

Pieter P Tans

List of Publications by Year in descending order

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Version: 2024-02-01

276
papers

37,374
citations

3333

91
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313
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. | 0.8 | 77 |
| 2 | Oxygen isotopic equilibrium between carbon dioxide and water in soils. Tellus, Series B: Chemical and Physical Meteorology, 2022, 50, 163. | 0.8 | 51 |
| 3 | Carbon cycle research after Kyoto. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 562. | 0.8 | 6 |
| 4 | A 3-dimensional study of $\delta^{18}\text{O}$ in atmospheric CO_2 : contribution of different land ecosystems. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 642. | 0.8 | 36 |
| 5 | Calculating isotopic fractionation from atmospheric measurements at various scales. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 207. | 0.8 | 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. | 0.8 | 18 |
| 7 | Vertical profiles of 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. | 0.8 | 63 |
| 8 | Observation of atmospheric CO_2 and 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. | 0.8 | 19 |
| 9 | On calculating the transfer of carbon-13 in reservoir models of the carbon cycle. Tellus, 2022, 32, 464. | 0.4 | 31 |
| 10 | REMINISCING ON THE USE AND ABUSE OF ^{14}C AND ^{13}C IN ATMOSPHERIC CO_2 . Radiocarbon, 2022, 64, 747-760. | 0.8 | 1 |
| 11 | Fill dynamics and sample mixing in the AirCore. Atmospheric Measurement Techniques, 2022, 15, 1903-1916. | 1.2 | 5 |
| 12 | Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005. | 3.7 | 663 |
| 13 | Comments on Skrabble et al. (2022). Health Physics, 2022, 122, 707-709. | 0.3 | 0 |
| 14 | Improved global wetland carbon isotopic signatures support post-2006 microbial methane emission increase. Communications Earth & Environment, 2022, 3, . | 2.6 | 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, . | 1.1 | 4 |
| 16 | Revision of the World Meteorological Organization Global Atmosphere Watch (WMO/GAW) CO_2 calibration scale. Atmospheric Measurement Techniques, 2021, 14, 3015-3032. | 1.2 | 30 |
| 17 | Improved Constraints on Global Methane Emissions and Sinks Using ^{13}C - $\delta^{13}\text{C}$. Global Biogeochemical Cycles, 2021, 35, e2021GB007000. | 1.9 | 50 |
| 18 | COS-derived GPP relationships with temperature and light help explain high-latitude atmospheric CO_2 seasonal cycle amplification. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 21 |

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|----|--|------|-----------|
| 19 | Strong Southern Ocean carbon uptake evident in airborne observations. <i>Science</i> , 2021, 374, 1275-1280. | 6.0 | 44 |
| 20 | Siberian and temperate ecosystems shape Northern Hemisphere atmospheric CO ₂ seasonal amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21079-21087. | 3.3 | 27 |
| 21 | Estimating the short-time rate of change in the trend of the Keeling curve. <i>Scientific Reports</i> , 2020, 10, 21222. | 1.6 | 3 |
| 22 | Estimating US fossil fuel CO ₂ emissions from measurements of ¹⁴ 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 |
| 23 | Investigating large methane enhancements in the U.S. San Juan Basin. <i>Elementa</i> , 2020, 8, . | 1.1 | 8 |
| 24 | Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340. | 3.7 | 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. | 1.5 | 7 |
| 26 | Enhanced North American carbon uptake associated with El Niño. <i>Science Advances</i> , 2019, 5, eaaw0076. | 4.7 | 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. | 1.5 | 35 |
| 28 | Five decades of northern land carbon uptake revealed by the interhemispheric CO ₂ gradient. <i>Nature</i> , 2019, 568, 221-225. | 13.7 | 124 |
| 29 | Global Carbon Budget 2019. <i>Earth System Science Data</i> , 2019, 11, 1783-1838. | 3.7 | 1,159 |
| 30 | Potential improvements aimed at high precision ¹³ C isotopic ratio determinations in CO ₂ mixtures using optical absorption spectrometry. <i>Talanta</i> , 2018, 184, 73-86. | 2.9 | 3 |
| 31 | 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. | 1.9 | 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. | 1.9 | 24 |
| 33 | The carbon cycle response to two El Niño types: an observational study. <i>Environmental Research Letters</i> , 2018, 13, 024001. | 2.2 | 22 |
| 34 | Experiments with CO ₂ -in-air reference gases in high-pressure aluminum cylinders. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5565-5586. | 1.2 | 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. | 1.3 | 16 |
| 36 | COCAP: a carbon dioxide analyser for small unmanned aircraft systems. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1833-1849. | 1.2 | 22 |

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|----|--|-----|-----------|
| 37 | The CarbonTracker Data Assimilation System for CO ₂ and CH ₄ : retrieving information on atmosphere exchange processes. Geoscientific Model Development, 2018, 11, 283-304. | 1.3 | 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. | 3.9 | 10 |
| 39 | Increased water-use efficiency and reduced CO ₂ uptake by plants during droughts at a continental scale. Nature Geoscience, 2018, 11, 744-748. | 5.4 | 139 |
| 40 | Revision of global carbon fluxes based on a reassessment of oceanic and riverine carbon transport. Nature Geoscience, 2018, 11, 504-509. | 5.4 | 95 |
| 41 | Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194. | 3.7 | 1,167 |
| 42 | Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448. | 3.7 | 801 |
| 43 | Accelerating net terrestrial carbon uptake during the warming hiatus due to reduced respiration. Nature Climate Change, 2017, 7, 148-152. | 8.1 | 151 |
| 44 | Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. Nature Climate Change, 2017, 7, 359-363. | 8.1 | 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. | 3.3 | 149 |
| 46 | Improved Mechanistic Understanding of Natural Gas Methane Emissions from Spatially Resolved Aircraft Measurements. Environmental Science & Technology, 2017, 51, 7286-7294. | 4.6 | 83 |
| 47 | U.S. CH ₄ emissions from oil and gas production: Have recent large increases been detected?. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4070-4083. | 1.2 | 47 |
| 48 | Atmospheric CO ₂ at Waliguan station in China: Transport climatology, temporal patterns and source-sink region representativeness. Atmospheric Environment, 2017, 159, 107-116. | 1.9 | 11 |
| 49 | Study of atmospheric CO ₂ and CH ₄ at Longfengshan WMO/GAW regional station: The variations, trends, influence of local sources/sinks, and transport. Science China Earth Sciences, 2017, 60, 1886-1895. | 2.3 | 21 |
| 50 | Considerable contribution of the Montreal Protocol to declining greenhouse gas emissions from the United States. Geophysical Research Letters, 2017, 44, 8075-8083. | 1.5 | 30 |
| 51 | Towards real-time verification of CO ₂ emissions. Nature Climate Change, 2017, 7, 848-850. | 8.1 | 168 |
| 52 | Gradients of column CO ₂ across North America from the NOAA Global Greenhouse Gas Reference Network. Atmospheric Chemistry and Physics, 2017, 17, 15151-15165. | 1.9 | 12 |
| 53 | Compiled records of carbon isotopes in atmospheric CO ₂ for historical simulations in CMIP6. Geoscientific Model Development, 2017, 10, 4405-4417. | 1.3 | 154 |
| 54 | Abundances of isotopologues and calibration of CO ₂ greenhouse gas measurements. Atmospheric Measurement Techniques, 2017, 10, 2669-2685. | 1.2 | 33 |

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|----|--|------|-----------|
| 55 | 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 |
| 56 | 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. | 1.5 | 52 |
| 57 | Development of a Northern Continental Air Standard Reference Material. <i>Analytical Chemistry</i> , 2016, 88, 3376-3385. | 3.2 | 15 |
| 58 | Upward revision of global fossil fuel methane emissions based on isotope database. <i>Nature</i> , 2016, 538, 88-91. | 13.7 | 400 |
| 59 | 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. | 1.3 | 5 |
| 60 | Investigating Alaskan methane and carbon dioxide fluxes using measurements from the CARVE tower. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5383-5398. | 1.9 | 26 |
| 61 | 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 |
| 62 | Characteristics of atmospheric CO ₂ and CH ₄ at the Shangdianzi regional background station in China. <i>Atmospheric Environment</i> , 2016, 131, 1-8. | 1.9 | 34 |
| 63 | 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, 2880-2885. | 3.3 | 32 |
| 64 | 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. | 1.5 | 14 |
| 65 | 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, . | 1.1 | 2 |
| 66 | Global Carbon Budget 2016. <i>Earth System Science Data</i> , 2016, 8, 605-649. | 3.7 | 905 |
| 67 | 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 |
| 68 | 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. | 1.2 | 30 |
| 69 | 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. | 1.9 | 23 |
| 70 | 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. | 1.2 | 27 |
| 71 | Audit of the global carbon budget: estimate errors and their impact on uptake uncertainty. <i>Biogeosciences</i> , 2015, 12, 2565-2584. | 1.3 | 96 |
| 72 | 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 |

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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. | 3.3 | 92 |
| 74 | Decadal trends of atmospheric methane in East Asia from 1991 to 2013. Air Quality, Atmosphere and Health, 2015, 8, 293-298. | 1.5 | 15 |
| 75 | Aircraft-Based Estimate of Total Methane Emissions from the Barnett Shale Region. Environmental Science & Technology, 2015, 49, 8124-8131. | 4.6 | 190 |
| 76 | Atmospheric CO ₂ and its $\delta^{13}C$ measurements from flask sampling at Lin'an regional background station in China. Atmospheric Environment, 2015, 117, 220-226. | 1.9 | 16 |
| 77 | An approach for verifying biogenic greenhouse gas emissions inventories with atmospheric CO ₂ concentration data. Environmental Research Letters, 2015, 10, 034012. | 2.2 | 27 |
| 78 | Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396. | 3.7 | 616 |
| 79 | Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85. | 3.7 | 463 |
| 80 | Validation of XCH ₄ derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. Atmospheric Measurement Techniques, 2014, 7, 2987-3005. | 1.2 | 32 |
| 81 | 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. Atmospheric Measurement Techniques, 2014, 7, 647-687. | 1.2 | 199 |
| 82 | Steps for success of OCO-2. Nature Geoscience, 2014, 7, 691-691. | 5.4 | 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. | 1.7 | 11 |
| 84 | Frequency-comb-based remote sensing of greenhouse gases over kilometer air paths. Optica, 2014, 1, 290. | 4.8 | 296 |
| 85 | Global carbon budget 2013. Earth System Science Data, 2014, 6, 235-263. | 3.7 | 311 |
| 86 | ObsPack: a framework for the preparation, delivery, and attribution of atmospheric greenhouse gas measurements. Earth System Science Data, 2014, 6, 375-384. | 3.7 | 88 |
| 87 | In situ measurement of atmospheric CO ₂ at the four WMO/GAW stations in China. Atmospheric Chemistry and Physics, 2014, 14, 2541-2554. | 1.9 | 102 |
| 88 | Methane Leaks from North American Natural Gas Systems. Science, 2014, 343, 733-735. | 6.0 | 709 |
| 89 | 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 |
| 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. | 1.5 | 8 |

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| 91 | 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. | 1.2 | 57 |
| 92 | Reconstruction of Northern Hemisphere 1950–2010 atmospheric non-methane hydrocarbons. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1463-1483. | 1.9 | 31 |
| 93 | Corrigendum to "Controls on the movement and composition of firm air at the West Antarctic Ice Sheet Divide", <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9511-9511. | 1.9 | 0 |
| 94 | 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 |
| 95 | 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 |
| 96 | 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. | 1.2 | 257 |
| 97 | Methane emissions estimate from airborne measurements over a western United States natural gas field. <i>Geophysical Research Letters</i> , 2013, 40, 4393-4397. | 1.5 | 414 |
| 98 | Multiyear average characteristics of CO ₂ variations in the free atmosphere over Colorado (40°N, 105°W). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 236-242. | 1.2 | 8 |
| 99 | Enhanced Seasonal Exchange of CO ₂ by Northern Ecosystems Since 1960. <i>Science</i> , 2013, 341, 1085-1089. | 6.0 | 329 |
| 100 | Reply to comment on "Hydrocarbon emissions characterization in the Colorado Front Range-A pilot study" by Michael A. Levi. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 236-242. | 1.2 | 8 |
| 101 | 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. | 1.2 | 49 |
| 102 | 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. | 1.9 | 20 |
| 103 | Constraints on emissions of carbon monoxide, methane, and a suite of hydrocarbons in the Colorado Front Range using observations of CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11101-11120. | 1.9 | 27 |
| 104 | Long-term greenhouse gas measurements from aircraft. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 511-526. | 1.2 | 87 |
| 105 | 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 |
| 106 | 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. | 1.2 | 48 |
| 107 | Allocation of Terrestrial Carbon Sources Using ¹⁴ C: Methods, Measurement, and Modeling. <i>Radiocarbon</i> , 2013, 55, 1484-1495. | 0.8 | 35 |
| 108 | Atmospheric column-averaged mole fractions of carbon dioxide at 53 aircraft measurement sites. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5265-5275. | 1.9 | 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. | 1.9 | 2 |
| 110 | Validation of XCO ₂ derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. Atmospheric Chemistry and Physics, 2013, 13, 9771-9788. | 1.9 | 106 |
| 111 | Biosphere model simulations of interannual variability in terrestrial ¹³ C/ ¹² C exchange. Global Biogeochemical Cycles, 2013, 27, 637-649. | 1.9 | 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. | 1.2 | 64 |
| 113 | Inverse Modeling of CO ₂ Fluxes Using GOSAT Data and Multi-Year Ground-Based Observations. Scientific Online Letters on the Atmosphere, 2013, 9, 45-50. | 0.6 | 34 |
| 114 | An integrated flask sample collection system for greenhouse gas measurements. Atmospheric Measurement Techniques, 2012, 5, 2321-2327. | 1.2 | 33 |
| 115 | Estimation of regional surface CO ₂ 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 ₂ and CH ₄ 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. | 3.2 | 4 |
| 119 | Increase in observed net carbon dioxide uptake by land and oceans during the past 50 years. Nature, 2012, 488, 70-72. | 13.7 | 583 |
| 120 | Linking emissions of fossil fuel CO ₂ and other anthropogenic trace gases using atmospheric ¹⁴ CO ₂ . Journal of Geophysical Research, 2012, 117, . | 3.3 | 121 |
| 121 | Atmospheric CO ₂ 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 ₂ 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 ₂ : what can atmospheric measurements teach us about processes in the biosphere?. Biogeosciences, 2011, 8, 3093-3106. | 1.3 | 30 |
| 124 | Impact of CO ₂ 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. | 1.3 | 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. | 1.9 | 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. | 1.9 | 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. | 1.3 | 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 ₂ and C ₅ alkanes. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4403-4422. | 1.9 | 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. | 1.3 | 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. | 4.2 | 223 |
| 133 | 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. | 4.2 | 30 |
| 134 | AirCore: An Innovative Atmospheric Sampling System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 1839-1853. | 0.5 | 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. | 1.0 | 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. | 1.8 | 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, . | 1.9 | 22 |
| 138 | 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, 18348-18353. | 3.3 | 61 |
| 139 | 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 |
| 140 | A new look at atmospheric carbon dioxide. <i>Atmospheric Environment</i> , 2009, 43, 2084-2086. | 1.9 | 139 |
| 141 | Volatile Organic Compounds in the Global Atmosphere. <i>Eos</i> , 2009, 90, 513-514. | 0.1 | 44 |
| 142 | Regional N ₂ O fluxes in Amazonia derived from aircraft vertical profiles. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8785-8797. | 1.9 | 29 |
| 143 | Spatial distribution of ¹⁴ C/CO ₂ across Eurasia: measurements from the TROICA-8 expedition. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 175-187. | 1.9 | 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. | 1.5 | 14 |

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|-----|---|-----|-----------|
| 145 | Sampling, storage, and analysis of C ₂ –C ₇ 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. | 1.8 | 30 |
| 146 | Trends and temporal variations of major greenhouse gases at a rural site in Central Europe. <i>Atmospheric Environment</i> , 2008, 42, 8707-8716. | 1.9 | 50 |
| 147 | High-resolution emissions of CO ₂ from power generation in the USA. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 42 |
| 148 | Combined Simple Biosphere/Carnegie-Ames-Stanford Approach terrestrial carbon cycle model. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 138 |
| 149 | Separating contributions from natural and anthropogenic sources in atmospheric methane from the Black Sea region, Romania. <i>Applied Geochemistry</i> , 2008, 23, 2871-2879. | 1.4 | 7 |
| 150 | Carbon Crucible. <i>Science</i> , 2008, 320, 460-461. | 6.0 | 49 |
| 151 | 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 |
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