	15
162	The Environmental and Climate Record in Polar Ice Cores. Zeitschrift FâˆšÂºr Europâˆ‘Â§isches Unternehmens- Und Verbraucherrecht, 2004, , 149-170.	0.2	2

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