

Emmanuel Mahieu

List of Publications by Year in descending order

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157
papers

7,295
citations

61945

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times ranked

4209
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#	ARTICLE	IF	CITATIONS
1	Global Atmospheric OCS Trend Analysis From 22 NDACC Stations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	12
2	<i>Data Science in Science:</i> Special Issue on Data Science in Environmental and Climate Sciences. , 2022, 1, 5-5.		0
3	Analysis of CO₂, CH₄, and CO surface and column concentrations observed at RÅunion Island by assessing WRF-Chem simulations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7763-7792.	1.9	7
4	First retrievals of peroxyacetyl nitrate (PAN) from ground-based FTIR solar spectra recorded at remote sites, comparison with model and satellite data. <i>Elementa</i> , 2021, 9, .	1.1	7
5	COVIDâ€™19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091987.	1.5	51
6	Ubiquitous atmospheric production of organic acids mediated by cloud droplets. <i>Nature</i> , 2021, 593, 233-237.	13.7	71
7	The reduction in C₂H₆ from 2015 to 2020 over Hefei, eastern China, points to air quality improvement in China. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11759-11779.	1.9	12
8	Tropospheric and stratospheric NO retrieved from ground-based Fourier-transform infrared (FTIR) measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6233-6247.	1.2	2
9	Stratospheric fluorine as a tracer of circulation changes: comparison between infrared remoteâ€™sensing observations and simulations with five modern reanalyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034995.	1.2	8
10	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
11	Observed Hemispheric Asymmetry in Stratospheric Transport Trends From 1994 to 2018. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088567.	1.5	13
12	A statistical analysis of time trends in atmospheric ethane. <i>Climatic Change</i> , 2020, 162, 105-125.	1.7	7
13	Fourier transform infrared time series of tropospheric HCN in eastern China: seasonality, interannual variability, and source attribution. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5437-5456.	1.9	17
14	Spaceborne Measurements of Formic and Acetic Acids: A Global View of the Regional Sources. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086239.	1.5	21
15	Trends of atmospheric water vapour in Switzerland from ground-based radiometry, FTIR and GNSS data. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11223-11244.	1.9	16
16	Climatological impact of the Brewerâ€™Dobson circulation on the N₂O budget in WACCM, a chemical reanalysis and a CTM driven by four dynamical reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12609-12631.	1.9	9
17	Detection and attribution of wildfire pollution in the Arctic and northern midlatitudes using a network of Fourier-transform infrared spectrometers and GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12813-12851.	1.9	26
18	TROPOMIâ€™Sentinel-5 Precursor formaldehyde validation using an extensive network of ground-based Fourier-transform infrared stations. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 3751-3767.	1.2	66

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19	Biomass Burning Unlikely to Account for Missing Source of Carbonyl Sulfide. <i>Geophysical Research Letters</i> , 2019, 46, 14912-14920.	1.5	21
20	Improved FTIR retrieval strategy for HCFC-22 (CHClF ₂), comparisons with in situ and satellite datasets with the support of models, and determination of its long-term trend above Jungfraujoch. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12309-12324.	1.9	13
21	Atmospheric Implications of Large C ₂ –C ₅ Alkane Emissions From the U.S. Oil and Gas Industry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1148-1169.	1.2	12
22	Comparison of mean age of air in five reanalyses using the BASCOE transport model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14715-14735.	1.9	26
23	Atmospheric CO and CH ₄ time series and seasonal variations on Reunion Island from ground-based in situ and FTIR (NDACC and TCCON) measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13881-13901.	1.9	31
24	Observing the atmospheric evolution of ozone-depleting substances. <i>Comptes Rendus - Geoscience</i> , 2018, 350, 384-392.	0.4	10
25	Ground-based FTIR retrievals of SF ₆ on Reunion Island. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 651-662.	1.2	11
26	Tropospheric Ozone Assessment Report: Present-day distribution and trends of tropospheric ozone relevant to climate and global atmospheric chemistry model evaluation. <i>Elementa</i> , 2018, 6, .	1.1	240
27	Retrieval of HCFC-142b (CH ₃ CClF ₂) from ground-based high-resolution infrared solar spectra: Atmospheric increase since 1989 and comparison with surface and satellite measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 186, 96-105.	1.1	10
28	Revisiting global fossil fuel and biofuel emissions of ethane. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2493-2512.	1.2	43
29	Optimized approach to retrieve information on atmospheric carbonyl sulfide (OCS) above the Jungfraujoch station and change in its abundance since 1995. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 186, 81-95.	1.1	15
30	An update on ozone profile trends for the period 2000 to 2016. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10675-10690.	1.9	93
31	The recent increase of atmospheric methane from 10 years of ground-based NDACC FTIR observations since 2005. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2255-2277.	1.9	33
32	Validation of MOPITT carbon monoxide using ground-based Fourier transform infrared spectrometer data from NDACC. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1927-1956.	1.2	44
33	Tropospheric water vapour isotopologue data (H ₂ O, H ₂ ¹⁸ O, H ₂ ¹⁶ O) Tj ETQq1 1 0.784314 rgBT /Overlock Earth System Science Data , 2017, 9, 15-23.	3.7	26
34	First characterization and validation of FORLI-HNO ₃ vertical profiles retrieved from IASI/Metop. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 4783-4801.	1.2	15
35	Stratospheric aerosol-Observations, processes, and impact on climate. <i>Reviews of Geophysics</i> , 2016, 54, 278-335.	9.0	265
36	Seasonal variability of surface and column carbon monoxide over the megacity Paris, high-altitude Jungfraujoch and Southern Hemispheric Wollongong stations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10911-10925.	1.9	28

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37	Intercomparison of in situ NDIR and column FTIR measurements of CO ₂ at Jungfraujoch. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9935-9949.	1.9	10
38	Towards understanding the variability in biospheric CO ₂ fluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2123-2138.	1.9	20
39	Model sensitivity studies of the decrease in atmospheric carbon tetrachloride. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15741-15754.	1.9	5
40	Diurnal cycle and multi-decadal trend of formaldehyde in the remote atmosphere near 46°N. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4171-4189.	1.9	17
41	HCOOH distributions from IASI for 2008–2014: comparison with ground-based FTIR measurements and a global chemistry-transport model. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8963-8981.	1.9	13
42	Evaluating ethane and methane emissions associated with the development of oil and natural gas extraction in North America. <i>Environmental Research Letters</i> , 2016, 11, 044010.	2.2	82
43	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
44	Trends of ozone total columns and vertical distribution from FTIR observations at eight NDACC stations around the globe. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2915-2933.	1.9	76
45	Acetylene (C ₂ H ₂) and hydrogen cyanide (HCN) from IASI satellite observations: global distributions, validation, and comparison with model. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10509-10527.	1.9	7
46	Retrieval of ammonia from ground-based FTIR solar spectra. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12789-12803.	1.9	32
47	Past changes in the vertical distribution of ozone – Part 3: Analysis and interpretation of trends. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9965-9982.	1.9	115
48	Using XCO ₂ retrievals for assessing the long-term consistency of NDACC/FTIR data sets. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1555-1573.	1.2	39
49	Retrievals of formaldehyde from ground-based FTIR and MAX-DOAS observations at the Jungfraujoch station and comparisons with GEOS-Chem and IMAGES model simulations. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1733-1756.	1.2	38
50	Validation of SCIAMACHY HDO/H ₂ O measurements using the TCCON and NDACC-MUSICA networks. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1799-1818.	1.2	17
51	Improved spectral fitting of nitrogen dioxide from OMI in the 405–465 nm window. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1685-1699.	1.2	71
52	Retrieval of ethane from ground-based FTIR solar spectra using improved spectroscopy: Recent burden increase above Jungfraujoch. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 160, 36-49.	1.1	32
53	Long-term evolution and seasonal modulation of methanol above Jungfraujoch (46.5° N, 8.0° E): optimisation of the retrieval strategy, comparison with model simulations and independent observations. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3861-3872.	1.2	5
54	Spectrometric monitoring of atmospheric carbon tetrafluoride (CF ₄) above the Jungfraujoch station since 1989: evidence of continued increase but at a slowing rate. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 333-344.	1.2	7

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55	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. <i>Nature</i> , 2014, 515, 104-107.	13.7	110
56	Self-broadening coefficients and improved line intensities for the $\tilde{\nu}_7$ band of ethylene near $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0019.gif" overflow="scroll" \rangle < \text{mml:mn} > 10.5 < / \text{mml:mn} > \langle \text{mml:mpace width="0.25em" /} > \langle \text{mml:mi mathvariant="normal" } \rangle < / \text{mml:mi} > \langle \text{mml:mi mathvariant="normal" } \rangle < / \text{mml:mi} > \langle \text{mml:math} \rangle$, and impact on ethylene retrievals from Jungfraujoch solar spectra. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 113, 1322-1329.	1.1	28
57	Measurements of hydrogen cyanide (HCN) and acetylene ($\text{C}\langle \text{H} \rangle \langle \text{H} \rangle \langle \text{C} \rangle$) from the Infrared Atmospheric Sounding Interferometer (IASI). <i>Atmospheric Measurement Techniques</i> , 2013, 6, 917-925.	1.2	12
58	Validation of IASI FORLI carbon monoxide retrievals using FTIR data from NDACC. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2751-2761.	1.2	45
59	Observed and simulated time evolution of HCl, ClONO $\langle \text{H} \rangle \langle \text{H} \rangle \langle \text{O} \rangle$, and HF total column abundances. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3527-3556.	1.9	72
60	Analysis of stratospheric NO $\langle \text{H} \rangle \langle \text{H} \rangle \langle \text{O} \rangle$ trends above Jungfraujoch using ground-based UV-visible, FTIR, and satellite nadir observations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8851-8864.	1.9	27
61	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
62	Decrease of the carbon tetrachloride (CCl $\langle \text{H} \rangle \langle \text{H} \rangle \langle \text{C} \rangle \langle \text{H} \rangle$) loading above Jungfraujoch, based on high resolution infrared solar spectra recorded between 1999 and 2011. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1322-1329.	1.1	11
63	A new method to detect long term trends of methane ($\text{CH}\langle \text{H} \rangle \langle \text{H} \rangle \langle \text{C} \rangle \langle \text{H} \rangle$) and nitrous oxide (N $\langle \text{H} \rangle \langle \text{H} \rangle \langle \text{O} \rangle$) total columns measured within the NDACC ground-based high resolution solar FTIR network. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6167-6183.	1.9	46
64	1997â€“2007 CO trend at the high Alpine site Jungfraujoch: a comparison between NDIR surface in situ and FTIR remote sensing observations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6735-6748.	1.9	20
65	Carbon monoxide (CO) and ethane ($\text{C}\langle \text{H} \rangle \langle \text{H} \rangle \langle \text{C} \rangle \langle \text{H} \rangle \langle \text{H} \rangle \langle \text{C} \rangle \langle \text{H} \rangle \langle \text{H} \rangle \langle \text{C} \rangle$) trends from ground-based solar FTIR measurements at six European stations, comparison and sensitivity analysis with the EMEP model. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9253-9269.	1.9	53
66	Formic acid above the Jungfraujoch during 1985â€“2007: observed variability, seasonality, but no long-term background evolution. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10047-10065.	1.9	26
67	Validation of five years (2003â€“2007) of SCIAMACHY CO total column measurements using ground-based spectrometer observations. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1457-1471.	1.2	31
68	Hydrogen fluoride total and partial column time series above the Jungfraujoch from longâ€“term FTIR measurements: Impact of the lineâ€“shape model, characterization of the error budget and seasonal cycle, and comparison with satellite and model data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34
69	Trend of lower stratospheric methane (CH $\langle \text{H} \rangle \langle \text{H} \rangle \langle \text{C} \rangle \langle \text{H} \rangle$) from atmospheric chemistry experiment (ACE) and atmospheric trace molecule spectroscopy (ATMOS) measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 1066-1071.	1.1	9
70	First measurements of the HCFC-142b trend from atmospheric chemistry experiment (ACE) solar occultation spectra. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2009, 110, 2127-2134.	1.1	10
71	First groundâ€“based infrared solar absorption measurements of free tropospheric methanol ($\text{CH}\langle \text{H} \rangle \langle \text{H} \rangle \langle \text{C} \rangle \langle \text{H} \rangle \langle \text{O} \rangle$): Multidecade infrared time series from Kitt Peak (31.9 N 111.6 W): Trend, seasonal cycle, and comparison with previous measurements. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	16
72	An approach to retrieve information on the carbonyl fluoride ($\text{CO}\langle \text{F} \rangle \langle \text{H} \rangle \langle \text{C} \rangle \langle \text{H} \rangle \langle \text{O} \rangle$) vertical distributions above Jungfraujoch by FTIR multi-spectrum multi-window fitting. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9027-9042.	1.9	13

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73	Technical Note: Harmonized retrieval of column-integrated atmospheric water vapor from the FTIR network – first examples for long-term records and station trends. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8987-8999.	1.9	65
74	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 287-343.	1.9	134
75	Validation of version-4.61 methane and nitrous oxide observed by MIPAS. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 413-442.	1.9	50
76	What drives the observed variability of HCN in the troposphere and lower stratosphere?. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 8531-8543.	1.9	55
77	Measurements of long-term changes in atmospheric OCS (carbonyl sulfide) from infrared solar observations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 2679-2686.	1.1	17
78	Our changing atmosphere: Evidence based on long-term infrared solar observations at the Jungfrauoch since 1950. <i>Science of the Total Environment</i> , 2008, 391, 184-195.	3.9	82
79	Observations of long-lived anthropogenic halocarbons at the high-Alpine site of Jungfrauoch (Switzerland) for assessment of trends and European sources. <i>Science of the Total Environment</i> , 2008, 391, 224-231.	3.9	56
80	Validation of ACE-FTS v2.2 methane profiles from the upper troposphere to the lower mesosphere. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2421-2435.	1.9	85
81	Technical Note: New ground-based FTIR measurements at Ile de La Réunion: observations, error analysis, and comparisons with independent data. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3483-3508.	1.9	61
82	Validation of ACE-FTS N ₂ O measurements. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4759-4786.	1.9	76
83	Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl ₃ F and CCl ₂ F ₂ using space-, balloon- and ground-based instrument observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6199-6221.	1.9	91
84	Trend analysis of greenhouse gases over Europe measured by a network of ground-based remote FTIR instruments. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6719-6727.	1.9	109
85	CO measurements from the ACE-FTS satellite instrument: data analysis and validation using ground-based, airborne and spaceborne observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2569-2594.	1.9	107
86	Validation of HNO ₃ , ClONO ₂ , and N ₂ O ₅ from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3529-3562.	1.9	75
87	Comparisons between ground-based FTIR and MIPAS N ₂ O and HNO ₃ profiles before and after assimilation in BASCOE. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 377-396.	1.9	59
88	Validation of MIPAS ClONO ₂ measurements. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 257-281.	1.9	65
89	Validation of MIPAS HNO ₃ operational data. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4905-4934.	1.9	48
90	Long-term trends of tropospheric carbon monoxide and hydrogen cyanide from analysis of high resolution infrared solar spectra. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 104, 40-51.	1.1	11

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91	Spectroscopic detection of COClF in the tropical and mid-latitude lower stratosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 105, 467-475.	1.1	10
92	Long-term stratospheric carbon tetrafluoride (CF ₄) increase inferred from 1985–2004 infrared space-based solar occultation measurements. Geophysical Research Letters, 2006, 33, .	1.5	15
93	First space-based observations of formic acid (HCOOH): Atmospheric Chemistry Experiment austral spring 2004 and 2005 Southern Hemisphere tropical-mid-latitude upper tropospheric measurements. Geophysical Research Letters, 2006, 33, .	1.5	42
94	A global inventory of stratospheric chlorine in 2004. Journal of Geophysical Research, 2006, 111, .	3.3	53
95	Comparisons between SCIAMACHY and ground-based FTIR data for total columns of CO, CH ₄ , CO ₂ and N ₂ O. Atmospheric Chemistry and Physics, 2006, 6, 1953-1976.	1.9	103
96	Long-term trend of at northern mid-latitudes: Comparison between ground-based infrared solar and surface sampling measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 97, 457-466.	1.1	11
97	Increased Northern Hemispheric carbon monoxide burden in the troposphere in 2002 and 2003 detected from the ground and from space. Atmospheric Chemistry and Physics, 2005, 5, 563-573.	1.9	131
98	Long-term evolution in the tropospheric concentration of chlorofluorocarbon 12 (CCl ₂ F ₂) derived from high-spectral resolution infrared solar absorption spectra: retrieval and comparison with in situ surface measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 92, 201-209.	1.1	12
99	Sulphur hexafluoride (SF ₆): comparison of FTIR-measurements at three sites and determination of its trend in the northern hemisphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 92, 383-392.	1.1	16
100	Line narrowing effect on the retrieval of HF and HCl vertical profiles from ground-based FTIR measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 95, 499-519.	1.1	30
101	Evolution of a dozen non-CO ₂ greenhouse gases above central Europe since the mid-1980s. Journal of Integrative Environmental Sciences, 2005, 2, 295-303.	0.8	27
102	The exploitation of ground-based Fourier transform infrared observations for the evaluation of tropospheric trends of greenhouse gases over Europe. Journal of Integrative Environmental Sciences, 2005, 2, 283-293.	0.8	12
103	Atmospheric Chemistry Experiment (ACE): Mission overview. Geophysical Research Letters, 2005, 32, .	1.5	768
104	Comparisons between ACE-FTS and ground-based measurements of stratospheric HCl and ClONO ₂ loadings at northern latitudes. Geophysical Research Letters, 2005, 32, .	1.5	28
105	Trends of HF, HCl, CCl ₂ F ₂ , CCl ₃ F, CHClF ₂ (HCFC-22), and SF ₆ in the lower stratosphere from Atmospheric Chemistry Experiment (ACE) and Atmospheric Trace Molecule Spectroscopy (ATMOS) measurements near 30°N latitude. Geophysical Research Letters, 2005, 32, .	1.5	36
106	A quantitative assessment of the 1998 carbon monoxide emission anomaly in the Northern Hemisphere based on total column and surface concentration measurements. Journal of Geophysical Research, 2004, 109, .	3.3	82
107	Free tropospheric measurements of formic acid (HCOOH) from infrared ground-based solar absorption spectra: Retrieval approach, evidence for a seasonal cycle, and comparison with model calculations. Journal of Geophysical Research, 2004, 109, .	3.3	46
108	Monitoring of the Variability and Long-term Evolution of Tropospheric Constituents by Infrared Solar Absorption Spectrometry at the Jungfraujoch, Switzerland. , 2004, , 407-416.		0

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109	SF6 ground-based infrared solar absorption measurements: long-term trend, pollution events, and a search for SF5CF3 absorption. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2003, 78, 41-53.	1.1	16
110	Post-Mount Pinatubo eruption ground-based infrared stratospheric column measurements of HNO ₃ , NO, and NO ₂ and their comparison with model calculations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	32
111	Long-term trends of inorganic chlorine from ground-based infrared solar spectra: Past increases and evidence for stabilization. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	86
112	Ground-based FTIR measurements of CO from the Jungfraujoch: characterisation and comparison with in situ surface and MOPITT data. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 2217-2223.	1.9	48
113	Atmospheric Trace Molecule Spectroscopy (ATMOS) Experiment Version 3 data retrievals. <i>Applied Optics</i> , 2002, 41, 6968.	2.1	111
114	ATMOS version 3 water vapor measurements: Comparisons with observations from two ER-2 Lyman- α hygrometers, MkIV, HALOE, SAGE II, MAS, and MLS. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 2-1.	3.3	13
115	Multiyear infrared solar spectroscopic measurements of HCN, CO, C ₂ H ₆ , and C ₂ H ₂ tropospheric columns above Lauder, New Zealand (45°S latitude). <i>Journal of Geophysical Research</i> , 2002, 107, ACH 1-1.	3.3	48
116	Ground-based infrared spectroscopic measurements of carbonyl sulfide: Free tropospheric trends from a 24-year time series of solar absorption measurements. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 24-1.	3.3	37
117	Stratospheric HF column abundances above Kitt Peak (31.9°N latitude): trends from 1977 to 2001 and correlations with stratospheric HCl columns. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002, 74, 205-216.	1.1	13
118	Enhanced tropospheric HCN columns above Kitt Peak during the 1982-1983 and 1997-1998 El Niño warm phases. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2001, 69, 3-8.	1.1	22
119	Correlation relationships of stratospheric molecular constituents from high spectral resolution, ground-based infrared solar absorption spectra. <i>Journal of Geophysical Research</i> , 2000, 105, 14637-14652.	3.3	11
120	Free tropospheric CO, C ₂ H ₆ , and HCN above central Europe: Recent measurements from the Jungfraujoch station including the detection of elevated columns during 1998. <i>Journal of Geophysical Research</i> , 2000, 105, 24235-24249.	3.3	80
121	Stratospheric CO at tropical and mid-latitudes: ATMOS measurements and photochemical steady-state model calculations. <i>Geophysical Research Letters</i> , 2000, 27, 1395-1398.	1.5	8
122	Polar stratospheric descent of NO _y and CO and Arctic denitrification during winter 1992-1993. <i>Journal of Geophysical Research</i> , 1999, 104, 1847-1861.	3.3	43
123	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1998, 29, 119-134.	1.4	13
124	ATMOS/ATLAS 3 INFRARED PROFILE MEASUREMENTS OF TRACE GASES IN THE NOVEMBER 1994 TROPICAL AND SUBTROPICAL UPPER TROPOSPHERE. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998, 60, 891-901.	1.1	38
125	ATMOS/ATLAS 3 INFRARED PROFILE MEASUREMENTS OF CLOUDS IN THE TROPICAL AND SUBTROPICAL UPPER TROPOSPHERE. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998, 60, 903-919.	1.1	18
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