Michael HÃ¶pfner

List of Publications by Year
in descending order

177	6,786	76031	134545
papers	citations	42 h-index	62 g-index

279	279	279	3352
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and description of the MUSICA IASI full retrieval product. Earth System Science Data, 2022, 14, 709-742.	3.7	8
2	Challenge of modelling GLORIA observations of upper troposphereâ€“lowermost stratosphere trace gas and cloud distributions at high latitudes: a case study with state-of-the-art models. Atmospheric Chemistry and Physics, 2022, 22, 2843-2870.	1.9	0
3	Biomass burning pollution in the South Atlantic upper troposphere: GLORIA trace gas observations and evaluation of the CAMS model. Atmospheric Chemistry and Physics, 2022, 22, 3675-3691.	1.9	3
4	Remotely Sensed Carbonyl Sulfide Constrains Model Estimates of Amazon Primary Productivity. Geophysical Research Letters, 2022, 49, .	1.5	7
5	High-resolution optical constants of crystalline ammonium nitrate for infrared remote sensing of the Asian Tropopause Aerosol Layer. Atmospheric Measurement Techniques, 2021, 14, 1977-1991.	1.2	3
6	Observation of cirrus clouds with GLORIA during the WISE campaign: detection methods and cirrus characterization. Atmospheric Measurement Techniques, 2021, 14, 3153-3168.	1.2	5
7	Pollution trace gases C₂H₆, C₂H₂, HCOOH, and PAN in the North Atlantic UTLS: observations and simulations. Atmospheric Chemistry and Physics, 2021, 21, 8213-8232.	1.9	6
8	Polar Stratospheric Clouds: Satellite Observations, Processes, and Role in Ozone Depletion. Reviews of Geophysics, 2021, 59, e2020RG000702.	9.0	49
9	Retrieval of Water Vapour Profiles from GLORIA Nadir Observations. Remote Sensing, 2021, 13, 3675.	1.8	1
10	Modeling the Sulfate Aerosol Evolution After Recent Moderate Volcanic Activity, 2008â€“2012. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035472.	1.2	7
11	The Michelson Interferometer for Passive Atmospheric Sounding global climatology of BrONO₂ 2002â€“2012: a test for stratospheric bromine chemistry. Atmospheric Chemistry and Physics, 2021, 21, 18433-18464.	1.9	1
12	First Detection of a Brief Mesoscale Elevated Stratopause in Very Early Winter. Geophysical Research Letters, 2020, 47, e2019GL086751.	1.5	4
13	Solid Ammonium Nitrate Aerosols as Efficient Ice Nucleating Particles at Cirrus Temperatures. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032248.	1.2	15
14	Pollution trace gas distributions and their transport in the Asian monsoon upper troposphere and lowermost stratosphere during the StratoClim campaign 2017. Atmospheric Chemistry and Physics, 2020, 20, 14695-14715.	1.9	8
15	Technical note: Lowermost-stratosphere moist bias in ECMWF IFS model diagnosed from airborne GLORIA observations during winterâ€“spring 2016. Atmospheric Chemistry and Physics, 2020, 20, 15379-15387.	1.9	5
16	Cirrus cloud shape detection by tomographic extinction retrievals from infrared limb emission sounder measurements. Atmospheric Measurement Techniques, 2020, 13, 7025-7045.	1.2	3
17	Exploration of machine learning methods for the classification of infrared limb spectra of polar stratospheric clouds. Atmospheric Measurement Techniques, 2020, 13, 3661-3682.	1.2	2
18	Ammonium nitrate particles formed in upper troposphere from ground ammonia sources during Asian monsoons. Nature Geoscience, 2019, 12, 608-612.	5.4	95

#	Article	IF	Citations
19	Unusual chlorine partitioning in the 2015/16 Arctic winter lowermost stratosphere: observations and simulations. Atmospheric Chemistry and Physics, 2019, 19, 8311-8338.	1.9	10
20	Sampling bias adjustment for sparsely sampled satellite measurements applied to ACE-FTS carbonyl sulfide observations. Atmospheric Measurement Techniques, 2019, 12, 2129-2138.	1.2	5
21	3-D tomographic limb sounder retrieval techniques: irregular grids and Laplacian regularisation. Atmospheric Measurement Techniques, 2019, 12, 853-872.	1.2	6
22	Nitrification of the lowermost stratosphere during the exceptionally cold Arctic winter 2015â€“2016. Atmospheric Chemistry and Physics, 2019, 19, 13681-13699.	1.9	6
23	Vortexâ€Wide Detection of Large Aspherical NAT Particles in the Arctic Winter 2011/12 Stratosphere. Geophysical Research Letters, 2019, 46, 13420-13429.	1.5	5
24	MIPAS observations of volcanic sulfate aerosol and sulfur dioxide in the stratosphere. Atmospheric Chemistry and Physics, 2018, 18, 1217-1239.	1.9	24
25	A climatology of polar stratospheric cloud composition between 2002 and 2012 based on MIPAS/Envisat observations. Atmospheric Chemistry and Physics, 2018, 18, 5089-5113.	1.9	38
26	Comparison of ECHAM5/MESSy Atmospheric Chemistry (EMAC) simulations of the Arctic winter 2009/2010 and 2010/2011 with Envisat/MIPAS and Aura/MLS observations. Atmospheric Chemistry and Physics, 2018, 18, 8873-8892.	1.9	15
27	The MIPAS/Envisat climatology (2002â€“2012) of polar stratospheric cloud volume density profiles. Atmospheric Measurement Techniques, 2018, 11, 5901-5923.	1.2	5
28	Mesoscale fine structure of a tropopause fold over mountains. Atmospheric Chemistry and Physics, 2018, 18, 15643-15667.	1.9	15
29	Aerosols and Water Ice in Jupiterâ€™s Stratosphere from UV-NIR Ground-based Observations. Astronomical Journal, 2018, 156, 169.	1.9	7
30	Evaluation of MUSICA IASI tropospheric water vapour profiles using theoretical error assessments and comparisons to GRUAN Vaisala RS92 measurements. Atmospheric Measurement Techniques, 2018, 11, 4981-5006.	1.2	17
31	Airborne limb-imaging measurements of temperature, HNO₃, O₃, ClONO₂, H₂O and CFC-12 during the Arctic winter 2015/2016: characterization, inÂsitu validation and comparison to Aura/MLS. Atmospheric Measurement Techniques, 2018, 11, 4737-4756.	1.2	23
32	The role of sulfur dioxide in stratospheric aerosol formation evaluated by using in situ measurements in the tropical lower stratosphere. Geophysical Research Letters, 2017, 44, 4280-4286.	1.5	16
33	Impacts of meteoric sulfur in the Earth's atmosphere. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7678-7701.	1.2	10
34	Stratospheric aerosol data records for the climate change initiative: Development, validation and application to chemistry-climate modelling. Remote Sensing of Environment, 2017, 203, 296-321.	4.6	20
35	Diurnal variations of BrONO₂ observed by MIPAS-B at midlatitudes and in the Arctic. Atmospheric Chemistry and Physics, 2017, 17, 14631-14643.	1.9	3
36	Global carbonyl sulfide (OCS) measured by MIPAS/Envisat during 2002â€“2012. Atmospheric Chemistry and Physics, 2017, 17, 2631-2652.	1.9	25

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37	Denitrification, dehydration and ozone loss during the 2015/2016 Arctic winter. Atmospheric Chemistry and Physics, 2017, 17, 12893-12910.	1.9	35
38	MIPAS IMK/IAA CFC-11 (CCl₃F) and CFC-12 (CCl₂F₂) measurements: accuracy, precision and long-term stability. Atmospheric Measurement Techniques, 2016, 9, 3355-3389.	1.2	15
39	Monsoon circulations and tropical heterogeneous chlorine chemistry in the stratosphere. Geophysical Research Letters, 2016, 43, 12,624.	1.5	23
40	First detection of ammonia (NH₃) in the Asian summer monsoon upper troposphere. Atmospheric Chemistry and Physics, 2016, 16, 14357-14369.	1.9	51
41	Measurements of global distributions of polar mesospheric clouds during 2005â€“2012 by MIPAS/Envisat. Atmospheric Chemistry and Physics, 2016, 16, 6701-6719.	1.9	10
42	Spectroscopic evidence of large aspherical <i>Î²</i>-NAT particles involved in denitrification in the December 2011 Arctic stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 9505-9532.	1.9	12
43	Synergy between middle infrared and millimeter-wave limb sounding of atmospheric temperature and minor constituents. Atmospheric Measurement Techniques, 2016, 9, 2267-2289.	1.2	8
44	A multi-wavelength classification method for polar stratospheric cloud types using infrared limb spectra. Atmospheric Measurement Techniques, 2016, 9, 3619-3639.	1.2	21
45	Tropical sources and sinks of carbonyl sulfide observed from space. Geophysical Research Letters, 2015, 42, 10,082.	1.5	44
46	Threeâ€dimensional distribution of a major desert dust outbreak over East Asia in March 2008 derived from IASI satellite observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7099-7127.	1.2	34
47	Corrigendum to "Seasonal and interannual variations of HCN amounts in the upper troposphere and lower stratosphere observed by MIPAS" published in Atmos. Chem. Phys., 15, 563â€“582, 2015. Atmospheric Chemistry and Physics, 2015, 15, 2487-2488.	1.9	0
48	Sulfur dioxide (SO₂) from MIPAS in the upper troposphere and lower stratosphere 2002â€“2012. Atmospheric Chemistry and Physics, 2015, 15, 7017-7037.	1.9	38
49	Seasonal and interannual variations in HCN amounts in the upper troposphere and lower stratosphere observed by MIPAS. Atmospheric Chemistry and Physics, 2015, 15, 563-582.	1.9	21
50	New calibration noise suppression techniques for the GLORIA limb imager. Atmospheric Measurement Techniques, 2015, 8, 3147-3161.	1.2	4
51	Level 2 processing for the imaging Fourier transform spectrometer GLORIA: derivation and validation of temperature and trace gas volume mixing ratios from calibrated dynamics mode spectra. Atmospheric Measurement Techniques, 2015, 8, 2473-2489.	1.2	30
52	Validation of first chemistry mode retrieval results from the new limb-imaging FTS GLORIA with correlative MIPAS-STR observations. Atmospheric Measurement Techniques, 2015, 8, 2509-2520.	1.2	11
53	Stratospheric sulfur and its implications for radiative forcing simulated by the chemistry climate model EMAC. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2103-2118.	1.2	59
54	Chlorine nitrate in the atmosphere over St. Petersburg. Izvestiya - Atmospheric and Oceanic Physics, 2015, 51, 49-56.	0.2	9

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55	Retrieval of three-dimensional small-scale structures in upper-tropospheric/lower-stratospheric composition as measured by GLORIA. Atmospheric Measurement Techniques, 2015, 8, 81-95.	1.2	38
56	Methane and nitrous oxide retrievals from MIPAS-ENVISAT. Atmospheric Measurement Techniques, 2015, 8, 4657-4670.	1.2	20
57	Level 0 to 1 processing of the imaging Fourier transform spectrometer GLORIA: generation of radiometrically and spectrally calibrated spectra. Atmospheric Measurement Techniques, 2014, 7, 4167-4184.	1.2	35
58	Gimballed Limb Observer for Radiance Imaging of the Atmosphere (GLORIA) scientific objectives. Atmospheric Measurement Techniques, 2014, 7, 1915-1928.	1.2	85
59	The added value of a visible channel to a geostationary thermal infrared instrument to monitor ozone for air quality. Atmospheric Measurement Techniques, 2014, 7, 2185-2201.	1.2	23
60	Instrument concept of the imaging Fourier transform spectrometer GLORIA. Atmospheric Measurement Techniques, 2014, 7, 3565-3577.	1.2	82
61	Validation of MIPAS IMK/IAA V5R_O3_224 ozone profiles. Atmospheric Measurement Techniques, 2014, 7, 3971-3987.	1.2	24
62	Scattering in infrared radiative transfer: A comparison between the spectrally averaging model JURASSIC and the line-by-line model KOPRA. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 127, 102-118.	1.1	23
63	Satellite observation of lowermost tropospheric ozone by multispectral synergism of IASI thermal infrared and GOME-2 ultraviolet measurements over Europe. Atmospheric Chemistry and Physics, 2013, 13, 9675-9693.	1.9	97
64	The Australian bushfires of February 2009: MIPAS observations and GEM-AQ model results. Atmospheric Chemistry and Physics, 2013, 13, 1637-1658.	1.9	24
65	Corrigendum to "The Australian bushfires of February 2009: MIPAS observations and GEM-AQ model results" published in Atmos. Chem. Phys., 13, 1637â€“1658, 2013. Atmospheric Chemistry and Physics, 2013, 13, 4373-4373.	1.9	0
66	Sulfur dioxide (SO₂) as observed by MIPAS/Envisat: temporal development and spatial distribution at 15â€“45 km altitude. Atmospheric Chemistry and Physics, 2013, 13, 10405-10423.	1.9	29
67	MIPAS-STR measurements in the Arctic UTLS in winter/spring 2010: instrument characterization, retrieval and validation. Atmospheric Measurement Techniques, 2012, 5, 1205-1228.	1.2	36
68	Global distributions of C₂H₆, C₂H₂, HCN, and PAN retrieved from MIPAS reduced spectral resolution measurements. Atmospheric Measurement Techniques, 2012, 5, 723-734.	1.2	44
69	Fast cloud parameter retrievals of MIPAS/Envisat. Atmospheric Chemistry and Physics, 2012, 12, 7135-7164.	1.9	37
70	Global CFC-11 (CCl₃F) and CFC-12 (CCl₂F₂) measurements with the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS): retrieval, climatologies and trends. Atmospheric Chemistry and Physics, 2012, 12, 11857-11875.	1.9	49
71	Global stratospheric hydrogen peroxide distribution from MIPAS-Envisat full resolution spectra compared to KASIMA model results. Atmospheric Chemistry and Physics, 2012, 12, 4923-4933.	1.9	6
72	The natural greenhouse effect of atmospheric oxygen (O₂) and nitrogen (N₂). Geophysical Research Letters, 2012, 39, .	1.5	11

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73	GRANADA: A Generic RAdiative traNsfer AnD non-LTE population algorithm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1771-1817.	1.1	60
74	Global observations of thermospheric temperature and nitric oxide from MIPAS spectra at 5.3Î¼m. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	46
75	A thermal infrared instrument onboard a geostationary platform for CO and O₃ measurements in the lowermost troposphere: Observing System Simulation Experiments (OSSE). Atmospheric Measurement Techniques, 2011, 4, 1637-1661.	1.2	36
76	Comparison of HDO measurements from Envisat/MIPAS with observations by Odin/SMR and SCISAT/ACE-FTS. Atmospheric Measurement Techniques, 2011, 4, 1855-1874.	1.2	25
77	A geostationary thermal infrared sensor to monitor the lowermost troposphere: O₃ and CO retrieval studies. Atmospheric Measurement Techniques, 2011, 4, 297-317.	1.2	22
78	Corrigendum to "Tropospheric ozone from IASI: comparison of different inversion algorithms and validation with ozone sondes in the northern middle latitudes" published in Atmos. Chem. Phys., 9, 9329â€“9347, doi:10.5194/acp-9-9329-2009, 2009. Atmospheric Chemistry and Physics, 2010, 10, 6345-6345.	1.9	0
79	Global distribution and variability of formic acid as observed by MIPASâ€ENVISAT. Journal of Geophysical Research, 2010, 115, .	3.3	41
80	Retrieval of temperature, H₂O, O₃, HNO₃, CH₄, N₂O, ClONO₂ and ClO from MIPAS reduced resolution nominal mode limb emission measurements. Atmospheric Measurement Techniques, 2009, 2, 159-175.	1.2	215
81	The horizontal resolution of MIPAS. Atmospheric Measurement Techniques, 2009, 2, 47-54.	1.2	58
82	MIPAS reduced spectral resolution UTLS-1 mode measurements of temperature, O₃, HNO₃, N₂O, H₂O and relative humidity over ice: retrievals and comparison to MLS. Atmospheric Measurement Techniques, 2009, 2, 337-353.	1.2	21
83	Validation of water vapour profiles (version 13) retrieved by the IMK/IAA scientific retrieval processor based on full resolution spectra measured by MIPAS on board Envisat. Atmospheric Measurement Techniques, 2009, 2, 379-399.	1.2	28
84	Antarctic winter tropospheric warmingâ€"the potential role of polar stratospheric clouds, a sensitivity study. Atmospheric Science Letters, 2009, 10, 262-266.	0.8	6
85	Comparison between CALIPSO and MIPAS observations of polar stratospheric clouds. Journal of Geophysical Research, 2009, 114, .	3.3	43
86	Measurements of polar mesospheric clouds in infrared emission by MIPAS/ENVISAT. Journal of Geophysical Research, 2009, 114, .	3.3	15
87	Antarctic NAT PSC belt of June 2003: Observational validation of the mountain wave seeding hypothesis. Geophysical Research Letters, 2009, 36, .	1.5	56
88	HOCl chemistry in the Antarctic Stratospheric Vortex 2002, as observed with the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Atmospheric Chemistry and Physics, 2009, 9, 1817-1829.	1.9	14
89	Carbon monoxide distributions from the upper troposphere to the mesosphere inferred from 4.7 Î¼m non-local thermal equilibrium emissions measured by MIPAS on Envisat. Atmospheric Chemistry and Physics, 2009, 9, 2387-2411.	1.9	77
90	Tropospheric ozone from IASI: comparison of different inversion algorithms and validation with ozone sondes in the northern middle latitudes. Atmospheric Chemistry and Physics, 2009, 9, 9329-9347.	1.9	53

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91	Stratospheric BrONO₂ observed by MIPAS. Atmospheric Chemistry and Physics, 2009, 9, 1735-1746.	1.9	26
92	Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2009, 9, 287-343.	1.9	134
93	Large-scale upper tropospheric pollution observed by MIPAS HCN and C₂H₆ global distributions. Atmospheric Chemistry and Physics, 2009, 9, 9619-9634.	1.9	34
94	Validation of NO₂ and NO from the Atmospheric Chemistry Experiment (ACE). Atmospheric Chemistry and Physics, 2008, 8, 5801-5841.	1.9	64
95	Retrieval of global upper tropospheric and stratospheric formaldehyde (H₂CO) distributions from high-resolution MIPAS-Envisat spectra. Atmospheric Chemistry and Physics, 2008, 8, 463-470.	1.9	26
96	Validation of ACE-FTS N₂O measurements. Atmospheric Chemistry and Physics, 2008, 8, 4759-4786.	1.9	76
97	Vertical profile of peroxyacetyl nitrate (PAN) from MIPAS-STR measurements over Brazil in February 2005 and its contribution to tropical UT NO_y partitioning. Atmospheric Chemistry and Physics, 2008, 8, 4891-4902.	1.9	28
98	Intercomparison of ILAS-II version 1.4 and version 2 target parameters with MIPAS-Envisat measurements. Atmospheric Chemistry and Physics, 2008, 8, 825-843.	1.9	12
99	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.	1.9	107
100	Validation of HNO₃, ClONO₂, and N₂O₅ from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). Atmospheric Chemistry and Physics, 2008, 8, 3529-3562.	1.9	75
101	Global distribution of mean age of stratospheric air from MIPAS SF₆ measurements. Atmospheric Chemistry and Physics, 2008, 8, 677-695.	1.9	105
102	HDO measurements with MIPAS. Atmospheric Chemistry and Physics, 2007, 7, 2601-2615.	1.9	56
103	Bias determination and precision validation of ozone profiles from MIPAS-Envisat retrieved with the IMK-IAA processor. Atmospheric Chemistry and Physics, 2007, 7, 3639-3662.	1.9	49
104	Observation of Polar Stratospheric Clouds down to the Mediterranean coast. Atmospheric Chemistry and Physics, 2007, 7, 5275-5281.	1.9	11
105	MIPAS measurements of upper tropospheric C₂H₆ and O₃ during the southern hemispheric biomass burning season in 2003. Atmospheric Chemistry and Physics, 2007, 7, 5861-5872.	1.9	31
106	Validation of nitric acid retrieved by the IMK-IAA processor from MIPAS/ENVISAT measurements. Atmospheric Chemistry and Physics, 2007, 7, 721-738.	1.9	31
107	Validation of MIPAS ClONO₂ measurements. Atmospheric Chemistry and Physics, 2007, 7, 257-281.	1.9	65
108	Global peroxyacetyl nitrate (PAN) retrieval in the upper troposphere from limb emission spectra of the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Atmospheric Chemistry and Physics, 2007, 7, 2775-2787.	1.9	77

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109	Validation of MIPAS HNO₃ operational data. Atmospheric Chemistry and Physics, 2007, 7, 4905-4934.	1.9	48
110	Estimating cirrus cloud properties from MIPAS data. Geophysical Research Letters, 2007, 34, .	1.5	14
111	Evidence for N2OÎ½34.5Î¼m non-local thermodynamic equilibrium emission in the atmosphere. Geophysical Research Letters, 2007, 34, .	1.5	5
112	Global distributions of HO2NO2as observed by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Journal of Geophysical Research, 2007, 112, .	3.3	16
113	Analysis of nonlocal thermodynamic equilibrium CO 4.7Î¼m fundamental, isotopic, and hot band emissions measured by the Michelson Interferometer for Passive Atmospheric Sounding on Envisat. Journal of Geophysical Research, 2007, 112, .	3.3	23
114	Global stratospheric HOCl distributions retrieved from infrared limb emission spectra recorded by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Journal of Geophysical Research, 2006, 111, .	3.3	29
115	Retrieval of stratospheric ozone profiles from MIPAS/ENVISAT limb emission spectra: a sensitivity study. Atmospheric Chemistry and Physics, 2006, 6, 2767-2781.	1.9	49
116	Spectroscopic evidence for NAT, STS, and ice in MIPAS infrared limb emission measurements of polar stratospheric clouds. Atmospheric Chemistry and Physics, 2006, 6, 1201-1219.	1.9	82
117	MIPAS detects Antarctic stratospheric belt of NAT PSCs caused by mountain waves. Atmospheric Chemistry and Physics, 2006, 6, 1221-1230.	1.9	102
118	MIPAS level 2 operational analysis. Atmospheric Chemistry and Physics, 2006, 6, 5605-5630.	1.9	174
119	Vibrationally excited ozone in the middle atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 202-212.	0.6	26
120	Comparisons of MIPAS/ENVISAT and GPS-RO/CHAMP Temperatures. , 2005, , 567-572.		1
121	Comparison of GPS/SAC-C and MIPAS/ENVISAT Temperature Profiles and Its Possible Implementation for EOS MLS Observations. , 2005, , 573-578.		3
122	Three-Dimensional Model Study of the Antarctic Ozone Hole in 2002 and Comparison with 2000. Journals of the Atmospheric Sciences, 2005, 62, 822-837.	0.6	39
123	A comparison of night-time GOMOS and MIPAS ozone profiles in the stratosphere and mesosphere. Advances in Space Research, 2005, 36, 958-966.	1.2	22
124	Comparison of single and multiple scattering approaches for the simulation of limb-emission observations in the mid-IR. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 91, 275-285.	1.1	33
125	Ozone profiles and total column amounts derived at IzaÃ±a, Tenerife Island, from FTIR solar absorption spectra, and its validation by an intercomparison to ECC-sonde and Brewer spectrometer measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 91, 245-274.	1.1	33
126	GLObal limb Radiance Imager for the Atmosphere (GLORIA): Scientific objectives. Advances in Space Research, 2005, 36, 989-995.	1.2	68

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127	Retrieval of stratospheric and mesospheric O3 from high resolution MIPAS spectra at 15 and 10 Î¼m. Advances in Space Research, 2005, 36, 943-951.	1.2	21
128	Comparisons of MIPAS/ENVISAT ozone profiles with SMR/ODIN and HALOE/UARS observations. Advances in Space Research, 2005, 36, 927-931.	1.2	9
129	Cross comparisons of O3 and NO2 measured by the atmospheric ENVISAT instruments GOMOS, MIPAS, and SCIAMACHY. Advances in Space Research, 2005, 36, 855-867.	1.2	34
130	Mixing Processes during the Antarctic Vortex Split in Septemberâ€“October 2002 as Inferred from Source Gas and Ozone Distributions from ENVISATâ€“MIPAS. Journals of the Atmospheric Sciences, 2005, 62, 787-800.	0.6	74
131	Tomographic retrieval of atmospheric parameters from infrared limb emission observations. Applied Optics, 2005, 44, 3291.	2.1	43
132	Retrieval of stratospheric NOxfrom 5.3 and 6.2 Î¼m nonlocal thermodynamic equilibrium emissions measured by Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) on Envisat. Journal of Geophysical Research, 2005, 110, .	3.3	84
133	NOyfrom Michelson Interferometer for Passive Atmospheric Sounding on Environmental Satellite during the Southern Hemisphere polar vortex split in September/October 2002. Journal of Geophysical Research, 2005, 110, .	3.3	32
134	Validation of stratospheric temperatures measured by Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) on Envisat. Journal of Geophysical Research, 2005, 110, .	3.3	16
135	Longitudinal variations of temperature and ozone profiles observed by MIPAS during the Antarctic stratosphere sudden warming of 2002. Journal of Geophysical Research, 2005, 110, .	3.3	9
136	Observation of NOxenhancement and ozone depletion in the Northern and Southern Hemispheres after the October-November 2003 solar proton events. Journal of Geophysical Research, 2005, 110, .	3.3	132
137	HNO3, N2O5, and ClONO2enhancements after the October-November 2003 solar proton events. Journal of Geophysical Research, 2005, 110, .	3.3	69
138	Experimental evidence of perturbed odd hydrogen and chlorine chemistry after the October 2003 solar proton events. Journal of Geophysical Research, 2005, 110, .	3.3	55
139	Water vapor distributions measured with the Michelson Interferometer for Passive Atmospheric Sounding on board Envisat (MIPAS/Envisat). Journal of Geophysical Research, 2005, 110, .	3.3	63
140	An enhanced HNO3second maximum in the Antarctic midwinter upper stratosphere 2003. Journal of Geophysical Research, 2005, 110, .	3.3	52
141	Study on the impact of polar stratospheric clouds on high resolution mid-IR limb emission spectra. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 83, 93-107.	1.1	39
142	First results of MIPAS/ENVISAT with operational Level 2 code. Advances in Space Research, 2004, 33, 1012-1019.	1.2	51
143	Intercomparison of retrieval codes used for the analysis of high-resolution, ground-based FTIR measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 87, 25-52.	1.1	315
144	Feasibility of measurements of water vapor and ice clouds in the tropical UT/LS region with MIPAS/Envisat. Advances in Space Research, 2004, 34, 815-819.	1.2	0

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145	Spaceborne ClO observations by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) before and during the Antarctic major warming in September/October 2002. Journal of Geophysical Research, 2004, 109, .	3.3	41
146	Correction to â€œVery early chlorine activation and ozone loss in the Arctic winter 2002â€“2003â€• Geophysical Research Letters, 2004, 31, .	1.5	0
147	First spaceborne observations of Antarctic stratospheric ClONO2recovery: Austral spring 2002. Journal of Geophysical Research, 2004, 109, .	3.3	40
148	Stratospheric N2O5in the austral spring 2002 as retrieved from limb emission spectra recorded by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Journal of Geophysical Research, 2004, 109, .	3.3	25
149	Cross-validation of MIPAS/ENVISAT and GPS-RO/CHAMP temperature profiles. Journal of Geophysical Research, 2004, 109, .	3.3	27
150	The ISSWG line-by-line inter-comparison experiment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 77, 433-453.	1.1	62
151	Modelling of atmospheric mid-infrared radiative transfer: the AMIL2DA algorithm intercomparison experiment. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 78, 381-407.	1.1	45
152	Very early chlorine activation and ozone loss in the Arctic winter 2002-2003. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	19
153	Retrieval of temperature and tangent altitude pointing from limb emission spectra recorded from space by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Journal of Geophysical Research, 2003, 108, .	3.3	242
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