

Debra Wunch

List of Publications by Year in descending order

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129
papers

12,393
citations

41258

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h-index

29081

104
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203
all docs

203
docs citations

203
times ranked

7771
citing authors

#	ARTICLE	IF	CITATIONS
1	An 11-year record of XCO ₂ estimates derived from GOSAT measurements using the NASA ACOS version 9 retrieval algorithm. <i>Earth System Science Data</i> , 2022, 14, 325-360.	3.7	17
2	Nitrous Oxide Profiling from Infrared Radiances (NOPIR): Algorithm Description, Application to 10 Years of IASI Observations and Quality Assessment. <i>Remote Sensing</i> , 2022, 14, 1810.	1.8	0
3	Improved calibration procedures for the EM27/SUN spectrometers of the COllaborative Carbon Column Observing Network (COCCON). <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2433-2463.	1.2	10
4	Methane retrieved from TROPOMI: improvement of the data product and validation of the first 2 years of measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 665-684.	1.2	104
5	Regional and Urban Column CO Trends and Anomalies as Observed by MOPITT Over 16 Years. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033967.	1.2	10
6	Retrieval of atmospheric CO ₂ ; vertical profiles from ground-based near-infrared spectra. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 3087-3118.	1.2	14
7	The Facility Level and Area Methane Emissions inventory for the Greater Toronto Area (FLAME-GTA). <i>Atmospheric Environment</i> , 2021, 252, 118319.	1.9	4
8	Characterizing model errors in chemical transport modeling of methane: using GOSAT XCH ₄ data with weak-constraint four-dimensional variational data assimilation. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9545-9572.	1.9	14
9	Validation of methane and carbon monoxide from Sentinel-5 Precursor using TCCON and NDACC-IRWG stations. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6249-6304.	1.2	57
10	Methane Growth Rate Estimation and Its Causes in Western Canada Using Satellite Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033948.	1.2	1
11	Spatial distributions of XCO ₂ seasonal cycle amplitude and phase over northern high-latitude regions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16661-16687.	1.9	10
12	Assessing the feasibility of using a neural network to filter Orbiting Carbon Observatory-2 (OCO-2) retrievals at northern high latitudes. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 7511-7524.	1.2	4
13	Bias Correction of the Ratio of Total Column CH ₄ to CO ₂ Retrieved from GOSAT Spectra. <i>Remote Sensing</i> , 2020, 12, 3155.	1.8	2
14	Toward High Precision XCO ₂ Retrievals From TanSat Observations: Retrieval Improvement and Validation Against TCCON Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032794.	1.2	25
15	Validation of Carbon Trace Gas Profile Retrievals from the NOAA-Unique Combined Atmospheric Processing System for the Cross-Track Infrared Sounder. <i>Remote Sensing</i> , 2020, 12, 3245.	1.8	23
16	Improved Constraints on Northern Extratropical CO ₂ Fluxes Obtained by Combining Surface-Based and Space-Based Atmospheric CO ₂ Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032029.	1.2	26
17	Monitoring Urban Greenhouse Gases Using Open-Path Fourier Transform Spectroscopy. <i>Atmosphere - Ocean</i> , 2020, 58, 25-45.	0.6	10
18	Investigation of the Spatial Distribution of Methane Sources in the Greater Toronto Area Using Mobile Gas Monitoring Systems. <i>Environmental Science & Technology</i> , 2020, 54, 15671-15679.	4.6	17

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19	Quality controls, bias, and seasonality of CO ₂ columns in the boreal forest with Orbiting Carbon Observatory-2, Total Carbon Column Observing Network, and EM27/SUN measurements. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 5033-5063.	1.2	22
20	The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.	3.7	1,199
21	A decade of GOSAT Proxy satellite CH ₄ observations. <i>Earth System Science Data</i> , 2020, 12, 3383-3412.	3.7	53
22	Characterizing model errors in chemical transport modeling of methane: impact of model resolution in versions v9-02 of GEOS-Chem and v35j of its adjoint model. <i>Geoscientific Model Development</i> , 2020, 13, 3839-3862.	1.3	27
23	A Geostatistical Framework for Quantifying the Imprint of Mesoscale Atmospheric Transport on Satellite Trace Gas Retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9773-9795.	1.2	12
24	Modelling CO ₂ weather – why horizontal resolution matters. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7347-7376.	1.9	49
25	Emissions of methane in Europe inferred by total column measurements. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3963-3980.	1.9	10
26	Building the Collaborative Carbon Column Observing Network (COCCON): long-term stability and ensemble performance of the EM27/SUN Fourier transform spectrometer. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1513-1530.	1.2	82
27	Evaluation and Analysis of the Seasonal Cycle and Variability of the Trend from GOSAT Methane Retrievals. <i>Remote Sensing</i> , 2019, 11, 882.	1.8	17
28	Solar Occultation FTIR Spectrometry at Mars for Trace Gas Detection: A Sensitivity Study. <i>Earth and Space Science</i> , 2019, 6, 836-860.	1.1	3
29	Using a speed-dependent Voigt line shape to retrieve O ₂ from Total Carbon Column Observing Network solar spectra to improve measurements of XCO ₂ . <i>Atmospheric Measurement Techniques</i> , 2019, 12, 35-50.	1.2	20
30	Improving the TROPOMI CO data product: update of the spectroscopic database and destriping of single orbits. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5443-5455.	1.2	29
31	Evaluation of MOPITT Version 7 joint TIR–NIR XCO ₂ retrievals with TCCON. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5547-5572.	1.2	21
32	A scientific algorithm to simultaneously retrieve carbon monoxide and methane from TROPOMI onboard Sentinel-5 Precursor. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 6771-6802.	1.2	71
33	The Atmospheric Imaging Mission for Northern Regions: AIM-North. <i>Canadian Journal of Remote Sensing</i> , 2019, 45, 423-442.	1.1	14
34	Inference for Errors-in-Variables Models in the Presence of Systematic Errors with an Application to a Satellite Remote Sensing Campaign. <i>Technometrics</i> , 2019, 61, 187-201.	1.3	7
35	High-resolution inversion of methane emissions in the Southeast US using SEAC ₄ RS aircraft observations of atmospheric methane: anthropogenic and wetland sources. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6483-6491.	1.9	38
36	Detecting drought impact on terrestrial biosphere carbon fluxes over contiguous US with satellite observations. <i>Environmental Research Letters</i> , 2018, 13, 095003.	2.2	22

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37	Improved retrievals of carbon dioxide from Orbiting Carbon Observatory-2 with the version 8 ACOS algorithm. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6539-6576.	1.2	188
38	Southern California megacity CO ₂ , CH ₄ , and CO flux estimates using ground- and space-based remote sensing and a Lagrangian model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16271-16291.	1.9	56
39	Response to Comment on "Contrasting carbon cycle responses of the tropical continents to the 2015–2016 El Niño". <i>Science</i> , 2018, 362, .	6.0	6
40	Evaluating GPP and Respiration Estimates Over Northern Midlatitude Ecosystems Using Solar-Induced Fluorescence and Atmospheric CO ₂ Measurements. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2976-2997.	1.3	21
41	Statistical properties of atmospheric greenhouse gas measurements: Looking down from space and looking up from the ground. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2017, 162, 214-222.	1.8	4
42	Global satellite observations of column-averaged carbon dioxide and methane: The GHG-CCI XCO ₂ and XCH ₄ CRDP3 data set. <i>Remote Sensing of Environment</i> , 2017, 203, 276-295.	4.6	52
43	Using high-resolution laboratory and ground-based solar spectra to assess CH ₄ absorption coefficient calculations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 190, 48-59.	1.1	9
44	Preflight Spectral Calibration of the Orbiting Carbon Observatory 2. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 2499-2508.	2.7	24
45	Contrasting carbon cycle responses of the tropical continents to the 2015–2016 El Niño. <i>Science</i> , 2017, 358, .	6.0	307
46	The Orbiting Carbon Observatory-2 early science investigations of regional carbon dioxide fluxes. <i>Science</i> , 2017, 358, .	6.0	157
47	The Orbiting Carbon Observatory (OCO-2) tracks 2–3 peta-gram increase in carbon release to the atmosphere during the 2014–2016 El Niño. <i>Scientific Reports</i> , 2017, 7, 13567.	1.6	35
48	Quantifying CO ₂ Emissions From Individual Power Plants From Space. <i>Geophysical Research Letters</i> , 2017, 44, 10,045.	1.5	174
49	Global and Brazilian Carbon Response to El Niño Modoki 2011–2010. <i>Earth and Space Science</i> , 2017, 4, 637-660.	1.1	49
50	Validation of GOSAT SWIR XCO ₂ and XCH ₄ Retrieved by PPDF-S Method and Comparison with Full Physics Method. <i>Scientific Online Letters on the Atmosphere</i> , 2017, 13, 168-173.	0.6	6
51	Variability and quasi-decadal changes in the methane budget over the period 2000–2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11135-11161.	1.9	85
52	Study of the footprints of short-term variation in XCO ₂ observed by TCCON sites using NIES and FLEXPART atmospheric transport models. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 143-157.	1.9	10
53	Methane emissions from dairies in the Los Angeles Basin. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7509-7528.	1.9	45
54	The Orbiting Carbon Observatory-2: first 18 months of science data products. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 549-563.	1.2	180

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55	Comparisons of the Orbiting Carbon Observatory-2 (OCO-2) X_{CO_2} measurements with TCCON. Atmospheric Measurement Techniques, 2017, 10, 2209-2238.		
56	The on-orbit performance of the Orbiting Carbon Observatory-2 (OCO-2) instrument and its radiometrically calibrated products. Atmospheric Measurement Techniques, 2017, 10, 59-81.	1.2	271
57	Intercomparability of X_{CO_2} and X_{CH_4} from the United States TCCON sites. Atmospheric Measurement Techniques, 2017, 10, 1481-1493.	1.2	16
58	Emissions and topographic effects on column CO ₂ (X_{CO_2}) variations, with a focus on the Southern California Megacity. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7200-7215.	1.2	22
59	Bias corrections of GOSAT SWIR X_{CO_2} and X_{CH_4} with TCCON data and their evaluation using aircraft Assessment of errors and biases in retrievals of Atmospheric Measurement Techniques, 2016, 9, 3491-3512.	1.2	40
60	X_{CO_2} , X_{CH_4} , X_{CO} , and X_{N_2O} from a 0.5 cm ⁻¹ resolution solar-viewing spectrometer. Atmospheric Measurement Techniques, 2016, 9, 3513-3525.	1.2	45
61	Mea GF12: an experimental algorithm for vertical profile retrieval from near-IR spectra. Atmospheric Measurement Techniques, 2016, 9, 3513-3525.	1.2	24
62	Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. Atmospheric Measurement Techniques, 2016, 9, 683-709.	1.2	80
63	Improved retrieval of gas abundances from near-infrared solar FTIR spectra measured at the Karlsruhe TCCON station. Atmospheric Measurement Techniques, 2016, 9, 669-682.	1.2	23
64	Comparison of H ₂ O Retrieved from GOSAT Short-Wavelength Infrared Spectra with Observations from the TCCON Network. Remote Sensing, 2016, 8, 414.	1.8	20
65	Seasonal variability of stratospheric methane: implications for constraining tropospheric methane budgets using total column observations. Atmospheric Chemistry and Physics, 2016, 16, 14003-14024.	1.9	24
66	Quantifying the loss of processed natural gas within California's South Coast Air Basin using long-term measurements of ethane and methane. Atmospheric Chemistry and Physics, 2016, 16, 14091-14105.	1.9	48
67	Improving atmospheric CO ₂ retrievals using line mixing and speed-dependence when fitting high-resolution ground-based solar spectra. Journal of Molecular Spectroscopy, 2016, 323, 15-27.	0.4	10
68	The global methane budget 2000–2012. Earth System Science Data, 2016, 8, 697-751.	3.7	824
69	Estimating global and North American methane emissions with high spatial resolution using GOSAT satellite data. Atmospheric Chemistry and Physics, 2015, 15, 7049-7069.	1.9	225
70	Consistent satellite X_{CO_2} retrievals from SCIAMACHY and GOSAT using the BESD algorithm. Atmospheric Measurement Techniques, 2015, 8, 2961-2980.	1.2	45
71	The Orbiting Carbon Observatory (OCO-2): spectrometer performance evaluation using pre-launch direct sun measurements. Atmospheric Measurement Techniques, 2015, 8, 301-313.	1.2	113
72	The Greenhouse Gas Climate Change Initiative (GHG-CCI): Comparison and quality assessment of near-surface-sensitive satellite-derived CO ₂ and CH ₄ global data sets. Remote Sensing of Environment, 2015, 162, 344-362.	4.6	112

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73	The impact of spectral resolution on satellite retrieval accuracy of CO ₂ and CH ₄ . Atmospheric Measurement Techniques, 2014, 7, 1105-1119.	1.2	6
74	A method for colocating satellite data to ground-based data and its application to ACOS-GOSAT and TCCON. Atmospheric Measurement Techniques, 2014, 7, 2631-2644.	1.2	35
75	Derivation of tropospheric methane from TCCON CH ₄ and HF total column observations. Atmospheric Measurement Techniques, 2014, 7, 2907-2918.	1.2	28
76	The Greenhouse Gas Climate Change Initiative (GHG-CCI): comparative validation of GHG-CCI SCIAMACHY/ENVISAT and TANSO-FTS/GOSAT CO ₂ and CH ₄ retrieval algorithm products with measurements from the TCCON. Atmospheric Measurement Techniques, 2014, 7, 1723-1744.	1.2	70
77	Four corners: The largest US methane anomaly viewed from space. Geophysical Research Letters, 2014, 41, 6898-6903.	1.5	142
78	Inferring regional sources and sinks of atmospheric CO ₂ from GOSAT XCO ₂ data. Atmospheric Chemistry and Physics, 2014, 14, 3703-3727.	1.9	120
79	A multi-year methane inversion using SCIAMACHY, accounting for systematic errors using TCCON measurements. Atmospheric Chemistry and Physics, 2014, 14, 3991-4012.	1.9	106
80	Drivers of column-average CO ₂ variability at Southern Hemispheric Total Carbon Column Observing Network sites. Atmospheric Chemistry and Physics, 2014, 14, 9883-9901.	1.9	18
81	Forecasting global atmospheric CO ₂ . Atmospheric Chemistry and Physics, 2014, 14, 11959-11983.	1.9	74
82	Simultaneous retrieval of atmospheric CO ₂ and light path modification from space-based spectroscopic observations of greenhouse gases: methodology and application to GOSAT measurements over TCCON sites. Applied Optics, 2013, 52, 1339.	0.9	15
83	Improvement of the retrieval algorithm for GOSAT SWIR XCO ₂ and XCH ₄ and their validation using TCCON data. Atmospheric Measurement Techniques, 2013, 6, 1533-1547.	1.2	261
84	Semi-autonomous sounding selection for OCO-2. Atmospheric Measurement Techniques, 2013, 6, 2851-2864.	1.2	29
85	Water vapor isotopologue retrievals from high-resolution GOSAT shortwave infrared spectra. Atmospheric Measurement Techniques, 2013, 6, 263-274.	1.2	58
86	Profiling tropospheric CO ₂ using Aura TES and TCCON instruments. Atmospheric Measurement Techniques, 2013, 6, 63-79.	1.2	17
87	Evaluation of seasonal atmosphere-biosphere exchange estimations with TCCON measurements. Atmospheric Chemistry and Physics, 2013, 13, 5103-5115.	1.9	28
88	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space. Part 2: Algorithm intercomparison in the GOSAT data processing for CO ₂ retrievals over TCCON sites. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1493-1512.	1.2	46
89	Towards constraints on fossil fuel emissions from total column carbon dioxide. Atmospheric Chemistry and Physics, 2013, 13, 4349-4357.	1.9	79
90	The covariation of Northern Hemisphere summertime CO ₂ with surface temperature in boreal regions. Atmospheric Chemistry and Physics, 2013, 13, 9447-9459.	1.9	42

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91	Simulations of column-averaged CO ₂ and CH ₄ using the NIES TM with a hybrid sigma-isentropic (σ - η) vertical coordinate. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1713-1732.	1.9	42
92	Calibration of sealed HCl cells used for TCCON instrumental line shape monitoring. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 3527-3537.	1.2	36
93	Improved water vapour spectroscopy in the 4174–4300 cm ⁻¹ region and its impact on SCIAMACHY HDO/H ₂ O measurements. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 879-894.	1.2	30
94	Corrigendum to "The ACOS CO ₂ retrieval algorithm" Part 1: Description and validation against synthetic observations" published in <i>Atmos. Meas. Tech.</i> , 5, 99–121, 2012. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 193-193.	1.2	8
95	The ACOS CO ₂ retrieval algorithm "Part 1: Description and validation against synthetic observations. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 99-121.	1.2	530
96	CH ₄ , CO, and H ₂ O spectroscopy for the Sentinel-5 Precursor mission: an assessment with the Total Carbon Column Observing Network measurements. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 1387-1398.	1.2	26
97	Aircraft measurements of carbon dioxide and methane for the calibration of ground-based high-resolution Fourier Transform Spectrometers and a comparison to GOSAT data measured over Tsukuba and Moshiri. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2003-2012.	1.2	43
98	The ACOS CO ₂ retrieval algorithm "Part II: Global XCO ₂ data characterization. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 687-707.	1.2	320
99	Atmospheric greenhouse gases retrieved from SCIAMACHY: comparison to ground-based FTS measurements and model results. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1527-1540.	1.9	86
100	Technical Note: Latitude-time variations of atmospheric column-average dry air mole fractions of CO ₂ , CH ₄ and N ₂ O. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7767-7777.	1.9	25
101	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space: Validation of PPDF-based CO ₂ retrievals from GOSAT. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	42
102	Atmospheric validation of high accuracy CO ₂ absorption coefficients for the OCO-2 mission. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 2265-2276.	1.1	82
103	Process evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	114
104	Atmospheric carbon dioxide retrieved from the Greenhouse gases Observing SATellite (GOSAT): Comparison with ground-based TCCON observations and GEOS-Chem model calculations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	139
105	On the Sources of Methane to the Los Angeles Atmosphere. <i>Environmental Science & Technology</i> , 2012, 46, 9282-9289.	4.6	126
106	The imprint of surface fluxes and transport on variations in total column carbon dioxide. <i>Biogeosciences</i> , 2012, 9, 875-891.	1.3	98
107	Fourier transform spectrometer remote sensing of O ₂ A-band electric quadrupole transitions. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1043-1050.	1.1	4
108	Vertically constrained CO ₂ retrievals from TCCON measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1753-1761.	1.1	26

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109	Retrieval of atmospheric CO ₂ with enhanced accuracy and precision from SCIAMACHY: Validation with FTS measurements and comparison with model results. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	153
110	Methane observations from the Greenhouse Gases Observing SATellite: Comparison to ground-based TCCON data and model calculations. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	211
111	Toward accurate CO ₂ and CH ₄ observations from GOSAT. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	355
112	Global CO ₂ fluxes inferred from surface air-sample measurements and from TCCON retrievals of the CO ₂ total column. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	85
113	Calibration of TCCON column-averaged CO ₂ ; the first aircraft campaign over European TCCON sites. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10765-10777.	1.9	120
114	A method for evaluating bias in global measurements of CO ₂ total columns from space. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12317-12337.	1.9	279
115	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1989-2013.	1.9	266
116	Daily and 3-hourly variability in global fire emissions and consequences for atmospheric model predictions of carbon monoxide. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	200
117	The Total Carbon Column Observing Network. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2087-2112.	1.6	884
118	Preliminary validation of column-averaged volume mixing ratios of carbon dioxide and methane retrieved from GOSAT short-wavelength infrared spectra. <i>Atmospheric Measurement Techniques</i> , 2011, 4, 1061-1076.	1.2	217
119	Total column CO ₂ measurements at Darwin, Australia " site description and calibration against in situ aircraft profiles. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 947-958.	1.2	131
120	Calibration of the Total Carbon Column Observing Network using aircraft profile data. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1351-1362.	1.2	441
121	Emissions of greenhouse gases from a North American megacity. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	208
122	Laboratory procedure for simulating nadir measurements with the ACE-FTS. <i>Canadian Journal of Remote Sensing</i> , 2008, 34, 601-607.	1.1	0
123	Simultaneous ground-based observations of O ₃ , HCl, N ₂ O, and CH ₄ over Toronto, Canada by three Fourier transform spectrometers with different resolutions. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1275-1292.	1.9	27
124	Intercomparison of ground-based ozone and NO ₂ measurements during the MANTRA 2004 campaign. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5489-5499.	1.9	7
125	Balloon-borne radiometer measurements of Northern Hemisphere mid-latitude stratospheric HNO ₃ profiles spanning 12 years. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 6075-6084.	1.9	3
126	Climatology and predictability of the late summer stratospheric zonal wind turnaround over Vanscoy, Saskatchewan. <i>Atmosphere - Ocean</i> , 2005, 43, 301-313.	0.6	18

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127	MANTRA â€•A Balloon Mission to Study the Oddâ€•Nitrogen Budget of the Stratosphere. <i>Atmosphere - Ocean</i> , 2005, 43, 283-299.	0.6	25
128	The concentration profile of nitric acid and other species over Saskatchewan in August 1998: Retrieval from data recorded by thermalâ€•emission radiometry. <i>Atmosphere - Ocean</i> , 2005, 43, 361-376.	0.6	5
129	Scanning the Earth's Limb from a High-Altitude Balloon: The Development and Flight of a New Balloon-Based Pointing System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2002, 19, 618-632.	0.5	12