

Manuel LÃ³pez-Puertas

List of Publications by Year in descending order

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225
papers

9,301
citations

43973

48
h-index

62479

80
g-index

259
all docs

259
docs citations

259
times ranked

4784
citing authors

#	ARTICLE	IF	CITATIONS
1	Level 2 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.	1.2	2
2	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.	1.1	6
3	Modelling the He I triplet absorption at 10 830 \AA in the atmospheres of HD 189733 b and GJ 3470 b. <i>Astronomy and Astrophysics</i> , 2021, 647, A129.	2.1	27
4	Evidence of energy-, recombination-, and photon-limited escape regimes in giant planet H/He atmospheres. <i>Astronomy and Astrophysics</i> , 2021, 648, L7.	2.1	19
5	IMK/IAA MIPAS temperature retrieval version 8: nominal measurements. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 4111-4138.	1.2	13
6	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.	1.1	7
7	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.	1.2	5
8	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.	1.2	4
9	First Detection of a Brief Mesoscale Elevated Stratopause in Very Early Winter. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086751.	1.5	4
10	Modelling the He I triplet absorption at 10 830 \AA in the atmosphere of HD 209458 b. <i>Astronomy and Astrophysics</i> , 2020, 636, A13.	2.1	49
11	Discriminating between hazy and clear hot-Jupiter atmospheres with CARMENES. <i>Astronomy and Astrophysics</i> , 2020, 643, A24.	2.1	13
12	Distinguishing between Wet and Dry Atmospheres of TRAPPIST-1 e and f. <i>Astrophysical Journal</i> , 2020, 901, 126.	1.6	33
13	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.	1.1	5
14	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. <i>Nature</i> , 2019, 568, 517-520.	13.7	111
15	Martian dust storm impact on atmospheric H ₂ O and D/H observed by ExoMars Trace Gas Orbiter. <i>Nature</i> , 2019, 568, 521-525.	13.7	107
16	Multiple water band detections in the CARMENES near-infrared transmission spectrum of HD 189733 b. <i>Astronomy and Astrophysics</i> , 2019, 621, A74.	2.1	57
17	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.	1.1	32
18	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, A117.	2.1	103

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19	Detection of He I 10830 Å absorption on HD 189733 b with CARMENES high-resolution transmission spectroscopy. <i>Astronomy and Astrophysics</i> , 2018, 620, A97.	2.1	120
20	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 609, L5.	2.1	46
21	Ground-based detection of an extended helium atmosphere in the Saturn-mass exoplanet WASP-69b. <i>Science</i> , 2018, 362, 1388-1391.	6.0	174
22	The CARMENES search for exoplanets around M dwarfs. <i>Astronomy and Astrophysics</i> , 2018, 612, A49.	2.1	173
23	Aerosols and Water Ice in Jupiter's Stratosphere from UV-NIR Ground-based Observations. <i>Astronomical Journal</i> , 2018, 156, 169.	1.9	7
24	On the improved stability of the version 7 MIPAS ozone record. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4693-4705.	1.2	7
25	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.	3.7	95
26	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.	0.8	20
27	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.	1.2	8
28	MIPAS observations of ozone in the middle atmosphere. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2187-2212.	1.2	11
29	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.	1.2	8
30	CARMENES: high-resolution spectra and precise radial velocities in the red and infrared. , 2018, , .		37
31	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.	0.6	5
32	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.	1.2	14
33	ALMA Discovery of Dust Belts around Proxima Centauri. <i>Astrophysical Journal Letters</i> , 2017, 850, L6.	3.0	59
34	CO concentration in the upper stratosphere and mesosphere of Titan from VIMS dayside limb observations at 4.7 Å. <i>Icarus</i> , 2017, 293, 119-131.	1.1	5
35	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.	1.9	55
36	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.	0.6	10

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37	Energetic particle precipitation: A major driver of the ozone budget in the Antarctic upper stratosphere. <i>Geophysical Research Letters</i> , 2016, 43, 3554-3562.	1.5	42
38	Optical and radiometric models of the NOMAD instrument part II: the infrared channels - SO and LNO. <i>Optics Express</i> , 2016, 24, 3790.	1.7	25
39	CARMENES: an overview six months after first light. <i>Proceedings of SPIE</i> , 2016, , .	0.8	59
40	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.	1.2	20
41	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.	1.9	6
42	Measurements of global distributions of polar mesospheric clouds during 2005â€“2012 by MIPAS/Envisat. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6701-6719.	1.9	10
43	A semi-empirical model for mesospheric and stratospheric NO<sub>2</sub<i>y</i</sub> produced by energetic particle precipitation. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8667-8693.	1.9	20
44	Expected performances of the NOMAD/ExoMars instrument. <i>Planetary and Space Science</i> , 2016, 124, 94-104.	0.9	31
45	Titan Science with the <i>James Webb Space Telescope</i>. <i>Publications of the Astronomical Society of the Pacific</i> , 2016, 128, 018007.	1.0	19
46	Global distributions of CO<sub>2</sub</sub> volume mixing ratio in the middle and upper atmosphere from daytime MIPAS high-resolution spectra. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 6081-6100.	1.2	9
47	Optical and radiometric models of the NOMAD instrument part I: the UVIS channel. <i>Optics Express</i> , 2015, 23, 30028.	1.7	26
48	The heating efficiency of the exothermic reaction HÂ+ÂO₃ in the mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12739-12747.	1.2	5
49	Vibrationalâ€vibrational and vibrationalâ€thermal energy transfers of CO 2 with N 2 from MIPAS highâ€resolution limb spectra. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8002-8022.	1.2	10
50	Increasing carbon dioxide concentration in the upper atmosphere observed by SABER. <i>Geophysical Research Letters</i> , 2015, 42, 7194-7199.	1.5	41
51	The EChO science case. <i>Experimental Astronomy</i> , 2015, 40, 329-391.	1.6	31
52	The NIR transmission spectrum of Jupiter from the observation of a Ganymedeâ€™s eclipse. <i>EPJ Web of Conferences</i> , 2015, 101, 06048.	0.1	0
53	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.	1.2	17
54	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.	3.0	33

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55	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.	0.9	38
56	Science objectives and performances of NOMAD, a spectrometer suite for the ExoMars TGO mission. <i>Planetary and Space Science</i> , 2015, 119, 233-249.	0.9	77
57	Mesospheric and stratospheric NO _x produced by energetic particle precipitation during 2002–2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4429-4446.	1.2	75
58	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.	1.2	9
59	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.	1.2	30
60	Nighttime ozone variability in the high latitude winter mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,547.	1.2	14
61	Hemispheric distributions and interannual variability of NO _x produced by energetic particle precipitation in 2002–2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,565.	1.2	39
62	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.	1.2	90
63	Middle atmospheric changes caused by the January and March 2012 solar proton events. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1025-1038.	1.9	40
64	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.	1.9	18
65	An unidentified emission in Titan's upper atmosphere. <i>Geophysical Research Letters</i> , 2013, 40, 1489-1493.	1.5	44
66	Satellite observations of ozone in the upper mesosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5803-5821.	1.2	63
67	LARGE ABUNDANCES OF POLYCYCLIC AROMATIC HYDROCARBONS IN TITAN'S UPPER ATMOSPHERE. <i>Astrophysical Journal</i> , 2013, 770, 132.	1.6	106
68	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.	0.8	32
69	The solar proton events in 2012 as observed by MIPAS. <i>Geophysical Research Letters</i> , 2013, 40, 2339-2343.	1.5	41
70	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.	1.2	66
71	Retrieval of nitric oxide in the mesosphere and lower thermosphere from SCIAMACHY limb spectra. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2521-2531.	1.2	17
72	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.	1.2	26

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73	The global picture of the atmospheric composition provided by MIPAS on Envisat. , 2012, , .		3
74	Observed temporal evolution of global mean age of stratospheric air for the 2002 to 2010 period. Atmospheric Chemistry and Physics, 2012, 12, 3311-3331.	1.9	181
75	Impact of January 2005 solar proton events on chlorine species. Atmospheric Chemistry and Physics, 2012, 12, 4159-4179.	1.9	19
76	On the quality of MIPAS kinetic temperature in the middle atmosphere. Atmospheric Chemistry and Physics, 2012, 12, 6009-6039.	1.9	30
77	EChO. Experimental Astronomy, 2012, 34, 311-353.	1.6	98
78	GRANADA: A Generic Radiative traNsfer AnD non-LTE population algorithm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1771-1817.	1.1	60
79	Global observations of thermospheric temperature and nitric oxide from MIPAS spectra at 5.3 <i>µ</i>m. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	46
80	Northern Hemisphere atmospheric influence of the solar proton events and ground level enhancement in January 2005. Atmospheric Chemistry and Physics, 2011, 11, 6153-6166.	1.9	71
81	Composition changes after the "Halloween" solar proton event: the High Energy Particle Precipitation in the Atmosphere (HEPPA) model versus MIPAS data intercomparison study. Atmospheric Chemistry and Physics, 2011, 11, 9089-9139.	1.9	145
82	Modeling the atmospheric limb emission of CO ₂ at 4.3 μ m in the terrestrial planets. Planetary and Space Science, 2011, 59, 988-998.	0.9	20
83	Non-LTE CO limb emission at in the upper atmosphere of Venus, Mars and Earth: Observations and modeling. Planetary and Space Science, 2011, 59, 1010-1018.	0.9	14
84	Analysis of Titan CH ₄ 3.3 μ m upper atmospheric emission as measured by Cassini/VIMS. Icarus, 2011, 214, 571-583.	1.1	22
85	Distribution of HCN in Titan's upper atmosphere from Cassini/VIMS observations at 3 μ m. Icarus, 2011, 214, 584-595.	1.1	30
86	The science of EChO. Proceedings of the International Astronomical Union, 2010, 6, 359-370.	0.0	5
87	Do vibrationally excited OH molecules affect middle and upper atmospheric chemistry?. Atmospheric Chemistry and Physics, 2010, 10, 9953-9964.	1.9	9
88	Observations of infrared radiative cooling in the thermosphere on daily to multiyear timescales from the TIMED/SABER instrument. Journal of Geophysical Research, 2010, 115, .	3.3	102
89	Evidence for dynamical coupling from the lower atmosphere to the thermosphere during a major stratospheric warming. Geophysical Research Letters, 2010, 37, .	1.5	80
90	The Impact of Energetic Particle Precipitation on the Earths Atmosphere. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 181-189.	0.3	1

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91	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.	1.2	53
92	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.	1.2	12
93	SABER observations of mesospheric ozone during NH late winter 2002â€“2009. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	57
94	Measurements of polar mesospheric clouds in infrared emission by MIPAS/ENVISAT. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	15
95	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 15â€“70 km. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	45
96	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.	1.9	23
97	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.	1.9	77
98	Chemical heating rates derived from SCIAMACHY vibrationally excited OH limb emission spectra. <i>Advances in Space Research</i> , 2008, 41, 1914-1920.	1.2	20
99	About the increase of HNO ₃ in the stratopause region during the Halloween 2003 solar proton event. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	39
100	Assessment of the quality of the Version 1.07 temperatureâ€“versusâ€“pressure profiles of the middle atmosphere from TIMED/SABER. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	369
101	Errors in Sounding of the Atmosphere using Broadband Emission Radiometry (SABER) kinetic temperature caused by nonâ€“localâ€“thermodynamicâ€“equilibrium model parameters. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	99
102	Enhancement of N<sub>2</sub>O during the Octoberâ€“November 2003 solar proton events. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3805-3815.	1.9	23
103	Model simulations of stratospheric ozone loss caused by enhanced mesospheric NO<sub>x</sub> during Arctic Winter 2003/2004. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5279-5293.	1.9	33
104	Validation of NO<sub>2</sub> and NO from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5801-5841.	1.9	64
105	Short- and medium-term atmospheric constituent effects of very large solar proton events. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 765-785.	1.9	156
106	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.	1.9	6
107	Mesospheric N<sub>2</sub>O enhancements as observed by MIPAS on Envisat during the polar winters in 2002â€“2004. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5787-5800.	1.9	26
108	MIPAS: an instrument for atmospheric and climate research. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2151-2188.	1.9	596

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109	CO measurements from the ACE-FTS satellite instrument: data analysis and validation using ground-based, airborne and spaceborne observations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2569-2594.	1.9	107
110	Global distribution of mean age of stratospheric air from MIPAS SF ₆ measurements. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 677-695.	1.9	105
111	Validation of MIPAS-ENVISAT NO ₂ operational data. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3261-3284.	1.9	57
112	Validation of nitric acid retrieved by the IMK-IAA processor from MIPAS/ENVISAT measurements. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 721-738.	1.9	31
113	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.	0.8	11
114	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, .	1.5	22
115	Fast forward radiative transfer modeling of 4.3 μm nonlocal thermodynamic equilibrium effects for infrared temperature sounders. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	26
116	Evidence for N ₂ O 4.5 μm non-local thermodynamic equilibrium emission in the atmosphere. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	5
117	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, .	3.3	17
118	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, .	3.3	38
119	Global distributions of HO ₂ as observed by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	16
120	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, .	3.3	23
121	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.	0.6	33
122	Satellite Measurements of Middle Atmospheric Impacts by Solar Proton Events in Solar Cycle 23. <i>Space Science Reviews</i> , 2007, 125, 381-391.	3.7	21
123	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.	3.7	29
124	Retrieval of stratospheric ozone profiles from MIPAS/ENVISAT limb emission spectra: a sensitivity study. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2767-2781.	1.9	49
125	MIPAS level 2 operational analysis. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5605-5630.	1.9	174
126	Global measurements and modeling of 4.3 μm NLTE using AIRS. , 2006, 6362, 132.		0

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127	NO+ fundamental and first hot ro-vibrational line frequencies from MIPAS/Envisat atmospheric spectra. Journal of Molecular Spectroscopy, 2006, 237, 218-224.	0.4	7
128	Vibrationally excited ozone in the middle atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 202-212.	0.6	26
129	Vibrational quenching of CO ₂ (010) by collisions with O(P ₃) at thermal energies: A quantum-mechanical study. Journal of Chemical Physics, 2006, 124, 164302.	1.2	15
130	Remote Sensing of the Non-LTE Atmosphere. , 2006, , 87-106.		1
131	Comparisons of MIPAS/ENVISAT and GPS-RO/CHAMP Temperatures. , 2005, , 567-572.		1
132	Comparison of GPS/SAC-C and MIPAS/ENVISAT Temperature Profiles and Its Possible Implementation for EOS MLS Observations. , 2005, , 573-578.		3
133	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
134	Meteorological results from the Global Mars Multiscale Model at the Viking 1 lander site. Advances in Space Research, 2005, 36, 2169-2175.	1.2	4
135	Analysis of non-LTE emissions at in the Martian atmosphere as observed by PFS/Mars Express and SWS/ISO. Planetary and Space Science, 2005, 53, 1079-1087.	0.9	35
136	Retrieval of stratospheric and mesospheric O ₃ from high resolution MIPAS spectra at 15 and 10 $\hat{1}$ / ₄ m. Advances in Space Research, 2005, 36, 943-951.	1.2	21
137	Atmospheric non-local thermodynamic equilibrium emissions as observed by the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). Comptes Rendus Physique, 2005, 6, 848-863.	0.3	20
138	Comparisons of MIPAS/ENVISAT ozone profiles with SMR/ODIN and HALOE/UARS observations. Advances in Space Research, 2005, 36, 927-931.	1.2	9
139	Cross comparisons of O ₃ and NO ₂ measured by the atmospheric ENVISAT instruments GOMOS, MIPAS, and SCIAMACHY. Advances in Space Research, 2005, 36, 855-867.	1.2	34
140	Evidence for CH ₄ 7.6 $\hat{1}$ / ₄ m non-local thermodynamic equilibrium emission in the mesosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	8
141	Rotational and spin-orbit distributions of NO observed by MIPAS/ENVISAT during the solar storm of October/November 2003. Journal of Geophysical Research, 2005, 110, .	3.3	23
142	Retrieval of stratospheric NO _x from 5.3 and 6.2 $\hat{1}$ / ₄ m nonlocal thermodynamic equilibrium emissions measured by Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) on Envisat. Journal of Geophysical Research, 2005, 110, .	3.3	84
143	NO _y from 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
144	Validation of stratospheric temperatures measured by Michelson Interferometer for Passive Atmospheric Sounding (MIPAS) on Envisat. Journal of Geophysical Research, 2005, 110, .	3.3	16

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145	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, .	3.3	9
146	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, .	3.3	132
147	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, .	3.3	69
148	Experimental evidence of perturbed odd hydrogen and chlorine chemistry after the October 2003 solar proton events. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	55
149	Energy transport in the thermosphere during the solar storms of April 2002. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	105
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