

# Emmanuel Mahieu

## List of Publications by Year in descending order

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157  
papers

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61984

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227  
docs citations

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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, .	3.3	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 CO<sub>2</sub>, CH<sub>4</sub>, 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.	4.9	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, .	3.2	7
5	COVIDâ€™19 Crisis Reduces Free Tropospheric Ozone Across the Northern Hemisphere. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091987.	4.0	51
6	Ubiquitous atmospheric production of organic acids mediated by cloud droplets. <i>Nature</i> , 2021, 593, 233-237.	27.8	71
7	The reduction in C<sub>2</sub>H<sub>6</sub> 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.	4.9	12
8	Tropospheric and stratospheric NO retrieved from ground-based Fourier-transform infrared (FTIR) measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6233-6247.	3.1	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.	3.3	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.	3.1	57
11	Observed Hemispheric Asymmetry in Stratospheric Transport Trends From 1994 to 2018. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088567.	4.0	13
12	A statistical analysis of time trends in atmospheric ethane. <i>Climatic Change</i> , 2020, 162, 105-125.	3.6	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.	4.9	17
14	Spaceborne Measurements of Formic and Acetic Acids: A Global View of the Regional Sources. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086239.	4.0	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.	4.9	16
16	Climatological impact of the Brewerâ€™Dobson circulation on the N<sub>2</sub>O budget in WACCM, a chemical reanalysis and a CTM driven by four dynamical reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12609-12631.	4.9	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.	4.9	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.	3.1	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.	4.0	21
20	Improved FTIR retrieval strategy for HCFC-22 (CHClF <sub>2</sub> ), 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.	4.9	13
21	Atmospheric Implications of Large C <sub>2</sub> -Alkane Emissions From the U.S. Oil and Gas Industry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1148-1169.	3.3	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.	4.9	26
23	Atmospheric CO and CH <sub>4</sub> 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.	4.9	31
24	Observing the atmospheric evolution of ozone-depleting substances. <i>Comptes Rendus - Geoscience</i> , 2018, 350, 384-392.	1.2	10
25	Ground-based FTIR retrievals of SF <sub>6</sub> on Reunion Island. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 651-662.	3.1	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, .	3.2	240
27	Retrieval of HCFC-142b (CH <sub>3</sub> CClF <sub>2</sub> ) 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.	2.3	10
28	Revisiting global fossil fuel and biofuel emissions of ethane. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2493-2512.	3.3	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.	2.3	15
30	An update on ozone profile trends for the period 2000 to 2016. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10675-10690.	4.9	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.	4.9	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.	3.1	44
33	Tropospheric water vapour isotopologue data (H <sub>2</sub> O, H <sub>2</sub> <sup>18</sup> O, H <sub>2</sub> <sup>16</sup> O) Tj ETQq1 1 0.784314 rgBT /Overlock <a href="#">Earth System Science Data</a> , 2017, 9, 15-23.	9.9	26
34	First characterization and validation of FORLI-HNO <sub>3</sub> vertical profiles retrieved from IASI/Metop. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 4783-4801.	3.1	15
35	Stratospheric aerosol-Observations, processes, and impact on climate. <i>Reviews of Geophysics</i> , 2016, 54, 278-335.	23.0	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.	4.9	28

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37	Intercomparison of in situ NDIR and column FTIR measurements of CO <sub>2</sub> at Jungfraujoch. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9935-9949.	4.9	10
38	Towards understanding the variability in biospheric CO <sub>2</sub> fluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO <sub>2</sub> . <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2123-2138.	4.9	20
39	Model sensitivity studies of the decrease in atmospheric carbon tetrachloride. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15741-15754.	4.9	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.	4.9	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.	4.9	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.	5.2	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.	12.9	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.	4.9	76
45	Acetylene (C <sub>2</sub> H <sub>2</sub> ) 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.	4.9	7
46	Retrieval of ammonia from ground-based FTIR solar spectra. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12789-12803.	4.9	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.	4.9	115
48	Using XCO <sub>2</sub> retrievals for assessing the long-term consistency of NDACC/FTIR data sets. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1555-1573.	3.1	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.	3.1	38
50	Validation of SCIAMACHY HDO/H <sub>2</sub> O measurements using the TCCON and NDACC-MUSICA networks. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1799-1818.	3.1	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.	3.1	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.	2.3	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.	3.1	5
54	Spectrometric monitoring of atmospheric carbon tetrafluoride (CF <sub>4</sub> ) above the Jungfraujoch station since 1989: evidence of continued increase but at a slowing rate. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 333-344.	3.1	7



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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.	4.9	65
74	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 287-343.	4.9	134
75	Validation of version-4.61 methane and nitrous oxide observed by MIPAS. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 413-442.	4.9	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.	4.9	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.	2.3	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.	8.0	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.	8.0	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.	4.9	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.	4.9	61
82	Validation of ACE-FTS N <sub>2</sub> O measurements. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4759-4786.	4.9	76
83	Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl <sub>3</sub> F and CCl <sub>2</sub> F <sub>2</sub> using space-, balloon- and ground-based instrument observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6199-6221.	4.9	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.	4.9	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.	4.9	107
86	Validation of HNO <sub>3</sub> , ClONO <sub>2</sub> , and N <sub>2</sub> O <sub>5</sub> from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3529-3562.	4.9	75
87	Comparisons between ground-based FTIR and MIPAS N <sub>2</sub> O and HNO <sub>3</sub> profiles before and after assimilation in BASCOE. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 377-396.	4.9	59
88	Validation of MIPAS ClONO <sub>2</sub> measurements. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 257-281.	4.9	65
89	Validation of MIPAS HNO <sub>3</sub> operational data. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4905-4934.	4.9	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.	2.3	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.	2.3	10
92	Long-term stratospheric carbon tetrafluoride (CF <sub>4</sub> ) increase inferred from 1985–2004 infrared space-based solar occultation measurements. Geophysical Research Letters, 2006, 33, .	4.0	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, .	4.0	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 <sub>4</sub> , CO <sub>2</sub> and N <sub>2</sub> O. Atmospheric Chemistry and Physics, 2006, 6, 1953-1976.	4.9	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.	2.3	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.	4.9	131
98	Long-term evolution in the tropospheric concentration of chlorofluorocarbon 12 (CCl <sub>2</sub> F <sub>2</sub> ) 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.	2.3	12
99	Sulphur hexafluoride (SF <sub>6</sub> ): 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.	2.3	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.	2.3	30
101	Evolution of a dozen non-CO <sub>2</sub> 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, .	4.0	768
104	Comparisons between ACE-FTS and ground-based measurements of stratospheric HCl and ClONO <sub>2</sub> loadings at northern latitudes. Geophysical Research Letters, 2005, 32, .	4.0	28
105	Trends of HF, HCl, CCl <sub>2</sub> F <sub>2</sub> , CCl <sub>3</sub> F, CHClF <sub>2</sub> (HCFC-22), and SF <sub>6</sub> 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, .	4.0	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.	2.3	16
110	Post-Mount Pinatubo eruption ground-based infrared stratospheric column measurements of HNO <sub>3</sub> , NO, and NO <sub>2</sub> 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.	4.9	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- $\alpha$ 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 <sub>2</sub> H <sub>6</sub> , and C <sub>2</sub> H <sub>2</sub> 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.	2.3	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.	2.3	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 <sub>2</sub> H <sub>6</sub> , 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.	4.0	8
122	Polar stratospheric descent of NO <sub>y</sub> 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.	3.2	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.	2.3	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.	2.3	18
126	Ground-based infrared solar spectroscopic measurements of carbon monoxide during 1994 Measurement of Air Pollution From Space flights. <i>Journal of Geophysical Research</i> , 1998, 103, 19317-19325.	3.3	23



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127	Northern and southern hemisphere ground-based infrared spectroscopic measurements of tropospheric carbon monoxide and ethane. <i>Journal of Geophysical Research</i> , 1998, 103, 28197-28217.	3.3	225
128	On the use of HF as a reference for the comparison of stratospheric observations and models. <i>Journal of Geophysical Research</i> , 1997, 102, 12901-12919.	3.3	35
129	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1997, 28, 227-243.	3.2	80
130	ClONO <sub>2</sub> total vertical column abundances above the Jungfraujoch Station, 1986-1994: Long-term trend and winter-spring enhancements. <i>Journal of Geophysical Research</i> , 1996, 101, 3891-3899.	3.3	13
131	Increase of stratospheric carbon tetrafluoride (CF <sub>4</sub> ) based on ATMOS observations from space. <i>Geophysical Research Letters</i> , 1996, 23, 2353-2356.	4.0	29
132	Trends of OCS, HCN, SF <sub>6</sub> , CHClF <sub>2</sub> (HCFC-22) in the lower stratosphere from 1985 and 1994 Atmospheric Trace Molecule Spectroscopy Experiment measurements near 30°N latitude. <i>Geophysical Research Letters</i> , 1996, 23, 2349-2352.	4.0	25
133	ATMOS/ATLAS-3 measurements of stratospheric chlorine and reactive nitrogen partitioning inside and outside the November 1994 Antarctic Vortex. <i>Geophysical Research Letters</i> , 1996, 23, 2365-2368.	4.0	37
134	The Atmospheric Trace Molecule Spectroscopy (ATMOS) Experiment: Deployment on the ATLAS space shuttle missions. <i>Geophysical Research Letters</i> , 1996, 23, 2333-2336.	4.0	192
135	The 1994 northern midlatitude budget of stratospheric chlorine derived from ATMOS/ATLAS-3 observations. <i>Geophysical Research Letters</i> , 1996, 23, 2357-2360.	4.0	68
136	Vertical column abundances of HCN deduced from ground-based infrared solar spectra: Long-term trend and variability. <i>Journal of Atmospheric Chemistry</i> , 1995, 20, 299-310.	3.2	37
137	April 1993 Arctic profiles of stratospheric HCl, ClONO <sub>2</sub> , and CCl <sub>2</sub> F <sub>2</sub> from atmospheric trace molecule spectroscopy/ATLAS 2 infrared solar occultation spectra. <i>Journal of Geophysical Research</i> , 1995, 100, 14019.	3.3	17
138	Monitoring of the atmospheric burdens of CH <sub>4</sub> , N <sub>2</sub> O, CO, CHClF <sub>2</sub> and CF <sub>2</sub> Cl <sub>2</sub> above Central Europe during the last decade. <i>Environmental Monitoring and Assessment</i> , 1994, 31-31, 203-209.	2.7	5
139	Secular evolution of the vertical column abundances of CHClF <sub>2</sub> (HCFC-22) in the Earth's atmosphere inferred from ground-based IR solar observations at the Jungfraujoch and at Kitt Peak, and comparison with model calculations. <i>Journal of Atmospheric Chemistry</i> , 1994, 18, 129-148.	3.2	16
140	Increase in levels of stratospheric chlorine and fluorine loading between 1985 and 1992. <i>Geophysical Research Letters</i> , 1994, 21, 2223-2226.	4.0	35
141	Increase of carbonyl fluoride (COF <sub>2</sub> ) in the stratosphere and its contribution to the 1992 budget of inorganic fluorine in the upper stratosphere. <i>Journal of Geophysical Research</i> , 1994, 99, 16737.	3.3	26
142	Secular trend and seasonal variability of the column abundance of N <sub>2</sub> O above the Jungfraujoch station determined from IR solar spectra. <i>Journal of Geophysical Research</i> , 1994, 99, 16745.	3.3	26
143	Profiles of stratospheric chlorine nitrate (ClONO <sub>2</sub> ) from atmospheric trace molecule spectroscopy/ATLAS 1 infrared solar occultation spectra. <i>Journal of Geophysical Research</i> , 1994, 99, 18895.	3.3	26
144	Heterogeneous conversion of N <sub>2</sub> O <sub>5</sub> to HNO <sub>3</sub> in the post-Mount Pinatubo eruption stratosphere. <i>Journal of Geophysical Research</i> , 1994, 99, 8213.	3.3	51

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145	ATMOS/ATLAS 1 measurements of sulfur hexafluoride (SF <sub>6</sub> ) in the lower stratosphere and upper troposphere. Journal of Geophysical Research, 1993, 98, 20491-20494.	3.3	19
146	Monitoring of Stratospheric Changes at the Jungfraujoch Station by High-Resolution Infrared Solar Observations in Support of the Network for Detection of Stratospheric Changes (NDSC). , 1993, , 347-363.		3
147	Ground-based infrared measurements of carbonyl sulfide total column abundances: Long-term trends and variability. Journal of Geophysical Research, 1992, 97, 5995-6002.	3.3	37
148	The 1985 chlorine and fluorine inventories in the stratosphere based on ATMOS observations at 30°N north latitude. Journal of Atmospheric Chemistry, 1992, 15, 171-186.	3.2	88
149	The triplet states of AlBr. Journal of Molecular Spectroscopy, 1992, 151, 178-183.	1.2	1
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