Markus Christian Leuenberger

List of Publications by Year in descending order

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159 papers 15,890 citations

28274 55 h-index 120 g-index

188 all docs 188 docs citations

188 times ranked

12732 citing authors

#	Article	IF	CITATIONS
1	A CO-based method to determine the regional biospheric signal in atmospheric CO ₂ . Tellus, Series B: Chemical and Physical Meteorology, 2022, 69, 1353388.	1.6	15
2	Hydrogen isotope ratios as a Larix detector in archaeological wood samples. Journal of Archaeological Science: Reports, 2022, 41, 103261.	0.5	0
3	Comparison of Holocene temperature reconstructions based on GISP2 multiple-gas-isotope measurements. Quaternary Science Reviews, 2022, 280, 107274.	3.0	2
4	The Stable Hydrogen Isotopic Signature: From Source Water to Tree Rings. Tree Physiology, 2022, , 331-359.	2.5	4
5	More than climate: Hydrogen isotope ratios in tree rings as novel plant physiological indicator for stress conditions. Dendrochronologia, 2021, 65, 125788.	2.2	28
6	Elucidating local pollution and site representativeness at the Jungfraujoch, Switzerland through parallel aerosol measurements at an adjacent mountain ridge. Environmental Research Communications, 2021, 3, 021001.	2.3	6
7	Disentangle Kinetic From Equilibrium Fractionation Using Primary (Î 170, Î 180, Î D) and Secondary (Î 170,) Tj Science, 2021, 9, .	ΓQq1 1 0.7 1.8	784314 rgBT 9
8	Comparison of Three Measurement Principles on Water Triple Oxygen Isotopologues. Frontiers in Earth Science, 2021, 9, .	1.8	0
9	Assessing local CO ₂ contamination revealed by two near-by high altitude records at Jungfraujoch, Switzerland. Environmental Research Letters, 2021, 16, 044037.	5.2	8
10	Challenges in the Direct Determination of 17Oexcess in Microliter Amount of Water Extracted From Speleothem Fluid Inclusions. Frontiers in Earth Science, 2021, 9, .	1.8	0
11	Quantifying the Porosity of Crystalline Rocks by In Situ and Laboratory Injection Methods. Minerals (Basel, Switzerland), 2021, 11, 1072.	2.0	4
12	Oxygen and hydrogen isotope analysis of experimentally generated magmatic and metamorphic aqueous fluids using laser spectroscopy (WS-CRDS). Chemical Geology, 2021, 584, 120487.	3.3	1
13	Triple Water Vapour–Isotopologues Record from Chhota Shigri, Western Himalaya, India: A Unified Interpretation based on δ170, δ180, ÎƊ and Comparison to Meteorological Parameters. Frontiers in Earth Science, 2021, 8, .	1.8	8
14	Investigating Masking Effects of Age Trends on the Correlations among Tree Ring Proxies. Forests, 2021, 12, 1523.	2.1	3
15	Younger Dryas and Holocene environmental change at the Atlantic fringe of Europe derived from lakeâ€sediment stableâ€isotope records from western Ireland. Boreas, 2020, 49, 233-247.	2.4	6
16	Pluvial periods in Southern Arabia over the last 1.1 million-years. Quaternary Science Reviews, 2020, 229, 106112.	3.0	45
17	Origin and percolation times of Milandre Cave drip water determined by tritium time series and beryllium-7 data from Switzerland. Journal of Environmental Radioactivity, 2020, 222, 106346.	1.7	5
18	Larch Cellulose Shows Significantly Depleted Hydrogen Isotope Values With Respect to Evergreen Conifers in Contrast to Oxygen and Carbon Isotopes. Frontiers in Earth Science, 2020, 8, .	1.8	9

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19	Estimation of temperature – altitude gradients during the Pleistocene–Holocene transition from Swiss stalagmites. Earth and Planetary Science Letters, 2020, 544, 116387.	4.4	3
20	Investigation of adsorption and desorption behavior of small-volume cylinders and its relevance for atmospheric trace gas analysis. Atmospheric Measurement Techniques, 2020, 13, 101-117.	3.1	2
21	Towards an understanding of surface effects: testing of various materials in a small volume measurement chamber and its relevance for atmospheric trace gas analysis. Atmospheric Measurement Techniques, 2020, 13, 119-130.	3.1	3
22	Alpine Holocene tree-ring dataset: age-related trends in the stable isotopes of cellulose show species-specific patterns. Biogeosciences, 2020, 17, 4871-4882.	3.3	10
23	Spatioâ€ŧemporal patterns of tree growth as related to carbon isotope fractionation in European forests under changing climate. Global Ecology and Biogeography, 2019, 28, 1295-1309.	5.8	35
24	Central Europe temperature constrained by speleothem fluid inclusion water isotopes over the past 14,000 years. Science Advances, 2019, 5, eaav3809.	10.3	81
25	Unveiling the anatomy of Termination 3 using water and air isotopes in the Dome C ice core, East Antarctica. Quaternary Science Reviews, 2019, 211, 156-165.	3.0	5
26	High-precision atmospheric oxygen measurement comparisons between a newly built CRDS analyzer and existing measurement techniques. Atmospheric Measurement Techniques, 2019, 12, 6803-6826.	3.1	8
27	2H-enrichment of cellulose and n-alkanes in heterotrophic plants. Oecologia, 2019, 189, 365-373.	2.0	29
28	² Hâ€fractionations during the biosynthesis of carbohydrates and lipids imprint a metabolic signal on the Î′ ² H values of plant organic compounds. New Phytologist, 2018, 218, 479-491.	7.3	78
29	Redox zonation and organic matter oxidation in palaeogroundwater of glacial origin from the Baltic Artesian Basin. Chemical Geology, 2018, 488, 149-161.	3.3	12
30	On the use of δ18Oatm for ice core dating. Quaternary Science Reviews, 2018, 185, 244-257.	3.0	32
31	Novel automated inversion algorithm for temperature reconstruction using gas isotopes from ice cores. Climate of the Past, 2018, 14, 763-788.	3.4	1
32	Adaptive selection of diurnal minimum variation: a statistical strategy to obtain representative atmospheric CO ₂ data and its application to European elevated mountain stations. Atmospheric Measurement Techniques, 2018, 11, 1501-1514.	3.1	16
33	Preliminary evaluation of the potential of tree-ring cellulose content as a novel supplementary proxy in dendroclimatology. Biogeosciences, 2018, 15, 1047-1064.	3.3	10
34	Using 81Kr and noble gases to characterize and date groundwater and brines in the Baltic Artesian Basin on the one-million-year timescale. Geochimica Et Cosmochimica Acta, 2017, 205, 187-210.	3.9	59
35	Geostatistical analysis and isoscape of ice core derived water stable isotope records in an Antarctic macro region. Polar Science, 2017, 13, 23-32.	1.2	28
36	Volcanic influence on centennial to millennial Holocene Greenland temperature change. Scientific Reports, 2017, 7, 1441.	3.3	120

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37	Trophic state changes can affect the importance of methane-derived carbon in aquatic food webs. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170278.	2.6	24
38	Observations of Atmospheric Methane and Carbon Dioxide Mixing Ratios: Tall-Tower or Mountain-Top Stations?. Boundary-Layer Meteorology, 2017, 164, 135-159.	2.3	6
39	400 Years of summer hydroclimate from stable isotopes in Iberian trees. Climate Dynamics, 2017, 49, 143-161.	3.8	24
40	Estimation of the fossil fuel component in atmospheric CO ₂ based on radiocarbon measurements at the Beromýnster tall tower, Switzerland. Atmospheric Chemistry and Physics, 2017, 17, 10753-10766.	4.9	18
41	20thÂcentury changes in carbon isotopes and water-use efficiency: tree-ring-based evaluation of the CLM4.5 and LPX-Bern models. Biogeosciences, 2017, 14, 2641-2673.	3.3	81
42	Continuous CO ₂ /CH ₄ /CO measurements (2012–2014) at BeromÃ⅓nster tall tower station in Switzerland. Biogeosciences, 2016, 13, 2623-2635.	3.3	30
43	Phase relationships between orbital forcing and the composition of air trapped in Antarctic ice cores. Climate of the Past, 2016, 12, 729-748.	3.4	13
44	Measurements of greenhouse gases at Berom $\tilde{A}^{1}\!\!/\!\!4$ nster tall-tower station in Switzerland. Atmospheric Measurement Techniques, 2016, 9, 2603-2614.	3.1	16
45	The 8.2â€ka BP event in northâ€eastern North America: first combined oxygen and hydrogen isotopic data from peat in Newfoundland. Journal of Quaternary Science, 2016, 31, 416-425.	2.1	12
46	Intercomparison of in situ NDIR and column FTIR measurements of CO ₂ at Jungfraujoch. Atmospheric Chemistry and Physics, 2016, 16, 9935-9949.	4.9	10
47	Validation of the Swiss methane emission inventory by atmospheric observations and inverse modelling. Atmospheric Chemistry and Physics, 2016, 16, 3683-3710.	4.9	103
48	Comparative carbon cycle dynamics of the present and last interglacial. Quaternary Science Reviews, 2016, 137, 15-32.	3.0	26
49	Bryozoan stable carbon and hydrogen isotopes: relationships between the isotopic composition of zooids, statoblasts and lake water. Hydrobiologia, 2016, 765, 209-223.	2.0	7
50	Post-bubble close-off fractionation of gases in polar firn and ice cores: effects of accumulation rate on permeation through overloading pressure. Atmospheric Chemistry and Physics, 2015, 15, 13895-13914.	4.9	12
51	The CarboCount CH sites: characterization of a dense greenhouse gas observation network. Atmospheric Chemistry and Physics, 2015, 15, 11147-11164.	4.9	38
52	Gas adsorption and desorption effects on cylinders and their importance for long-term gas records. Atmospheric Measurement Techniques, 2015, 8, 5289-5299.	3.1	25
53	Multi-isotope labelling of organic matter by diffusion of & amp;lt;sup>20-H <sub&a &="" amp;lt;sup="" and="" vapour="">13 amp;lt;/sub> c-CO₂ into the leaves and its distribution within the plant. Biogeosciences. 2015. 12. 1865-1879.</sub&a>	mp;gt;2&a	amp; t;/sub&a
54	Qualitative Distinction of Autotrophic and Heterotrophic Processes at the Leaf Level by Means of Triple Stable Isotope (C–O–H) Patterns. Frontiers in Plant Science, 2015, 6, 1008.	3.6	19

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55	Simultaneous Determination of Stable Carbon, Oxygen, and Hydrogen Isotopes in Cellulose. Analytical Chemistry, 2015, 87, 376-380.	6.5	39
56	Are carbohydrate storage strategies of trees traceable by early–latewood carbon isotope differences?. Trees - Structure and Function, 2015, 29, 859-870.	1.9	41
57	Glacial–interglacial temperature change in the tropical West Pacific: AÂcomparison of stalagmite-based paleo-thermometers. Quaternary Science Reviews, 2015, 127, 90-116.	3.0	50
58	Comparison of continuous in situ CO ₂ observations at Jungfraujoch using two different measurement techniques. Atmospheric Measurement Techniques, 2015, 8, 57-68.	3.1	30
59	The stable carbon isotopic composition of <scp><i>D</i></scp> <i>aphnia</i> ephippia in small, temperate lakes reflects inâ€lake methane availability. Limnology and Oceanography, 2015, 60, 1064-1075.	3.1	26
60	Water-use efficiency and transpiration across European forests during the Anthropocene. Nature Climate Change, 2015, 5, 579-583.	18.8	357
61	Triple isotope (ÎD, Î170, Î180) study on precipitation, drip water and speleothem fluid inclusions for a Western Central European cave (NWÂSwitzerland). Quaternary Science Reviews, 2015, 127, 73-89.	3.0	56
62	An inter-regional assessment of concentrations and $\hat{l}'13C$ values of methane and dissolved inorganic carbon in small European lakes. Aquatic Sciences, 2015, 77, 667-680.	1.5	32
63	Temperature reconstruction from 10 to 120 kyr b2k from the NGRIP ice core. Climate of the Past, 2014, 10, 887-902.	3.4	266
64	Temperature and precipitation signal in two Alpine ice cores over the period 1961–2001. Climate of the Past, 2014, 10, 1093-1108.	3.4	18
65	New online method for water isotope analysis of speleothem fluid inclusions using laser absorption spectroscopy (WS-CRDS). Climate of the Past, 2014, 10, 1291-1304.	3.4	54
66	NGRIP CH& It; sub& gt; 4& It; /sub& gt; concentration from 120 to 10 kyr before present and its relation to a Î & It; sup& gt; 15& It; /sup& gt; N temperature reconstruction from the same ice core. Climate of the Past, 2014, 10, 903-920.	3.4	61
67	Spatial variability and temporal trends in waterâ€use efficiency of European forests. Global Change Biology, 2014, 20, 3700-3712.	9.5	175
68	Swiss tree rings reveal warm and wet summers during medieval times. Geophysical Research Letters, 2014, 41, 1732-1737.	4.0	30
69	Greenland temperature response to climate forcing during the last deglaciation. Science, 2014, 345, 1177-1180.	12.6	226
70	Precipitation isoscape of high reliefs: interpolation scheme designed and tested for monthly resolved precipitation oxygen isotope records of an Alpine domain. Atmospheric Chemistry and Physics, 2014, 14, 1897-1907.	4.9	45
71	Net CO $<$ sub $>$ 2 $<$ /sub $>$ surface emissions at Bern, Switzerland inferred from ambient observations of CO $<$ sub $>$ 2 $<$ /sub $>$, $\hat{\Gamma}$ (O $<$ sub $>$ 2 $<$ /sub $>$ /N $<$ sub $>$ 2 $<$ /sub $>$), and $<$ sup $>$ 222 $<$ /sup $>$ Rn using a customized radon tracer inversion. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1580-1591.	3.3	8
72	Comment on "The phase relation between atmospheric carbon dioxide and global temperature― Humlum et al. [Glob. Planet. Change 100: 51–69.]: Isotopes ignored. Global and Planetary Change, 2013, 109, 1-2.	3.5	5

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73	Eemian interglacial reconstructed from a Greenland folded ice core. Nature, 2013, 493, 489-494.	27.8	565
74	High-resolution late-glacial chronology for the Gerzensee lake record (Switzerland): δ180 correlation between a Gerzensee-stack and NGRIP. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 391, 13-24.	2.3	81
75	Atmospheric CO&Itsub>2&It/sub>, Î'(O&Itsub>2&It/sub>) and Î'&Itsup>13&It/sup>CO&Itsub>2&It/sub> measurements at Jungfraujoch, Switzerland: results from a flass sampling intercomparison program. Atmospheric	3.1	12
76	Two-phase change in CO2, Antarctic temperature and global climate during Termination II. Nature Geoscience, 2013, 6, 1062-1065.	12.9	43
77	Spatial gradients of temperature, accumulation and Î ¹⁸ O-ice in Greenland over a series of Dansgaard–Oeschger events. Climate of the Past, 2013, 9, 1029-1051.	3.4	67
78	Glacial–interglacial dynamics of Antarctic firn columns: comparison between simulations and ice core air-Π& amp; lt; sup & amp; gt; 15 & amp; lt; / sup & amp; gt; N measurements. Climate of the Past, 2013, 9, 983-999.	3.4	22
79	An optimized multi-proxy, multi-site Antarctic ice and gas orbital chronology (AICC2012): 120–800 ka. Climate of the Past, 2013, 9, 1715-1731.	3.4	324
80	Methods to merge overlapping tree-ring isotope series to generate multi-centennial chronologies. Chemical Geology, 2012, 294-295, 127-134.	3.3	25
81	Influence of atmospheric circulation patterns on the oxygen isotope ratio of tree rings in the Alpine region. Journal of Geophysical Research, 2012, 117, .	3.3	48
82	Towards orbital dating of the EPICA Dome C ice core using Î'O ₂ . Climate of the Past, 2012, 8, 191-203.	3.4	43
83	Carbon Isotope Constraints on the Deglacial CO ₂ Rise from Ice Cores. Science, 2012, 336, 711-714.	12.6	339
84	A global picture of the first abrupt climatic event occurring during the last glacial inception. Geophysical Research Letters, 2012, 39, .	4.0	33
85	Climate on the southern Black Sea coast during the Holocene: implications from the Sofular Cave record. Quaternary Science Reviews, 2011, 30, 2433-2445.	3.0	181
86	A multi-proxy, high-resolution record of peatland development and its drivers during the last millennium from the subalpine Swiss Alps. Quaternary Science Reviews, 2011, 30, 3467-3480.	3.0	55
87	Reconstruction of past climate conditions over central Europe from groundwater data. Quaternary Science Reviews, 2011, 30, 3423-3429.	3.0	32
88	European source and sink areas of CO ₂ retrieved from Lagrangian transport model interpretation of combined O ₂ and CO ₂ measurements at the high alpine research station Jungfraujoch. Atmospheric Chemistry and Physics, 2011, 11, 8017-8036.	4.9	33
89	Pleistocene water intrusions from the Mediterranean and Caspian seas into theÂBlackÂSea. Nature Geoscience, 2011, 4, 236-239.	12.9	177
90	Pooled versus separate measurements of tree-ring stable isotopes. Science of the Total Environment, 2011, 409, 2244-2251.	8.0	63

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91	$^{\circ}$ sup>C and $^{\circ}$ sup>O fractionation effects on open splits and on the ion source in continuous flow isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 1419-1430.	1.5	23
92	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. Global Change Biology, 2010, 16, 1317-1337.	9.5	223
93	Millennial and sub-millennial scale climatic variations recorded in polar ice cores over the last glacial period. Climate of the Past, 2010, 6, 345-365.	3.4	143
94	CO ₂ surface fluxes at grid point scale estimated from a global 21 year reanalysis of atmospheric measurements. Journal of Geophysical Research, 2010, 115, .	3.3	276
95	CO2 and O2/N2 variations in and just below the bubble–clathrate transformation zone of Antarctic ice cores. Earth and Planetary Science Letters, 2010, 297, 226-233.	4.4	47
96	What drives the millennial and orbital variations of δ18Oatm?. Quaternary Science Reviews, 2010, 29, 235-246.	3.0	98
97	Synchronising EDML and NorthGRIP ice cores using δ18O of atmospheric oxygen (δ18Oatm) and CH4 measurements over MIS5 (80–123 kyr). Quaternary Science Reviews, 2010, 29, 222-234.	3.0	89
98	Firn processes and $\hat{l}'15N$: potential for a gas-phase climate proxy. Quaternary Science Reviews, 2010, 29, 28-42.	3.0	48
99	A multi-proxy Late-glacial palaeoenvironmental record from Lake Bled, Slovenia. Hydrobiologia, 2009, 631, 121-141.	2.0	22
100	Stable isotope constraints on Holocene carbon cycle changes from an Antarctic ice core. Nature, 2009, 461, 507-510.	27.8	203
101	A multi-proxy Late-glacial palaeoenvironmental record from Lake Bled, Slovenia. , 2009, , 121-141.		0
102	Temporal patterns in lacustrine stable isotopes as evidence for climate change during the late glacial in the Southern European Alps. Journal of Paleolimnology, 2008, 40, 885-895.	1.6	24
103	Changing boreal methane sources and constant biomass burning during the last termination. Nature, 2008, 452, 864-867.	27.8	173
104	Measurements and trend analysis of O2, CO2 and \hat{l} 13C of CO2 from the high altitude research station Junfgraujoch, Switzerland $\hat{a} \in \hat{l}$ A comparison with the observations from the remote site Puy de D \hat{l} me, France. Science of the Total Environment, 2008, 391, 203-210.	8.0	21
105	Comparison between real time and flask measurements of atmospheric O2 and CO2 performed at the High Altitude Research Station Jungfraujoch, Switzerland. Science of the Total Environment, 2008, 391, 196-202.	8.0	8
106	Research at Jungfraujoch. Science of the Total Environment, 2008, 391, 169-176.	8.0	2
107	Stable carbon isotope composition and concentrations of CO2 and CH4 in the deep catotelm of a peat bog. Geochimica Et Cosmochimica Acta, 2008, 72, 6015-6026.	3.9	28
108	Measurements of the sup 17 / sup O Excess in Water with the Equilibration Method. Analytical Chemistry, 2008, 80, 3244-3253.	6.5	8

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109	To What Extent Can Ice Core Data Contribute to the Understanding of Plant Ecological Developments of the Past?. Journal of Nano Education (Print), 2007, 1, 211-233.	0.3	25
110	Predicting terrestrial & Description of the proxy. Atmospheric Chemistry and Physics, 2007, 7, 2789-2795.	4.9	72
111	Civil Aircraft for the regular investigation of the atmosphere based on an instrumented container: The new CARIBIC system. Atmospheric Chemistry and Physics, 2007, 7, 4953-4976.	4.9	289
112	Millenial scale variations of the isotopic composition of atmospheric oxygen over Marine Isotopic Stage 4. Earth and Planetary Science Letters, 2007, 258, 101-113.	4.4	30
113	Signal strength and climate calibration of a European treeâ€ring isotope network. Geophysical Research Letters, 2007, 34, .	4.0	180
114	Wood Cellulose Preparation Methods and Mass Spectrometric Analyses of δ13C, δ18O, and Nonexchangeable δ2H Values in Cellulose, Sugar, and Starch: An Interlaboratory Comparison. Analytical Chemistry, 2007, 79, 4603-4612.	6.5	185
115	Anomalous flow below 2700 m in the EPICA Dome C ice core detected using Î ¹⁸ O of atmospheric oxygen measurements. Climate of the Past, 2007, 3, 341-353.	3.4	74
116	Temperature dependencies of high-temperature reduction on conversion products and their isotopic signatures. Rapid Communications in Mass Spectrometry, 2007, 21, 1587-1598.	1.5	29
117	Orbital and Millennial Antarctic Climate Variability over the Past 800,000 Years. Science, 2007, 317, 793-796.	12.6	1,880
118	To What Extent Can Ice Core Data Contribute to the Understanding of Plant Ecological Developments of the Past?., 2007,, 211-III.		12
119	Evidence for molecular size dependent gas fractionation in firn air derived from noble gases, oxygen, and nitrogen measurements. Earth and Planetary Science Letters, 2006, 243, 61-73.	4.4	71
120	Isotope calibrated Greenland temperature record over Marine Isotope Stage 3 and its relation to CH4. Earth and Planetary Science Letters, 2006, 243, 504-519.	4.4	338
121	Firn-air δ15N in modern polar sites and glacial–interglacial ice: a model-data mismatch during glacial periods in Antarctica?. Quaternary Science Reviews, 2006, 25, 49-62.	3.0	99
122	Measurements of CO ₂ , its stable isotopes, O ₂ /N ₂ , and ²²² Rn at Bern, Switzerland. Atmospheric Chemistry and Physics, 2006, 6, 1991-2004.	4.9	35
123	High Precision Carbon Dioxide and Oxygen Measurements Onboard of a Passenger Airplane. Chimia, 2006, 60, 817-817.	0.6	0
124	Rapid online equilibration method to determine the D/H ratios of non-exchangeable hydrogen in cellulose. Rapid Communications in Mass Spectrometry, 2006, 20, 3337-3344.	1.5	62
125	One-to-one coupling of glacial climate variability in Greenland and Antarctica. Nature, 2006, 444, 195-198.	27.8	1,111
126	The glacial inception as recorded in the NorthGRIP Greenland ice core: timing, structure and associated abrupt temperature changes. Climate Dynamics, 2006, 26, 273-284.	3.8	63

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127	Atmospheric O2, CO2 and 13C measurements from aircraft sampling over Griffin Forest, Perthshire, UK. Rapid Communications in Mass Spectrometry, 2005, 19, 2399-2406.	1.5	14
128	On-line systems for continuous water and gas isotope ratio measurementsâ€. Isotopes in Environmental and Health Studies, 2005, 41, 189-205.	1.0	11
129	Analyzing atmospheric trace gases and aerosols using passenger aircraft. Eos, 2005, 86, 77.	0.1	11
130	Atmospheric O2, CO2and δ13C observations from the remote sites Jungfraujoch, Switzerland, and Puy de Dôme, France. Geophysical Research Letters, 2005, 32, .	4.0	26
131	High-resolution record of Northern Hemisphere climate extending into the last interglacial period. Nature, 2004, 431, 147-151.	27.8	2,489
132	Permeation of atmospheric gases through polymer O-rings used in flasks for air sampling. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	67
133	Measurements of isotope and elemental ratios of air from polar ice with a new on-line extraction method. Geochemistry, Geophysics, Geosystems, 2004, 5, n/a-n/a.	2.5	15
134	A continuous record of temperature evolution over a sequence of Dansgaard-Oeschger events during Marine Isotopic Stage 4 (76 to 62 kyr BP). Geophysical Research Letters, 2004, 31, .	4.0	108
135	Quantification of rapid temperature change during DO event 12 and phasing with methane inferred from air isotopic measurements. Earth and Planetary Science Letters, 2004, 225, 221-232.	4.4	80
136	Comment on "Greenland-Antarctic phase relations and millennial time-scale climate fluctuations in the Greenland ice-cores―by C. Wunsch. Quaternary Science Reviews, 2004, 23, 2053-2054.	3.0	24
137	High-resolution delta 13C measurements on ancient air extracted from less than 10 cm3 of ice. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 138-144.	1.6	10
138	Fast highâ€precision onâ€line determination of hydrogen isotope ratios of water or ice by continuousâ€flow isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2003, 17, 1319-1325.	1.5	17
139	Evidence for periods of wetter and cooler climate in the Sahel between 6 and 40 kyr BP derived from groundwater. Geophysical Research Letters, 2003, 30, .	4.0	64
140	Continuous Extraction of Trapped Air from Bubble Ice or Water for On-Line Determination of Isotope Ratios. Analytical Chemistry, 2003, 75, 2324-2332.	6.5	16
141	On-Line Determination of Oxygen Isotope Ratios of Water or Ice by Mass Spectrometry. Analytical Chemistry, 2002, 74, 4611-4617.	6.5	22
142	Variations of 180/160 in plants from temperate peat bogs (Switzerland): implications for paleoclimatic studies. Earth and Planetary Science Letters, 2002, 202, 419-434.	4.4	66
143	A new gas inlet system for an isotope ratio mass spectrometer improves reproducibility. Rapid Communications in Mass Spectrometry, 2000, 14, 1543-1551.	1.5	16
144	CO2 concentration measurements on air samples by mass spectrometry. Rapid Communications in Mass Spectrometry, 2000, 14, 1552-1557.	1.5	22

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145	A 1000-year high precision record of delta13C in atmospheric CO2. Tellus, Series B: Chemical and Physical Meteorology, 1999, 51, 170-193.	1.6	404
146	$16 \hat{A}^{\circ} \text{C}$ Rapid Temperature Variation in Central Greenland 70,000 Years Ago. Science, 1999, 286, 934-937.	12.6	188
147	The variability in the carbon sinks as reconstructed for the last 1000 years. Geophysical Research Letters, 1999, 26, 1437-1440.	4.0	95
148	Delta15N measurements as a calibration tool for the paleothermometer and gas-ice age differences: A case study for the 8200 B.P. event on GRIP ice. Journal of Geophysical Research, 1999, 104, 22163-22170.	3.3	81
149	Analysis of \hat{l} 180 in tree rings: Wood-cellulose comparison and method dependent sensitivity. Journal of Geophysical Research, 1999, 104, 19267-19273.	3.3	61
150	Oxygen Isotope Analysis of Cellulose:  An Interlaboratory Comparison. Analytical Chemistry, 1998, 70, 2074-2080.	6.5	124
151	Reducing uncertainties in $\hat{\Gamma}$ 13C analysis of tree rings: Pooling, milling, and cellulose extraction. Journal of Geophysical Research, 1998, 103, 19519-19526.	3.3	165
152	Modeling the signal transfer of sea water $\hat{1}$ 180 to the $\hat{1}$ 180 of atmospheric oxygen using a diagnostic box model for the terrestrial and marine biosphere. Journal of Geophysical Research, 1997, 102, 26841-26850.	3.3	23
153	An interlaboratory comparison of techniques for extracting and analyzing trapped gases in ice cores. Journal of Geophysical Research, 1997, 102, 26527-26538.	3.3	40
154	delta18O of tree rings of beech (Fagus silvatica) as a record of delta18O of the growing season precipitation. Tellus, Series B: Chemical and Physical Meteorology, 1997, 49, 80-92.	1.6	69
155	$\hat{1}$ 180 of atmospheric oxygen measured on the GRIP Ice Core Document Stratigraphic disturbances in the lowest 10% of the core. Geophysical Research Letters, 1996, 23, 1049-1052.	4.0	31
156	The age of the air in the firn and the ice at Summit, Greenland. Journal of Geophysical Research, 1993, 98, 2831-2838.	3.3	248
157	Carbon isotope composition of atmospheric CO2 during the last ice age from an Antarctic ice core. Nature, 1992, 357, 488-490.	27.8	350
158	lce-age atmospheric concentration of nitrous oxide from an Antarctic ice core. Nature, 1992, 360, 449-451.	27.8	105
159	Spruce tree-ring proxy signals during cold and warm periods. Dendrobiology, 0, 77, 3-18.	0.6	9