

Ingeborg Levin

List of Publications by Year in descending order

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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	The Tropospheric ¹⁴ CO ₂ Level in Mid-Latitudes of the Northern Hemisphere (1959â€“2003). Radiocarbon, 2004, 46, 1261-1272.	0.8	490
2	A 21st-century shift from fossil-fuel to biogenic methane emissions indicated by ¹³ CH ₄ . Science, 2016, 352, 80-84.	6.0	336
3	Radiocarbon â€“ A Unique Tracer of Global Carbon Cycle Dynamics. Radiocarbon, 2000, 42, 69-80.	0.8	334
4	Observations and modelling of the global distribution and long-term trend of atmospheric ¹⁴ CO ₂ . Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 26.	0.8	287
5	Inverse modeling of global and regional CH ₄ emissions using SCIAMACHY satellite retrievals. Journal of Geophysical Research, 2009, 114, .	3.3	280
6	A novel approach for independent budgeting of fossil fuel CO ₂ over Europe by ¹⁴ CO ₂ observations. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	254
7	Twenty Years of Atmospheric ¹⁴ CO ₂ Observations At Schauinsland Station, Germany. Radiocarbon, 1997, 39, 205-218.	0.8	241
8	25 Years of Tropospheric ¹⁴ C Observations in Central Europe. Radiocarbon, 1985, 27, 1-19.	0.8	240
9	Radiocarbon observations in atmospheric CO ₂ : Determining fossil fuel CO ₂ over Europe using Jungfrauoch observations as background. Science of the Total Environment, 2008, 391, 211-216.	3.9	214
10	Methane consumption in aerated soils of the temperate zone. Tellus, Series B: Chemical and Physical Meteorology, 1990, 42, 2-8.	0.8	190
11	Atmospheric ¹⁴ CO ₂ trend in Western European background air from 2000 to 2012. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 20092.	0.8	165
12	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
13	Compiled records of carbon isotopes in atmospheric CO ₂ for historical simulations in CMIP6. Geoscientific Model Development, 2017, 10, 4405-4417.	1.3	154
14	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). Geoscientific Model Development, 2017, 10, 2169-2199.	1.3	137
15	Radiocarbon evidence for a smaller oceanic carbon dioxide sink than previously believed. Nature, 1994, 370, 201-203.	13.7	123
16	ATMOSPHERIC RADIOCARBON FOR THE PERIOD 1950â€“2019. Radiocarbon, 2022, 64, 723-745.	0.8	117
17	Verification of German methane emission inventories and their recent changes based on atmospheric observations. Journal of Geophysical Research, 1999, 104, 3447-3456.	3.3	104
18	Inferring high-resolution fossil fuel CO ₂ records at continental sites from combined ¹⁴ CO ₂ and CO observations. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 245-250.	0.8	95

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19	Stable isotopic signature of methane from major sources in Germany. <i>Chemosphere</i> , 1993, 26, 161-177.	4.2	94
20	The Continental European Suess Effect. <i>Radiocarbon</i> , 1989, 31, 431-440.	0.8	88
21	Global increase of SF ₆ observed in the atmosphere. <i>Geophysical Research Letters</i> , 1994, 21, 569-572.	1.5	83
22	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
23	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
24	Carbon monoxide: A quantitative tracer for fossil fuel CO ₂ ?. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	76
25	Regional ¹⁴ CO ₂ Offsets in the Troposphere: Magnitude, Mechanisms, and Consequences. <i>Science</i> , 2001, 294, 2529-2532.	6.0	74
26	Closing the global radiocarbon budget 1945–2005. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	73
27	Regional Sources of Volcanic Carbon Dioxide and Their Influence on ¹⁴ C Content of Present-Day Plant Material. <i>Radiocarbon</i> , 1980, 22, 532-536.	0.8	67
28	Implication of weekly and diurnal ¹⁴ C calibration on hourly estimates of CO ₂ based fossil fuel CO ₂ at a moderately polluted site in southwestern Germany. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 512.	0.8	65
29	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
30	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
31	Radiocarbon in Atmospheric Carbon Dioxide and Methane: Global Distribution and Trends. , 1992, , 503-518.		55
32	Environmental Distribution and Long-term Dispersion of Reactor ¹⁴ CO ₂ Around Two German Nuclear Power Plants. <i>Health Physics</i> , 1988, 54, 149-156.	0.3	53
33	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
34	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
35	Dry deposition of peroxyacetyl nitrate (PAN): Determination of its deposition velocity at night from measurements of the atmospheric PAN and ²²² Rn concentration gradient. <i>Geophysical Research Letters</i> , 1996, 23, 3599-3602.	1.5	48
36	The Integrated Carbon Observation System in Europe. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E855-E872.	1.7	44

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37	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
38	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
39	Effects of long-range transport on atmospheric trace constituents at the baseline station tenerife (Canary Islands). <i>Journal of Atmospheric Chemistry</i> , 1988, 7, 335-351.	1.4	37
40	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
41	Results from the International Halocarbons in Air Comparison Experiment (IHALACE). <i>Atmospheric Measurement Techniques</i> , 2014, 7, 469-490.	1.2	37
42	Carbon isotope measurements of atmospheric CO ₂ at a coastal station in Antarctica. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1987, 39B, 89-95.	0.8	33
43	Atmospheric ¹⁴ C Variations in the Equatorial Region. <i>Radiocarbon</i> , 1995, 37, 509-515.	0.8	33
44	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
45	Biosphere-atmosphere gross carbon exchange flux and the ¹³ C/ ¹² C and ¹⁴ C/ ¹² C disequilibria constrained by the biospheric excess radiocarbon inventory. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	31
46	Interlaboratory comparison of ¹³ C and ¹⁴ C 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
47	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
48	Carbon dioxide and methane in continental Europe: a climatology, and ²²² Rn-based emission estimates. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996, 48, 457-473.	0.8	29
49	Can we evaluate a fine-grained emission model using high-resolution atmospheric transport modelling and regional fossil fuel CO ₂ observations?. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 65, 18681.	0.8	28
50	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
51	Revision of the stratospheric bomb ¹⁴ C inventory. <i>Journal of Geophysical Research</i> , 2000, 105, 11641-11658.	3.3	27
52	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
53	Evaluation of the boundary layer dynamics of the TM5 model over Europe. <i>Geoscientific Model Development</i> , 2016, 9, 3137-3160.	1.3	25
54	Anthropogenic ¹⁴ C Variations. <i>Radiocarbon</i> , 1983, 25, 583-592.	0.8	24

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55	Implications for Deriving Regional Fossil Fuel CO ₂ Estimates from Atmospheric Observations in a Hot Spot of Nuclear Power Plant ¹⁴ CO ₂ Emissions. Radiocarbon, 2013, 55, 1556-1572.	0.8	22
56	Evaluation of 4 years of continuous ¹³ C(CO ₂) data using a moving Keeling plot method. Biogeosciences, 2016, 13, 4237-4251.		
57	RADIOCARBON IN GLOBAL TROPOSPHERIC CARBON DIOXIDE. Radiocarbon, 2022, 64, 781-791.	0.8	20
58	Report: Summary of the Workshop "Aspects of High-Precision Radiocarbon Calibration". Radiocarbon, 1996, 38, 607-610.	0.8	19
59	A European-wide ²²² Rn and ²²² Rn progeny comparison study. Atmospheric Measurement Techniques, 2017, 10, 1299-1312.	1.2	19
60	Modelling of biospheric CO ₂ gross fluxes via oxygen isotopes in a spruce forest canopy: a ²²² Rn calibrated box model approach. Tellus, Series B: Chemical and Physical Meteorology, 2002, 54, 476-496.	0.8	18
61	Validation of MIPAS IMK/IAA methane profiles. Atmospheric Measurement Techniques, 2015, 8, 5251-5261.	1.2	18
62	A dedicated flask sampling strategy developed for Integrated Carbon Observation System (ICOS) stations based on CO ₂ and CO measurements and Stochastic Time-Inverted Lagrangian Transport (STILT) footprint modelling. Atmospheric Chemistry and Physics, 2020, 20, 11161-11180.	1.9	16
63	Constraining N ₂ O emissions since 1940 using firn air isotope measurements in both hemispheres. Atmospheric Chemistry and Physics, 2017, 17, 4539-4564.	1.9	12
64	Limitations of the radon tracer method (RTM) to estimate regional greenhouse gas (GHG) emissions " a case study for methane in Heidelberg. Atmospheric Chemistry and Physics, 2021, 21, 17907-17926.	1.9	12
65	Intercomparison study of atmospheric ²²² Rn and ²²² Rn progeny monitors. Atmospheric Measurement Techniques, 2020, 13, 2241-2255.	1.2	11
66	Effects of point source emission heights in WRF "STILT: a step towards exploiting nocturnal observations in models. Geoscientific Model Development, 2022, 15, 5391-5406.	1.3	8
67	The influence of ¹⁴ CO ₂ releases from regional nuclear facilities at the Heidelberg ¹⁴ CO ₂ sampling site (1986 "2014). Atmospheric Chemistry and Physics, 2018, 18, 7951-7959.	1.9	7
68	Assessment of ²²² Rn progeny loss in long tubing based on static filter measurements in the laboratory and in the field. Atmospheric Measurement Techniques, 2017, 10, 1313-1321.	1.2	6