Markus Christian Leuenberger

List of Publications by Year
in descending order

159 papers	15,890 citations	28190 55 h-index	18075 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 CO₂. Tellus, Series B: Chemical and Physical Meteorology, 2022, 69, 1353388.	0.8	15
2	Hydrogen isotope ratios as a Larix detector in archaeological wood samples. Journal of Archaeological Science: Reports, 2022, 41, 103261.	0.2	0
3	Comparison of Holocene temperature reconstructions based on GISP2 multiple-gas-isotope measurements. Quaternary Science Reviews, 2022, 280, 107274.	1.4	2
4	The Stable Hydrogen Isotopic Signature: From Source Water to Tree Rings. Tree Physiology, 2022, , 331-359.	0.9	4
5	More than climate: Hydrogen isotope ratios in tree rings as novel plant physiological indicator for stress conditions. Dendrochronologia, 2021, 65, 125788.	1.0	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.	0.9	6
7	Disentangle Kinetic From Equilibrium Fractionation Using Primary (Î´17O, Î´18O, Î´D) and Secondary (Î”17O,) Tj ETQq1 1 0.784314 rgBT / Science, 2021, 9, .	0.8	9
8	Comparison of Three Measurement Principles on Water Triple Oxygen Isotopologues. Frontiers in Earth Science, 2021, 9, .	0.8	0
9	Assessing local CO₂ contamination revealed by two near-by high altitude records at Jungfraujoch, Switzerland. Environmental Research Letters, 2021, 16, 044037.	2.2	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, .	0.8	0
11	Quantifying the Porosity of Crystalline Rocks by In Situ and Laboratory Injection Methods. Minerals (Basel, Switzerland), 2021, 11, 1072.	0.8	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.	1.4	1
13	Triple Water Vapourâ€“Isotopologues Record from Chhota Shigri, Western Himalaya, India: A Unified Interpretation based on Î´17O, Î´18O, Î´D and Comparison to Meteorological Parameters. Frontiers in Earth Science, 2021, 8, .	0.8	8
14	Investigating Masking Effects of Age Trends on the Correlations among Tree Ring Proxies. Forests, 2021, 12, 1523.	0.9	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.	1.2	6
16	Pluvial periods in Southern Arabia over the last 1.1 million-years. Quaternary Science Reviews, 2020, 229, 106112.	1.4	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.	0.9	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, .	0.8	9

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19	Estimation of temperature â€“ altitude gradients during the Pleistoceneâ€“Holocene transition from Swiss stalagmites. Earth and Planetary Science Letters, 2020, 544, 116387.	1.8	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.	1.2	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.	1.2	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.	1.3	10
23	Spatioâ€temporal patterns of tree growth as related to carbon isotope fractionation in European forests under changing climate. Global Ecology and Biogeography, 2019, 28, 1295-1309.	2.7	35
24	Central Europe temperature constrained by speleothem fluid inclusion water isotopes over the past 14,000 years. Science Advances, 2019, 5, eaav3809.	4.7	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.	1.4	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.	1.2	8
27	2H-enrichment of cellulose and n-alkanes in heterotrophic plants. Oecologia, 2019, 189, 365-373.	0.9	29
28	²Hâ€fractionations during the biosynthesis of carbohydrates and lipids imprint a metabolic signal on the Î´²H values of plant organic compounds. New Phytologist, 2018, 218, 479-491.	3.5	78
29	Redox zonation and organic matter oxidation in palaeogroundwater of glacial origin from the Baltic Artesian Basin. Chemical Geology, 2018, 488, 149-161.	1.4	12
30	On the use of Î´18Oatm for ice core dating. Quaternary Science Reviews, 2018, 185, 244-257.	1.4	32
31	Novel automated inversion algorithm for temperature reconstruction using gas isotopes from ice cores. Climate of the Past, 2018, 14, 763-788.	1.3	1
32	Adaptive selection of diurnal minimum variation: a statistical strategy to obtain representative atmospheric CO₂ data and its application to European elevated mountain stations. Atmospheric Measurement Techniques, 2018, 11, 1501-1514.	1.2	16
33	Preliminary evaluation of the potential of tree-ring cellulose content as a novel supplementary proxy in dendroclimatology. Biogeosciences, 2018, 15, 1047-1064.	1.3	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.	1.6	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.	0.5	28
36	Volcanic influence on centennial to millennial Holocene Greenland temperature change. Scientific Reports, 2017, 7, 1441.	1.6	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.	1.2	24
38	Observations of Atmospheric Methane and Carbon Dioxide Mixing Ratios: Tall-Tower or Mountain-Top Stations?. Boundary-Layer Meteorology, 2017, 164, 135-159.	1.2	6
39	400 Years of summer hydroclimate from stable isotopes in Iberian trees. Climate Dynamics, 2017, 49, 143-161.	1.7	24
40	Estimation of the fossil fuel component in atmospheric CO₂ based on radiocarbon measurements at the BeromÃ¼nster tall tower, Switzerland. Atmospheric Chemistry and Physics, 2017, 17, 10753-10766.	1.9	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.	1.3	81
42	Continuous CO₂/CH₄/CO measurements (2012â€“2014) at BeromÃ¼nster tall tower station in Switzerland. Biogeosciences, 2016, 13, 2623-2635.	1.3	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.	1.3	13
44	Measurements of greenhouse gases at BeromÃ¼nster tall-tower station in Switzerland. Atmospheric Measurement Techniques, 2016, 9, 2603-2614.	1.2	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.	1.1	12
46	Intercomparison of in situ NDIR and column FTIR measurements of CO₂ at Jungfraujoch. Atmospheric Chemistry and Physics, 2016, 16, 9935-9949.	1.9	10
47	Validation of the Swiss methane emission inventory by atmospheric observations and inverse modelling. Atmospheric Chemistry and Physics, 2016, 16, 3683-3710.	1.9	103
48	Comparative carbon cycle dynamics of the present and last interglacial. Quaternary Science Reviews, 2016, 137, 15-32.	1.4	26
49	Bryozoan stable carbon and hydrogen isotopes: relationships between the isotopic composition of zooids, statoblasts and lake water. Hydrobiologia, 2016, 765, 209-223.	1.0	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.	1.9	12
51	The CarboCount CH sites: characterization of a dense greenhouse gas observation network. Atmospheric Chemistry and Physics, 2015, 15, 11147-11164.	1.9	38
52	Gas adsorption and desorption effects on cylinders and their importance for long-term gas records. Atmospheric Measurement Techniques, 2015, 8, 5289-5299.	1.2	25
53	Multi-isotope labelling of organic matter by diffusion of ²H/¹⁸O-H₂ vapour and ¹³C-CO₂ into the leaves and its distribution within the plant. Biogeosciences, 2015, 12, 1865-1879.	1.3	13
54	Qualitative Distinction of Autotrophic and Heterotrophic Processes at the Leaf Level by Means of Triple Stable Isotope (Câ€“Oâ€“H) Patterns. Frontiers in Plant Science, 2015, 6, 1008.	1.7	19

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55	Simultaneous Determination of Stable Carbon, Oxygen, and Hydrogen Isotopes in Cellulose. Analytical Chemistry, 2015, 87, 376-380.	3.2	39
56	Are carbohydrate storage strategies of trees traceable by earlyâ€“latewood carbon isotope differences?. Trees - Structure and Function, 2015, 29, 859-870.	0.9	41
57	Glacialâ€“interglacial temperature change in the tropical West Pacific: AÂcomparison of stalagmite-based paleo-thermometers. Quaternary Science Reviews, 2015, 127, 90-116.	1.4	50
58	Comparison of continuous in situ CO₂ observations at Jungfraujoch using two different measurement techniques. Atmospheric Measurement Techniques, 2015, 8, 57-68.	1.2	30
59	The stable carbon isotopic composition of <scp>D</scp>aphnia ephippia in small, temperate lakes reflects inâ€lake methane availability. Limnology and Oceanography, 2015, 60, 1064-1075.	1.6	26
60	Water-use efficiency and transpiration across European forests during the Anthropocene. Nature Climate Change, 2015, 5, 579-583.	8.1	357
61	Triple isotope (Î´D, Î´17O, Î´18O) study on precipitation, drip water and speleothem fluid inclusions for a Western Central European cave (NWÂSwitzerland). Quaternary Science Reviews, 2015, 127, 73-89.	1.4	56
62	An inter-regional assessment of concentrations and Î´13C values of methane and dissolved inorganic carbon in small European lakes. Aquatic Sciences, 2015, 77, 667-680.	0.6	32
63	Temperature reconstruction from 10 to 120 kyr b2k from the NGRIP ice core. Climate of the Past, 2014, 10, 887-902.	1.3	266
64	Temperature and precipitation signal in two Alpine ice cores over the period 1961â€“2001. Climate of the Past, 2014, 10, 1093-1108.	1.3	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.	1.3	54
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	Spatial variability and temporal trends in waterâ€use efficiency of European forests. Global Change Biology, 2014, 20, 3700-3712.	4.2	175
68	Swiss tree rings reveal warm and wet summers during medieval times. Geophysical Research Letters, 2014, 41, 1732-1737.	1.5	30
69	Greenland temperature response to climate forcing during the last deglaciation. Science, 2014, 345, 1177-1180.	6.0	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.	1.9	45
71	Net CO₂ surface emissions at Bern, Switzerland inferred from ambient observations of CO₂, Î´(O₂/N₂), and ²²²Rn using a customized radon tracer inversion. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1580-1591.	1.2	8
72	Comment on â€œThe phase relation between atmospheric carbon dioxide and global temperatureâ€• Humlum et al. [Glob. Planet. Change 100: 51â€“69.]: Isotopes ignored. Global and Planetary Change, 2013, 109, 1-2.	1.6	5

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73	Eemian interglacial reconstructed from a Greenland folded ice core. Nature, 2013, 493, 489-494.	13.7	565
74	High-resolution late-glacial chronology for the Gerzensee lake record (Switzerland): Î´18O correlation between a Gerzensee-stack and NGRIP. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 391, 13-24.	1.0	81
75	Atmospheric CO₂, Î´(O₂/N₂) and Î´¹³CO₂ measurements at Jungfraujoch, Switzerland: results from a flask sampling intercomparison program. Atmospheric Measurement Techniques, 2013, 6, 1005-1015.	1.2	12
76	Two-phase change in CO2, Antarctic temperature and global climate during Termination II. Nature Geoscience, 2013, 6, 1062-1065.	5.4	43
77	Spatial gradients of temperature, accumulation and Î´¹⁸O-ice in Greenland over a series of Dansgaardâ€“Oeschger events. Climate of the Past, 2013, 9, 1029-1051.	1.3	67
78	Glacialâ€“interglacial dynamics of Antarctic firn columns: comparison between simulations and ice core air-Î´¹⁵N measurements. Climate of the Past, 2013, 9, 983-999.	1.3	22
79	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
80	Methods to merge overlapping tree-ring isotope series to generate multi-centennial chronologies. Chemical Geology, 2012, 294-295, 127-134.	1.4	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´O₂/N₂. Climate of the Past, 2012, 8, 191-203.	1.3	43
83	Carbon Isotope Constraints on the Deglacial CO ₂ Rise from Ice Cores. Science, 2012, 336, 711-714.	6.0	339
84	A global picture of the first abrupt climatic event occurring during the last glacial inception. Geophysical Research Letters, 2012, 39, .	1.5	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.	1.4	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.	1.4	55
87	Reconstruction of past climate conditions over central Europe from groundwater data. Quaternary Science Reviews, 2011, 30, 3423-3429.	1.4	32
88	European source and sink areas of CO₂ retrieved from Lagrangian transport model interpretation of combined O₂ and CO₂ measurements at the high alpine research station Jungfraujoch. Atmospheric Chemistry and Physics, 2011, 11, 8017-8036.	1.9	33
89	Pleistocene water intrusions from the Mediterranean and Caspian seas into theÂBlackÂSea. Nature Geoscience, 2011, 4, 236-239.	5.4	177
90	Pooled versus separate measurements of tree-ring stable isotopes. Science of the Total Environment, 2011, 409, 2244-2251.	3.9	63

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91	¹³C and ¹⁸O 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.	0.7	23
92	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. Global Change Biology, 2010, 16, 1317-1337.	4.2	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.	1.3	143
94	CO₂ 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 bubbleâ€“clathrate transformation zone of Antarctic ice cores. Earth and Planetary Science Letters, 2010, 297, 226-233.	1.8	47
96	What drives the millennial and orbital variations of Î´18Oatm?. Quaternary Science Reviews, 2010, 29, 235-246.	1.4	98
97	Synchronising EDML and NorthGRIP ice cores using Î´18O of atmospheric oxygen (Î´18Oatm) and CH4 measurements over MIS5 (80â€“123 kyr). Quaternary Science Reviews, 2010, 29, 222-234.	1.4	89
98	Firn processes and Î´15N: potential for a gas-phase climate proxy. Quaternary Science Reviews, 2010, 29, 28-42.	1.4	48
99	A multi-proxy Late-glacial palaeoenvironmental record from Lake Bled, Slovenia. Hydrobiologia, 2009, 631, 121-141.	1.0	22
100	Stable isotope constraints on Holocene carbon cycle changes from an Antarctic ice core. Nature, 2009, 461, 507-510.	13.7	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.	0.8	24
103	Changing boreal methane sources and constant biomass burning during the last termination. Nature, 2008, 452, 864-867.	13.7	173
104	Measurements and trend analysis of O2, CO2 and Î´13C of CO2 from the high altitude research station Junfgraujoch, Switzerland â€" A comparison with the observations from the remote site Puy de DÃ´me, France. Science of the Total Environment, 2008, 391, 203-210.	3.9	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.	3.9	8
106	Research at Jungfraujoch. Science of the Total Environment, 2008, 391, 169-176.	3.9	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.	1.6	28
108	Measurements of the¹⁷O Excess in Water with the Equilibration Method. Analytical Chemistry, 2008, 80, 3244-3253.	3.2	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 ²²²Rn flux using gamma dose rate as a proxy. Atmospheric Chemistry and Physics, 2007, 7, 2789-2795.	1.9	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.	1.9	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.	1.8	30
113	Signal strength and climate calibration of a European treeâ€ring isotope network. Geophysical Research Letters, 2007, 34, .	1.5	180
114	Wood Cellulose Preparation Methods and Mass Spectrometric Analyses of Î´13C, Î´18O, and Nonexchangeable Î´2H Values in Cellulose, Sugar, and Starch:Â An Interlaboratory Comparison. Analytical Chemistry, 2007, 79, 4603-4612.	3.2	185
115	Anomalous flow below 2700 m in the EPICA Dome C ice core detected using Î¹⁸O of atmospheric oxygen measurements. Climate of the Past, 2007, 3, 341-353.	1.3	74
116	Temperature dependencies of high-temperature reduction on conversion products and their isotopic signatures. Rapid Communications in Mass Spectrometry, 2007, 21, 1587-1598.	0.7	29
117	Orbital and Millennial Antarctic Climate Variability over the Past 800,000 Years. Science, 2007, 317, 793-796.	6.0	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.	1.8	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.	1.8	338
121	Firn-air Î´15N in modern polar sites and glacialâ€“interglacial ice: a model-data mismatch during glacial periods in Antarctica?. Quaternary Science Reviews, 2006, 25, 49-62.	1.4	99
122	Measurements of CO₂, its stable isotopes, O₂/N₂, and ²²²Rn at Bern, Switzerland. Atmospheric Chemistry and Physics, 2006, 6, 1991-2004.	1.9	35
123	High Precision Carbon Dioxide and Oxygen Measurements Onboard of a Passenger Airplane. Chimia, 2006, 60, 817-817.	0.3	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.	0.7	62
125	One-to-one coupling of glacial climate variability in Greenland and Antarctica. Nature, 2006, 444, 195-198.	13.7	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.	1.7	63

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127	Atmospheric O2, CO2 andÎ´13C measurements from aircraft sampling over Griffin Forest, Perthshire, UK. Rapid Communications in Mass Spectrometry, 2005, 19, 2399-2406.	0.7	14
128	On-line systems for continuous water and gas isotope ratio measurementsâ€. Isotopes in Environmental and Health Studies, 2005, 41, 189-205.	0.5	11
129	Analyzing atmospheric trace gases and aerosols using passenger aircraft. Eos, 2005, 86, 77.	0.1	11
130	Atmospheric O2, CO2and Î´13C observations from the remote sites Jungfraujoch, Switzerland, and Puy de DÃ´me, France. Geophysical Research Letters, 2005, 32, .	1.5	26
131	High-resolution record of Northern Hemisphere climate extending into the last interglacial period. Nature, 2004, 431, 147-151.	13.7	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.	1.0	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, .	1.5	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.	1.8	80
136	Comment on â€œGreenland-Antarctic phase relations and millennial time-scale climate fluctuations in the Greenland ice-coresâ€•by C. Wunsch. Quaternary Science Reviews, 2004, 23, 2053-2054.	1.4	24
137	High-resolution delta13C measurements on ancient air extracted from less than 10 cm3 of ice. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 138-144.	0.8	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.	0.7	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, .	1.5	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.	3.2	16
141	On-Line Determination of Oxygen Isotope Ratios of Water or Ice by Mass Spectrometry. Analytical Chemistry, 2002, 74, 4611-4617.	3.2	22
142	Variations of 18O/16O in plants from temperate peat bogs (Switzerland): implications for paleoclimatic studies. Earth and Planetary Science Letters, 2002, 202, 419-434.	1.8	66
143	A new gas inlet system for an isotope ratio mass spectrometer improves reproducibility. Rapid Communications in Mass Spectrometry, 2000, 14, 1543-1551.	0.7	16
144	CO2 concentration measurements on air samples by mass spectrometry. Rapid Communications in Mass Spectrometry, 2000, 14, 1552-1557.	0.7	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.	0.8	404
146	16Â°C Rapid Temperature Variation in Central Greenland 70,000 Years Ago. Science, 1999, 286, 934-937.	6.0	188
147	The variability in the carbon sinks as reconstructed for the last 1000 years. Geophysical Research Letters, 1999, 26, 1437-1440.	1.5	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 Î´18O 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:â€‰ An Interlaboratory Comparison. Analytical Chemistry, 1998, 70, 2074-2080.	3.2	124
151	Reducing uncertainties in Î´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 Î´18O to the Î´18O 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.	0.8	69
155	Î´18O 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.	1.5	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.	13.7	350
158	Ice-age atmospheric concentration of nitrous oxide from an Antarctic ice core. Nature, 1992, 360, 449-451.	13.7	105
159	Spruce tree-ring proxy signals during cold and warm periods. Dendrobiology, 0, 77, 3-18.	0.6	9