Debra Wunch

List of Publications by Year
in descending order

129 papers	12,393 citations	41344 49 h-index	29157 104 g-index
203 all docs	203 docs citations	203 times ranked	7771 citing authors

#	Article	IF	Citations
1	An 11-year record of XCO₂ estimates derived from GOSAT measurements using the NASA ACOS version 9 retrieval algorithm. Earth System Science Data, 2022, 14, 325-360.	9.9	17
2	Nitrous Oxide Profiling from Infrared Radiances (NOPIR): Algorithm Description, Application to 10 Years of IASI Observations and Quality Assessment. Remote Sensing, 2022, 14, 1810.	4.0	0
3	Improved calibration procedures for the EM27/SUN spectrometers of the COllaborative Carbon Column Observing Network (COCCON). Atmospheric Measurement Techniques, 2022, 15, 2433-2463.	3.1	10
4	Methane retrieved from TROPOMI: improvement of the data product and validation of the first 2 years of measurements. Atmospheric Measurement Techniques, 2021, 14, 665-684.	3.1	104
5	Regional and Urban Column CO Trends and Anomalies as Observed by MOPITT Over 16ÂYears. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033967.	3.3	10
6	Retrieval of atmospheric CO₂ vertical profiles from ground-based near-infrared spectra. Atmospheric Measurement Techniques, 2021, 14, 3087-3118.	3.1	14
7	The Facility Level and Area Methane Emissions inventory for the Greater Toronto Area (FLAME-GTA). Atmospheric Environment, 2021, 252, 118319.	4.1	4
8	Characterizing model errors in chemical transport modeling of methane: using GOSAT XCH₄ data with weak-constraint four-dimensional variational data assimilation. Atmospheric Chemistry and Physics, 2021, 21, 9545-9572.	4.9	14
9	Validation of methane and carbon monoxide from Sentinel-5 Precursor using TCCON and NDACC-IRWG stations. Atmospheric Measurement Techniques, 2021, 14, 6249-6304.	3.1	57
10	Methane Growth Rate Estimation and Its Causes in Western Canada Using Satellite Observations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033948.	3.3	1
11	Spatial distributions of <i>X</i>_{CO₂} seasonal cycle amplitude and phase over northern high-latitude regions. Atmospheric Chemistry and Physics, 2021, 21, 16661-16687.	4.9	10
12	Assessing the feasibility of using a neural network to filter Orbiting Carbon ObservatoryÂ2 (OCO-2) retrievals at northern high latitudes. Atmospheric Measurement Techniques, 2021, 14, 7511-7524.	3.1	4
13	Bias Correction of the Ratio of Total Column CH4 to CO2 Retrieved from GOSAT Spectra. Remote Sensing, 2020, 12, 3155.	4.0	2
14	Toward High Precision XCO₂Retrievals From TanSat Observations: Retrieval Improvement and Validation Against TCCON Measurements. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032794.	3.3	25
15	Validation of Carbon Trace Gas Profile Retrievals from the NOAA-Unique Combined Atmospheric Processing System for the Cross-Track Infrared Sounder. Remote Sensing, 2020, 12, 3245.	4.0	23
16	Improved Constraints on Northern Extratropical CO₂ Fluxes Obtained by Combining Surfaceâ€Based and Spaceâ€Based Atmospheric CO₂ Measurements. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032029.	3.3	26
17	Monitoring Urban Greenhouse Gases Using Open-Path Fourier Transform Spectroscopy. Atmosphere - Ocean, 2020, 58, 25-45.	1.6	10
18	Investigation of the Spatial Distribution of Methane Sources in the Greater Toronto Area Using Mobile Gas Monitoring Systems. Environmental Science & Technology, 2020, 54, 15671-15679.	10.0	17

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19	Quality controls, bias, and seasonality of CO₂ columns in the boreal forest with Orbiting Carbon Observatory-2, Total Carbon Column Observing Network, and EM27/SUN measurements. Atmospheric Measurement Techniques, 2020, 13, 5033-5063.	3.1	22
20	The Global Methane Budget 2000â€“2017. Earth System Science Data, 2020, 12, 1561-1623.	9.9	1,199
21	A decade of GOSAT Proxy satellite CH₄ observations. Earth System Science Data, 2020, 12, 3383-3412.	9.9	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. Geoscientific Model Development, 2020, 13, 3839-3862.	3.6	27
23	A Geostatistical Framework for Quantifying the Imprint of Mesoscale Atmospheric Transport on Satellite Trace Gas Retrievals. Journal of Geophysical Research D: Atmospheres, 2019, 124, 9773-9795.	3.3	12
24	Modelling CO₂ weather â€“ why horizontal resolution matters. Atmospheric Chemistry and Physics, 2019, 19, 7347-7376.	4.9	49
25	Emissions of methane in Europe inferred by total column measurements. Atmospheric Chemistry and Physics, 2019, 19, 3963-3980.	4.9	10
26	Building the COllaborative Carbon Column Observing Network (COCCON): long-term stability and ensemble performance of the EM27/SUN Fourier transform spectrometer. Atmospheric Measurement Techniques, 2019, 12, 1513-1530.	3.1	82
27	Evaluation and Analysis of the Seasonal Cycle and Variability of the Trend from GOSAT Methane Retrievals. Remote Sensing, 2019, 11, 882.	4.0	17
28	Solar Occultation FTIR Spectrometry at Mars for Trace Gas Detection: A Sensitivity Study. Earth and Space Science, 2019, 6, 836-860.	2.6	3
29	Using a speed-dependent Voigt line shape to retrieve O₂ from Total Carbon Column Observing Network solar spectra to improve measurements of XCO₂. Atmospheric Measurement Techniques, 2019, 12, 35-50.	3.1	20
30	Improving the TROPOMI CO data product: update of the spectroscopic database and destriping of single orbits. Atmospheric Measurement Techniques, 2019, 12, 5443-5455.	3.1	29
31	Evaluation of MOPITT VersionÂ7 joint TIRâ€“NIR X_{CO} retrievals with TCCON. Atmospheric Measurement Techniques, 2019, 12, 5547-5572.	3.1	21
32	A scientific algorithm to simultaneously retrieve carbon monoxide and methane from TROPOMI onboard Sentinel-5 Precursor. Atmospheric Measurement Techniques, 2019, 12, 6771-6802.	3.1	71
33	The Atmospheric Imaging Mission for Northern Regions: AIM-North. Canadian Journal of Remote Sensing, 2019, 45, 423-442.	2.4	14
34	Inference for Errors-in-Variables Models in the Presence of Systematic Errors with an Application to a Satellite Remote Sensing Campaign. Technometrics, 2019, 61, 187-201.	1.9	7
35	High-resolution inversion of methane emissions in the Southeast US using SEAC⁴RS aircraft observations of atmospheric methane: anthropogenic and wetland sources. Atmospheric Chemistry and Physics, 2018, 18, 6483-6491.	4.9	38
36	Detecting drought impact on terrestrial biosphere carbon fluxes over contiguous US with satellite observations. Environmental Research Letters, 2018, 13, 095003.	5.2	22

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37	Improved retrievals of carbon dioxide from Orbiting Carbon Observatory-2 with the version 8 ACOS algorithm. Atmospheric Measurement Techniques, 2018, 11, 6539-6576.	3.1	188
38	Southern California megacity CO₂, CH₄, and CO flux estimates using ground- and space-based remote sensing and a Lagrangian model. Atmospheric Chemistry and Physics, 2018, 18, 16271-16291.	4.9	56
39	Response to Comment on â€œContrasting carbon cycle responses of the tropical continents to the 2015â€“2016 El NiÃ±oâ€• Science, 2018, 362, .	12.6	6
40	Evaluating GPP and Respiration Estimates Over Northern Midlatitude Ecosystems Using Solarâ€Induced Fluorescence and Atmospheric CO₂ Measurements. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2976-2997.	3.0	21
41	Statistical properties of atmospheric greenhouse gas measurements: Looking down from space and looking up from the ground. Chemometrics and Intelligent Laboratory Systems, 2017, 162, 214-222.	3.5	4
42	Global satellite observations of column-averaged carbon dioxide and methane: The GHG-CCI XCO2 and XCH4 CRDP3 data set. Remote Sensing of Environment, 2017, 203, 276-295.	11.0	52
43	Using high-resolution laboratory and ground-based solar spectra to assess CH4 absorption coefficient calculations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 190, 48-59.	2.3	9
44	Preflight Spectral Calibration of the Orbiting Carbon Observatory 2. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 2499-2508.	6.3	24
45	Contrasting carbon cycle responses of the tropical continents to the 2015â€“2016 El NiÃ±o. Science, 2017, 358, .	12.6	307
46	The Orbiting Carbon Observatory-2 early science investigations of regional carbon dioxide fluxes. Science, 2017, 358, .	12.6	157
47	The Orbiting Carbon Observatory (OCO-2) tracks 2â€“3 peta-gram increase in carbon release to the atmosphere during the 2014â€“2016 El NiÃ±o. Scientific Reports, 2017, 7, 13567.	3.3	35
48	Quantifying CO₂ Emissions From Individual Power Plants From Space. Geophysical Research Letters, 2017, 44, 10,045.	4.0	174
49	Global and Brazilian Carbon Response to El NiÃ±o Modoki 2011â€“2010. Earth and Space Science, 2017, 4, 637-660.	2.6	49
50	Validation of GOSAT SWIR XCO₂ and XCH₄ Retrieved by PPDF-S Method and Comparison with Full Physics Method. Scientific Online Letters on the Atmosphere, 2017, 13, 168-173.	1.4	6
51	Variability and quasi-decadal changes in the methane budget over the period 2000â€“2012. Atmospheric Chemistry and Physics, 2017, 17, 11135-11161.	4.9	85
52	Study of the footprints of short-term variation in XCO₂ observed by TCCON sites using NIES and FLEXPART atmospheric transport models. Atmospheric Chemistry and Physics, 2017, 17, 143-157.	4.9	10
53	Methane emissions from dairies in the Los Angeles Basin. Atmospheric Chemistry and Physics, 2017, 17, 7509-7528.	4.9	45
54	The Orbiting Carbon Observatory-2: first 18Âmonths of science data products. Atmospheric Measurement Techniques, 2017, 10, 549-563.	3.1	180

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55	Comparisons of the Orbiting Carbon Observatory-2 (OCO-2) <i>X</i>_{CO₂} measurements with TCCON. Atmospheric Measurement Techniques, 2017, 10, 2209-2238.		25
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.	3.1	271
57	Intercomparability of X_{CO₂} and X_{CH₄} from the United States TCCON sites. Atmospheric Measurement Techniques, 2017, 10, 1481-1493.	3.1	16
58	Emissions and topographic effects on column CO 2 () variations, with a focus on the Southern California Megacity. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7200-7215.	3.3	22
59	Bias corrections of GOSAT SWIR XCO₂ and XCH₄ with TCCON data and their evaluation using aircraft Assessment of errors and biases in retrievals of X_{CO₂}, X_{CH₄}, X_{CO}, and X_{N₂O} from a 0.5 cm^{â€“1} resolution solar-viewing spectrometer. Atmospheric Mea	3.1	40
60	Assessment of errors and biases in retrievals of	3.1	45
61	GFIT2: an experimental algorithm for vertical profile retrieval from near-IR spectra. Atmospheric Measurement Techniques, 2016, 9, 3513-3525.	3.1	24
62	Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. Atmospheric Measurement Techniques, 2016, 9, 683-709.	3.1	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.	3.1	23
64	Comparison of XH2O Retrieved from GOSAT Short-Wavelength Infrared Spectra with Observations from the TCCON Network. Remote Sensing, 2016, 8, 414.	4.0	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.	4.9	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.	4.9	48
67	Improving atmospheric CO2 retrievals using line mixing and speed-dependence when fitting high-resolution ground-based solar spectra. Journal of Molecular Spectroscopy, 2016, 323, 15-27.	1.2	10
68	The global methane budget 2000â€“2012. Earth System Science Data, 2016, 8, 697-751.	9.9	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.	4.9	225
70	Consistent satellite XCO₂ retrievals from SCIAMACHY and GOSAT using the BESD algorithm. Atmospheric Measurement Techniques, 2015, 8, 2961-2980.	3.1	45
71	The Orbiting Carbon Observatory (OCO-2): spectrometer performance evaluation using pre-launch direct sun measurements. Atmospheric Measurement Techniques, 2015, 8, 301-313.	3.1	113
72	The Greenhouse Gas Climate Change Initiative (GHG-CCI): Comparison and quality assessment of near-surface-sensitive satellite-derived CO2 and CH4 global data sets. Remote Sensing of Environment, 2015, 162, 344-362.	11.0	112

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73	The impact of spectral resolution on satellite retrieval accuracy of CO₂ and CH₄. Atmospheric Measurement Techniques, 2014, 7, 1105-1119.	3.1	6
74	A method for colocating satellite <i>X</i>_{CO₂} data to ground-based data and its application to ACOS-GOSAT and TCCON. Atmospheric Measurement Techniques, 2014, 7, 2631-2644.	3.1	35
75	Derivation of tropospheric methane from TCCON CH₄ and HF total column observations. Atmospheric Measurement Techniques, 2014, 7, 2907-2918.	3.1	28
76	The Greenhouse Gas Climate Change Initiative (GHG-CCI): comparative validation of GHG-CCI SCIAMACHY/ENVISAT and TANSO-FTS/GOSAT CO₂ and CH₄ retrieval algorithm products with measurements from the TCCON. Atmospheric Measurement Techniques, 2014, 7, 1723-1744.	3.1	70
77	Four corners: The largest US methane anomaly viewed from space. Geophysical Research Letters, 2014, 41, 6898-6903.	4.0	142
78	Inferring regional sources and sinks of atmospheric CO₂ from GOSAT XCO₂ data. Atmospheric Chemistry and Physics, 2014, 14, 3703-3727.	4.9	120
79	A multi-year methane inversion using SCIAMACHY, accounting for systematic errors using TCCON measurements. Atmospheric Chemistry and Physics, 2014, 14, 3991-4012.	4.9	106
80	Drivers of column-average CO₂ variability at Southern Hemispheric Total Carbon Column Observing Network sites. Atmospheric Chemistry and Physics, 2014, 14, 9883-9901.	4.9	18
81	Forecasting global atmospheric CO₂. Atmospheric Chemistry and Physics, 2014, 14, 11959-11983.	4.9	74
82	Simultaneous retrieval of atmospheric CO₂ 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.	1.8	15
83	Improvement of the retrieval algorithm for GOSAT SWIR XCO₂ and XCH₄ and their validation using TCCON data. Atmospheric Measurement Techniques, 2013, 6, 1533-1547.	3.1	261
84	Semi-autonomous sounding selection for OCO-2. Atmospheric Measurement Techniques, 2013, 6, 2851-2864.	3.1	29
85	Water vapor isotopologue retrievals from high-resolution GOSAT shortwave infrared spectra. Atmospheric Measurement Techniques, 2013, 6, 263-274.	3.1	58
86	Profiling tropospheric CO₂ using Aura TES and TCCON instruments. Atmospheric Measurement Techniques, 2013, 6, 63-79.	3.1	17
87	Evaluation of seasonal atmosphereâ€“biosphere exchange estimations with TCCON measurements. Atmospheric Chemistry and Physics, 2013, 13, 5103-5115.	4.9	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 CO₂ retrievals over TCCON sites. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1493-1512.	3.3	46
89	Towards constraints on fossil fuel emissions from total column carbon dioxide. Atmospheric Chemistry and Physics, 2013, 13, 4349-4357.	4.9	79
90	The covariation of Northern Hemisphere summertime CO₂ with surface temperature in boreal regions. Atmospheric Chemistry and Physics, 2013, 13, 9447-9459.	4.9	42

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91	Simulations of column-averaged CO₂ and CH₄ using the NIES TM with a hybrid sigma-isentropic (Ïƒ-Î¸) vertical coordinate. Atmospheric Chemistry and Physics, 2013, 13, 1713-1732.	4.9	42
92	Calibration of sealed HCl cells used for TCCON instrumental line shape monitoring. Atmospheric Measurement Techniques, 2013, 6, 3527-3537.	3.1	36
93	Improved water vapour spectroscopy in the 4174â€“4300 cm^{â^'1} region and its impact on SCIAMACHY HDO/H₂O measurements. Atmospheric Measurement Techniques, 2013, 6, 879-894.	3.1	30
94	Corrigendum to "The ACOS CO₂ retrieval algorithm â€“ Part 1: Description and validation against synthetic observations" published in Atmos. Meas. Tech., 5, 99â€“121, 2012. Atmospheric Measurement Techniques, 2012, 5, 193-193.	3.1	8
95	The ACOS CO₂ retrieval algorithm â€“ Part 1: Description and validation against synthetic observations. Atmospheric Measurement Techniques, 2012, 5, 99-121.	3.1	530
96	CH₄, CO, and H₂O spectroscopy for the Sentinel-5 Precursor mission: an assessment with the Total Carbon Column Observing Network measurements. Atmospheric Measurement Techniques, 2012, 5, 1387-1398.	3.1	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. Atmospheric Measurement Techniques, 2012, 5, 2003-2012.	3.1	43
98	The ACOS CO₂ retrieval algorithm â€“ Part II: Global X_{CO₂} data characterization. Atmospheric Measurement Techniques, 2012, 5, 687-707.	3.1	320
99	Atmospheric greenhouse gases retrieved from SCIAMACHY: comparison to ground-based FTS measurements and model results. Atmospheric Chemistry and Physics, 2012, 12, 1527-1540.	4.9	86
100	Technical Note: Latitude-time variations of atmospheric column-average dry air mole fractions of CO₂, CH₄ and N₂O. Atmospheric Chemistry and Physics, 2012, 12, 7767-7777.	4.9	25
101	Effects of atmospheric light scattering on spectroscopic observations of greenhouse gases from space: Validation of PPDFâ€based CO₂ retrievals from GOSAT. Journal of Geophysical Research, 2012, 117, .	3.3	42
102	Atmospheric validation of high accuracy CO2 absorption coefficients for the OCO-2 mission. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 2265-2276.	2.3	82
103	Processâ€evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations. Journal of Geophysical Research, 2012, 117, .	3.3	114
104	Atmospheric carbon dioxide retrieved from the Greenhouse gases Observing SATellite (GOSAT): Comparison with groundâ€based TCCON observations and GEOSâ€Chem model calculations. Journal of Geophysical Research, 2012, 117, .	3.3	139
105	On the Sources of Methane to the Los Angeles Atmosphere. Environmental Science & Technology, 2012, 46, 9282-9289.	10.0	126
106	The imprint of surface fluxes and transport on variations in total column carbon dioxide. Biogeosciences, 2012, 9, 875-891.	3.3	98
107	Fourier transform spectrometer remote sensing of O2 A-band electric quadrupole transitions. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1043-1050.	2.3	4
108	Vertically constrained CO2 retrievals from TCCON measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1753-1761.	2.3	26

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109	Retrieval of atmospheric CO₂with enhanced accuracy and precision from SCIAMACHY: Validation with FTS measurements and comparison with model results. Journal of Geophysical Research, 2011, 116, .	3.3	153
110	Methane observations from the Greenhouse Gases Observing SATellite: Comparison to groundâ€based TCCON data and model calculations. Geophysical Research Letters, 2011, 38, .	4.0	211
111	Toward accurate CO₂and CH₄observations from GOSAT. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	355
112	Global CO₂fluxes inferred from surface air-sample measurements and from TCCON retrievals of the CO₂total column. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	85
113	Calibration of TCCON column-averaged CO₂: the first aircraft campaign over European TCCON sites. Atmospheric Chemistry and Physics, 2011, 11, 10765-10777.	4.9	120
114	A method for evaluating bias in global measurements of CO₂ total columns from space. Atmospheric Chemistry and Physics, 2011, 11, 12317-12337.	4.9	279
115	Importance of secondary sources in the atmospheric budgets of formic and acetic acids. Atmospheric Chemistry and Physics, 2011, 11, 1989-2013.	4.9	266
116	Daily and 3-hourly variability in global fire emissions and consequences for atmospheric model predictions of carbon monoxide. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	200
117	The Total Carbon Column Observing Network. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 2087-2112.	3.4	884
118	Preliminary validation of column-averaged volume mixing ratios of carbon dioxide and methane retrieved from GOSAT short-wavelength infrared spectra. Atmospheric Measurement Techniques, 2011, 4, 1061-1076.	3.1	217
119	Total column CO₂ measurements at Darwin, Australia â€“ site description and calibration against in situ aircraft profiles. Atmospheric Measurement Techniques, 2010, 3, 947-958.	3.1	131
120	Calibration of the Total Carbon Column Observing Network using aircraft profile data. Atmospheric Measurement Techniques, 2010, 3, 1351-1362.	3.1	441
121	Emissions of greenhouse gases from a North American megacity. Geophysical Research Letters, 2009, 36, .	4.0	208
122	Laboratory procedure for simulating nadir measurements with the ACE-FTS. Canadian Journal of Remote Sensing, 2008, 34, 601-607.	2.4	0
123	Simultaneous ground-based observations of O₃, HCl, N₂O, and CH₄ over Toronto, Canada by three Fourier transform spectrometers with different resolutions. Atmospheric Chemistry and Physics, 2007, 7, 1275-1292.	4.9	27
124	Intercomparison of ground-based ozone and NO₂ measurements during the MANTRA 2004 campaign. Atmospheric Chemistry and Physics, 2007, 7, 5489-5499.	4.9	7
125	Balloon-borne radiometer measurements of Northern Hemisphere mid-latitude stratospheric HNO₃ profiles spanning 12 years. Atmospheric Chemistry and Physics, 2007, 7, 6075-6084.	4.9	3
126	Climatology and predictability of the late summer stratospheric zonal wind turnaround over Vanscoy, Saskatchewan. Atmosphere - Ocean, 2005, 43, 301-313.	1.6	18

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127	MANTRA â€•A Balloon Mission to Study the Oddâ€Nitrogen Budget of the Stratosphere. Atmosphere - Ocean, 2005, 43, 283-299.	1.6	25
128	The concentration profile of nitric acid and other species over Saskatchewan in August 1998: Retrieval from data recorded by thermalâ€emission radiometry. Atmosphere - Ocean, 2005, 43, 361-376.	1.6	5
129	Scanning the Earth's Limb from a High-Altitude Balloon: The Development and Flight of a New Balloon-Based Pointing System. Journal of Atmospheric and Oceanic Technology, 2002, 19, 618-632.	1.3	12