

Pieter P Tans

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

296 papers	29,486 citations	89 h-index	167 g-index
313 ext. papers	33,570 ext. citations	9.8 avg, IF	6.56 L-index

#	Paper	IF	Citations
296	Fill dynamics and sample mixing in the AirCore. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 1903-1916	10.5	1
295	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022 , 14, 1917-2005	10.5	47
294	Comments on Skrabbe et al. (2022).. <i>Health Physics</i> , 2022 , 122, 707-709	2.3	
293	Strong Southern Ocean carbon uptake evident in airborne observations. <i>Science</i> , 2021 , 374, 1275-1280	33.3	6
292	Revision of the World Meteorological Organization Global Atmosphere Watch (WMO/GAW) CO ₂ calibration scale. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 3015-3032	4	7
291	Improved Constraints on Global Methane Emissions and Sinks Using C-CH ₄ . <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2021GB007000	5.9	12
290	Atmospheric oil and natural gas hydrocarbon trends in the Northern Colorado Front Range are notably smaller than inventory emissions reductions. <i>Elementa</i> , 2021 , 9,	3.6	1
289	COS-derived GPP relationships with temperature and light help explain high-latitude atmospheric CO seasonal cycle amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
288	Estimating US fossil fuel CO emissions from measurements of C in atmospheric CO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13300-13307	11.5	28
287	Investigating large methane enhancements in the U.S. San Juan Basin. <i>Elementa</i> , 2020 , 8,	3.6	5
286	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020 , 12, 3269-3340	10.5	533
285	Siberian and temperate ecosystems shape Northern Hemisphere atmospheric CO seasonal amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21079-21087	11.5	10
284	Estimating the short-time rate of change in the trend of the Keeling curve. <i>Scientific Reports</i> , 2020 , 10, 21222	4.9	1
283	Enhanced North American carbon uptake associated with El Niño. <i>Science Advances</i> , 2019 , 5, eaaw0076	14.3	26
282	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	4.9	30
281	Five decades of northern land carbon uptake revealed by the interhemispheric CO gradient. <i>Nature</i> , 2019 , 568, 221-225	50.4	77
280	Very old firn air linked to strong density layering at Styx Glacier, coastal Victoria Land, East Antarctica. <i>Cryosphere</i> , 2019 , 13, 2407-2419	5.5	3

279	Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019 , 11, 1783-1838	10.5	776
278	Potential improvements aimed at high precision $\delta^{13}\text{C}$ isotopic ratio determinations in CO mixtures using optical absorption spectrometry. <i>Talanta</i> , 2018 , 184, 73-86	6.2	2
277	Comparison of atmospheric CO ₂ mole fractions and source sink characteristics at four WMO/GAW stations in China. <i>Atmospheric Environment</i> , 2018 , 180, 216-225	5.3	7
276	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	5.3	13
275	The carbon cycle response to two El Nino types: an observational study. <i>Environmental Research Letters</i> , 2018 , 13, 024001	6.2	16
274	The CarbonTracker Data Assimilation System for CO ₂ and $\delta^{13}\text{C}$ (CTDAS-C13 v1.0): retrieving information on land-atmosphere exchange processes. <i>Geoscientific Model Development</i> , 2018 , 11, 283-304	6.3	4
273	Ratios of greenhouse gas emissions observed over the Yellow Sea and the East China Sea. <i>Science of the Total Environment</i> , 2018 , 633, 1022-1031	10.2	4
272	Increased water-use efficiency and reduced CO uptake by plants during droughts at a continental-scale. <i>Nature Geoscience</i> , 2018 , 11, 744-748	18.3	72
271	Revision of global carbon fluxes based on a reassessment of oceanic and riverine carbon transport. <i>Nature Geoscience</i> , 2018 , 11, 504-509	18.3	60
270	Global Carbon Budget 2018. <i>Earth System Science Data</i> , 2018 , 10, 2141-2194	10.5	831
269	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018 , 10, 405-448	10.5	614
268	Experiments with CO ₂ -in-air reference gases in high-pressure aluminum cylinders. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 5565-5586	4	5
267	CTDAS-Lagrange v1.0: a high-resolution data assimilation system for regional carbon dioxide observations. <i>Geoscientific Model Development</i> , 2018 , 11, 3515-3536	6.3	8
266	COCAP: a carbon dioxide analyser for small unmanned aircraft systems. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 1833-1849	4	15
265	Accelerating net terrestrial carbon uptake during the warming hiatus due to reduced respiration. <i>Nature Climate Change</i> , 2017 , 7, 148-152	21.4	106
264	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. <i>Nature Climate Change</i> , 2017 , 7, 359-363	21.4	107
263	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	11.5	115
262	Improved Mechanistic Understanding of Natural Gas Methane Emissions from Spatially Resolved Aircraft Measurements. <i>Environmental Science & Technology</i> , 2017 , 51, 7286-7294	10.3	55

261	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	4.4	41
260	Atmospheric CO ₂ at Waliguan station in China: Transport climatology, temporal patterns and source-sink region representativeness. <i>Atmospheric Environment</i> , 2017 , 159, 107-116	5.3	5
259	Compiled records of carbon isotopes in atmospheric CO ₂ for historical simulations in CMIP6. <i>Geoscientific Model Development</i> , 2017 , 10, 4405-4417	6.3	96
258	Abundances of isotopologues and calibration of CO ₂ greenhouse gas measurements. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 2669-2685	4	24
257	Study of atmospheric CO ₂ and CH ₄ at Longfengshan WMO/GAW regional station: The variations, trends, influence of local sources/sinks, and transport. <i>Science China Earth Sciences</i> , 2017 , 60, 1886-1895	4.6	14
256	Considerable contribution of the Montreal Protocol to declining greenhouse gas emissions from the United States. <i>Geophysical Research Letters</i> , 2017 , 44, 8075-8083	4.9	22
255	Gradients of column CO ₂ across North America from the NOAA Global Greenhouse Gas Reference Network. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 15151-15165	6.8	10
254	Climatological variability of air temperature and precipitation observed in South Korea for the last 50 years. <i>Air Quality, Atmosphere and Health</i> , 2016 , 9, 645-651	5.6	13
253	Strong regional atmospheric ¹⁴ C signature of respired CO ₂ observed from a tall tower over the midwestern United States. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 2275-2295	3.7	4
252	Investigating Alaskan methane and carbon dioxide fluxes using measurements from the CARVE tower. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5383-5398	6.8	20
251	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	18.3	109
250	Characteristics of atmospheric CO ₂ and CH ₄ at the Shangdianzi regional background station in China. <i>Atmospheric Environment</i> , 2016 , 131, 1-8	5.3	29
249	Continued emissions of carbon tetrachloride from the United States nearly two decades after its phaseout for dispersive uses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 2880-5	11.5	22
248	Variability analyses, site characterization, and regional [OH] estimates using trace gas measurements from the NOAA Global Greenhouse Gas Reference Network. <i>Elementa</i> , 2016 , 4,	3.6	2
247	Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016 , 8, 605-649	10.5	730
246	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	4	30
245	No significant increase in long-term CH ₄ emissions on North Slope of Alaska despite significant increase in air temperature. <i>Geophysical Research Letters</i> , 2016 , 43, 6604-6611	4.9	44
244	Observation of atmospheric CO ₂ and CO at Shangri-La station: results from the only regional station located at southwestern China. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2016 , 68, 2850-6	3.3	12

243	Development of a Northern Continental Air Standard Reference Material. <i>Analytical Chemistry</i> , 2016 , 88, 3376-85	7.8	12
242	Upward revision of global fossil fuel methane emissions based on isotope database. <i>Nature</i> , 2016 , 538, 88-91	50.4	301
241	Decadal trends of atmospheric methane in East Asia from 1991 to 2013. <i>Air Quality, Atmosphere and Health</i> , 2015 , 8, 293-298	5.6	12
240	Aircraft-Based Estimate of Total Methane Emissions from the Barnett Shale Region. <i>Environmental Science & Technology</i> , 2015 , 49, 8124-31	10.3	137
239	Atmospheric CO ₂ and its $\delta^{13}\text{C}$ measurements from flask sampling at Lin'an regional background station in China. <i>Atmospheric Environment</i> , 2015 , 117, 220-226	5.3	13
238	An approach for verifying biogenic greenhouse gas emissions inventories with atmospheric CO ₂ concentration data. <i>Environmental Research Letters</i> , 2015 , 10, 034012	6.2	25
237	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	4.4	120
236	U.S. emissions of HFC-134a derived for 2008-2012 from an extensive flask-air sampling network. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 801-825	4.4	23
235	Analysis of CO ₂ mole fraction data: first evidence of large-scale changes in CO ₂ uptake at high northern latitudes. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13739-13758	6.8	18
234	Comparison of the regional CO ₂ mole fraction filtering approaches at a WMO/GAW regional station in China. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 5301-5313	4	17
233	Audit of the global carbon budget: estimate errors and their impact on uptake uncertainty. <i>Biogeosciences</i> , 2015 , 12, 2565-2584	4.6	82
232	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	4.4	112
231	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, 15591-6	11.5	69
230	Global Carbon Budget 2015. <i>Earth System Science Data</i> , 2015 , 7, 349-396	10.5	513
229	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015 , 7, 47-85	10.5	367
228	Energy and environment. Methane leaks from North American natural gas systems. <i>Science</i> , 2014 , 343, 733-5	33.3	552
227	Net terrestrial CO ₂ exchange over China during 2001-2010 estimated with an ensemble data assimilation system for atmospheric CO ₂ . <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3500-3515	4.4	33
226	A study on carbon dioxide concentrations and carbon isotopes measured in East Asia during 1991-2011. <i>Air Quality, Atmosphere and Health</i> , 2014 , 7, 173-179	5.6	8

225	Improving stratospheric transport trend analysis based on SF ₆ and CO ₂ measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 14,110-14,128	4.4	52
224	Reconstruction of Northern Hemisphere 1950–2010 atmospheric non-methane hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1463-1483	6.8	25
223	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	6.8	35
222	CarbonTracker-CH ₄ : an assimilation system for estimating emissions of atmospheric methane. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 8269-8293	6.8	128
221	A new look at methane and nonmethane hydrocarbon emissions from oil and natural gas operations in the Colorado Denver-Julesburg Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6836-6852	4.4	191
220	Validation of XCH ₄ derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 2987-3005	4	26
219	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	4	147
218	Steps for success of OCO-2. <i>Nature Geoscience</i> , 2014 , 7, 691-691	18.3	3
217	A Cost-Effective Trace Gas Measurement Program for Long-Term Monitoring of the Stratospheric Circulation. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 147-155	6.1	9
216	Frequency-comb-based remote sensing of greenhouse gases over kilometer air paths. <i>Optica</i> , 2014 , 1, 290	8.6	192
215	Global carbon budget 2013. <i>Earth System Science Data</i> , 2014 , 6, 235-263	10.5	264
214	ObsPack: a framework for the preparation, delivery, and attribution of atmospheric greenhouse gas measurements. <i>Earth System Science Data</i> , 2014 , 6, 375-384	10.5	55
213	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	6.8	78
212	Methane emissions estimate from airborne measurements over a western United States natural gas field. <i>Geophysical Research Letters</i> , 2013 , 40, 4393-4397	4.9	345
211	Multiyear average characteristics of CO ₂ variations in the free atmosphere over Colorado (40°N, 104°W). <i>Atmospheric Environment</i> , 2013 , 72, 159-164	5.3	
210	Enhanced seasonal exchange of CO ₂ by northern ecosystems since 1960. <i>Science</i> , 2013 , 341, 1085-9	33.3	274
209	Reply to comment on "Hydrocarbon emissions characterization in the Colorado Front Range" pilot study by Michael A. Levi. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 236-242	4.4	8
208	Carbon flux estimation for Siberia by inverse modeling constrained by aircraft and tower CO ₂ measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1100-1122	4.4	46

207	Short-term variations of atmospheric CO ₂ and dominant causes in summer and winter: Analysis of 14-year continuous observational data at Waliguan, China. <i>Atmospheric Environment</i> , 2013 , 77, 140-148	5.3	18
206	Constraints on emissions of carbon monoxide, methane, and a suite of hydrocarbons in the Colorado Front Range using observations of CO and CH_4 . <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11101-11120	6.8	21
205	Long-term greenhouse gas measurements from aircraft. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 511-526	4	71
204	A multi-year record of airborne CO_2 observations in the US Southern Great Plains. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 751-763	4	38
203	Atmospheric Carbon Dioxide Variability in the Community Earth System Model: Evaluation and Transient Dynamics during the Twentieth and Twenty-First Centuries. <i>Journal of Climate</i> , 2013 , 26, 4447-4475	4.4	45
202	Global carbon budget 2013 2013 ,		75
201	CO ₂ , CO and CH ₄ measurements from the NOAA Earth System Research Laboratory's Tall Tower Greenhouse Gas Observing Network: instrumentation, uncertainty analysis and recommendations for future high-accuracy greenhouse gas monitoring efforts 2013 ,		18
200	Allocation of Terrestrial Carbon Sources Using $^{14}\text{CO}_2$: Methods, Measurement, and Modeling. <i>Radiocarbon</i> , 2013 , 55, 1484-1495	4.6	25
199	Atmospheric column-averaged mole fractions of carbon dioxide at 53 aircraft measurement sites. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5265-5275	6.8	17
198	Corrigendum to "Atmospheric column-averaged mole fractions of carbon dioxide at 53 aircraft measurement sites" published in Atmos. Chem. Phys. 13, 5265-5275, 2013. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9213-9216	6.8	1
197	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	6.8	74
196	Biosphere model simulations of interannual variability in terrestrial $^{13}\text{C}/^{12}\text{C}$ exchange. <i>Global Biogeochemical Cycles</i> , 2013 , 27, 637-649	5.9	40
195	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	4	56
194	Inverse Modeling of CO ₂ Fluxes Using GOSAT Data and Multi-Year Ground-Based Observations. <i>Scientific Online Letters on the Atmosphere</i> , 2013 , 9, 45-50	2.1	29
193	Microcollection of gases in a capillary tube: preservation of spatial and temporal resolution. <i>Analytical Chemistry</i> , 2012 , 84, 8310-6	7.8	2
192	Increase in observed net carbon dioxide uptake by land and oceans during the past 50 years. <i>Nature</i> , 2012 , 488, 70-2	50.4	422
191	Linking emissions of fossil fuel CO ₂ and other anthropogenic trace gases using atmospheric $^{14}\text{CO}_2$. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		104
190	An integrated flask sample collection system for greenhouse gas measurements 2012 ,		2

189	An integrated flask sample collection system for greenhouse gas measurements. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2321-2327	4	26
188	Long-term greenhouse gas measurements from aircraft 2012 ,		5
187	A multi-year record of airborne CO ₂ observations in the US Southern Great Plains 2012 ,		3
186	Accurate measurements of carbon monoxide in humid air using the cavity ring-down spectroscopy (CRDS) technique 2012 ,		4
185	Estimation of regional surface CO ₂ fluxes with GOSAT observations using two inverse modeling approaches 2012 ,		1
184	Hydrocarbon emissions characterization in the Colorado Front Range: A pilot study. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		302
183	Atmospheric CO ₂ inversion validation using vertical profile measurements: Analysis of four independent inversion models. <i>Journal of Geophysical Research</i> , 2011 , 116,		37
182	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		51
181	Novel applications of carbon isotopes in atmospheric CO ₂ : what can atmospheric measurements teach us about processes in the biosphere?. <i>Biogeosciences</i> , 2011 , 8, 3093-3106	46	26
180	Impact of CO ₂ measurement bias on CarbonTracker surface flux estimates. <i>Journal of Geophysical Research</i> , 2011 , 116,		30
179	Spatial and temporal resolution of carbon flux estimates for 1983-2002. <i>Biogeosciences</i> , 2011 , 8, 1309-1321	16	33
178	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	6.8	31
177	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	6.8	130
176	Simulation of variability in atmospheric carbon dioxide using a global coupled Eulerian-Lagrangian transport model. <i>Geoscientific Model Development</i> , 2011 , 4, 317-324	6.3	15
175	Trends and Temporal Variations of Major Greenhouse Gases at a Rural Site in Central Europe 2011 , 29-47		3
174	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> , 2010 , 62, 581-594	3.3	55
173	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. <i>Global Change Biology</i> , 2010 , 16, 1317-1337	11.4	182
172	Land use and season affect fluxes of CO ₂ , CH ₄ , CO, N ₂ O, H ₂ and isotopic source signatures in Panama: evidence from nocturnal boundary layer profiles. <i>Global Change Biology</i> , 2010 , 16, 2721-2736	11.4	25

171	AirCore: An Innovative Atmospheric Sampling System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010 , 27, 1839-1853	2	114
170	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	3	19
169	Deep air convection in the firn at a zero-accumulation site, central Antarctica. <i>Earth and Planetary Science Letters</i> , 2010 , 293, 359-367	5.3	68
168	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, n/a-n/a	5.9	20
167	Regional US carbon sinks from three-dimensional atmospheric CO ₂ sampling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18348-53	11.5	54
166	Observed and simulated global distribution and budget of atmospheric C ₂ H ₆ , C ₂ H ₄ , C ₂ H ₂ , and alkanes. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4403-4422	6.8	85
165	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	2.1	5
164	A new look at atmospheric carbon dioxide. <i>Atmospheric Environment</i> , 2009 , 43, 2084-2086	5.3	105
163	Volatile Organic Compounds in the Global Atmosphere. <i>Eos</i> , 2009 , 90, 513-514	1.5	40
162	Regional N ₂ O fluxes in Amazonia derived from aircraft vertical profiles. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8785-8797	6.8	23
161	Spatial distribution of CH ₄ and CO ₂ across Eurasia: measurements from the TROICA-8 expedition. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 175-187	6.8	31
160	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	2.3	58
159	Trends and temporal variations of major greenhouse gases at a rural site in Central Europe. <i>Atmospheric Environment</i> , 2008 , 42, 8707-8716	5.3	47
158	High-resolution emissions of CO ₂ from power generation in the USA. <i>Journal of Geophysical Research</i> , 2008 , 113,		35
157	Combined Simple Biosphere/Carnegie-Ames-Stanford Approach terrestrial carbon cycle model. <i>Journal of Geophysical Research</i> , 2008 , 113,		116
156	Separating contributions from natural and anthropogenic sources in atmospheric methane from the Black Sea region, Romania. <i>Applied Geochemistry</i> , 2008 , 23, 2871-2879	3.5	5
155	Climate change. Carbon crucible. <i>Science</i> , 2008 , 320, 460-1	33.3	39
154	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	5.6	14

153	Sampling, storage, and analysis of C2-C7 non-methane hydrocarbons from the US National Oceanic and Atmospheric Administration Cooperative Air Sampling Network glass flasks. <i>Journal of Chromatography A</i> , 2008 , 1188, 75-87	4.5	27
152	Airborne measurements indicate large methane emissions from the eastern Amazon basin. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	101
151	Precision requirements for space-based data. <i>Journal of Geophysical Research</i> , 2007 , 112,		269
150	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,		176
149	Three-dimensional SF ₆ data and tropospheric transport simulations: Signals, modeling accuracy, and implications for inverse modeling. <i>Journal of Geophysical Research</i> , 2007 , 112,		27
148	A new high precision 14CO ₂ time series for North American continental air. <i>Journal of Geophysical Research</i> , 2007 , 112,		68
147	Deriving daily carbon fluxes from hourly CO ₂ mixing ratios measured on the WLEF tall tower: An upscaling methodology. <i>Journal of Geophysical Research</i> , 2007 , 112,		11
146	New constraints on Northern Hemisphere growing season net flux. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	130
145	Temperature anomaly reemergence in seasonally frozen soils. <i>Journal of Geophysical Research</i> , 2007 , 112,		10
144	Application of a Differential Fuel-Cell Analyzer for Measuring Atmospheric Oxygen Variations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007 , 24, 82-94	2	63
143	Weak northern and strong tropical land carbon uptake from vertical profiles of atmospheric CO ₂ . <i>Science</i> , 2007 , 316, 1732-5	33.3	663
142	An atmospheric perspective on North American carbon dioxide exchange: CarbonTracker. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18925-30	11.5	737
141	Experimental and numerical studies of the 18O exchange between CO ₂ and water in the atmosphere—Boil invasion flux. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 2657-2671	5.5	11
140	Inverse modeling estimates of the global nitrous oxide surface flux from 1998–2001. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	140
139	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	5.9	55
138	Comparison of 14CO 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	4.9	161
137	Estimating uncertainty of the WMO mole fraction scale for carbon dioxide in air. <i>Journal of Geophysical Research</i> , 2006 , 111,		127
136	Tracking climate forcing: The annual greenhouse gas index. <i>Eos</i> , 2006 , 87, 509	1.5	24

135	Mauna Loa volcano is not a methane source: Implications for Mars. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	18
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22	Constraints on emissions of carbon monoxide, methane, and a suite of hydrocarbons in the Colorado Front Range using observations of CH_4 , CO , and C_2H_6		3
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1	REMINISCING ON THE USE AND ABUSE OF ¹⁴ C AND ¹³ C IN ATMOSPHERIC CO ₂ . <i>Radiocarbon</i> ,1-14	4.6