James W C White

List of Publications by Year
in descending order

178 papers	30,155 citations	7568 77 h-index	4991 167 g-index
197 all docs	197 docs citations	197 times ranked	21498 citing authors

#	Article	IF	Citations
1	High-resolution record of Northern Hemisphere climate extending into the last interglacial period. Nature, 2004, 431, 147-151.	27.8	2,489
2	Comparison of oxygen isotope records from the GISP2 and GRIP Greenland ice cores. Nature, 1993, 366, 552-554.	27.8	1,783
3	Abrupt increase in Greenland snow accumulation at the end of the Younger Dryas event. Nature, 1993, 362, 527-529.	27.8	1,149
4	Continental-scale temperature variability during the past two millennia. Nature Geoscience, 2013, 6, 339-346.	12.9	954
5	Oxygen isotope and palaeotemperature records from six Greenland ice-core stations: Camp Century, Dye-3, GRIP, GISP2, Renland and NorthGRIP. Journal of Quaternary Science, 2001, 16, 299-307.	2.1	936
6	Contribution of anthropogenic and natural sources to atmospheric methane variability. Nature, 2006, 443, 439-443.	27.8	935
7	High-Resolution Greenland Ice Core Data Show Abrupt Climate Change Happens in Few Years. Science, 2008, 321, 680-684.	12.6	761
8	A Large Northern Hemisphere Terrestrial CO2 Sink Indicated by the 13C/12C Ratio of Atmospheric CO2. Science, 1995, 269, 1098-1102.	12.6	752
9	Molecular Paleohydrology: Interpreting the Hydrogen-Isotopic Composition of Lipid Biomarkers from Photosynthesizing Organisms. Annual Review of Earth and Planetary Sciences, 2012, 40, 221-249.	11.0	748
10	Evolution of Neoantigen Landscape during Immune Checkpoint Blockade in Nonâ€“Small Cell Lung Cancer. Cancer Discovery, 2017, 7, 264-276.	9.4	706
11	The abrupt termination of the Younger Dryas climate event. Nature, 1989, 339, 532-534.	27.8	690
12	Increase in observed net carbon dioxide uptake by land and oceans during the past 50 years. Nature, 2012, 488, 70-72.	27.8	583
13	Eemian interglacial reconstructed from a Greenland folded ice core. Nature, 2013, 493, 489-494.	27.8	565
14	The â€˜flickering switchâ€™ of late Pleistocene climate change. Nature, 1993, 361, 432-436.	27.8	558
15	Observational constraints on recent increases in the atmospheric CH₄ burden. Geophysical Research Letters, 2009, 36, .	4.0	499
16	Global Carbon Sinks and Their Variability Inferred from Atmospheric O2 and 13C. Science, 2000, 287, 2467-2470.	12.6	471
17	Changes in oceanic and terrestrial carbon uptake since 1982. Nature, 1995, 373, 326-330.	27.8	457
18	Stable isotopic variations in west China: A consideration of moisture sources. Journal of Geophysical Research, 2007, 112, .	3.3	443

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19	The ratios of sap in trees: Implications for water sources and tree ring ratios. Geochimica Et Cosmochimica Acta, 1985, 49, 237-246.	3.9	441
20	Upward revision of global fossil fuel methane emissions based on isotope database. Nature, 2016, 538, 88-91.	27.8	400
21	The 8.2ka event from Greenland ice cores. Quaternary Science Reviews, 2007, 26, 70-81.	3.0	386
22	Centennial-scale changes in the global carbon cycle during the last deglaciation. Nature, 2014, 514, 616-619.	27.8	380
23	Very Strong Atmospheric Methane Growth in the 4ÂYears 2014â€“2017: Implications for the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 318-342.	4.9	353
24	A Review of Antarctic Surface Snow Isotopic Composition: Observations, Atmospheric Circulation, and Isotopic Modeling*. Journal of Climate, 2008, 21, 3359-3387.	3.2	344
25	History of sea ice in the Arctic. Quaternary Science Reviews, 2010, 29, 1757-1778.	3.0	343
26	A 21st-century shift from fossil-fuel to biogenic methane emissions indicated by ¹³ CH ₄. Science, 2016, 352, 80-84.	12.6	336
27	Rising atmospheric methane: 2007â€“2014 growth and isotopic shift. Global Biogeochemical Cycles, 2016, 30, 1356-1370.	4.9	317
28	Partitioning of ocean and land uptake of CO2as inferred by Î´13C measurements from the NOAA Climate Monitoring and Diagnostics Laboratory Global Air Sampling Network. Journal of Geophysical Research, 1995, 100, 5051.	3.3	315
29	Unexpected Changes to the Global Methane Budget over the Past 2000 Years. Science, 2005, 309, 1714-1717.	12.6	310
30	Simulations of the HDO and H₂¹⁸O atmospheric cycles using the NASA GISS general circulation model: The seasonal cycle for presentâ€day conditions. Journal of Geophysical Research, 1987, 92, 14739-14760.	3.3	303
31	Synchronous Climate Changes in Antarctica and the North Atlantic. , 1998, 282, 92-95.		292
32	GRIP Deuterium Excess Reveals Rapid and Orbital-Scale Changes in Greenland Moisture Origin. Science, 2005, 309, 118-121.	12.6	287
33	Onset of deglacial warming in West Antarctica driven by local orbital forcing. Nature, 2013, 500, 440-444.	27.8	276
34	The origin of Arctic precipitation under present and glacial conditions. Tellus, Series B: Chemical and Physical Meteorology, 1989, 41B, 452-468.	1.6	270
35	Arctic amplification: can the past constrain the future?. Quaternary Science Reviews, 2010, 29, 1779-1790.	3.0	233
36	Role of atmospheric oxidation in recent methane growth. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5373-5377.	7.1	231

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37	Oxygen-18 concentrations in recent precipitation and ice cores on the Tibetan Plateau. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	230
38	Temperature and precipitation history of the Arctic. Quaternary Science Reviews, 2010, 29, 1679-1715.	3.0	226
39	Greenland temperature response to climate forcing during the last deglaciation. Science, 2014, 345, 1177-1180.	12.6	226
40	Multiâ€element regulation of the tropical forest carbon cycle. Frontiers in Ecology and the Environment, 2011, 9, 9-17.	4.0	204
41	A three-dimensional synthesis study of Î´18O in atmospheric CO2: 1. Surface fluxes. Journal of Geophysical Research, 1997, 102, 5857-5872.	3.3	200
42	Deuterium excess in recent Antarctic snow. Journal of Geophysical Research, 1991, 96, 5113-5122.	3.3	186
43	Monitoring the isotopic composition of atmospheric CO2: Measurements from the NOAA Global Air Sampling Network. Journal of Geophysical Research, 1996, 101, 25897-25916.	3.3	186
44	History of the Greenland Ice Sheet: paleoclimatic insights. Quaternary Science Reviews, 2010, 29, 1728-1756.	3.0	177
45	A revised 1000â€‰year atmospheric Î´¹³Câ€CO₂ record from Law Dome and South Pole, Antarctica. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8482-8499.	3.3	171
46	The Holocene-Younger Dryas Transition Recorded at Summit, Greenland. Science, 1997, 278, 825-827.	12.6	160
47	Continuous monitoring of summer surface water vapor isotopic composition above the Greenland Ice Sheet. Atmospheric Chemistry and Physics, 2013, 13, 4815-4828.	4.9	155
48	Compiled records of carbon isotopes in atmospheric CO₂ for historical simulations in CMIP6. Geoscientific Model Development, 2017, 10, 4405-4417.	3.6	154
49	A high-resolution record of atmospheric CO2 content from carbon isotopes in pet. Nature, 1994, 367, 153-156.	27.8	153
50	Entrainment at cold glacier beds. Geology, 2000, 28, 351.	4.4	144
51	Recent climate and ice-sheet changes in West Antarctica compared with the past 2,000 years. Nature Geoscience, 2013, 6, 372-375.	12.9	140
52	The climate signal in the stable isotopes of snow from Summit, Greenland: Results of comparisons with modern climate observations. Journal of Geophysical Research, 1997, 102, 26425-26439.	3.3	139
53	Increased water-use efficiency and reduced CO2 uptake by plants during droughts at a continental scale. Nature Geoscience, 2018, 11, 744-748.	12.9	139
54	ECMWF Analyses and Reanalyses Depiction of ENSO Signal in Antarctic Precipitation*. Journal of Climate, 2000, 13, 1406-1420.	3.2	131

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55	Timing of millennial-scale climate change at Siple Dome, West Antarctica, during the last glacial period. Quaternary Science Reviews, 2005, 24, 1333-1343.	3.0	130
56	Gas transport in firn: multiple-tracer characterisation and model intercomparison for NEEM, Northern Greenland. Atmospheric Chemistry and Physics, 2012, 12, 4259-4277.	4.9	130
57	Higher education's sustainability imperative: how to practically respond?. International Journal of Sustainability in Higher Education, 2012, 13, 19-33.	3.1	123
58	The North Atlantic Oscillation signature in deuterium and deuterium excess signals in the Greenland Ice Sheet Project 2 Ice Core, 1840â€“1970. Geophysical Research Letters, 1993, 20, 2901-2904.	4.0	122
59	Development of analytical methods and measurements of13C/12C in atmospheric CH4from the NOAA Climate Monitoring and Diagnostics Laboratory Global Air Sampling Network. Journal of Geophysical Research, 2002, 107, ACH 11-1.	3.3	115
60	The GRIP deuterium-excess record. Quaternary Science Reviews, 2007, 26, 1-17.	3.0	113
61	Multiproxy Record of Late Pleistoceneâ€“Holocene Climate and Vegetation Changes from a Peat Bog in Patagonia. Quaternary Research, 2001, 55, 168-178.	1.7	110
62	Fire emissions from C3and C4vegetation and their influence on interannual variability of atmospheric CO2and Î´13CO2. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	4.9	108
63	Variations in global methane sources and sinks during 1910â€“2010. Atmospheric Chemistry and Physics, 2015, 15, 2595-2612.	4.9	108
64	Global atmospheric teleconnections during Dansgaardâ€“Oeschger events. Nature Geoscience, 2017, 10, 36-40.	12.9	108
65	Comparison of suicidal ideation, suicide attempt and suicide in children and young people in care and non-care populations: Systematic review and meta-analysis of prevalence. Children and Youth Services Review, 2017, 82, 122-129.	1.9	103
66	Simulation of stable water isotope variations by the GENESIS GCM for modern conditions. Journal of Geophysical Research, 2002, 107, ACL 2-1.	3.3	101
67	Climatic controls on water vapor deuterium excess in the marine boundary layer of the North Atlantic based on 500 days of in situ, continuous measurements. Atmospheric Chemistry and Physics, 2014, 14, 7741-7756.	4.9	100
68	Determination of the isotopic(13C/12C) discrimination by terrestrial biology from a global network of observations. Global Biogeochemical Cycles, 1998, 12, 555-562.	4.9	96
69	Measurement of18O/16O in the soil-atmosphere CO2flux. Global Biogeochemical Cycles, 1999, 13, 761-774.	4.9	96
70	Audit of the global carbon budget: estimate errors and their impact on uptake uncertainty. Biogeosciences, 2015, 12, 2565-2584.	3.3	96
71	Interpreting methane variations in the past two decades using measurements of CH₄ mixing ratio and isotopic composition. Atmospheric Chemistry and Physics, 2011, 11, 9141-9153.	4.9	95
72	NOAA/CSIRO Flask Air Intercomparison Experiment: A strategy for directly assessing consistency among atmospheric measurements made by independent laboratories. Journal of Geophysical Research, 2001, 106, 20445-20464.	3.3	91

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73	Modeling and interpreting ratios in tree rings: A test case of white pine in the northeastern United States. Geochimica Et Cosmochimica Acta, 1994, 58, 851-862.	3.9	88
74	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
75	Storm trajectories in eastern US D/H isotopic composition of precipitation. Nature, 1982, 296, 638-640.	27.8	86
76	Elevated atmospheric CO2effects and soil water feedbacks on soil respiration components in a Colorado grassland. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	85
77	Temperature and accumulation at the Greenland Summit: Comparison of high-resolution isotope profiles and satellite passive microwave brightness temperature trends. Journal of Geophysical Research, 1995, 100, 9165.	3.3	82
78	Methane emissions in East Asia for 2000â€“2011 estimated using an atmospheric Bayesian inversion. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4352-4369.	3.3	82
79	Holocene hydrological cycle changes in the Southern Hemisphere documented in East Antarctic deuterium excess records. Climate Dynamics, 2001, 17, 503-513.	3.8	80
80	Simulations of the HDO and H₂¹⁸O atmospheric cycles using the NASA GISS general circulation model: Sensitivity experiments for presentâ€day conditions. Journal of Geophysical Research, 1991, 96, 7495-7507.	3.3	79
81	Oceanic processes as potential trigger and amplifying mechanisms for Heinrich events. Paleoceanography, 2006, 21, n/a-n/a.	3.0	79
82	The isotopic composition of atmospheric water vapor and the concurrent meteorological conditions. Journal of Geophysical Research, 1984, 89, 4937-4939.	3.3	77
83	Stable Hydrogen Isotope Ratios in Plants: A Review of Current Theory and Some Potential Applications. Ecological Studies, 1989, , 142-162.	1.2	77
84	A three-dimensional synthesis study of Î´18O in atmospheric CO2: 2. Simulations with the TM2 transport model. Journal of Geophysical Research, 1997, 102, 5873-5883.	3.3	75
85	Influence of clouds and diffuse radiation on ecosystemâ€atmosphere CO₂ and CO¹⁸O exchanges. Journal of Geophysical Research, 2009, 114, .	3.3	71
86	The Neogene transition from C₃to C₄grasslands in North America: stable carbon isotope ratios of fossil phytoliths. Paleobiology, 2011, 37, 23-49.	2.0	70
87	Extensive observations of CO2carbon isotope content in and above a high-elevation subalpine forest. Global Biogeochemical Cycles, 2005, 19, .	4.9	69
88	Changes in climate, ocean and ice-sheet conditions in the Ross embayment, Antarctica, at 6 ka. Annals of Glaciology, 1998, 27, 305-310.	1.4	65
89	A record of atmospheric CO2during the last 40,000 years from the Siple Dome, Antarctica ice core. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	64
90	The origin of present-day Antarctic precipitation from surface snow deuterium excess data. Journal of Geophysical Research, 1995, 100, 18917.	3.3	63

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91	Stable isotopes provide revised global limits of aerobic methane emissions from plants. Atmospheric Chemistry and Physics, 2007, 7, 237-241.	4.9	63
92	Monthly precipitation isoscapes (Î´¹⁸O) of the United States: Connections with surface temperatures, moisture source conditions, and air mass trajectories. Journal of Geophysical Research, 2010, 115, .	3.3	63
93	No inter-hemispheric Î´13CH4 trend observed. Nature, 2012, 486, E3-E4.	27.8	60
94	Oxygen isotope exchange between carbon dioxide and water following atmospheric sampling using glass flasks. Journal of Geophysical Research, 1996, 101, 14415-14420.	3.3	57
95	Examination of a sociocultural model of excessive exercise among male and female adolescents. Body Image, 2010, 7, 227-233.	4.3	56
96	Amountâ€weighted annual isotopic (Î´¹⁸O) values are affected by the seasonality of precipitation: A sensitivity study. Geophysical Research Letters, 2007, 34, .	4.0	55
97	Growing season precipitation from D/H ratios of Eastern White Pine. Nature, 1984, 311, 558-560.	27.8	50
98	A comprehensive global three-dimensional model of Î´18O in atmospheric CO2: 2. Mapping the atmospheric signal. Journal of Geophysical Research, 2003, 108, .	3.3	49
99	High-resolution ice cores from US ITASE (West Antarctica): development and validation of chronologies and determination of precision and accuracy. Annals of Glaciology, 2005, 41, 77-84.	1.4	48
100	Carbon isotope discrimination of arctic and boreal biomes inferred from remote atmospheric measurements and a biosphere-atmosphere model. Global Biogeochemical Cycles, 2002, 16, 1-1-1-15.	4.9	47
101	Modeled seasonality of glacial abrupt climate events. Climate Dynamics, 2008, 31, 633-645.	3.8	46
102	Biosphere model simulations of interannual variability in terrestrial ¹³C/¹²C exchange. Global Biogeochemical Cycles, 2013, 27, 637-649.	4.9	46
103	Variability in Atmospheric Methane From Fossil Fuel and Microbial Sources Over the Last Three Decades. Geophysical Research Letters, 2018, 45, 11,499.	4.0	46
104	Moisture source temperatures and precipitation Î´¹⁸Oâ€temperature relationships across the United States. Water Resources Research, 2010, 46, .	4.2	45
105	Enhanced North American carbon uptake associated with El NiÃ±o. Science Advances, 2019, 5, eaaw0076.	10.3	45
106	A 700 year record of Southern Hemisphere extratropical climate variability. Annals of Glaciology, 2004, 39, 127-132.	1.4	41
107	Influence of West Antarctic Ice Sheet collapse on Antarctic surface climate. Geophysical Research Letters, 2015, 42, 4862-4868.	4.0	41
108	Recent changes in north-west Greenland climate documented by NEEM shallow ice core data and simulations, and implications for past-temperature reconstructions. Cryosphere, 2015, 9, 1481-1504.	3.9	41

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109	Enhanced methane emissions from tropical wetlands during the 2011 La NiÃ±a. Scientific Reports, 2017, 7, 45759.	3.3	41
110	Southern Hemisphere climate variability forced by Northern Hemisphere ice-sheet topography. Nature, 2018, 554, 351-355.	27.8	41
111	A 3-dimensional study of delta18O in atmospheric CO2: contribution of different land ecosystems. Tellus, Series B: Chemical and Physical Meteorology, 1999, 51, 642-667.	1.6	40
112	Long-term field performance of a tunable diode laser absorption spectrometer for analysis of carbon isotopes of CO₂ in forest air. Atmospheric Chemistry and Physics, 2008, 8, 5263-5277.	4.9	40
113	Stable isotopes of oxygen and hydrogen in the Truckee Riverâ€Pyramid Lake surfaceâ€water system. 3. Source of water vapor overlying Pyramid Lake. Limnology and Oceanography, 1994, 39, 1945-1958.	3.1	39
114	A 60 yr record of atmospheric carbon monoxide reconstructed from Greenland firn air. Atmospheric Chemistry and Physics, 2013, 13, 7567-7585.	4.9	37
115	Improved methodologies for continuous-flow analysis of stable water isotopes in ice cores. Atmospheric Measurement Techniques, 2017, 10, 617-632.	3.1	37
116	A 3-dimensional study of Î´¹⁸O in atmospheric CO₂: contribution of different land ecosystems. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 642.	1.6	36
117	Don't touch that dial. Nature, 1993, 364, 186-186.	27.8	35
118	High-resolution holocene and late glacial atmospheric CO2record: variability tied to changes in thermohaline circulation. Global Biogeochemical Cycles, 1995, 9, 391-403.	4.9	35
119	Seasonal variations of glaciochemical, isotopic and stratigraphic properties in Siple Dome (Antarctica) surface snow. Annals of Glaciology, 1999, 29, 38-44.	1.4	35
120	Long-term record of atmospheric CO2and stable isotopic ratios at Waliguan Observatory: Background features and possible drivers, 1991-2002. Global Biogeochemical Cycles, 2005, 19, .	4.9	35
121	Tree-Ring Dating of Baldcypress and the Potential for Millennia-Long Chronologies in the Southeast. American Antiquity, 1985, 50, 796-802.	1.1	34
122	Holocene temperature variations inferred from Antarctic ice cores. Annals of Glaciology, 1994, 20, 427-436.	1.4	34
123	Using <i>Î´</i>¹³C-CH₄ and <i>Î´</i>D-CH₄ to constrain Arctic methane emissions. Atmospheric Chemistry and Physics, 2016, 16, 14891-14908.	4.9	34
124	Water isotope diffusion in the WAIS Divide ice core during the Holocene and last glacial. Journal of Geophysical Research F: Earth Surface, 2017, 122, 290-309.	2.8	33
125	Reconstruction of Northern Hemisphere 1950â€“2010 atmospheric non-methane hydrocarbons. Atmospheric Chemistry and Physics, 2014, 14, 1463-1483.	4.9	31
126	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.	3.1	31

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127	The atmospheric signal of terrestrial carbon isotopic discrimination and its implication for partitioning carbon fluxes. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 197-206.	1.6	31
128	The global geochemistry of bombâ€produced tritium: General circulation model compared to available observations and traditional interpretations. Journal of Geophysical Research, 1989, 94, 18305-18326.	3.3	30
129	Land use and season affect fluxes of CO₂, CH₄, CO, N₂O, H₂ and isotopic source signatures in Panama: evidence from nocturnal boundary layer profiles. Global Change Biology, 2010, 16, 2721-2736.	9.5	30
130	Novel applications of carbon isotopes in atmospheric CO₂: what can atmospheric measurements teach us about processes in the biosphere?. Biogeosciences, 2011, 8, 3093-3106.	3.3	30
131	THE GLOBAL CARBON CYCLE:In Balance, with a Little Help from the Plants. , 1998, 281, 183-184.		29
132	High-precision CO_2 isotopologue spectrometer with a difference-frequency-generation laser source. Optics Letters, 2009, 34, 172.	3.3	28
133	A 120,000-year long climate record from a NW-Greenland deep ice core at ultra-high resolution. Scientific Data, 2021, 8, 141.	5.3	28
134	The anatomy of past abrupt warmings recorded in Greenland ice. Nature Communications, 2021, 12, 2106.	12.8	27
135	Holocene temperature variations inferred from Antarctic ice cores. Annals of Glaciology, 1994, 20, 427-436.	1.4	27
136	Long-term record of atmospheric CO2and stable isotopic ratios at Waliguan Observatory: Seasonally averaged 1991-2002 source/sink signals, and a comparison of 1998-2002 record to the 11 selected sites in the Northern Hemisphere. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	26
137	West Antarctic Ice Sheet Elevation Changes. Antarctic Research Series, 0, , 75-90.	0.2	26
138	Anomaly Detection in Paleoclimate Records Using Permutation Entropy. Entropy, 2018, 20, 931.	2.2	26
139	Timing is everything in a game of two hemispheres. Nature, 1998, 394, 717-718.	27.8	25
140	Land use effects on atmospheric13C imply a sizable terrestrial CO2sink in tropical latitudes. Geophysical Research Letters, 2002, 29, 68-1-68-4.	4.0	25
141	Can bottom-up ocean CO2 fluxes be reconciled with atmospheric 13C observations?. Tellus, Series B: Chemical and Physical Meteorology, 2010, 62, 369-388.	1.6	25
142	The amplification of Arctic terrestrial surface temperatures by reduced sea-ice extent during the Pliocene. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 386, 59-67.	2.3	24
143	Past rates of climate change in the Arctic. Quaternary Science Reviews, 2010, 29, 1716-1727.	3.0	23
144	Surface-atmosphere decoupling limits accumulation at Summit, Greenland. Science Advances, 2016, 2, e1501704.	10.3	22

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145	Strong sensitivity of the isotopic composition of methane to the plausible range of tropospheric chlorine. Atmospheric Chemistry and Physics, 2020, 20, 8405-8419.	4.9	21
146	The atmospheric signal of terrestrial carbon isotopic discrimination and its implication for partitioning carbon fluxes. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 197.	1.6	18
147	Continuous-Flow Analysis of Î´17O, Î´18O, and ÎD of H2O on an Ice Core from the South Pole. Frontiers in Earth Science, 2021, 9, .	1.8	18
148	Rapid deuterium-excess changes in Greenland ice cores: a link between the ocean and the atmosphere. Comptes Rendus - Geoscience, 2005, 337, 957-969.	1.2	17
149	Modern solar maximum forced late twentieth century Greenland cooling. Geophysical Research Letters, 2015, 42, 5992-5999.	4.0	16
150	Entrainment at cold glacier beds. Geology, 2000, 28, 351-354.	4.4	16
151	Holocene temperature variations inferred from Antarctic ice cores. Annals of Glaciology, 1994, 20, 427-436.	1.4	16
152	Temperature history and accumulation timing for the snowpack at GISP2, central Greenland. Journal of Glaciology, 1998, 44, 21-30.	2.2	14
153	The isotopic composition of precipitation at Mohonk Lake, New York: The amount effect. Journal of Geophysical Research, 1987, 92, 1033-1040.	3.3	13
154	Climate in the Pleistocene. Nature, 1994, 371, 111-112.	27.8	13
155	Reconstructing annual and seasonal climatic responses from volcanic events since A.D. 1270 as recorded in the deuterium signal from the Greenland Ice Sheet Project 2 ice core. Journal of Geophysical Research, 1997, 102, 19683-19694.	3.3	13
156	Detection and monitoring of stratigraphic markers and temperature trends at the Greenland Ice Sheet Project 2 using passive-microwave remote-sensing data. Journal of Geophysical Research, 1997, 102, 26877-26886.	3.3	13
157	Carbon monoxide isotopic measurements in Indianapolis constrain urban source isotopic signatures and support mobile fossil fuel emissions as the dominant wintertime CO source. Elementa, 2017, 5, .	3.2	13
158	The role of sublimation as a driver of climate signals in the water isotope content of surface snow: laboratory and field experimental results. Cryosphere, 2021, 15, 4949-4974.	3.9	13
159	Stable Isotope Records from Greenland Deep Ice Cores: The Climate Signal and the Role of Diffusion. , 1999, , 89-107.		11
160	Temperature history and accumulation timing for the snowpack at GISP2, central Greenland. Journal of Glaciology, 1998, 44, 21-30.	2.2	9
161	Global Network Measurements of Atmospheric Trace Gas Isotopes. , 2010, , 3-31.		9
162	Frequency Analysis of an Annually Resolved, 700 Year Paleoclimate Record from the GISP2 Ice Core. , 1996, , 193-212.		9

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163	High-frequency climate variability in the Holocene from a coastal-dome ice core in east-central Greenland. Climate of the Past, 2020, 16, 1369-1386.	3.4	8
164	Separating contributions from natural and anthropogenic sources in atmospheric methane from the Black Sea region, Romania. Applied Geochemistry, 2008, 23, 2871-2879.	3.0	7
165	Limited impact of El NiÃ±oâ€“Southern Oscillation on variability and growth rate of atmospheric methane. Biogeosciences, 2018, 15, 6371-6386.	3.3	7
166	PALEOCLIMATE: Do I Hear a Million?. Science, 2004, 304, 1609-1610.	12.6	6
167	Influences of the hydrological cycle on observed interannual variations in atmospheric CO¹⁸O. Journal of Geophysical Research, 2011, 116, .	3.3	6
168	Siple Dome shallow ice cores: a study in coastal dome microclimatology. Climate of the Past, 2014, 10, 1253-1267.	3.4	6
169	The CarbonTracker Data Assimilation System for CO₂ and <i>Î´</i>¹³C (CTDAS-C13 v1.0): retrieving information onÂlandâ€“atmosphere exchange processes. Geoscientific Model Development, 2018, 11, 283-304.	3.6	6
170	An improved estimate for the <i>Î´</i>¹³C and <i>Î´</i>¹⁸O signatures of carbon monoxide produced from atmospheric oxidation of volatile organic compounds. Atmospheric Chemistry and Physics, 2019, 19, 8547-8562.	4.9	6
171	Reconstruction of Temperature, Accumulation Rate, and Layer Thinning From an Ice Core at South Pole, Using a Statistical Inverse Method. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033300.	3.3	6
172	An information-theoretic approach to extracting climate signals from deep polar ice cores. Chaos, 2019, 29, 101105.	2.5	5
173	Corrigendum to ``Gas transport in firn: multiple-tracer characterisation and model intercomparison for NEEM, Northern Greenland'' published in Atmos. Chem. Phys., 12, 4259â€“4277, 2012. Atmospheric Chemistry and Physics, 2014, 14, 3571-3572.	4.9	2
174	A First Step Toward Quantifying the Climateâ€™s Information Production over the Last 68,000 Years. Lecture Notes in Computer Science, 2016, , 343-355.	1.3	2
175	Detection of local mixing in time-series data using permutation entropy. Physical Review E, 2021, 103, 022217.	2.1	2
176	The Role of Emission Sources and Atmospheric Sink in the Seasonal Cycle of CH4 and Î´13-CH4: Analysis Based on the Atmospheric Chemistry Transport Model TM5. Atmosphere, 2022, 13, 888.	2.3	1
177	The Global Methane Budget over the Last 2000 Years:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si61.gif" display="inline" overflow="scroll"><mml:mmultiscripts><mml:mtext>CH</mml:mtext><mml:mn>4</mml:mn><mml:none /><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts></mml:math>Reveals Hidden Information. Journal of Nano Education (Print), 2007, 1, 235-248.	0.3	0
178	The Global Methane Budget over the Last 2000 Years. , 2007, , 235-248.		0