

Bernd Funke

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

241
papers

6,816
citations

46
h-index

70
g-index

301
ext. papers

7,810
ext. citations

5.3
avg, IF

5.11
L-index

#	Paper	IF	Citations
241	Exceptional middle latitude electron precipitation detected by balloon observations: implications for atmospheric composition. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 6703-6716	6.8	1
240	Overview and update of the SPARC Data Initiative: comparison of stratospheric composition measurements from satellite limb sounders. <i>Earth System Science Data</i> , 2021 , 13, 1855-1903	10.5	3
239	IMK/IAA MIPAS temperature retrieval version 8: nominal measurements. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 4111-4138	4	3
238	Spectroscopy, gas kinetics, and opacity of thermospheric nitric oxide and implications for analysis of SABER infrared emission measurements at 5.3 μm . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 268, 107609	2.1	3
237	CO ₂ retrievals in the Mars daylight thermosphere from its 4.3 μm limb emission measured by OMEGA/MEx. <i>Icarus</i> , 2021 , 353, 113830	3.8	1
236	Ionospheric response to solar and magnetospheric protons during January 15 ⁰² , 2005: EAGLE whole atmosphere model results. <i>Advances in Space Research</i> , 2021 , 67, 133-149	2.4	4
235	NRLMSIS 2.0: A Whole-Atmosphere Empirical Model of Temperature and Neutral Species Densities. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001321	3.1	28
234	Observational evidence of energetic particle precipitation NO _x (EPP-NO _x) interaction with chlorine curbing Antarctic ozone loss. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2819-2836	6.8	1
233	Role Of the Sun and the Middle atmosphere/thermosphere/ionosphere In Climate (ROSMIC): a retrospective and prospective view. <i>Progress in Earth and Planetary Science</i> , 2021 , 8,	3.9	6
232	First Detection of a Brief Mesoscale Elevated Stratopause in Very Early Winter. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086751	4.9	2
231	Overview: Estimating and reporting uncertainties in remotely sensed atmospheric composition and temperature. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4393-4436	4	16
230	Recovery and validation of Odin/SMR long-term measurements of mesospheric carbon monoxide. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 5013-5031	4	1
229	Energetic electron precipitation into the atmosphere 2020 , 279-321		3
228	Reactive nitrogen (NO _y) and ozone responses to energetic electron precipitation during Southern Hemisphere winter. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9485-9494	6.8	3
227	Climatology of CH ₄ , HCN and C ₂ H ₂ in Titan's upper atmosphere from Cassini/VIMS observations. <i>Icarus</i> , 2019 , 331, 83-97	3.8	5
226	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. <i>Nature</i> , 2019 , 568, 517-520	50.4	68
225	Martian dust storm impact on atmospheric HO and D/H observed by ExoMars Trace Gas Orbiter. <i>Nature</i> , 2019 , 568, 521-525	50.4	72

224	Validation of Solar Occultation for Ice Experiment (SOFIE) nitric oxide measurements. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 3111-3121	4	4
223	Identification of the mechanisms responsible for anomalies in the tropical lower thermosphere/ionosphere caused by the January 2009 sudden stratospheric warming. <i>Journal of Space Weather and Space Climate</i> , 2019 , 9, A39	2.5	7
222	Global EAGLE Model as a Tool for Studying the Influence of the Atmosphere on the Electric Field in the Equatorial Ionosphere. <i>Russian Journal of Physical Chemistry B</i> , 2019 , 13, 720-726	1.2	2
221	Atmospheric Effects of >30-keV Energetic Electron Precipitation in the Southern Hemisphere Winter During 2003. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8138-8153	2.6	12
220	Water vapor detection in the transmission spectra of HD 209458 b with the CARMENES NIR channel. <i>Astronomy and Astrophysics</i> , 2019 , 630, A53	5.1	31
219	NO _x production, ozone loss and changes in net radiative heating due to energetic particle precipitation in 2002-2010. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1115-1147	6.8	23
218	PANIC: A General-purpose Panoramic Near-infrared Camera for the Calar Alto Observatory. <i>Publications of the Astronomical Society of the Pacific</i> , 2018 , 130, 025003	5	0
217	Modeling of Nonlocal Thermodynamic Equilibrium Effects in the Classical and Principal Component-Based Version of the RTTOV Fast Radiative Transfer Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 5741-5761	4.4	7
216	MIPAS observations of ozone in the middle atmosphere. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2187-2212	4	7
215	Aerosols and Water Ice in Jupiter's Stratosphere from UV-NIR Ground-based Observations. <i>Astronomical Journal</i> , 2018 , 156, 169	4.9	3
214	Ionospheric Effects of the Sudden Stratospheric Warming in 2009: Results of Simulation with the First Version of the EAGLE Model. <i>Russian Journal of Physical Chemistry B</i> , 2018 , 12, 760-770	1.2	7
213	On the improved stability of the version 7 MIPAS ozone record. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 4693-4705	4	4
212	NOMAD, an Integrated Suite of Three Spectrometers for the ExoMars Trace Gas Mission: Technical Description, Science Objectives and Expected Performance. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	57
211	NO _x production, ozone loss and changes in net radiative heating due to energetic particle precipitation in 2002-2010 2017 ,		1
210	Solar forcing for CMIP6 (v3.2). <i>Geoscientific Model Development</i> , 2017 , 10, 2247-2302	6.3	199
209	Shift of subtropical transport barriers explains observed hemispheric asymmetry of decadal trends of age of air 2017 ,		1
208	MIPAS IMK/IAA carbon tetrachloride (CCl ₄) retrieval and first comparison with other instruments. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 2727-2743	4	2
207	Validation of the MIPAS CO ₂ volume mixing ratio in the mesosphere and lower thermosphere and comparison with WACCM simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8345-8356	4.4	10

206	CO concentration in the upper stratosphere and mesosphere of Titan from VIMS dayside limb observations at 4.7 μm . <i>Icarus</i> , 2017 , 293, 119-131	3.8	3
205	ACE-FTS ozone, water vapour, nitrous oxide, nitric acid, and carbon monoxide profile comparisons with MIPAS and MLS. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 186, 63-80	2.1	33
204	Shift of subtropical transport barriers explains observed hemispheric asymmetry of decadal trends of age of air. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11177-11192	6.8	25
203	Hemispheric asymmetry in stratospheric NO ₂ trends. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 13373-13389	6.8	9
202	HEPPA-II model-measurement intercomparison project: EPP indirect effects during the dynamically perturbed NH winter 2008-2009. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3573-3604	6.8	41
201	Effect of volcanic aerosol on stratospheric NO ₂ and N ₂ O ₅ from 2002-2014 as measured by Odin-OSIRIS and Envisat-MIPAS. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 8063-8080	6.8	8
200	On the secular trend of CO _x and CO ₂ in the lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 3634-3644	4.4	19
199	MIPAS observations of longitudinal oscillations in the mesosphere and the lower thermosphere: climatology of odd-parity daily frequency modes. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 11019-11041	6.8	3
198	Measurements of global distributions of polar mesospheric clouds during 2005-2012 by MIPAS/Envisat. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6701-6719	6.8	9
197	A semi-empirical model for mesospheric and stratospheric NO ₂ produced by energetic particle precipitation. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 8667-8693	6.8	13
196	Validation of ACE-FTS version 3.5 NO ₂ species profiles using correlative satellite measurements. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 5781-5810	4	19
195	Global distributions of CO ₂ volume mixing ratio in the middle and upper atmosphere from daytime MIPAS high-resolution spectra. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 6081-6100	4	7
194	The SPARC Data Initiative: comparisons of CFC-11, CFC-12, HF and SF ₆ climatologies from international satellite limb sounders. <i>Earth System Science Data</i> , 2016 , 8, 61-78	10.5	10
193	Solar Forcing for CMIP6 (v3.1) 2016 ,		19
192	The Detection and Attribution Model Intercomparison Project (DAMIP v1.0) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 3685-3697	6.3	124
191	MIPAS IMK/IAA CFC-11 (CCl ₃ F) and CFC-12 (CCl ₂ F ₂) measurements: accuracy, precision and long-term stability. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3355-3389	4	12
190	Nitrous oxide in the atmosphere: First measurements of a lower thermospheric source. <i>Geophysical Research Letters</i> , 2016 , 43, 2866-2872	4.9	12
189	Transport versus energetic particle precipitation: Northern polar stratospheric NO _x and ozone in January-March 2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6085-6100	4.4	18

188	Energetic particle precipitation: A major driver of the ozone budget in the Antarctic upper stratosphere. <i>Geophysical Research Letters</i> , 2016 , 43, 3554-3562	4.9	30
187	Sensitivity of simulated mesospheric transport of nitrogen oxides to parameterized gravity waves. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,045-12,061	4.4	15
186	The influence of Middle Range Energy Electrons on atmospheric chemistry and regional climate. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016 , 149, 180-190	2	44
185	Rotational temperatures of Venus upper atmosphere as measured by SOIR on board Venus Express. <i>Planetary and Space Science</i> , 2015 , 113-114, 347-358	2	29
184	Science objectives and performances of NOMAD, a spectrometer suite for the ExoMars TGO mission. <i>Planetary and Space Science</i> , 2015 , 119, 233-249	2	63
183	Vibrational-vibrational and vibrational-thermal energy transfers of CO ₂ with N ₂ from MIPAS high-resolution limb spectra. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 8002-8022	4.4	8
182	Measuring and modeling the lifetime of nitrous oxide including its variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5693-5705	4.4	90
181	Simulation of energetic particle precipitation effects during the 2003-2004 Arctic winter. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5035-5048	2.6	45
180	Sulfur dioxide (SO ₂) from MIPAS in the upper troposphere and lower stratosphere 2002-2012. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7017-7037	6.8	32
179	Reassessment of MIPAS age of air trends and variability. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13161-13176	6.8	63
178	Seasonal and interannual variations in HCN amounts in the upper troposphere and lower stratosphere observed by MIPAS. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 563-582	6.8	15
177	A method for merging nadir-sounding climate records, with an application to the global-mean stratospheric temperature data sets from SSU and AMSU. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9271-9284	6.8	16
176	Comparison of nitric oxide measurements in the mesosphere and lower thermosphere from ACE-FTS, MIPAS, SCIAMACHY, and SMR. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 4171-4195	4	13
175	RADIATION TRANSFER IN THE ATMOSPHERE Non-Local Thermodynamic Equilibrium 2015 , 16-26		1
174	On the distribution of CO ₂ and CO in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5700-5718	4.4	74
173	Local impact of solar variation on NO ₂ in the lower mesosphere and upper stratosphere from 2007 to 2012. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4055-4064	6.8	8
172	Middle atmospheric changes caused by the January and March 2012 solar proton events. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1025-1038	6.8	35
171	Variability of NO _x in the polar middle atmosphere from October 2003 to March 2004: vertical transport vs. local production by energetic particles. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7681-7692	6.8	15

170	The SPARC Data Initiative: Comparison of upper troposphere/lower stratosphere ozone climatologies from limb-viewing instruments and the nadir-viewing Tropospheric Emission Spectrometer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6971-6990	4.4	11
169	Mesospheric and stratospheric NO _y produced by energetic particle precipitation during 2002-2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4429-4446	4.4	61
168	Changes in the composition of the northern polar upper stratosphere in February 2009 after a sudden stratospheric warming. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 11,429-11,444	4.4	8
167	Vertical structure of stratospheric water vapour trends derived from merged satellite data. <i>Nature Geoscience</i> , 2014 , 7, 768-776	18.3	123
166	Comparison of nitric oxide measurements in the mesosphere and lower thermosphere from ACE-FTS, MIPAS, SCIAMACHY, and SMR 2014 ,		2
165	Insights on nitrate sources at Dome C (East Antarctic Plateau) from multi-year aerosol and snow records. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2014 , 66, 22550	3.3	16
164	MIPAS temperature from the stratosphere to the lower thermosphere: Comparison of vM21 with ACE-FTS, MLS, OSIRIS, SABER, SOFIE and lidar measurements. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3633-3651	4	26
163	Nighttime ozone variability in the high latitude winter mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,547-13,564	4.4	12
162	Hemispheric distributions and interannual variability of NO _y produced by energetic particle precipitation in 2002-2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,565-13,582	4.4	34
161	The Influence of Energetic Particles on the Chemistry of the Middle Atmosphere. <i>Springer Atmospheric Sciences</i> , 2013 , 247-273	0.7	2
160	An unidentified emission in Titan's upper atmosphere. <i>Geophysical Research Letters</i> , 2013 , 40, 1489-1493	4.9	34
159	Satellite observations of ozone in the upper mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5803-5821	4.4	55
158	LARGE ABUNDANCES OF POLYCYCLIC AROMATIC HYDROCARBONS IN TITAN'S UPPER ATMOSPHERE. <i>Astrophysical Journal</i> , 2013 , 770, 132	4.7	81
157	An observational and theoretical study of the longitudinal variation in neutral temperature induced by aurora heating in the lower thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7410-7425	2.6	21
156	Impact of tropospheric tides on the nitric oxide 5.3 μ m infrared cooling of the low-latitude thermosphere during solar minimum conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7283-7293	2.6	19
155	The solar proton events in 2012 as observed by MIPAS. <i>Geophysical Research Letters</i> , 2013 , 40, 2339-2343	4.9	37
154	Retrieval of nitric oxide in the mesosphere and lower thermosphere from SCIAMACHY limb spectra. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2521-2531	4	14
153	Lifetime and production rate of NO _x in the upper stratosphere and lower mesosphere in the polar spring/summer after the solar proton event in October-November 2003. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2531-2539	6.8	12

152	The Australian bushfires of February 2009: MIPAS observations and GEM-AQ model results. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 1637-1658	6.8	21
151	Sulfur dioxide (SO ₂) as observed by MIPAS/Envisat: temporal development and spatial distribution at 15–5 km altitude. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10405-10423	6.8	24
150	SPARC Data Initiative: A comparison of ozone climatologies from international satellite limb sounders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,229-12,247	4.4	56
149	SPARC Data Initiative: Comparison of water vapor climatologies from international satellite limb sounders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,824-11,846	4.4	67
148	Characterizing sampling biases in the trace gas climatologies of the SPARC Data Initiative. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,847	4.4	39
147	Global Long-Term MIPAS Data Processing 2013 , 557-567		
146	Analysis of averaged broadband residuals between MIPAS-Envisat spectra and line-by-line calculations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012 , 113, 1330-1339	2.1	3
145	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, n/a-n/a		81
144	Process-evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopic observations: 2. Using isotopic diagnostics to understand the mid and upper tropospheric moist bias in the tropics and subtropics. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		66
143	Atmospheric effects of energetic particle precipitation in the Arctic winter 1978–1979 revisited. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		11
142	GRANADA: A Generic Radiative traNsfer ANd non-LTE population algorithm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012 , 113, 1771-1817	2.1	50
141	Six years of mesospheric CO estimated from ground-based frequency-switched microwave radiometry at 57°N compared with satellite instruments. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2827-2841	4	17
140	How to average logarithmic retrievals?. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 831-841	4	10
139	Validation of MIPAS IMK/IAA temperature, water vapor, and ozone profiles with MOHAVE-2009 campaign measurements. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 289-320	4	63
138	The global picture of the atmospheric composition provided by MIPAS on Envisat 2012 ,		2
137	Six years of mesospheric CO estimated from ground-based frequency-switched microwave radiometry at 57°N compared with satellite instruments 2012 ,		1
136	Global CFC-11 (CCl ₃ F) and CFC-12 (CCl ₂ F ₂) measurements with the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS): retrieval, climatologies and trends. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11857-11875	6.8	42
135	The MIPAS HOCl climatology. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1965-1977	6.8	16

134	Observed temporal evolution of global mean age of stratospheric air for the 2002 to 2010 period. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3311-3331	6.8	151
133	Impact of January 2005 solar proton events on chlorine species. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4159-4179	6.8	17
132	On the quality of MIPAS kinetic temperature in the middle atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6009-6039	6.8	22
131	Global observations of thermospheric temperature and nitric oxide from MIPAS spectra at 5.3 h. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		33
130	Northern Hemisphere atmospheric influence of the solar proton events and ground level enhancement in January 2005. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6153-6166	6.8	60
129	Composition changes after the "Halloween" solar proton event: the High Energy Particle Precipitation in the Atmosphere (HEPPA) model versus MIPAS data intercomparison study. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9089-9139	6.8	113
128	Modeling the atmospheric limb emission of CO ₂ at 4.3 h in the terrestrial planets. <i>Planetary and Space Science</i> , 2011 , 59, 988-998	2	18
127	Non-LTE CO limb emission at in the upper atmosphere of Venus, Mars and Earth: Observations and modeling. <i>Planetary and Space Science</i> , 2011 , 59, 1010-1018	2	12
126	Analysis of Titan CH ₄ 3.3 h upper atmospheric emission as measured by Cassini/VIMS. <i>Icarus</i> , 2011 , 214, 571-583	3.8	20
125	Distribution of HCN in Titan's upper atmosphere from Cassini/VIMS observations at 3 h. <i>Icarus</i> , 2011 , 214, 584-595	3.8	24
124	Validation of MIPAS IMK/IAA temperature, water vapor, and ozone profiles with MOHAVE-2009 campaign measurements 2011 ,		5
123	How to average logarithmic retrievals 2011 ,		1
122	Observation of strato-mesospheric CO above Kiruna with ground-based microwave radiometry □ retrieval and satellite comparison 2011 ,		1
121	Observation of strato-mesospheric CO above Kiruna with ground-based microwave radiometry □ retrieval and satellite comparison. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 2389-2408	4	27
120	Global Long-Term MIPAS Data Processing: Some Aspects of the Dynamics of the Atmosphere from Lower Stratosphere to Lower Thermosphere 2011 , 501-513		
119	Evidence for dynamical coupling from the lower atmosphere to the thermosphere during a major stratospheric warming. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	70
118	Do vibrationally excited OH molecules affect middle and upper atmospheric chemistry?. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9953-9964	6.8	6
117	Energetic particle precipitation in ECHAM5/MESSy [Part 2: Solar proton events. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7285-7302	6.8	21

116	The Impact of Energetic Particle Precipitation on the Earth's Atmosphere. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2010 , 181-189	0.3	1
115	Retrieval of temperature, H ₂ O, O ₃ , HNO ₃ , CH ₄ , N ₂ O, ClONO ₂ and ClO from MIPAS reduced resolution nominal mode limb	4	181
114	MIPAS reduced spectral resolution UTLS-1 mode measurements of temperature, O ₃ , HNO ₃ , N ₂ O, H ₂ O and relative humidity over ice: retrievals and comparison to MLS.	4	17
113	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. <i>Atmospheric Measurement Techniques</i> , 2009 , 2, 379-399	4	25
112	Measurements of polar mesospheric clouds in infrared emission by MIPAS/ENVISAT. <i>Journal of Geophysical Research</i> , 2009 , 114,		13
111	HOCl chemistry in the Antarctic Stratospheric Vortex 2002, as observed with the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1817-1829	6.8	9
110	Carbon monoxide distributions from the upper troposphere to the mesosphere inferred from 4.7 μ m non-local thermal equilibrium emissions measured by MIPAS on Envisat. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2387-2411	6.8	71
109	Large-scale upper tropospheric pollution observed by MIPAS HCN and C ₂ H ₆ ; global distributions. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9619-9634	6.8	26
108	About the increase of HNO ₃ in the stratopause region during the Halloween 2003 solar proton event. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	36
107	Errors in Sounding of the Atmosphere using Broadband Emission Radiometry (SABER) kinetic temperature caused by non-local-thermodynamic-equilibrium model parameters. <i>Journal of Geophysical Research</i> , 2008 , 113,		79
106	Enhancement of N ₂ O during the October/November 2003 solar proton events. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3805-3815	6.8	22
105	Model simulations of stratospheric ozone loss caused by enhanced mesospheric NO _x during Arctic Winter 2003/2004. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5279-5293	6.8	28
104	Validation of NO ₂ and NO from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5801-5841	6.8	54
103	Short- and medium-term atmospheric constituent effects of very large solar proton events. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 765-785	6.8	133
102	Retrieval of global upper tropospheric and stratospheric formaldehyde (H ₂ CO) distributions from high-resolution MIPAS-Envisat spectra. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 463-470	6.8	25
101	Mesospheric N ₂ O enhancements as observed by MIPAS on Envisat during the polar winters in 2002-2004. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5787-5800	6.8	25
100	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	6.8	91
99	Global distribution of mean age of stratospheric air from MIPAS SF ₆ measurements. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 677-695	6.8	87

98	Chemical heating rates derived from SCIAMACHY vibrationally excited OH limb emission spectra. <i>Advances in Space Research</i> , 2008 , 41, 1914-1920	2.4	17
97	Fast forward radiative transfer modeling of 4.3 μm nonlocal thermodynamic equilibrium effects for infrared temperature sounders. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	21
96	Evidence for N ₂ O \approx 4.5 μm non-local thermodynamic equilibrium emission in the atmosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	5
95	Comparison of nighttime nitric oxide 5.3 μm emissions in the thermosphere measured by MIPAS and SABER. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		16
94	Ozone loss driven by nitrogen oxides and triggered by stratospheric warmings can outweigh the effect of halogens. <i>Journal of Geophysical Research</i> , 2007 , 112,		29
93	Global distributions of HO ₂ NO ₂ as observed by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). <i>Journal of Geophysical Research</i> , 2007 , 112,		16
92	Analysis of nonlocal thermodynamic equilibrium CO 4.7 μm fundamental, isotopic, and hot band emissions measured by the Michelson Interferometer for Passive Atmospheric Sounding on Envisat. <i>Journal of Geophysical Research</i> , 2007 , 112,		22
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17	Short- and medium-term atmospheric effects of very large solar proton events	5
16	Retrieval of global upper tropospheric and stratospheric formaldehyde (H ₂ CO) distributions from high-resolution MIPAS-Envisat spectra	1
15	Global distribution of mean age of stratospheric air from MIPAS SF ₆ measurements	4
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13	CO measurements from the ACE-FTS satellite instrument: data analysis and validation using ground-based, airborne and spaceborne observations	1
12	Validation of MIPAS-ENVISAT NO ₂ ; operational data	4
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