Kimberly Strong

List of Publications by Year
in descending order

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220 papers	8,796 citations	47004 47 h-index	69246 77 g-index
349 all docs	349 docs citations	349 times ranked	5251 citing authors

#	Article	IF	Citations
1	Atmospheric Chemistry Experiment (ACE): Mission overview. Geophysical Research Letters, 2005, 32, .	4.0	768
2	An overview of the Odin atmospheric mission. Canadian Journal of Physics, 2002, 80, 309-319.	1.1	403
3	The OSIRIS instrument on the Odin spacecraft. Canadian Journal of Physics, 2004, 82, 411-422.	1.1	349
4	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
5	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
6	Comparisons of the Orbiting Carbon Observatory-2 (OCO-2) <i>X</i>_{CO₂} measurements with TCCON. Atmospheric Measurement Techniques, 2017, 10, 2209-2238.	3.1	252
7	Source attribution and interannual variability of Arctic pollution in spring constrained by aircraft (ARCTAS, ARCPAC) and satellite (AIRS) observations of carbon monoxide. Atmospheric Chemistry and Physics, 2010, 10, 977-996.	4.9	189
8	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
9	Ground-based validation of the Copernicus Sentinel-5P TROPOMI NO₂ measurements with the NDACC ZSL-DOAS, MAX-DOAS and Pandonia global networks. Atmospheric Measurement Techniques, 2021, 14, 481-510.	3.1	142
10	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2009, 9, 287-343.	4.9	134
11	Inferring regional sources and sinks of atmospheric CO₂ from GOSAT XCO₂ data. Atmospheric Chemistry and Physics, 2014, 14, 3703-3727.	4.9	120
12	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
13	CO measurements from the ACE-FTS satellite instrument: data analysis and validation using ground-based, airborne and spaceborne observations. Atmospheric Chemistry and Physics, 2008, 8, 2569-2594.	4.9	107
14	Intercomparison of slant column measurements of NO₂ and O₄ by MAX-DOAS and zenith-sky UV and visible spectrometers. Atmospheric Measurement Techniques, 2010, 3, 1629-1646.	3.1	106
15	Comparisons between SCIAMACHY and ground-based FTIR data for total columns of CO, CH₄, CO₂ and N₂O. Atmospheric Chemistry and Physics, 2006, 6, 1953-1976.	4.9	103
16	Analysis of ozone and nitric acid in spring and summer Arctic pollution using aircraft, ground-based, satellite observations and MOZART-4 model: source attribution and partitioning. Atmospheric Chemistry and Physics, 2012, 12, 237-259.	4.9	96
17	Spectroscopic measurements of tropospheric CO, C2H6, C2H2, and HCN in northern Japan. Journal of Geophysical Research, 2002, 107, ACH 2-1.	3.3	95
18	Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl₃F and CCl₂F₂ using space-, balloon- and ground-based instrument observations. Atmospheric Chemistry and Physics, 2008, 8, 6199-6221.	4.9	91

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19	Validation of ACE-FTS v2.2 methane profiles from the upper troposphere to the lower mesosphere. Atmospheric Chemistry and Physics, 2008, 8, 2421-2435.	4.9	85
20	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
21	Detection of stratospheric ozone intrusions by windprofiler radars. Nature, 2007, 450, 281-284.	27.8	84
22	Spectral parameters of self- and hydrogen-broadened methane from 2000 to 9500 cm-1 for remote sounding of the atmosphere of jupiter. Journal of Quantitative Spectroscopy and Radiative Transfer, 1993, 50, 363-429.	2.3	83
23	The Cabauw Intercomparison campaign for Nitrogen Dioxide measuring Instruments (CINDI): design, execution, and early results. Atmospheric Measurement Techniques, 2012, 5, 457-485.	3.1	83
24	Stratospheric ozone profiles retrieved from limb scattered sunlight radiance spectra measured by the OSIRIS instrument on the Odin satellite. Geophysical Research Letters, 2003, 30, .	4.0	82
25	Evaluating ethane and methane emissions associated with the development of oil and natural gas extraction in North America. Environmental Research Letters, 2016, 11, 044010.	5.2	82
26	Consistent evaluation of ACOS-GOSAT, BESD-SCIAMACHY, CarbonTracker, and MACC through comparisons to TCCON. Atmospheric Measurement Techniques, 2016, 9, 683-709.	3.1	80
27	MAX-DOAS formaldehyde slant column measurements during CINDI: intercomparison and analysis improvement. Atmospheric Measurement Techniques, 2013, 6, 167-185.	3.1	78
28	Validation of ACE-FTS N₂O measurements. Atmospheric Chemistry and Physics, 2008, 8, 4759-4786.	4.9	76
29	The high Arctic in extreme winters: vortex, temperature, and MLS and ACE-FTS trace gas evolution. Atmospheric Chemistry and Physics, 2008, 8, 505-522.	4.9	75
30	Validation of HNO₃, ClONO₂, and N₂O₅ from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). Atmospheric Chemistry and Physics, 2008, 8, 3529-3562.	4.9	75
31	Observed and simulated time evolution of HCl, ClONO₂, and HF total column abundances. Atmospheric Chemistry and Physics, 2012, 12, 3527-3556.	4.9	72
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	Ubiquitous atmospheric production of organic acids mediated by cloud droplets. Nature, 2021, 593, 233-237.	27.8	71
34	Ground-based remote sensing of tropospheric water vapour isotopologues within the project MUSICA. Atmospheric Measurement Techniques, 2012, 5, 3007-3027.	3.1	69
35	Assessment of the quality of TROPOMI high-spatial-resolution NO₂ data products in the Greater Toronto Area. Atmospheric Measurement Techniques, 2020, 13, 2131-2159.	3.1	69
36	Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements. Atmospheric Chemistry and Physics, 2008, 8, 35-62.	4.9	68

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37	A New Bruker IFS 125HR FTIR Spectrometer for the Polar Environment Atmospheric Research Laboratory at Eureka, Nunavut, Canada: Measurements and Comparison with the Existing Bomem DA8 Spectrometer. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1328-1340.	1.3	66
38	TROPOMIâ€“Sentinel-5 Precursor formaldehyde validation using an extensive network of ground-based Fourier-transform infrared stations. Atmospheric Measurement Techniques, 2020, 13, 3751-3767.	3.1	66
39	Validation of NO₂ and NO from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2008, 8, 5801-5841.	4.9	64
40	Technical Note: New ground-based FTIR measurements at Ile de La RÃ©union: observations, error analysis, and comparisons with independent data. Atmospheric Chemistry and Physics, 2008, 8, 3483-3508.	4.9	61
41	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
42	Stratospheric profiles of nitrogen dioxide observed by Optical Spectrograph and Infrared Imager System on the Odin satellite. Journal of Geophysical Research, 2003, 108, .	3.3	56
43	An evaluation of IASI-NH₃ with ground-based Fourier transform infrared spectroscopy measurements. Atmospheric Chemistry and Physics, 2016, 16, 10351-10368.	4.9	56
44	Ground-Based Solar Absorption FTIR Spectroscopy: Characterization of Retrievals and First Results from a Novel Optical Design Instrument at a New NDACC Complementary Station. Journal of Atmospheric and Oceanic Technology, 2007, 24, 432-448.	1.3	55
45	A decade of GOSAT Proxy satellite CH₄ observations. Earth System Science Data, 2020, 12, 3383-3412.	9.9	53
46	Quantifying the impact of BOReal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview. Atmospheric Chemistry and Physics, 2013, 13, 6239-6261.	4.9	52
47	Consistent regional fluxes of CH₄ and CO₂ inferred from GOSAT proxy XCH₄â€:â€XCO₂ retrievals, 2010â€“2014. Atmospheric Chemistry and Physics, 2017, 17, 4781-4797.	4.9	52
48	Validation of the CrIS fast physical NH₃ retrieval with ground-based FTIR. Atmospheric Measurement Techniques, 2017, 10, 2645-2667.	3.1	52
49	Intercomparison of NO₂, O₄, O₃ and HCHO slant column measurements by MAX-DOAS and zenith-sky UVâ€“visible spectrometers during CINDI-2. Atmospheric Measurement Techniques, 2020, 13, 2169-2208.	3.1	52
50	COVIDâ€19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. Geophysical Research Letters, 2021, 48, e2020GL091987.	4.0	51
51	Midlatitude observations of the diurnal variation of stratospheric BrO. Journal of Geophysical Research, 1995, 100, 18863.	3.3	45
52	Longâ€range transport of NH₃, CO, HCN, and C₂H₆ from the 2014 Canadian Wildfires. Geophysical Research Letters, 2016, 43, 8286-8297.	4.0	44
53	Validation of MOPITT carbon monoxide using ground-based Fourier transform infrared spectrometer data from NDACC. Atmospheric Measurement Techniques, 2017, 10, 1927-1956.	3.1	44
54	Measurements of O3, NO2and Temperature during the 2004 Canadian Arctic ACE Validation Campaign. Geophysical Research Letters, 2005, 32, .	4.0	43

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55	Revisiting global fossil fuel and biofuel emissions of ethane. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2493-2512.	3.3	43
56	A performance assessment of the World Wide Lightning Location Network (WWLLN) via comparison with the Canadian Lightning Detection Network (CLDN). Atmospheric Measurement Techniques, 2010, 3, 1143-1153.	3.1	39
57	Using XCO₂ retrievals for assessing the long-term consistency of NDACC/FTIR data sets. Atmospheric Measurement Techniques, 2015, 8, 1555-1573.	3.1	39
58	Tropospheric CH₄ signals as observed by NDACC FTIR at globally distributed sites and comparison to GAW surface in situ measurements. Atmospheric Measurement Techniques, 2014, 7, 2337-2360.	3.1	38
59	A case study of a transported bromine explosion event in the Canadian high arctic. Journal of Geophysical Research D: Atmospheres, 2016, 121, 457-477.	3.3	38
60	New nitric oxide (NO) nightglow measurements with SPICAM/MEx as a tracer of Mars upper atmosphere circulation and comparison with LMDâ€MGCM model prediction: Evidence for asymmetric hemispheres. Journal of Geophysical Research E: Planets, 2013, 118, 2172-2179.	3.6	37
61	Ethane (C₂H₆), acetylene (C₂H₂), methane (CH₃OH, HCOOH and H₂CO total columns measured in the Canadian high Arctic. Atmospheric Measurement Techniques, 2014, 7, 1547-1570.	3.1	37
62	Toward a chemical reanalysis in a coupled chemistryâ€climate model: An evaluation of MOPITT CO assimilation and its impact on tropospheric composition. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7310-7343.	3.3	37
63	NDACC harmonized formaldehyde time series from 21 FTIR stations covering a wide range of column abundances. Atmospheric Measurement Techniques, 2018, 11, 5049-5073.	3.1	37
64	A coolable long path absorption cell for laboratory spectroscopic studies of gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 1994, 52, 677-691.	2.3	35
65	Unusually low ozone, HCl, and HNO₃ column measurements at Eureka, Canada during winter/spring 2011. Atmospheric Chemistry and Physics, 2012, 12, 3821-3835.	4.9	34
66	Global land mapping of satellite-observed CO₂ total columns using spatio-temporal geostatistics. International Journal of Digital Earth, 2017, 10, 426-456.	3.9	33
67	The recent increase of atmospheric methane from 10 years of ground-based NDACC FTIR observations since 2005. Atmospheric Chemistry and Physics, 2017, 17, 2255-2277.	4.9	33
68	Intercomparison of MAX-DOAS vertical profile retrieval algorithms: studies on field data from the CINDI-2 campaign. Atmospheric Measurement Techniques, 2021, 14, 1-35.	3.1	32
69	Ammonia and PM2.5 Air Pollution in Paris during the 2020 COVID Lockdown. Atmosphere, 2021, 12, 160.	2.3	32
70	Polar vortex evolution during the 2002 Antarctic major warming as observed by the Odin satellite. Journal of Geophysical Research, 2005, 110, .	3.3	31
71	Technical Note: Validation of Odin/SMR limb observations of ozone, comparisons with OSIRIS, POAM III, ground-based and balloon-borne instruments. Atmospheric Chemistry and Physics, 2008, 8, 3385-3409.	4.9	31
72	Severe 2011 ozone depletion assessed with 11 years of ozone, NO₂, and OClO measurements at 80Â°N. Geophysical Research Letters, 2012, 39, .	4.0	30

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73	An exemplary case of a bromine explosion event linked to cyclone development in the Arctic. Atmospheric Chemistry and Physics, 2016, 16, 1773-1788.	4.9	29
74	Comparisons between ACE-FTS and ground-based measurements of stratospheric HCl and ClONO2loadings at northern latitudes. Geophysical Research Letters, 2005, 32, .	4.0	28
75	OSIRIS: A Decade of Scattered Light. Bulletin of the American Meteorological Society, 2012, 93, 1845-1863.	3.3	28
76	Validation of ACE and OSIRIS ozone and NO₂ measurements using ground-based instruments at 80Â° N. Atmospheric Measurement Techniques, 2012, 5, 927-953.	3.1	28
77	Identifying fire plumes in the Arctic with tropospheric FTIR measurements and transport models. Atmospheric Chemistry and Physics, 2015, 15, 2227-2246.	4.9	28
78	Seasonal variations of HCN over northern Japan measured by ground-based infrared solar spectroscopy. Geophysical Research Letters, 2000, 27, 2085-2088.	4.0	27
79	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
80	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
81	Occurrence of weak, subâ€•micron, tropospheric aerosol events at high Arctic latitudes. Geophysical Research Letters, 2008, 35, .	4.0	26
82	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
83	Detection and attribution of wildfire pollution in the Arctic and northern midlatitudes using a network of Fourier-transform infrared spectrometers and GEOS-Chem. Atmospheric Chemistry and Physics, 2020, 20, 12813-12851.	4.9	26
84	Tropospheric water vapour isotopologue data (H₂¹⁶O,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Earth System Science Data, 2017, 9, 15-29.	9.9	26
85	Zenith-sky observations of stratospheric gases: the sensitivity of air mass factors to geophysical parameters and the influence of tropospheric clouds. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 68, 657-677.	2.3	25
86	MANTRA â€•A Balloon Mission to Study the Oddâ€Nitrogen Budget of the Stratosphere. Atmosphere - Ocean, 2005, 43, 283-299.	1.6	25
87	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
88	Unprecedented Atmospheric Ammonia Concentrations Detected in the High Arctic From the 2017 Canadian Wildfires. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8178-8202.	3.3	25
89	Temperature dependence of self- and N2-broadeningand pressure-induced shifts in the 3â†0 band of CO. Journal of Molecular Structure, 2004, 695-696, 269-286.	3.6	24
90	An evaluation of infrared microwindows for ozone retrievals using the Eureka Bruker 125HR Fourier transform spectrometer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 569-585.	2.3	24

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91	Infrared measurements in the Arctic using two Atmospheric Emitted Radiance Interferometers. Atmospheric Measurement Techniques, 2012, 5, 329-344.	3.1	24
92	Sensitivity of CO₂ surface flux constraints to observational coverage. Journal of Geophysical Research D: Atmospheres, 2017, 122, 6672-6694.	3.3	24
93	Odin observations of Antarctic nighttime NO densities in the mesosphereâ€“lower thermosphere and observations of a lower NO layer. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7414-7425.	3.3	23
94	The impact of the OSIRIS grating efficiency on radiance and trace-gas retrievals. Canadian Journal of Physics, 2002, 80, 469-481.	1.1	22
95	The Polar Environment Atmospheric Research Laboratory UVâ€“visible Ground-Based Spectrometer: First measurements of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si53.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si54.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>NO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn><.	2.3	22
96	Recent Arctic ozone depletion: Is there an impact of climate change?. Comptes Rendus - Geoscience, 2018, 350, 347-353.	1.2	22
97	Ensemble-based satellite-derived carbon dioxide and methane column-averaged dry-air mole fraction data sets (2003â€“2018) for carbon and climate applications. Atmospheric Measurement Techniques, 2020, 13, 789-819.	3.1	22
98	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
99	Evaluation of MOPITT VersionÂ7 joint TIRâ€“NIR X_{CO} retrievals with TCCON. Atmospheric Measurement Techniques, 2019, 12, 5547-5572.	3.1	21
100	Spaceborne Measurements of Formic and Acetic Acids: A Global View of the Regional Sources. Geophysical Research Letters, 2020, 47, e2019GL086239.	4.0	21
101	Visible intracavity laser spectroscopy with a step-scan Fourier-transform interferometer. Applied Optics, 1997, 36, 8533.	2.1	20
102	Retrieval of vertical concentration profiles from OSIRIS UVÂ–visible limb spectra. Canadian Journal of Physics, 2002, 80, 409-434.	1.1	20
103	Nighttime nitric oxide densities in the Southern Hemisphere mesosphereâ€“lower thermosphere. Geophysical Research Letters, 2011, 38, .	4.0	20
104	Towards understanding the variability in biospheric CO₂Âfluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO₂. Atmospheric Chemistry and Physics, 2016, 16, 2123-2138.	4.9	20
105	Investigating differences in DOAS retrieval codes using MAD-CAT campaign data. Atmospheric Measurement Techniques, 2017, 10, 955-978.	3.1	20
106	Characterization of aerosol growth events over Ellesmere Island during the summers of 2015 and 2016. Atmospheric Chemistry and Physics, 2019, 19, 5589-5604.	4.9	20
107	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
108	Gas phase UV and IR absorption spectra of CF3CH2CH2OH and F(CF2CF2)xCH2CH2OH (x=2, 3, 4). Journal of Fluorine Chemistry, 2005, 126, 1288-1296.	1.7	19

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109	Modeled O₂ nightglow distributions in the Venusian atmosphere. Journal of Geophysical Research, 2012, 117, .	3.3	19
110	Measurements of CO, HCN, and C₂H₆Total Columns in Smoke Plumes Transported from the 2010 Russian Boreal Forest Fires to the Canadian High Arctic. Atmosphere - Ocean, 2013, 51, 522-531.	1.6	19
111	Climatology and predictability of the late summer stratospheric zonal wind turnaround over Vanscoy, Saskatchewan. Atmosphere - Ocean, 2005, 43, 301-313.	1.6	18
112	Intercomparison of UV-visible measurements of ozone and NO₂ during the Canadian Arctic ACE validation campaigns: 2004â€“2006. Atmospheric Chemistry and Physics, 2008, 8, 1763-1788.	4.9	17
113	A global inventory of stratospheric NO_yfrom ACE-FTS. Journal of Geophysical Research, 2011, 116, .	3.3	17
114	Greenhouse gas simulations with a coupled meteorological and transport model: the predictability of CO₂. Atmospheric Chemistry and Physics, 2016, 16, 12005-12038.	4.9	17
115	Fourier transform infrared time series of tropospheric HCN in eastern China: seasonality, interannual variability, and source attribution. Atmospheric Chemistry and Physics, 2020, 20, 5437-5456.	4.9	17
116	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
117	Groundâ€based measurements of ozone and NO2during MANTRA 1998 using a Zenithâ€sky spectrometer. Atmosphere - Ocean, 2005, 43, 325-338.	1.6	16
118	Investigation of CO, C₂H₆ and aerosols in a boreal fire plume over eastern Canada during BORTAS 2011 using ground- and satellite-based observations and model simulations. Atmospheric Chemistry and Physics, 2013, 13, 10227-10241.	4.9	16
119	Intercomparison of atmospheric water vapour measurements at a Canadian High Arctic site. Atmospheric Measurement Techniques, 2017, 10, 2851-2880.	3.1	16
120	Four Fourier transform spectrometers and the Arctic polar vortex: instrument intercomparison and ACE-FTS validation at Eureka during the IPY springs of 2007 and 2008. Atmospheric Measurement Techniques, 2010, 3, 51-66.	3.1	16
121	Temperature-dependent absorption cross-sections of HCFC-142b. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 364-371.	2.3	15
122	OH Meinel band nightglow profiles from OSIRIS observations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,417.	3.3	15
123	Toronto area ozone: Longâ€term measurements and modeled sources of poor air quality events. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,368.	3.3	15
124	Mid-infrared absorption cross-sections and temperature dependence of CFC-113. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1280-1285.	2.3	14
125	The Atmospheric Imaging Mission for Northern Regions: AIM-North. Canadian Journal of Remote Sensing, 2019, 45, 423-442.	2.4	14
126	Retrieval of atmospheric CO₂ vertical profiles from ground-based near-infrared spectra. Atmospheric Measurement Techniques, 2021, 14, 3087-3118.	3.1	14

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127	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
128	Pan-Arctic surface ozone: modelling vs. measurements. Atmospheric Chemistry and Physics, 2020, 20, 15937-15967.	4.9	14
129	Estimating biases and error variances through the comparison of coincident satellite measurements. Journal of Geophysical Research, 2007, 112, .	3.3	13
130	Validating the reported random errors of ACEâ€FTS measurements. Journal of Geophysical Research, 2010, 115, .	3.3	13
131	Assessment of the quality of OSIRIS mesospheric temperatures using satellite and ground-based measurements. Atmospheric Measurement Techniques, 2012, 5, 2993-3006.	3.1	13
132	The spring 2011 final stratospheric warming above Eureka: anomalous dynamics and chemistry. Atmospheric Chemistry and Physics, 2013, 13, 611-624.	4.9	13
133	On what scales can GOSAT flux inversions constrain anomalies in terrestrial ecosystems?. Atmospheric Chemistry and Physics, 2019, 19, 13017-13035.	4.9	13
134	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
135	A method for recovering stratospheric minor species densities from the Odin/OSIRIS scattered-sunlight measurements. Canadian Journal of Physics, 2002, 80, 395-408.	1.1	12
136	Nitric acid measurements at Eureka obtained in winter 2001â€“2002 using solar and lunar Fourier transform infrared absorption spectroscopy: Comparisons with observations at Thule and Kiruna and with results from three-dimensional models. Journal of Geophysical Research, 2007, 112, .	3.3	12
137	Comparison of the CMAM30 data set with ACE-FTS and OSIRIS: polar regions. Atmospheric Chemistry and Physics, 2015, 15, 12465-12485.	4.9	12
138	Methane cross-validation between three Fourier transform spectrometers: SCISAT ACE-FTS, GOSAT TANSO-FTS, and ground-based FTS measurements in the Canadian high Arctic. Atmospheric Measurement Techniques, 2016, 9, 1961-1980.	3.1	12
139	Temperature-dependent absorption cross-sections of perfluorotributylamine. Journal of Molecular Spectroscopy, 2016, 323, 53-58.	1.2	12
140	Atmospheric Implications of Large C₂â€C₅ Alkane Emissions From the U.S. Oil and Gas Industry. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1148-1169.	3.3	12
141	Accuracy, precision, and temperature dependence of Pandora total ozone measurements estimated from a comparison with the Brewer triad in Toronto. Atmospheric Measurement Techniques, 2016, 9, 5747-5761.	3.1	12
142	Global Atmospheric OCS Trend Analysis From 22 NDACC Stations. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	12
143	First detection of meso-thermospheric Nitric Oxide (NO) by ground-based FTIR solar absorption spectroscopy. Geophysical Research Letters, 2006, 33, .	4.0	11
144	Summertime stratospheric processes at northern mid-latitudes: comparisons between MANTRA balloon measurements and the Canadian Middle Atmosphere Model. Atmospheric Chemistry and Physics, 2008, 8, 2057-2071.	4.9	11

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145	Measurements of the infrared absorption cross-sections of HCFC-141b (CH3CFCl2). Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1913-1919.	2.3	11
146	Mars methane analogue mission: Mission simulation and rover operations at Jeffrey Mine and Norbestos Mine Quebec, Canada. Advances in Space Research, 2015, 55, 2414-2426.	2.6	11
147	Cyclone-induced surface ozone and HDO depletion in the Arctic. Atmospheric Chemistry and Physics, 2017, 17, 14955-14974.	4.9	11
148	Updated validation of ACE and OSIRIS ozone and NO2 measurements in the Arctic using ground-based instruments at Eureka, Canada. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 238, 106571.	2.3	11
149	Evaluating different methods for elevation calibration of MAX-DOAS (Multi AXis Differential Optical) Tj ETQq1 1 0.784314 rgBT /Overlo Techniques, 2020, 13, 685-712.	3.1	11
150	Remote measurements of vertical profiles of atmospheric constituents with a UVâ€“visible ranging spectrometer. Applied Optics, 1995, 34, 6223.	2.1	10
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