

Piera Raspollini

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,288
citations

516710

16
h-index

395702

33
g-index

63
all docs

63
docs citations

63
times ranked

942
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized forward model and retrieval scheme for MIPAS near-real-time data processing. <i>Applied Optics</i> , 2000, 39, 1323.	2.1	188
2	MIPAS level 2 operational analysis. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5605-5630.	4.9	174
3	Geophysical validation of MIPAS-ENVISAT operational ozone data. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4807-4867.	4.9	130
4	Validation of ACE-FTS N_2O measurements. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4759-4786.	4.9	76
5	Validation of HNO ₃ , ClONO ₂ , and N_2O_5 from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3529-3562.	4.9	75
6	Geo-fit approach to the analysis of limb-scanning satellite measurements. <i>Applied Optics</i> , 2001, 40, 1872.	2.1	72
7	Past changes in the vertical distribution of ozone – Part 1: Measurement techniques, uncertainties and availability. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1395-1427.	3.1	67
8	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.	3.1	66
9	Validation of NO_2 and NO from the Atmospheric Chemistry Experiment (ACE). <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 5801-5841.	4.9	64
10	Validation of version-4.61 methane and nitrous oxide observed by MIPAS. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 413-442.	4.9	50
11	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.	2.3	43
12	Technical Note: Regularization performances with the error consistency method in the case of retrieved atmospheric profiles. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1435-1440.	4.9	29
13	Validation of ACE-FTS version 3.5 NO_2 species profiles using correlative satellite measurements. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5781-5810.	3.1	25
14	The SPARC water vapour assessment II: comparison of annual, semi-annual and quasi-biennial variations in stratospheric and lower mesospheric water vapour observed from satellites. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1111-1137.	3.1	24
15	The ozone climate change initiative: Comparison of four Level-2 processors for the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS). <i>Remote Sensing of Environment</i> , 2015, 162, 316-343.	11.0	20
16	Equivalence of data fusion and simultaneous retrieval. <i>Optics Express</i> , 2015, 23, 8476.	3.4	18
17	Validation of MIPAS-ENVISAT H_2O operational data collected between July 2002 and March 2004. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5791-5811.	4.9	17
18	The SPARC water vapor assessment II: intercomparison of satellite and ground-based microwave measurements. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14543-14558.	4.9	13

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19	The SPARC water vapour assessment II: profile-to-profile comparisons of stratospheric and lower mesospheric water vapour data sets obtained from satellites. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 2693-2732.	3.1	13
20	The SPARC water vapour assessment II: comparison of stratospheric and lower mesospheric water vapour time series observed from satellites. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 4435-4463.	3.1	12
21	Mapping of temperature and line-of-sight errors in constituent retrievals for MIPAS/ENVISAT measurements. <i>Atmospheric Environment</i> , 2000, 34, 5329-5336.	4.1	10
22	Quality of MIPAS operational products. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 121, 45-55.	2.3	10
23	The average of atmospheric vertical profiles. <i>Optics Express</i> , 2014, 22, 24808.	3.4	10
24	Comparison of the GOSAT TANSO-FTS TIR CH ₄ volume mixing ratio vertical profiles with those measured by ACE-FTS, ESA MIPAS, IMK-IAA MIPAS, and 16 NDACC stations. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3697-3718.	3.1	10
25	The FORUM end-to-end simulator project: architecture and results. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 573-604.	3.1	9
26	CCl ₄ distribution derived from MIPAS ESA v7 data: intercomparisons, trend, and lifetime estimation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10143-10162.	4.9	8
27	Phosgene in the UTLS: seasonal and latitudinal variations from MIPAS observations. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 4655-4663.	3.1	7
28	Harmonisation and diagnostics of MIPAS ESA CH ₄ and N ₂ O profiles using data assimilation. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 5895-5909.	3.1	6
29	Use of apodization in quantitative spectroscopy. <i>Optics Letters</i> , 2007, 32, 1329.	3.3	5
30	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.	3.1	5
31	Vertical grid of retrieved atmospheric profiles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 174, 7-13.	2.3	4
32	Emissivity retrievals with FORUM's end-to-end simulator: challenges and recommendations. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1755-1777.	3.1	4
33	The SPARC Water Vapor Assessment II: assessment of satellite measurements of upper tropospheric humidity. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3377-3400.	3.1	4
34	Merged ozone profiles from four MIPAS processors. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1511-1518.	3.1	3
35	Auto-adaptive Tikhonov regularization of water vapor profiles: application to FORUM measurements. <i>Applicable Analysis</i> , 2020, , 1-11.	1.3	2
36	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.	3.1	2

#	ARTICLE	IF	CITATIONS
37	Phosgene distribution derived from MIPAS ESA v8 data: intercomparisons and trends. Atmospheric Measurement Techniques, 2021, 14, 7959-7974.	3.1	2