

Manuel Lopez-Puertas

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.

225
papers

7,642
citations

49
h-index

75
g-index

259
ext. papers

8,563
ext. citations

4.9
avg, IF

5.13
L-index

#	Paper	IF	Citations
225	Level2 processor and auxiliary data for ESA Version 8 final full mission analysis of MIPAS measurements on ENVISAT. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 1871-1901	4	0
224	Modelling the He I triplet absorption at 10 830 Å in the atmospheres of HD 189733 b and GJ 3470 b. <i>Astronomy and Astrophysics</i> , 2021 , 647, A129	5.1	8
223	Evidence of energy-, recombination-, and photon-limited escape regimes in giant planet H/He atmospheres. <i>Astronomy and Astrophysics</i> , 2021 , 648, L7	5.1	6
222	IMK/IAA MIPAS temperature retrieval version 8: nominal measurements. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 4111-4138	4	3
221	Spectroscopy, gas kinetics, and opacity of thermospheric nitric oxide and implications for analysis of SABER infrared emission measurements at 5.3 μ m. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 268, 107609	2.1	3
220	CO ₂ retrievals in the Mars daylight thermosphere from its 4.3 μ m limb emission measured by OMEGA/MEx. <i>Icarus</i> , 2021 , 353, 113830	3.8	1
219	The ESA MIPAS/Envisat level2-v8 dataset: 10 years of measurements retrieved with ORM v8.22. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 7975-7998	4	1
218	First Detection of a Brief Mesoscale Elevated Stratopause in Very Early Winter. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086751	4.9	2
217	Distinguishing between Wet and Dry Atmospheres of TRAPPIST-1 e and f. <i>Astrophysical Journal</i> , 2020 , 901, 126	4.7	12
216	Modelling the He I triplet absorption at 10 830 Å in the atmosphere of HD 209458 b. <i>Astronomy and Astrophysics</i> , 2020 , 636, A13	5.1	22
215	Discriminating between hazy and clear hot-Jupiter atmospheres with CARMENES. <i>Astronomy and Astrophysics</i> , 2020 , 643, A24	5.1	6
214	Improving the Understanding of CrIS Full Spectral Resolution Nonlocal Thermodynamic Equilibrium Radiances Using Spectral Correlation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032710	4.4	1
213	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
212	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. <i>Nature</i> , 2019 , 568, 517-520	50.4	68
211	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
210	Multiple water band detections in the CARMENES near-infrared transmission spectrum of HD 189733 b. <i>Astronomy and Astrophysics</i> , 2019 , 621, A74	5.1	38
209	Methane on Mars: New insights into the sensitivity of CH ₄ with the NOMAD/ExoMars spectrometer through its first in-flight calibration. <i>Icarus</i> , 2019 , 321, 671-690	3.8	24

208	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
207	MIPAS observations of ozone in the middle atmosphere. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2187-2212	4	7
206	Spatial and Temporal Structure of the Tertiary Ozone Maximum in the Polar Winter Mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4373-4389	4.4	7
205	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared 2018 ,		29
204	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018 , 609, A117	5.1	71
203	Detection of He I λ 0830 A absorption on HD 189733 b with CARMENES high-resolution transmission spectroscopy. <i>Astronomy and Astrophysics</i> , 2018 , 620, A97	5.1	80
202	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018 , 609, L5	5.1	35
201	Ground-based detection of an extended helium atmosphere in the Saturn-mass exoplanet WASP-69b. <i>Science</i> , 2018 , 362, 1388-1391	33.3	117
200	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018 , 612, A49	5.1	118
199	Aerosols and Water Ice in Jupiter's Stratosphere from UV-NIR Ground-based Observations. <i>Astronomical Journal</i> , 2018 , 156, 169	4.9	3
198	On the improved stability of the version 7 MIPAS ozone record. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 4693-4705	4	4
197	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
196	On Long-Term SABER CO ₂ Trends and Effects Due to Nonuniform Space and Time Sampling. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7958-7967	2.6	11
195	Mesospheric OH layer altitude at midlatitudes: variability over the Sierra Nevada Observatory in Granada, Spain (37°N, 3°W). <i>Annales Geophysicae</i> , 2017 , 35, 1151-1164	2	9
194	Semidiurnal tidal activity of the middle atmosphere at mid-latitudes derived from O ₂ atmospheric and OH(6-2) airglow SATI observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 164, 116-126	2	5
193	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, 8345-8366	4.4	10
192	ALMA Discovery of Dust Belts around Proxima Centauri. <i>Astrophysical Journal Letters</i> , 2017 , 850, L6	7.9	48
191	CO concentration in the upper stratosphere and mesosphere of Titan from VIMS dayside limb observations at 4.7 μ m. <i>Icarus</i> , 2017 , 293, 119-131	3.8	3

190	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
189	Optical and radiometric models of the NOMAD instrument part II: the infrared channels - SO and LNO. <i>Optics Express</i> , 2016 , 24, 3790-805	3.3	16
188	CARMENES: an overview six months after first light 2016 ,		49
187	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
186	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
185	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
184	A semi-empirical model for mesospheric and stratospheric NO _x produced by energetic particle precipitation. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 8667-8693	6.8	13
183	Expected performances of the NOMAD/ExoMars instrument. <i>Planetary and Space Science</i> , 2016 , 124, 94-104	2	26
182	Titan Science with the James Webb Space Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2016 , 128, 018007	5	11
181	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
180	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
179	JUPITER AS AN EXOPLANET: UV TO NIR TRANSMISSION SPECTRUM REVEALS HAZES, A Na LAYER, AND POSSIBLY STRATOSPHERIC H ₂ O-ICE CLOUDS. <i>Astrophysical Journal Letters</i> , 2015 , 801, L8	7.9	28
178	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
177	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
176	Optical and radiometric models of the NOMAD instrument part I: the UVIS channel. <i>Optics Express</i> , 2015 , 23, 30028-42	3.3	18
175	The heating efficiency of the exothermic reaction H ₂ +O ₃ in the mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 12739-12747	4.4	4
174	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
173	Increasing carbon dioxide concentration in the upper atmosphere observed by SABER. <i>Geophysical Research Letters</i> , 2015 , 42, 7194-7199	4.9	28

172	The EChO science case. <i>Experimental Astronomy</i> , 2015 , 40, 329-391	1.3	26
171	The NIR transmission spectrum of Jupiter from the observation of a Ganymede eclipse. <i>EPJ Web of Conferences</i> , 2015 , 101, 06048	0.3	
170	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
169	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
168	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
167	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
166	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
165	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
164	Comparison of nitric oxide measurements in the mesosphere and lower thermosphere from ACE-FTS, MIPAS, SCIAMACHY, and SMR 2014 ,		2
163	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
162	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
161	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
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	The solar proton events in 2012 as observed by MIPAS. <i>Geophysical Research Letters</i> , 2013 , 40, 2339-2343	4.9	37
155	Ten years of MIPAS measurements with ESA Level 2 processor V6 [Part 1: Retrieval algorithm and diagnostics of the products. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2419-2439	4	55

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	Ten years of MIPAS measurements with ESA Level 2 processor V6 [Part I: retrieval algorithm and diagnostics of the products 2013 ,		2
152	Radiative and energetic constraints on the global annual mean atomic oxygen concentration in the mesopause region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5796-5802	4.4	20
151	EChO. <i>Experimental Astronomy</i> , 2012 , 34, 311-353	1.3	82
150	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
149	The global picture of the atmospheric composition provided by MIPAS on Envisat 2012 ,		2
148	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
147	Impact of January 2005 solar proton events on chlorine species. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4159-4179	6.8	17
146	On the quality of MIPAS kinetic temperature in the middle atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6009-6039	6.8	22
145	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
144	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
143	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
142	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
141	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
140	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
139	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
138	Observations of infrared radiative cooling in the thermosphere on daily to multiyear timescales from the TIMED/SABER instrument. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		86
137	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

136	The science of EChO. <i>Proceedings of the International Astronomical Union</i> , 2010 , 6, 359-370	0.1	3
135	Do vibrationally excited OH molecules affect middle and upper atmospheric chemistry?. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9953-9964	6.8	6
134	The Impact of Energetic Particle Precipitation on the Earths Atmosphere. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2010 , 181-189	0.3	1
133	Kinetic temperature and carbon dioxide from broadband infrared limb emission measurements taken from the TIMED/SABER instrument. <i>Advances in Space Research</i> , 2009 , 43, 15-27	2.4	44
132	Influence of solar-geomagnetic disturbances on SABER measurements of 4.3 μ m emission and the retrieval of kinetic temperature and carbon dioxide. <i>Advances in Space Research</i> , 2009 , 43, 1325-1336	2.4	8
131	SABER observations of mesospheric ozone during NH late winter 2002-2009. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	52
130	Measurements of polar mesospheric clouds in infrared emission by MIPAS/ENVISAT. <i>Journal of Geophysical Research</i> , 2009 , 114,		13
129	Validation of Thermosphere Ionosphere Mesosphere Energetics and Dynamics/Sounding of the Atmosphere using Broadband Emission Radiometry (TIMED/SABER) v1.07 ozone at 9.6 μ m in altitude range 15-70 km. <i>Journal of Geophysical Research</i> , 2009 , 114,		37
128	Daytime SABER/TIMED observations of water vapor in the mesosphere: retrieval approach and first results. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8139-8158	6.8	22
127	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
126	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
125	Assessment of the quality of the Version 1.07 temperature-versus-pressure profiles of the middle atmosphere from TIMED/SABER. <i>Journal of Geophysical Research</i> , 2008 , 113,		304
124	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
123	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
122	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
121	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
120	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
119	Ozone profile retrieval from limb scatter measurements in the HARTLEY bands: further retrieval details and profile comparisons. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2509-2517	6.8	6

118	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
117	MIPAS: an instrument for atmospheric and climate research. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2151-2188	6.8	502
116	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
115	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
114	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
113	Fast forward radiative transfer modeling of 4.3 μ m nonlocal thermodynamic equilibrium effects for infrared temperature sounders. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	21
112	Evidence for N ₂ O 4.5 μ m non-local thermodynamic equilibrium emission in the atmosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	5
111	Comparison of nighttime nitric oxide 5.3 μ m emissions in the thermosphere measured by MIPAS and SABER. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		16
110	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
109	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
108	Analysis of nonlocal thermodynamic equilibrium CO 4.7 μ m 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
107	Ground-based mesospheric temperatures at mid-latitude derived from O ₂ and OH airglow SATI data: Comparison with SABER measurements. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 2379-2390	2	30
106	Satellite Measurements of Middle Atmospheric Impacts by Solar Proton Events in Solar Cycle 23. <i>Space Science Reviews</i> , 2007 , 125, 381-391	7.5	17
105	The Stratospheric and Mesospheric NO _y in the 2002–2004 Polar Winters as measured by MIPAS/ENVISAT. <i>Space Science Reviews</i> , 2007 , 125, 403-416	7.5	26
104	Validation of MIPAS-ENVISAT NO ₂ operational data. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 3261-3284	6.8	45
103	Validation of nitric acid retrieved by the IMK-IAA processor from MIPAS/ENVISAT measurements. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 721-738	6.8	27
102	Key role of spin-orbit effects in the relaxation of CO ₂ (010) by thermal collisions with O(3Pj). <i>Molecular Physics</i> , 2007 , 105, 1171-1181	1.7	11
101	Comment on Origin of the January–April 2004 increase in stratospheric NO ₂ observed in northern polar latitudes by Jean-Baptiste Renard et al.. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	19

100	Vibrational quenching of CO ₂ (010) by collisions with O(3P) at thermal energies: a quantum-mechanical study. <i>Journal of Chemical Physics</i> , 2006 , 124, 164302	3.9	14
99	Retrieval of stratospheric ozone profiles from MIPAS/ENVISAT limb emission spectra: a sensitivity study. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 2767-2781	6.8	41
98	MIPAS level 2 operational analysis. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5605-5630	6.8	158
97	NO ⁺ fundamental and first hot ro-vibrational line frequencies from MIPAS/Envisat atmospheric spectra. <i>Journal of Molecular Spectroscopy</i> , 2006 , 237, 218-224	1.3	6
96	Vibrationally excited ozone in the middle atmosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006 , 68, 202-212	2	22
95	Remote Sensing of the Non-LTE Atmosphere 2006 , 87-106		1
94	Evidence for CH ₄ 7.6 μ m non-local thermodynamic equilibrium emission in the mesosphere. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	8
93	Rotational and spin-orbit distributions of NO observed by MIPAS/ENVISAT during the solar storm of October/November 2003. <i>Journal of Geophysical Research</i> , 2005 , 110,		19
92	Retrieval of stratospheric NO _x from 5.3 and 6.2 μ m nonlocal thermodynamic equilibrium emissions measured by Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) on Envisat. <i>Journal of Geophysical Research</i> , 2005 , 110,		70
91	NO _y from Michelson Interferometer for Passive Atmospheric Sounding on Environmental Satellite during the Southern Hemisphere polar vortex split in September/October 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		29
90	Validation of stratospheric temperatures measured by Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) on Envisat. <i>Journal of Geophysical Research</i> , 2005 , 110,		12
89	Longitudinal variations of temperature and ozone profiles observed by MIPAS during the Antarctic stratosphere sudden warming of 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		8
88	Observation of NO _x enhancement and ozone depletion in the Northern and Southern Hemispheres after the October/November 2003 solar proton events. <i>Journal of Geophysical Research</i> , 2005 , 110,		118
87	HNO ₃ , N ₂ O ₅ , and ClONO ₂ enhancements after the October/November 2003 solar proton events. <i>Journal of Geophysical Research</i> , 2005 , 110,		63
86	Experimental evidence of perturbed odd hydrogen and chlorine chemistry after the October 2003 solar proton events. <i>Journal of Geophysical Research</i> , 2005 , 110,		49
85	Energy transport in the thermosphere during the solar storms of April 2002. <i>Journal of Geophysical Research</i> , 2005 , 110,		89
84	Water vapor distributions measured with the Michelson Interferometer for Passive Atmospheric Sounding on board Envisat (MIPAS/Envisat). <i>Journal of Geophysical Research</i> , 2005 , 110,		53
83	An enhanced HNO ₃ second maximum in the Antarctic midwinter upper stratosphere 2003. <i>Journal of Geophysical Research</i> , 2005 , 110,		50

82	Downward transport of upper atmospheric NO _x into the polar stratosphere and lower mesosphere during the Antarctic 2003 and Arctic 2002/2003 winters. <i>Journal of Geophysical Research</i> , 2005 , 110,		117
81	Comparisons of MIPAS/ENVISAT and GPS-RO/CHAMP Temperatures 2005 , 567-572		1
80	Comparison of GPS/SAC-C and MIPAS/ENVISAT Temperature Profiles and Its Possible Implementation for EOS MLS Observations 2005 , 573-578		3
79	A comparison of night-time GOMOS and MIPAS ozone profiles in the stratosphere and mesosphere. <i>Advances in Space Research</i> , 2005 , 36, 958-966	2.4	19
78	Meteorological results from the Global Mars Multiscale Model at the Viking 1 lander site. <i>Advances in Space Research</i> , 2005 , 36, 2169-2175	2.4	4
77	Analysis of CO ₂ non-LTE emissions at 4.3 μm in the Martian atmosphere as observed by PFS/Mars Express and SWS/ISO. <i>Planetary and Space Science</i> , 2005 , 53, 1079-1087	2	32
76	Retrieval of stratospheric and mesospheric O ₃ from high resolution MIPAS spectra at 15 and 10 μm . <i>Advances in Space Research</i> , 2005 , 36, 943-951	2.4	20
75	Atmospheric non-local thermodynamic equilibrium emissions as observed by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). <i>Comptes Rendus Physique</i> , 2005 , 6, 848-863	1.4	18
74	Comparisons of MIPAS/ENVISAT ozone profiles with SMR/ODIN and HALOE/UARS observations. <i>Advances in Space Research</i> , 2005 , 36, 927-931	2.4	7
73	Cross comparisons of O ₃ and NO ₂ measured by the atmospheric ENVISAT instruments GOMOS, MIPAS, and SCIAMACHY. <i>Advances in Space Research</i> , 2005 , 36, 855-867	2.4	30
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