

Pieter P Tans

List of Publications by Year in descending order

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276
papers

37,374
citations

3333

91
h-index

3725

179
g-index

313
all docs

313
docs citations

313
times ranked

23227
citing authors

#	ARTICLE	IF	CITATIONS
1	Observational Constrains on the Global Atmospheric Co2 Budget. Science, 1990, 247, 1431-1438.	6.0	1,981
2	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	3.7	1,477
3	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194.	3.7	1,167
4	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	3.7	1,159
5	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	3.7	905
6	An atmospheric perspective on North American carbon dioxide exchange: CarbonTracker. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18925-18930.	3.3	895
7	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	3.7	801
8	Weak Northern and Strong Tropical Land Carbon Uptake from Vertical Profiles of Atmospheric CO2. Science, 2007, 316, 1732-1735.	6.0	775
9	A Large Northern Hemisphere Terrestrial CO2 Sink Indicated by the 13C/12C Ratio of Atmospheric CO2. Science, 1995, 269, 1098-1102.	6.0	752
10	A Large Terrestrial Carbon Sink in North America Implied by Atmospheric and Oceanic Carbon Dioxide Data and Models. , 1998, 282, 442-446.		713
11	Methane Leaks from North American Natural Gas Systems. Science, 2014, 343, 733-735.	6.0	709
12	Regional Changes in Carbon Dioxide Fluxes of Land and Oceans Since 1980. Science, 2000, 290, 1342-1346.	6.0	680
13	Evidence for interannual variability of the carbon cycle from the National Oceanic and Atmospheric Administration/Climate Monitoring and Diagnostics Laboratory Global Air Sampling Network. Journal of Geophysical Research, 1994, 99, 22831.	3.3	674
14	Atmospheric carbon dioxide at Mauna Loa Observatory: 2. Analysis of the NOAA GMCC data, 1974-1985. Journal of Geophysical Research, 1989, 94, 8549-8565.	3.3	671
15	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	3.7	663
16	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	3.7	616
17	Increase in observed net carbon dioxide uptake by land and oceans during the past 50 years. Nature, 2012, 488, 70-72.	13.7	583
18	Global Carbon Sinks and Their Variability Inferred from Atmospheric O2 and 13C. Science, 2000, 287, 2467-2470.	6.0	471

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19	Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85.	3.7	463
20	Changes in oceanic and terrestrial carbon uptake since 1982. Nature, 1995, 373, 326-330.	13.7	457
21	Methane emissions estimate from airborne measurements over a western United States natural gas field. Geophysical Research Letters, 2013, 40, 4393-4397.	1.5	414
22	Upward revision of global fossil fuel methane emissions based on isotope database. Nature, 2016, 538, 88-91.	13.7	400
23	Continuing decline in the growth rate of the atmospheric methane burden. Nature, 1998, 393, 447-450.	13.7	384
24	Atmospheric methane levels off: Temporary pause or a new steady-state?. Geophysical Research Letters, 2003, 30, .	1.5	379
25	Recent trends in the ¹³ C/ ¹² C ratio of atmospheric carbon dioxide. Nature, 1979, 277, 121-123.	13.7	364
26	Hydrocarbon emissions characterization in the Colorado Front Range: A pilot study. Journal of Geophysical Research, 2012, 117, .	3.3	359
27	Extension and integration of atmospheric carbon dioxide data into a globally consistent measurement record. Journal of Geophysical Research, 1995, 100, 11593.	3.3	330
28	Enhanced Seasonal Exchange of CO ₂ by Northern Ecosystems Since 1960. Science, 2013, 341, 1085-1089.	6.0	329
29	Precision requirements for space-based data. Journal of Geophysical Research, 2007, 112, .	3.3	322
30	Partitioning of ocean and land uptake of CO ₂ as inferred by ¹³ C measurements from the NOAA Climate Monitoring and Diagnostics Laboratory Global Air Sampling Network. Journal of Geophysical Research, 1995, 100, 5051.	3.3	315
31	Global carbon budget 2013. Earth System Science Data, 2014, 6, 235-263.	3.7	311
32	Frequency-comb-based remote sensing of greenhouse gases over kilometer air paths. Optica, 2014, 1, 290.	4.8	296
33	Slowing down of the global accumulation of atmospheric methane during the 1980s. Nature, 1992, 358, 313-316.	13.7	295
34	Atmospheric gas concentrations over the past century measured in air from firn at the South Pole. Nature, 1996, 383, 231-235.	13.7	288
35	Influence of El Niño on the equatorial Pacific contribution to atmospheric CO ₂ accumulation. Nature, 1999, 398, 597-601.	13.7	277
36	A new look at methane and nonmethane hydrocarbon emissions from oil and natural gas operations in the Colorado Denver-Julesburg Basin. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6836-6852.	1.2	257

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37	Oceanic ¹³ C/ ¹² C observations: A new window on ocean CO ₂ uptake. <i>Global Biogeochemical Cycles</i> , 1993, 7, 353-368.	1.9	233
38	Mixing ratios of carbon monoxide in the troposphere. <i>Journal of Geophysical Research</i> , 1992, 97, 20731-20750.	3.3	228
39	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. <i>Global Change Biology</i> , 2010, 16, 1317-1337.	4.2	223
40	On the global distribution, seasonality, and budget of atmospheric carbonyl sulfide (COS) and some similarities to CO ₂ . <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	213
41	Increases in early season ecosystem uptake explain recent changes in the seasonal cycle of atmospheric CO ₂ at high northern latitudes. <i>Geophysical Research Letters</i> , 1999, 26, 2765-2768.	1.5	206
42	A dramatic decrease in the growth rate of atmospheric methane in the northern hemisphere during 1992. <i>Geophysical Research Letters</i> , 1994, 21, 45-48.	1.5	203
43	A three-dimensional synthesis study of δ ¹⁸ O in atmospheric CO ₂ : 1. Surface fluxes. <i>Journal of Geophysical Research</i> , 1997, 102, 5857-5872.	3.3	200
44	CO ₂ , CO, and CH ₄ measurements from tall towers in the NOAA Earth System Research Laboratory's Global Greenhouse Gas Reference Network: instrumentation, uncertainty analysis, and recommendations for future high-accuracy greenhouse gas monitoring efforts. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 647-687.	1.2	199
45	Recent Changes in Atmospheric Carbon Monoxide. <i>Science</i> , 1994, 263, 1587-1590.	6.0	197
46	Aircraft-Based Estimate of Total Methane Emissions from the Barnett Shale Region. <i>Environmental Science & Technology</i> , 2015, 49, 8124-8131.	4.6	190
47	Latitudinal distribution of the sources and sinks of atmospheric carbon dioxide derived from surface observations and an atmospheric transport model. <i>Journal of Geophysical Research</i> , 1989, 94, 5151-5172.	3.3	187
48	CarbonTracker-CH ₄ : an assimilation system for estimating emissions of atmospheric methane. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8269-8293.	1.9	187
49	Monitoring the isotopic composition of atmospheric CO ₂ : Measurements from the NOAA Global Air Sampling Network. <i>Journal of Geophysical Research</i> , 1996, 101, 25897-25916.	3.3	186
50	Comparison of ¹⁴ CO ₂ , CO, and SF ₆ as tracers for recently added fossil fuel CO ₂ in the atmosphere and implications for biological CO ₂ exchange. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	186
51	What atmospheric oxygen measurements can tell us about the global carbon cycle. <i>Global Biogeochemical Cycles</i> , 1993, 7, 37-67.	1.9	185
52	Latitudinal variation in oxygen-18 of atmospheric CO ₂ . <i>Nature</i> , 1987, 327, 495-497.	13.7	184
53	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. <i>Nature Climate Change</i> , 2017, 7, 359-363.	8.1	183
54	Partitioning net ecosystem carbon exchange with isotopic fluxes of CO ₂ . <i>Global Change Biology</i> , 2001, 7, 127-145.	4.2	178

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55	An ensemble data assimilation system to estimate CO ₂ surface fluxes from atmospheric trace gas observations. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	177
56	Towards real-time verification of CO ₂ emissions. <i>Nature Climate Change</i> , 2017, 7, 848-850.	8.1	168
57	Inverse modeling estimates of the global nitrous oxide surface flux from 1998-2001. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	1.9	161
58	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
59	Seasonal climatology of CO ₂ across North America from aircraft measurements in the NOAA/ESRL Global Greenhouse Gas Reference Network. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5155-5190.	1.2	153
60	Natural atmospheric ¹⁴ C variation and the Suess effect. <i>Nature</i> , 1979, 280, 826-828.	13.7	151
61	Accelerating net terrestrial carbon uptake during the warming hiatus due to reduced respiration. <i>Nature Climate Change</i> , 2017, 7, 148-152.	8.1	151
62	Reversal of global atmospheric ethane and propane trends largely due to US oil and natural gas production. <i>Nature Geoscience</i> , 2016, 9, 490-495.	5.4	149
63	Carbon dioxide sources from Alaska driven by increasing early winter respiration from Arctic tundra. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5361-5366.	3.3	149
64	Assessment of fossil fuel carbon dioxide and other anthropogenic trace gas emissions from airborne measurements over Sacramento, California in spring 2009. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 705-721.	1.9	148
65	New constraints on Northern Hemisphere growing season net flux. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	147
66	A geostatistical approach to surface flux estimation of atmospheric trace gases. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	146
67	Estimating uncertainty of the WMO mole fraction scale for carbon dioxide in air. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	146
68	AirCore: An Innovative Atmospheric Sampling System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1839-1853.	0.5	145
69	Measurements of carbon dioxide on very tall towers: results of the NOAA/CMDL program. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1998, 50, 401-415.	0.8	143
70	Toward quantification and source sector identification of fossil fuel CO ₂ emissions from an urban area: Results from the INFLUX experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 292-312.	1.2	140
71	CH ₄ sources estimated from atmospheric observations of CH ₄ and its ¹³ C/ ¹² C isotopic ratios: 1. Inverse modeling of source processes. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	139
72	A new look at atmospheric carbon dioxide. <i>Atmospheric Environment</i> , 2009, 43, 2084-2086.	1.9	139

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73	Increased water-use efficiency and reduced CO ₂ uptake by plants during droughts at a continental scale. <i>Nature Geoscience</i> , 2018, 11, 744-748.	5.4	139
74	Combined Simple Biosphere/Carnegie-Ames-Stanford Approach terrestrial carbon cycle model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	138
75	Measurements of carbon dioxide on very tall towers: results of the NOAA/CMDL program. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1998, 50, 401-415.	0.8	137
76	Calculating isotopic fractionation from atmospheric measurements at various scales. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 207-214.	0.8	135
77	The role of carbon dioxide in climate forcing from 1979 to 2004: introduction of the Annual Greenhouse Gas Index. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 614-619.	0.8	132
78	Climatic Change in Tasmania Inferred from a 1089-Year Tree-Ring Chronology of Huon Pine. <i>Science</i> , 1991, 253, 1266-1268.	6.0	126
79	What is the concentration footprint of a tall tower?. <i>Journal of Geophysical Research</i> , 2001, 106, 17831-17840.	3.3	124
80	Five decades of northern land carbon uptake revealed by the interhemispheric CO ₂ gradient. <i>Nature</i> , 2019, 568, 221-225.	13.7	124
81	Atmospheric carbon dioxide measurements in the remote global troposphere, 1981-1984. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1988, 40B, 81-115.	0.8	123
82	Linking emissions of fossil fuel CO ₂ and other anthropogenic trace gases using atmospheric ¹⁴ CO ₂ . <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	121
83	Maximum likelihood estimation of covariance parameters for Bayesian atmospheric trace gas surface flux inversions. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	118
84	Variability in the O ₂ /N ₂ ratio of southern hemisphere air, 1991-1994: Implications for the carbon cycle. <i>Global Biogeochemical Cycles</i> , 1996, 10, 9-21.	1.9	115
85	Development of analytical methods and measurements of ¹³ C/ ¹² C in atmospheric CH ₄ from the NOAA Climate Monitoring and Diagnostics Laboratory Global Air Sampling Network. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 11-1.	3.3	115
86	Airborne measurements indicate large methane emissions from the eastern Amazon basin. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	115
87	Changes in CH ₄ and CO growth rates after the eruption of Mt. Pinatubo and their link with changes in tropical tropospheric UV flux. <i>Geophysical Research Letters</i> , 1996, 23, 2761-2764.	1.5	108
88	Validation of XCO ₂ derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9771-9788.	1.9	106
89	Observed and simulated global distribution and budget of atmospheric C ₂ -C ₅ alkanes. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4403-4422.	1.9	104
90	A high precision isotope ratio mass spectrometry method for measuring the ratio of air. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4751-4758.	1.6	103

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91	In situ measurement of atmospheric CO ₂ at the four WMO/GAW stations in China. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2541-2554.	1.9	102
92	Past atmospheric CO ₂ levels and the ¹³ C/ ¹² C ratios in tree rings. <i>Tellus</i> , 1980, 32, 268-283.	0.4	101
93	CH ₄ sources estimated from atmospheric observations of CH ₄ and its ¹³ C/ ¹² C isotopic ratios: 2. Inverse modeling of CH ₄ fluxes from geographical regions. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	99
94	Determination of the isotopic (¹³ C/ ¹² C) discrimination by terrestrial biology from a global network of observations. <i>Global Biogeochemical Cycles</i> , 1998, 12, 555-562.	1.9	96
95	Measurement of ¹⁸ O/ ¹⁶ O in the soil-atmosphere CO ₂ flux. <i>Global Biogeochemical Cycles</i> , 1999, 13, 761-774.	1.9	96
96	An Accounting of the Observed Increase in Oceanic and Atmospheric CO ₂ and the Outlook for the Future. <i>Oceanography</i> , 2009, 22, 26-35.	0.5	96
97	Audit of the global carbon budget: estimate errors and their impact on uptake uncertainty. <i>Biogeosciences</i> , 2015, 12, 2565-2584.	1.3	96
98	Verification of flux measurement using relaxed eddy accumulation. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2417-2426.	1.3	95
99	Revision of global carbon fluxes based on a reassessment of oceanic and riverine carbon transport. <i>Nature Geoscience</i> , 2018, 11, 504-509.	5.4	95
100	A feasible Global Carbon Cycle Observing System: a plan to decipher today's carbon cycle based on observations. <i>Global Change Biology</i> , 1996, 2, 309-318.	4.2	94
101	Tropical nighttime warming as a dominant driver of variability in the terrestrial carbon sink. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15591-15596.	3.3	92
102	NOAA/CSIRO Flask Air Intercomparison Experiment: A strategy for directly assessing consistency among atmospheric measurements made by independent laboratories. <i>Journal of Geophysical Research</i> , 2001, 106, 20445-20464.	3.3	91
103	Measurements of carbon dioxide on a very tall tower. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1995, 47, 535-549.	0.8	90
104	ObsPack: a framework for the preparation, delivery, and attribution of atmospheric greenhouse gas measurements. <i>Earth System Science Data</i> , 2014, 6, 375-384.	3.7	88
105	Long-term greenhouse gas measurements from aircraft. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 511-526.	1.2	87
106	Elevated atmospheric CO ₂ effects and soil water feedbacks on soil respiration components in a Colorado grassland. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	1.9	85
107	An improved Kalman Smoother for atmospheric inversions. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2691-2702.	1.9	83
108	A new high precision ¹⁴ CO ₂ time series for North American continental air. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	83

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109	Improved Mechanistic Understanding of Natural Gas Methane Emissions from Spatially Resolved Aircraft Measurements. <i>Environmental Science & Technology</i> , 2017, 51, 7286-7294.	4.6	83
110	A note on isotopic ratios and the global atmospheric methane budget. <i>Global Biogeochemical Cycles</i> , 1997, 11, 77-81.	1.9	82
111	Deep air convection in the firn at a zero-accumulation site, central Antarctica. <i>Earth and Planetary Science Letters</i> , 2010, 293, 359-367.	1.8	82
112	A high precision manometric system for absolute calibrations of CO ₂ in dry air. <i>Journal of Geophysical Research</i> , 1997, 102, 5885-5894.	3.3	81
113	Atmospheric O ₂ /N ₂ changes, 1993-2002: Implications for the partitioning of fossil fuel CO ₂ sequestration. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	1.9	78
114	Atmospheric carbon dioxide measurements in the remote global troposphere, 1981-1984. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 40, 81.	0.8	77
115	A three-dimensional synthesis study of $\delta^{18}\text{O}$ in atmospheric CO ₂ : 2. Simulations with the TM2 transport model. <i>Journal of Geophysical Research</i> , 1997, 102, 5873-5883.	3.3	75
116	Application of a Differential Fuel-Cell Analyzer for Measuring Atmospheric Oxygen Variations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 82-94.	0.5	74
117	Toward regional-scale modeling using the two-way nested global model TM5: Characterization of transport using SF ₆ . <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	73
118	Canopy-scale $\delta^{13}\text{C}$ of photosynthetic and respiratory CO ₂ fluxes: observations in forest biomes across the United States. <i>Global Change Biology</i> , 2005, 11, 633-643.	4.2	67
119	Atmospheric observations of carbon monoxide and fossil fuel CO ₂ emissions from East Asia. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	65
120	Estimating US fossil fuel CO ₂ emissions from measurements of $\delta^{14}\text{C}$ in atmospheric CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13300-13307.	3.3	65
121	Predicted shift in the $\delta^{13}\text{C}/\delta^{12}\text{C}$ ratio of atmospheric carbon dioxide. <i>Geophysical Research Letters</i> , 1980, 7, 505-508.	1.5	64
122	Atmospheric potential oxygen: New observations and their implications for some atmospheric and oceanic models. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	1.9	64
123	Accurate measurements of carbon monoxide in humid air using the cavity ring-down spectroscopy (CRDS) technique. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1031-1040.	1.2	64
124	Vertical profiles of CO ₂ above eastern Amazonia suggest a net carbon flux to the atmosphere and balanced biosphere between 2000 and 2009. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 581.	0.8	63
125	Variations in atmospheric methane at Mauna Loa Observatory related to long-range transport. <i>Journal of Geophysical Research</i> , 1992, 97, 6003-6010.	3.3	62
126	Calculating isotopic fractionation from atmospheric measurements at various scales. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 207.	0.8	62

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127	Regional US carbon sinks from three-dimensional atmospheric CO ₂ sampling. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18348-18353.	3.3	61
128	Anthropogenic sources of halocarbons, sulfur hexafluoride, carbon monoxide, and methane in the southeastern United States. Journal of Geophysical Research, 1997, 102, 15915-15925.	3.3	58
129	Past atmospheric CO ₂ levels and the ¹³ C/ ¹² C ratios in tree rings. Tellus, 1980, 32, 268-283.	0.4	57
130	Oxygen isotopic equilibrium between carbon dioxide and water in soils. Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 163-178.	0.8	57
131	Improving stratospheric transport trend analysis based on SF ₆ and CO ₂ measurements. Journal of Geophysical Research D: Atmospheres, 2014, 119, 14,110.	1.2	57
132	Chemical pretreatment and radial flow of ¹⁴ C in tree rings. Nature, 1978, 271, 234-235.	13.7	55
133	Net terrestrial CO ₂ exchange over China during 2001-2010 estimated with an ensemble data assimilation system for atmospheric CO ₂ . Journal of Geophysical Research D: Atmospheres, 2014, 119, 3500-3515.	1.2	54
134	Carbon monoxide budget in the northern hemisphere. Geophysical Research Letters, 1994, 21, 433-436.	1.5	52
135	No significant increase in long-term CH ₄ emissions on North Slope of Alaska despite significant increase in air temperature. Geophysical Research Letters, 2016, 43, 6604-6611.	1.5	52
136	Oxygen isotopic equilibrium between carbon dioxide and water in soils. Tellus, Series B: Chemical and Physical Meteorology, 2022, 50, 163.	0.8	51
137	Correlations among combustion effluent species at Barrow, Alaska: Aerosol black carbon, carbon dioxide, and methane. Journal of Atmospheric Chemistry, 1989, 9, 283-299.	1.4	50
138	Trends and temporal variations of major greenhouse gases at a rural site in Central Europe. Atmospheric Environment, 2008, 42, 8707-8716.	1.9	50
139	Improved Constraints on Global Methane Emissions and Sinks Using ¹³ C-CH ₄ . Global Biogeochemical Cycles, 2021, 35, e2021GB007000.	1.9	50
140	A comprehensive global three-dimensional model of ¹⁸ O in atmospheric CO ₂ : 2. Mapping the atmospheric signal. Journal of Geophysical Research, 2003, 108, .	3.3	49
141	Carbon Crucible. Science, 2008, 320, 460-461.	6.0	49
142	Carbon flux estimation for Siberia by inverse modeling constrained by aircraft and tower CO ₂ measurements. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1100-1122.	1.2	49
143	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. Journal of Climate, 2013, 26, 4447-4475.	1.2	48
144	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.	1.9	47

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145	U.S. CH ₄ emissions from oil and gas production: Have recent large increases been detected?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4070-4083.	1.2	47
146	Biosphere model simulations of interannual variability in terrestrial ¹³ C/ ¹² C exchange. <i>Global Biogeochemical Cycles</i> , 2013, 27, 637-649.	1.9	46
147	Enhanced North American carbon uptake associated with El Niño. <i>Science Advances</i> , 2019, 5, eaaw0076.	4.7	45
148	A global calculation of the δ ¹³ C of soil respired carbon: Implications for the biospheric uptake of anthropogenic CO ₂ . <i>Global Biogeochemical Cycles</i> , 1999, 13, 519-530.	1.9	44
149	Volatile Organic Compounds in the Global Atmosphere. <i>Eos</i> , 2009, 90, 513-514.	0.1	44
150	A multi-year record of airborne CO ₂ observations in the US Southern Great Plains. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 751-763.	1.2	44
151	Strong Southern Ocean carbon uptake evident in airborne observations. <i>Science</i> , 2021, 374, 1275-1280.	6.0	44
152	Boreal ecosystems sequestered more carbon in warmer years. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	42
153	High-resolution emissions of CO ₂ from power generation in the USA. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	42
154	Atmospheric CO ₂ inversion validation using vertical profile measurements: Analysis of four independent inversion models. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
155	A 3-dimensional study of δ ¹⁸ O in atmospheric CO ₂ : contribution of different land ecosystems. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 642-667.	0.8	40
156	Bias corrections of GOSAT SWIR XCO ₂ and XCH ₄ with TCCON data and their evaluation using aircraft measurement data. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3491-3512.	1.2	40
157	Estimating photosynthetic ¹³ C discrimination in terrestrial CO ₂ exchange from canopy to regional scales. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	39
158	Estimating Asian terrestrial carbon fluxes from CONTRAIL aircraft and surface CO ₂ observations for the period 2006–2010. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5807-5824.	1.9	38
159	Controls on the movement and composition of firn air at the West Antarctic Ice Sheet Divide. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11007-11021.	1.9	37
160	The seasonal cycle of atmospheric CO ₂ : A study based on the NCAR Community Climate Model (CCM2). <i>Journal of Geophysical Research</i> , 1996, 101, 15079-15097.	3.3	36
161	A 3-dimensional study of δ ¹⁸ O in atmospheric CO ₂ : contribution of different land ecosystems. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 51, 642.	0.8	36
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