

# Pieter P Tans

## List of Publications by Year in descending order

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276

papers

37,374

citations

3334

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docs citations

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times ranked

23227

citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric carbon dioxide measurements in the remote global troposphere, 1981-1984. Tellus, Series B: Chemical and Physical Meteorology, 2022, 40, 81.	1.6	77
2	Oxygen isotopic equilibrium between carbon dioxide and water in soils. Tellus, Series B: Chemical and Physical Meteorology, 2022, 50, 163.	1.6	51
3	Carbon cycle research after Kyoto. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 562.	1.6	6
4	A 3-dimensional study of $\delta^{18}\text{O}$ in atmospheric $\text{CO}_2$ : contribution of different land ecosystems. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 642.	1.6	36
5	Calculating isotopic fractionation from atmospheric measurements at various scales. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 207.	1.6	62
6	The atmospheric signal of terrestrial carbon isotopic discrimination and its implication for partitioning carbon fluxes. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 197.	1.6	18
7	Vertical profiles of $\text{CO}_2$ above eastern Amazonia suggest a net carbon flux to the atmosphere and balanced biosphere between 2000 and 2009. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 581.	1.6	63
8	Observation of atmospheric $\text{CO}_2$ and $\text{CO}$ at Shangri-La station: results from the only regional station located at southwestern China. Tellus, Series B: Chemical and Physical Meteorology, 2022, 68, 28506.	1.6	19
9	On calculating the transfer of carbon-13 in reservoir models of the carbon cycle. Tellus, 2022, 32, 464.	0.8	31
10	REMINISCING ON THE USE AND ABUSE OF $^{14}\text{C}$ AND $^{13}\text{C}$ IN ATMOSPHERIC $\text{CO}_2$ . Radiocarbon, 2022, 64, 747-760.	1.8	1
11	Fill dynamics and sample mixing in the AirCore. Atmospheric Measurement Techniques, 2022, 15, 1903-1916.	3.1	5
12	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	9.9	663
13	Comments on Skrabble et al. (2022). Health Physics, 2022, 122, 707-709.	0.5	0
14	Improved global wetland carbon isotopic signatures support post-2006 microbial methane emission increase. Communications Earth & Environment, 2022, 3, .	6.8	11
15	Atmospheric oil and natural gas hydrocarbon trends in the Northern Colorado Front Range are notably smaller than inventory emissions reductions. Elementa, 2021, 9, .	3.2	4
16	Revision of the World Meteorological Organization Global Atmosphere Watch (WMO/GAW) $\text{CO}_2$ calibration scale. Atmospheric Measurement Techniques, 2021, 14, 3015-3032.	3.1	30
17	Improved Constraints on Global Methane Emissions and Sinks Using $^{13}\text{C}$ in $\text{CH}_4$ . Global Biogeochemical Cycles, 2021, 35, e2021GB007000.	4.9	50
18	COS-derived GPP relationships with temperature and light help explain high-latitude atmospheric $\text{CO}_2$ seasonal cycle amplification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21

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19	Strong Southern Ocean carbon uptake evident in airborne observations. <i>Science</i> , 2021, 374, 1275-1280.	12.6	44
20	Siberian and temperate ecosystems shape Northern Hemisphere atmospheric CO <sub>2</sub> seasonal amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21079-21087.	7.1	27
21	Estimating the short-time rate of change in the trend of the Keeling curve. <i>Scientific Reports</i> , 2020, 10, 21222.	3.3	3
22	Estimating US fossil fuel CO <sub>2</sub> emissions from measurements of <sup>14</sup> C in atmospheric CO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13300-13307.	7.1	65
23	Investigating large methane enhancements in the U.S. San Juan Basin. <i>Elementa</i> , 2020, 8, .	3.2	8
24	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340.	9.9	1,477
25	Very old firn air linked to strong density layering at Styx Glacier, coastal Victoria Land, East Antarctica. <i>Cryosphere</i> , 2019, 13, 2407-2419.	3.9	7
26	Enhanced North American carbon uptake associated with El Niño. <i>Science Advances</i> , 2019, 5, eaaw0076.	10.3	45
27	Long-Term Measurements Show Little Evidence for Large Increases in Total U.S. Methane Emissions Over the Past Decade. <i>Geophysical Research Letters</i> , 2019, 46, 4991-4999.	4.0	35
28	Five decades of northern land carbon uptake revealed by the interhemispheric CO <sub>2</sub> gradient. <i>Nature</i> , 2019, 568, 221-225.	27.8	124
29	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019, 11, 1783-1838.	9.9	1,159
30	Potential improvements aimed at high precision <sup>13</sup> C isotopic ratio determinations in CO <sub>2</sub> mixtures using optical absorption spectrometry. <i>Talanta</i> , 2018, 184, 73-86.	5.5	3
31	Comparison of atmospheric CO <sub>2</sub> mole fractions and source-sink characteristics at four WMO/GAW stations in China. <i>Atmospheric Environment</i> , 2018, 180, 216-225.	4.1	13
32	Analysis of patterns in the concentrations of atmospheric greenhouse gases measured in two typical urban clusters in China. <i>Atmospheric Environment</i> , 2018, 173, 343-354.	4.1	24
33	The carbon cycle response to two El Niño types: an observational study. <i>Environmental Research Letters</i> , 2018, 13, 024001.	5.2	22
34	Experiments with CO <sub>2</sub> -in-air reference gases in high-pressure aluminum cylinders. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5565-5586.	3.1	6
35	CTDAS-Lagrange v1.0: a high-resolution data assimilation system for regional carbon dioxide observations. <i>Geoscientific Model Development</i> , 2018, 11, 3515-3536.	3.6	16
36	COCAP: a carbon dioxide analyser for small unmanned aircraft systems. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1833-1849.	3.1	22

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37	The CarbonTracker Data Assimilation System for CO <sub>2</sub> and CH <sub>4</sub> (CTDAS-C13 v1.0): retrieving information on “atmosphere exchange processes. Geoscientific Model Development, 2018, 11, 283-304.	3.6	6
38	Ratios of greenhouse gas emissions observed over the Yellow Sea and the East China Sea. Science of the Total Environment, 2018, 633, 1022-1031.	8.0	10
39	Increased water-use efficiency and reduced CO <sub>2</sub> uptake by plants during droughts at a continental scale. Nature Geoscience, 2018, 11, 744-748.	12.9	139
40	Revision of global carbon fluxes based on a reassessment of oceanic and riverine carbon transport. Nature Geoscience, 2018, 11, 504-509.	12.9	95
41	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194.	9.9	1,167
42	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	9.9	801
43	Accelerating net terrestrial carbon uptake during the warming hiatus due to reduced respiration. Nature Climate Change, 2017, 7, 148-152.	18.8	151
44	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. Nature Climate Change, 2017, 7, 359-363.	18.8	183
45	Carbon dioxide sources from Alaska driven by increasing early winter respiration from Arctic tundra. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5361-5366.	7.1	149
46	Improved Mechanistic Understanding of Natural Gas Methane Emissions from Spatially Resolved Aircraft Measurements. Environmental Science & Technology, 2017, 51, 7286-7294.	10.0	83
47	U.S. CH <sub>4</sub> emissions from oil and gas production: Have recent large increases been detected?. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4070-4083.	3.3	47
48	Atmospheric CO <sub>2</sub> at Waliguan station in China: Transport climatology, temporal patterns and source-sink region representativeness. Atmospheric Environment, 2017, 159, 107-116.	4.1	11
49	Study of atmospheric CO <sub>2</sub> and CH <sub>4</sub> at Longfengshan WMO/GAW regional station: The variations, trends, influence of local sources/sinks, and transport. Science China Earth Sciences, 2017, 60, 1886-1895.	5.2	21
50	Considerable contribution of the Montreal Protocol to declining greenhouse gas emissions from the United States. Geophysical Research Letters, 2017, 44, 8075-8083.	4.0	30
51	Towards real-time verification of CO <sub>2</sub> emissions. Nature Climate Change, 2017, 7, 848-850.	18.8	168
52	Gradients of column CO <sub>2</sub> across North America from the NOAA Global Greenhouse Gas Reference Network. Atmospheric Chemistry and Physics, 2017, 17, 15151-15165.	4.9	12
53	Compiled records of carbon isotopes in atmospheric CO <sub>2</sub> for historical simulations in CMIP6. Geoscientific Model Development, 2017, 10, 4405-4417.	3.6	154
54	Abundances of isotopologues and calibration of CO <sub>2</sub> greenhouse gas measurements. Atmospheric Measurement Techniques, 2017, 10, 2669-2685.	3.1	33

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55	Bias corrections of GOSAT SWIR XCO <sub>2</sub> and XCH <sub>4</sub> with TCCON data and their evaluation using aircraft measurement data. Atmospheric Measurement Techniques, 2016, 9, 3491-3512.	3.1	40
56	No significant increase in long-term CH <sub>4</sub> emissions on North Slope of Alaska despite significant increase in air temperature. Geophysical Research Letters, 2016, 43, 6604-6611.	4.0	52
57	Development of a Northern Continental Air Standard Reference Material. Analytical Chemistry, 2016, 88, 3376-3385.	6.5	15
58	Upward revision of global fossil fuel methane emissions based on isotope database. Nature, 2016, 538, 88-91.	27.8	400
59	Strong regional atmospheric <sup>14</sup> C signature of respired CO <sub>2</sub> observed from a tall tower over the midwestern United States. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2275-2295.	3.0	5
60	Investigating Alaskan methane and carbon dioxide fluxes using measurements from the CARVE tower. Atmospheric Chemistry and Physics, 2016, 16, 5383-5398.	4.9	26
61	Reversal of global atmospheric ethane and propane trends largely due to US oil and natural gas production. Nature Geoscience, 2016, 9, 490-495.	12.9	149
62	Characteristics of atmospheric CO <sub>2</sub> and CH <sub>4</sub> at the Shangdianzi regional background station in China. Atmospheric Environment, 2016, 131, 1-8.	4.1	34
63	Continued emissions of carbon tetrachloride from the United States nearly two decades after its phaseout for dispersive uses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2880-2885.	7.1	32
64	Climatological variability of air temperature and precipitation observed in South Korea for the last 50 years. Air Quality, Atmosphere and Health, 2016, 9, 645-651.	3.3	14
65	Variability analyses, site characterization, and regional [OH] estimates using trace gas measurements from the NOAA Global Greenhouse Gas Reference Network. Elementa, 2016, 4, .	3.2	2
66	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	9.9	905
67	Toward quantification and source sector identification of fossil fuel CO <sub>2</sub> emissions from an urban area: Results from the INFLUX experiment. Journal of Geophysical Research D: Atmospheres, 2015, 120, 292-312.	3.3	140
68	U.S. emissions of HFC-134a derived for 2008-2012 from an extensive flask-air sampling network. Journal of Geophysical Research D: Atmospheres, 2015, 120, 801-825.	3.3	30
69	Analysis of CO <sub>2</sub> mole fraction data: first evidence of large-scale changes in CO <sub>2</sub> uptake at high northern latitudes. Atmospheric Chemistry and Physics, 2015, 15, 13739-13758.	4.9	23
70	Comparison of the regional CO <sub>2</sub> mole fraction filtering approaches at a WMO/GAW regional station in China. Atmospheric Measurement Techniques, 2015, 8, 5301-5313.	3.1	27
71	Audit of the global carbon budget: estimate errors and their impact on uptake uncertainty. Biogeosciences, 2015, 12, 2565-2584.	3.3	96
72	Seasonal climatology of CO <sub>2</sub> across North America from aircraft measurements in the NOAA/ESRL Global Greenhouse Gas Reference Network. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5155-5190.	3.3	153

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73	Tropical nighttime warming as a dominant driver of variability in the terrestrial carbon sink. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15591-15596.	7.1	92
74	Decadal trends of atmospheric methane in East Asia from 1991 to 2013. Air Quality, Atmosphere and Health, 2015, 8, 293-298.	3.3	15
75	Aircraft-Based Estimate of Total Methane Emissions from the Barnett Shale Region. Environmental Science & Technology, 2015, 49, 8124-8131.	10.0	190
76	Atmospheric CO <sub>2</sub> and its $\delta^{13}\text{C}$ measurements from flask sampling at Lin'an regional background station in China. Atmospheric Environment, 2015, 117, 220-226.	4.1	16
77	An approach for verifying biogenic greenhouse gas emissions inventories with atmospheric CO <sub>2</sub> concentration data. Environmental Research Letters, 2015, 10, 034012.	5.2	27
78	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	9.9	616
79	Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85.	9.9	463
80	Validation of XCH <sub>4</sub> derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. Atmospheric Measurement Techniques, 2014, 7, 2987-3005.	3.1	32
81	CO <sub>2</sub> , CO, and CH <sub>4</sub> 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. Atmospheric Measurement Techniques, 2014, 7, 647-687.	3.1	199
82	Steps for success of OCO-2. Nature Geoscience, 2014, 7, 691-691.	12.9	5
83	A Cost-Effective Trace Gas Measurement Program for Long-Term Monitoring of the Stratospheric Circulation. Bulletin of the American Meteorological Society, 2014, 95, 147-155.	3.3	11
84	Frequency-comb-based remote sensing of greenhouse gases over kilometer air paths. Optica, 2014, 1, 290.	9.3	296
85	Global carbon budget 2013. Earth System Science Data, 2014, 6, 235-263.	9.9	311
86	ObsPack: a framework for the preparation, delivery, and attribution of atmospheric greenhouse gas measurements. Earth System Science Data, 2014, 6, 375-384.	9.9	88
87	In situ measurement of atmospheric CO <sub>2</sub> at the four WMO/GAW stations in China. Atmospheric Chemistry and Physics, 2014, 14, 2541-2554.	4.9	102
88	Methane Leaks from North American Natural Gas Systems. Science, 2014, 343, 733-735.	12.6	709
89	Net terrestrial CO <sub>2</sub> exchange over China during 2001-2010 estimated with an ensemble data assimilation system for atmospheric CO <sub>2</sub> . Journal of Geophysical Research D: Atmospheres, 2014, 119, 3500-3515.	3.3	54
90	A study on carbon dioxide concentrations and carbon isotopes measured in East Asia during 1991-2011. Air Quality, Atmosphere and Health, 2014, 7, 173-179.	3.3	8

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91	Improving stratospheric transport trend analysis based on SF <sub>6</sub> and CO <sub>2</sub> measurements. Journal of Geophysical Research D: Atmospheres, 2014, 119, 14,110.	3.3	57
92	Reconstruction of Northern Hemisphere 1950–2010 atmospheric non-methane hydrocarbons. Atmospheric Chemistry and Physics, 2014, 14, 1463-1483.	4.9	31
93	Corrigendum to “Controls on the movement and composition of firm air at the West Antarctic Ice Sheet Divide”, Atmospheric Chemistry and Physics, 2014, 14, 9511-9511.	4.9	0
94	Estimating Asian terrestrial carbon fluxes from CONTRAIL aircraft and surface CO <sub>2</sub> observations for the period 2006–2010. Atmospheric Chemistry and Physics, 2014, 14, 5807-5824.	4.9	38
95	CarbonTracker-CH <sub>4</sub> : an assimilation system for estimating emissions of atmospheric methane. Atmospheric Chemistry and Physics, 2014, 14, 8269-8293.	4.9	187
96	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.	3.3	257
97	Methane emissions estimate from airborne measurements over a western United States natural gas field. Geophysical Research Letters, 2013, 40, 4393-4397.	4.0	414
98	Multiyear average characteristics of CO <sub>2</sub> variations in the free atmosphere over Colorado (40°N,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.1	0
99	Enhanced Seasonal Exchange of CO <sub>2</sub> by Northern Ecosystems Since 1960. Science, 2013, 341, 1085-1089.	12.6	329
100	Reply to comment on “Hydrocarbon emissions characterization in the Colorado Front Range-A pilot study” by Michael A. Levi. Journal of Geophysical Research D: Atmospheres, 2013, 118, 236-242.	3.3	8
101	Carbon flux estimation for Siberia by inverse modeling constrained by aircraft and tower CO <sub>2</sub> measurements. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1100-1122.	3.3	49
102	Short-term variations of atmospheric CO <sub>2</sub> and dominant causes in summer and winter: Analysis of 14-year continuous observational data at Waliguan, China. Atmospheric Environment, 2013, 77, 140-148.	4.1	20
103	Constraints on emissions of carbon monoxide, methane, and a suite of hydrocarbons in the Colorado Front Range using observations of CH <sub>4</sub> , CO <sub>2</sub> . Atmospheric Chemistry and Physics, 2013, 13, 11101-11120.	4.9	27
104	Long-term greenhouse gas measurements from aircraft. Atmospheric Measurement Techniques, 2013, 6, 511-526.	3.1	87
105	A multi-year record of airborne CO <sub>2</sub> observations in the US Southern Great Plains. Atmospheric Measurement Techniques, 2013, 6, 751-763.	3.1	44
106	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.	3.2	48
107	Allocation of Terrestrial Carbon Sources Using <sup>14</sup> CO <sub>2</sub> : Methods, Measurement, and Modeling. Radiocarbon, 2013, 55, 1484-1495.	1.8	35
108	Atmospheric column-averaged mole fractions of carbon dioxide at 53 aircraft measurement sites. Atmospheric Chemistry and Physics, 2013, 13, 5265-5275.	4.9	20



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109	Corrigendum to "Atmospheric column-averaged mole fractions of carbon dioxide at 53 aircraft measurement sites" published in Atmos. Chem. Phys. 13, 5265–5275, 2013. Atmospheric Chemistry and Physics, 2013, 13, 9213-9216.	4.9	2
110	Validation of XCO <sub>2</sub> derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. Atmospheric Chemistry and Physics, 2013, 13, 9771-9788.	4.9	106
111	Biosphere model simulations of interannual variability in terrestrial <sup>13</sup> C/ <sup>12</sup> C exchange. Global Biogeochemical Cycles, 2013, 27, 637-649.	4.9	46
112	Accurate measurements of carbon monoxide in humid air using the cavity ring-down spectroscopy (CRDS) technique. Atmospheric Measurement Techniques, 2013, 6, 1031-1040.	3.1	64
113	Inverse Modeling of CO <sub>2</sub> Fluxes Using GOSAT Data and Multi-Year Ground-Based Observations. Scientific Online Letters on the Atmosphere, 2013, 9, 45-50.	1.4	34
114	An integrated flask sample collection system for greenhouse gas measurements. Atmospheric Measurement Techniques, 2012, 5, 2321-2327.	3.1	33
115	Estimation of regional surface CO <sub>2</sub> fluxes with GOSAT observations using two inverse modeling approaches. , 2012, , .		2
116	Hydrocarbon emissions characterization in the Colorado Front Range: A pilot study. Journal of Geophysical Research, 2012, 117, .	3.3	359
117	Characterization and validation of CO <sub>2</sub> and CH <sub>4</sub> products from the GOSAT thermal infrared band. Proceedings of SPIE, 2012, , .	0.8	0
118	Microcollection of Gases in a Capillary Tube: Preservation of Spatial and Temporal Resolution. Analytical Chemistry, 2012, 84, 8310-8316.	6.5	4
119	Increase in observed net carbon dioxide uptake by land and oceans during the past 50 years. Nature, 2012, 488, 70-72.	27.8	583
120	Linking emissions of fossil fuel CO <sub>2</sub> and other anthropogenic trace gases using atmospheric <sup>14</sup> CO <sub>2</sub> . Journal of Geophysical Research, 2012, 117, .	3.3	121
121	Atmospheric CO <sub>2</sub> inversion validation using vertical profile measurements: Analysis of four independent inversion models. Journal of Geophysical Research, 2011, 116, .	3.3	41
122	Atmospheric observations of carbon monoxide and fossil fuel CO <sub>2</sub> emissions from East Asia. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	65
123	Novel applications of carbon isotopes in atmospheric CO <sub>2</sub> : what can atmospheric measurements teach us about processes in the biosphere?. Biogeosciences, 2011, 8, 3093-3106.	3.3	30
124	Impact of CO <sub>2</sub> measurement bias on CarbonTracker surface flux estimates. Journal of Geophysical Research, 2011, 116, .	3.3	33
125	Spatial and temporal resolution of carbon flux estimates for 1983–2002. Biogeosciences, 2011, 8, 1309-1331.	3.3	35
126	Controls on the movement and composition of firn air at the West Antarctic Ice Sheet Divide. Atmospheric Chemistry and Physics, 2011, 11, 11007-11021.	4.9	37



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127	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.	4.9	148
128	Simulation of variability in atmospheric carbon dioxide using a global coupled Eulerian – Lagrangian transport model. <i>Geoscientific Model Development</i> , 2011, 4, 317-324.	3.6	18
129	Trends and Temporal Variations of Major Greenhouse Gases at a Rural Site in Central Europe. , 2011, , 29-47.		3
130	Observed and simulated global distribution and budget of atmospheric C <sub>2</sub> and C <sub>5</sub> alkanes. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4403-4422.	4.9	104
131	On the regional distributions of background carbon monoxide concentrations observed in East Asia during 1991–2008. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2010, 46, 89-95.	2.3	5
132	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. <i>Global Change Biology</i> , 2010, 16, 1317-1337.	9.5	223
133	Land use and season affect fluxes of CO <sub>2</sub> , CH <sub>4</sub> , CO, N <sub>2</sub> O, H <sub>2</sub> and isotopic source signatures in Panama: evidence from nocturnal boundary layer profiles. <i>Global Change Biology</i> , 2010, 16, 2721-2736.	9.5	30
134	AirCore: An Innovative Atmospheric Sampling System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1839-1853.	1.3	145
135	Atmospheric constraints on 2004 emissions of methane and nitrous oxide in North America from atmospheric measurements and a receptor-oriented modeling framework. <i>Journal of Integrative Environmental Sciences</i> , 2010, 7, 125-133.	2.5	20
136	Deep air convection in the firn at a zero-accumulation site, central Antarctica. <i>Earth and Planetary Science Letters</i> , 2010, 293, 359-367.	4.4	82
137	Apparent seasonal cycle in isotopic discrimination of carbon in the atmosphere and biosphere due to vapor pressure deficit. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	22
138	Regional US carbon sinks from three-dimensional atmospheric CO <sub>2</sub> sampling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18348-18353.	7.1	61
139	An Accounting of the Observed Increase in Oceanic and Atmospheric CO <sub>2</sub> and the Outlook for the Future. <i>Oceanography</i> , 2009, 22, 26-35.	1.0	96
140	A new look at atmospheric carbon dioxide. <i>Atmospheric Environment</i> , 2009, 43, 2084-2086.	4.1	139
141	Volatile Organic Compounds in the Global Atmosphere. <i>Eos</i> , 2009, 90, 513-514.	0.1	44
142	Regional N <sub>2</sub> O fluxes in Amazonia derived from aircraft vertical profiles. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8785-8797.	4.9	29
143	Spatial distribution of <sup>14</sup> C/CO <sub>2</sub> across Eurasia: measurements from the TROICA-8 expedition. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 175-187.	4.9	34
144	On the regional background levels of carbon monoxide observed in East Asia during 1991–2004. <i>Air Quality, Atmosphere and Health</i> , 2008, 1, 37-44.	3.3	14

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145	Sampling, storage, and analysis of C <sub>2</sub> –C <sub>7</sub> non-methane hydrocarbons from the US National Oceanic and Atmospheric Administration Cooperative Air Sampling Network glass flasks. Journal of Chromatography A, 2008, 1188, 75-87.	3.7	30
146	Trends and temporal variations of major greenhouse gases at a rural site in Central Europe. Atmospheric Environment, 2008, 42, 8707-8716.	4.1	50
147	High-resolution emissions of CO <sub>2</sub> from power generation in the USA. Journal of Geophysical Research, 2008, 113, .	3.3	42
148	Combined Simple Biosphere/Carnegie–Ames–Stanford Approach terrestrial carbon cycle model. Journal of Geophysical Research, 2008, 113, .	3.3	138
149	Separating contributions from natural and anthropogenic sources in atmospheric methane from the Black Sea region, Romania. Applied Geochemistry, 2008, 23, 2871-2879.	3.0	7
150	Carbon Crucible. Science, 2008, 320, 460-461.	12.6	49
151	Application of a Differential Fuel-Cell Analyzer for Measuring Atmospheric Oxygen Variations. Journal of Atmospheric and Oceanic Technology, 2007, 24, 82-94.	1.3	74
152	Weak Northern and Strong Tropical Land Carbon Uptake from Vertical Profiles of Atmospheric CO <sub>2</sub> . Science, 2007, 316, 1732-1735.	12.6	775
153	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.	7.1	895
154	Experimental and numerical studies of the <sup>18</sup> O exchange between CO <sub>2</sub> and water in the atmosphere–soil invasion flux. Geochimica Et Cosmochimica Acta, 2007, 71, 2657-2671.	3.9	11
155	Airborne measurements indicate large methane emissions from the eastern Amazon basin. Geophysical Research Letters, 2007, 34, .	4.0	115
156	Precision requirements for space-based data. Journal of Geophysical Research, 2007, 112, .	3.3	322
157	On the global distribution, seasonality, and budget of atmospheric carbonyl sulfide (COS) and some similarities to CO <sub>2</sub> . Journal of Geophysical Research, 2007, 112, .	3.3	213
158	Three-dimensional SF <sub>6</sub> data and tropospheric transport simulations: Signals, modeling accuracy, and implications for inverse modeling. Journal of Geophysical Research, 2007, 112, .	3.3	35
159	A new high precision <sup>14</sup> CO <sub>2</sub> time series for North American continental air. Journal of Geophysical Research, 2007, 112, .	3.3	83
160	Deriving daily carbon fluxes from hourly CO <sub>2</sub> mixing ratios measured on the WLEF tall tower: An upscaling methodology. Journal of Geophysical Research, 2007, 112, .	3.3	12
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