

Ingeborg Levin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2393007/publications.pdf>

Version: 2024-02-01

68
papers

5,891
citations

117453

34
h-index

98622

67
g-index

91
all docs

91
docs citations

91
times ranked

5335
citing authors

#	ARTICLE	IF	CITATIONS
1	Seasonal variation of the molecular hydrogen uptake by soils inferred from continuous atmospheric observations in Heidelberg, southwest Germany. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 556.	0.8	40
2	Observations and modelling of the global distribution and long-term trend of atmospheric $\delta^{14}\text{C}$ and $\delta^{13}\text{C}$. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 26.	0.8	287
3	Implication of weekly and diurnal $\delta^{14}\text{C}$ calibration on hourly estimates of CO-based fossil fuel $\delta^{13}\text{C}$ at a moderately polluted site in southwestern Germany. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 512.	0.8	65
4	Atmospheric $\delta^{14}\text{C}$ and $\delta^{13}\text{C}$ trend in Western European background air from 2000 to 2012. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 65, 20092.	0.8	165
5	Can we evaluate a fine-grained emission model using high-resolution atmospheric transport modelling and regional fossil fuel $\delta^{13}\text{C}$ observations?. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 65, 18681.	0.8	28
6	The Integrated Carbon Observation System in Europe. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E855-E872.	1.7	44
7	ATMOSPHERIC RADIOCARBON FOR THE PERIOD 1950–2019. <i>Radiocarbon</i> , 2022, 64, 723-745.	0.8	117
8	RADIOCARBON IN GLOBAL TROPOSPHERIC CARBON DIOXIDE. <i>Radiocarbon</i> , 2022, 64, 781-791.	0.8	20
9	Effects of point source emission heights in WRF-STILT: a step towards exploiting nocturnal observations in models. <i>Geoscientific Model Development</i> , 2022, 15, 5391-5406.	1.3	8
10	Limitations of the radon tracer method (RTM) to estimate regional greenhouse gas (GHG) emissions – a case study for methane in Heidelberg. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 17907-17926.	1.9	12
11	Intercomparison study of atmospheric $\delta^{222}\text{Rn}$ and $\delta^{222}\text{Rn}$ progeny monitors. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 2241-2255.	1.2	11
12	A dedicated flask sampling strategy developed for Integrated Carbon Observation System (ICOS) stations based on $\delta^{222}\text{Rn}$ and CO measurements and Stochastic Time-Inverted Lagrangian Transport (STILT) footprint modelling. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11161-11180.	1.9	16
13	Inverse modelling of European CH_4 emissions during 2006–2012 using different inverse models and reassessed atmospheric observations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 901-920.	1.9	77
14	The influence of $\delta^{14}\text{C}$ and $\delta^{13}\text{C}$ releases from regional nuclear facilities at the Heidelberg $\delta^{14}\text{C}$ and $\delta^{13}\text{C}$ sampling site (1986–2014). <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7951-7959.	1.9	7
15	Interlaboratory comparison of $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ measurements of atmospheric CH_4 for combined use of data sets from different laboratories. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1207-1231.	1.2	31
16	Constraining N_2O emissions since 1940 using firm air isotope measurements in both hemispheres. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4539-4564.	1.9	12
17	A European-wide $\delta^{222}\text{Rn}$ and $\delta^{222}\text{Rn}$ radon and $\delta^{222}\text{Rn}$ progeny comparison study. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1299-1312.	1.2	19
18	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). <i>Geoscientific Model Development</i> , 2017, 10, 2169-2199.	1.3	137

#	ARTICLE	IF	CITATIONS
19	Compiled records of carbon isotopes in atmospheric CO ₂ for historical simulations in CMIP6. <i>Geoscientific Model Development</i> , 2017, 10, 4405-4417.	1.3	154
20	Assessment of ²²² Rn progeny loss in long tubing based on static filter measurements in the laboratory and in the field. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1313-1321.	1.2	6
21	Evaluation of the boundary layer dynamics of the TM5 model over Europe. <i>Geoscientific Model Development</i> , 2016, 9, 3137-3160.	1.3	25
22	Evaluation of 4 years of continuous ¹³ C(CO ₂) data using a moving Keeling plot method. <i>Biogeosciences</i> , 2016, 13, 4237-4251.		
23	A 21st-century shift from fossil-fuel to biogenic methane emissions indicated by ¹³ CH ₄ . <i>Science</i> , 2016, 352, 80-84.	6.0	336
24	Estimation of continuous anthropogenic CO ₂ ; model-based evaluation of CO ₂ , CO, ¹³ C(CO ₂) and ¹⁴ C(CO ₂) tracer methods. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12705-12729.	1.9	28
25	A process-based ²²² Rn flux map for Europe and its comparison to long-term observations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12845-12865.	1.9	57
26	Validation of MIPAS IMK/IAA methane profiles. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 5251-5261.	1.2	18
27	Results from the International Halocarbons in Air Comparison Experiment (IHALACE). <i>Atmospheric Measurement Techniques</i> , 2014, 7, 469-490.	1.2	37
28	Comparisons of continuous atmospheric CH ₄ , CO ₂ and N ₂ O measurements – results from a travelling instrument campaign at Mace Head. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8403-8418.	1.9	25
29	Implications for Deriving Regional Fossil Fuel CO ₂ Estimates from Atmospheric Observations in a Hot Spot of Nuclear Power Plant ¹⁴ CO ₂ Emissions. <i>Radiocarbon</i> , 2013, 55, 1556-1572.	0.8	22
30	A 60 yr record of atmospheric carbon monoxide reconstructed from Greenland firn air. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7567-7585.	1.9	37
31	Verification of greenhouse gas emission reductions: the prospect of atmospheric monitoring in polluted areas. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 1906-1924.	1.6	58
32	Inverse modeling of global and regional CH ₄ emissions using SCIAMACHY satellite retrievals. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	280
33	Biosphere-atmosphere gross carbon exchange flux and the ¹³ CO ₂ and ¹⁴ CO ₂ disequilibria constrained by the biospheric excess radiocarbon inventory. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	31
34	Can the envisaged reductions of fossil fuel CO ₂ emissions be detected by atmospheric observations?. <i>Die Naturwissenschaften</i> , 2008, 95, 203-208.	0.6	38
35	A gas chromatography/combustion/isotope ratio mass spectrometry system for high-precision ¹³ C measurements of atmospheric methane extracted from ice core samples. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3261-3269.	0.7	30
36	Radiocarbon observations in atmospheric CO ₂ : Determining fossil fuel CO ₂ over Europe using Jungfrauoch observations as background. <i>Science of the Total Environment</i> , 2008, 391, 211-216.	3.9	214

#	ARTICLE	IF	CITATIONS
37	Inferring high-resolution fossil fuel CO ₂ records at continental sites from combined ¹⁴ CO ₂ and CO observations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007, 59, 245-250.	0.8	95
38	Closing the global radiocarbon budget 1945–2005. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	73
39	Carbon monoxide: A quantitative tracer for fossil fuel CO ₂ ?. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	76
40	High-precision determination of the changing isotopic composition of atmospheric N ₂ O from 1990 to 2002. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	50
41	The Tropospheric ¹⁴ CO ₂ Level in Mid-Latitudes of the Northern Hemisphere (1959–2003). <i>Radiocarbon</i> , 2004, 46, 1261-1272.	0.8	490
42	A comprehensive global three-dimensional model of ¹⁸ O in atmospheric CO ₂ : 2. Mapping the atmospheric signal. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	49
43	A novel approach for independent budgeting of fossil fuel CO ₂ over Europe by ¹⁴ CO ₂ observations. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	254
44	Modelling of biospheric CO ₂ gross fluxes via oxygen isotopes in a spruce forest canopy: a ²²² Rn calibrated box model approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 476-496.	0.8	18
45	Western European N ₂ O emissions: A top-down approach based on atmospheric observations. <i>Journal of Geophysical Research</i> , 2001, 106, 5507-5516.	3.3	78
46	Regional ¹⁴ CO ₂ Offsets in the Troposphere: Magnitude, Mechanisms, and Consequences. <i>Science</i> , 2001, 294, 2529-2532.	6.0	74
47	Radiocarbon – A Unique Tracer of Global Carbon Cycle Dynamics. <i>Radiocarbon</i> , 2000, 42, 69-80.	0.8	334
48	Revision of the stratospheric bomb ¹⁴ CO ₂ inventory. <i>Journal of Geophysical Research</i> , 2000, 105, 11641-11658.	3.3	27
49	Verification of German methane emission inventories and their recent changes based on atmospheric observations. <i>Journal of Geophysical Research</i> , 1999, 104, 3447-3456.	3.3	104
50	Twenty Years of Atmospheric ¹⁴ CO ₂ Observations At Schauinsland Station, Germany. <i>Radiocarbon</i> , 1997, 39, 205-218.	0.8	241
51	A new tracer experiment to estimate the methane emissions from a dairy cow shed using sulfur hexafluoride (SF ₆). <i>Global Biogeochemical Cycles</i> , 1996, 10, 413-418.	1.9	31
52	Dry deposition of peroxyacetyl nitrate (PAN): Determination of its deposition velocity at night from measurements of the atmospheric PAN and ²²² Radon concentration gradient. <i>Geophysical Research Letters</i> , 1996, 23, 3599-3602.	1.5	48
53	Report: Summary of the Workshop – Aspects of High-Precision Radiocarbon Calibration. <i>Radiocarbon</i> , 1996, 38, 607-610.	0.8	19
54	Carbon dioxide and methane in continental Europe: a climatology, and ²²² Radon-based emission estimates. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996, 48, 457-473.	0.8	29

#	ARTICLE	IF	CITATIONS
55	Atmospheric $^{14}\text{CO}_2$ Variations in the Equatorial Region. Radiocarbon, 1995, 37, 509-515.	0.8	33
56	Radiocarbon evidence for a smaller oceanic carbon dioxide sink than previously believed. Nature, 1994, 370, 201-203.	13.7	123
57	Global increase of SF_6 observed in the atmosphere. Geophysical Research Letters, 1994, 21, 569-572.	1.5	83
58	Stable isotopic signature of methane from major sources in Germany. Chemosphere, 1993, 26, 161-177.	4.2	94
59	Radiocarbon in Atmospheric Carbon Dioxide and Methane: Global Distribution and Trends. , 1992, , 503-518.		55
60	Methane consumption in aerated soils of the temperate zone. Tellus, Series B: Chemical and Physical Meteorology, 1990, 42, 2-8.	0.8	190
61	The Continental European Suess Effect. Radiocarbon, 1989, 31, 431-440.	0.8	88
62	Effects of long-range transport on atmospheric trace constituents at the baseline station tenerife (Canary Islands). Journal of Atmospheric Chemistry, 1988, 7, 335-351.	1.4	37
63	Environmental Distribution and Long-term Dispersion of Reactor $^{14}\text{CO}_2$ Around Two German Nuclear Power Plants. Health Physics, 1988, 54, 149-156.	0.3	53
64	Carbon isotope measurements of atmospheric CO_2 at a coastal station in Antarctica. Tellus, Series B: Chemical and Physical Meteorology, 1987, 39B, 89-95.	0.8	33
65	25 Years of Tropospheric ^{14}C Observations in Central Europe. Radiocarbon, 1985, 27, 1-19.	0.8	240
66	Anthropogenic ^{14}C Variations. Radiocarbon, 1983, 25, 583-592.	0.8	24
67	Regional Sources of Volcanic Carbon Dioxide and Their Influence on ^{14}C Content of Present-Day Plant Material. Radiocarbon, 1980, 22, 532-536.	0.8	67
68	The Effect of Anthropogenic CO_2 and ^{14}C Sources on the Distribution of ^{14}C in the Atmosphere. Radiocarbon, 1980, 22, 379-391.	0.8	155