Gerald Wetzel

List of Publications by Year in descending order

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304368 329751 1,765 60 22 37 h-index citations g-index papers 69 69 69 1204 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	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
2	Pollution trace gases C _{H₆, C_{, C₂, HCOOH, and PAN in the North Atlantic UTLS: observations and simulations. Atmospheric Chemistry and Physics, 2021, 21, 8213-8232.}}	1.9	6
3	Retrieval of Water Vapour Profiles from GLORIA Nadir Observations. Remote Sensing, 2021, 13, 3675.	1.8	1
4	The Michelson Interferometer for Passive Atmospheric Sounding global climatology of BrONO ₂ 2002–2012: a test for stratospheric bromine chemistry. Atmospheric Chemistry and Physics, 2021, 21, 18433-18464.	1.9	1
5	Phosgene distribution derived from MIPAS ESA v8 data: intercomparisons and trends. Atmospheric Measurement Techniques, 2021, 14, 7959-7974.	1.2	2
6	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
7	Differences in ozone retrieval in MIPAS channels A and AB: a spectroscopic issue. Atmospheric Measurement Techniques, 2018, 11, 4707-4723.	1.2	10
8	Performance Assessment of Balloon-Borne Trace Gas Sounding with the Terahertz Channel of TELIS. Remote Sensing, 2018, 10, 315.	1.8	2
9	Diurnal variations of BrONO ₂ observed by MIPAS-B at midlatitudes and in the Arctic. Atmospheric Chemistry and Physics, 2017, 17, 14631-14643.	1.9	3
10	CCl ₄ distribution derived from MIPAS ESA v7 data: intercomparisons, trend, and lifetime estimation. Atmospheric Chemistry and Physics, 2017, 17, 10143-10162.	1.9	8
11	MIPAS IMK/IAA carbon tetrachloride (CCl ₄) retrieval and first comparison with other instruments. Atmospheric Measurement Techniques, 2017, 10, 2727-2743.	1.2	2
12	MIPAS IMK/IAA CFC-11 (CCl ₃ F) and CFC-12 (CCl ₂ F ₂) measurements: accuracy, precision and long-term stability. Atmospheric Measurement Techniques, 2016, 9, 3355-3389.	1.2	15
13	First detection of ammonia (NH ₃) in the Asian summer monsoon upper troposphere. Atmospheric Chemistry and Physics, 2016, 16, 14357-14369.	1.9	51
14	Partitioning and budget of inorganic and organic chlorine species observed by MIPAS-B and TELIS in the Arctic in March 2011. Atmospheric Chemistry and Physics, 2015, 15, 8065-8076.	1.9	13
15	Constraining the N ₂ O ₅ UV absorption cross section from spectroscopic trace gas measurements in the tropical mid-stratosphere. Atmospheric Chemistry and Physics, 2014, 14, 9555-9566.	1.9	4
16	Long-term intercomparison of MIPAS additional species ClONO2, N2O5, CFC-11, and CFC-12 with MIPAS-B measurements. Annals of Geophysics, 2014, , .	0.5	6
17	Comparison of SMILES CIO profiles with satellite, balloon-borne and ground-based measurements. Atmospheric Measurement Techniques, 2013, 6, 3325-3347.	1,2	11
18	Validation of MIPAS-ENVISAT H ₂ O operational data collected between July 2002 and March 2004. Atmospheric Chemistry and Physics, 2013, 13, 5791-5811.	1.9	17

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19	Reconciliation of essential process parameters for an enhanced predictability of Arctic stratospheric ozone loss and its climate interactions (RECONCILE): activities and results. Atmospheric Chemistry and Physics, 2013, 13, 9233-9268.	1.9	88
20	Diurnal variations of reactive chlorine and nitrogen oxides observed by MIPAS-B inside the January 2010 Arctic vortex. Atmospheric Chemistry and Physics, 2012, 12, 6581-6592.	1.9	32
21	First remote sensing measurements of ClOOCl along with ClO and ClONO& amp; It; sub& amp; gt; 2& amp; It; sub& amp; gt; in activated and deactivated Arctic vortex conditions using new ClOOCl IR absorption cross sections. Atmospheric Chemistry and Physics, 2010, 10, 931-945.	1.9	33
22	Validation of atmospheric chemistry measurements from MIPAS, SCIAMACHY, GOMOS onboard ENVISAT by observations of balloon-borne MIPAS-B. Science China Earth Sciences, 2010, 53, 1533-1541.	2.3	3
23	Validation of temperature measurements from MIPAS-ENVISAT with balloon observations obtained by MIPAS-B. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 837-847.	0.6	2
24	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
25	Spatio-temporal variations of NO _y species in the northern latitudes stratosphere measured with the balloon-borne MIPAS instrument. Atmospheric Chemistry and Physics, 2009, 9, 1151-1163.	1.9	10
26	Validation of version-4.61 methane and nitrous oxide observed by MIPAS. Atmospheric Chemistry and Physics, 2009, 9, 413-442.	1.9	50
27	Validation of GOMOSâ€Envisat vertical profiles of O ₃ , NO ₂ , NO ₃ , and aerosol extinction using balloonâ€borne instruments and analysis of the retrievals. Journal of Geophysical Research, 2008, 113, .	3.3	32
28	Technical Note: Intercomparison of ILAS-II version 2 and 1.4 trace species with MIPAS-B measurements. Atmospheric Chemistry and Physics, 2008, 8, 1119-1126.	1.9	12
29	Geophysical validation of temperature retrieved by the ESA processor from MIPAS/ENVISAT atmospheric limb-emission measurements. Atmospheric Chemistry and Physics, 2007, 7, 4459-4487.	1.9	46
30	Validation of MIPAS-ENVISAT NO ₂ operational data. Atmospheric Chemistry and Physics, 2007, 7, 3261-3284.	1.9	57
31	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
32	Geophysical validation of MIPAS-ENVISAT operational ozone data. Atmospheric Chemistry and Physics, 2007, 7, 4807-4867.	1.9	130
33	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
34	Validation of MIPAS ClONO ₂ measurements. Atmospheric Chemistry and Physics, 2007, 7, 257-281.	1.9	65
35	Validation of MIPAS HNO ₃ operational data. Atmospheric Chemistry and Physics, 2007, 7, 4905-4934.	1.9	48
36	Comment on "Origin of the January–April 2004 increase in stratospheric NO2observed in northern polar latitudes―by Jean-Baptiste Renard et al Geophysical Research Letters, 2007, 34, .	1.5	22

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37	Ozone loss driven by nitrogen oxides and triggered by stratospheric warmings can outweigh the effect of halogens. Journal of Geophysical Research, 2007, 112 , .	3.3	38
38	Impact of mesospheric intrusions on ozoneâ€tracer relations in the stratospheric polar vortex. Journal of Geophysical Research, 2007, 112, .	3.3	18
39	Validation of stratospheric nitric acid profiles observed by Improved Limb Atmospheric Spectrometer (ILAS) $\hat{a} \in \text{``II.}$ Journal of Geophysical Research, 2006, 111 , .	3.3	24
40	Intercomparison and validation of ILAS-II version $1.4\mathrm{target}$ parameters with MIPAS-B measurements. Journal of Geophysical Research, 2006, 111 , .	3.3	32
41	Measurements of ClONO2by the Improved Limb Atmospheric Spectrometer (ILAS) in high-latitude stratosphere: New products using version 6.1 data processing algorithm. Journal of Geophysical Research, 2006, 111, .	3.3	17
42	Validation of the Improved Limb Atmospheric Spectrometer-II (ILAS-II) Version 1.4 nitrous oxide and methane profiles. Journal of Geophysical Research, 2006, 111 , .	3.3	14
43	Observation of mesospheric air inside the arctic stratospheric polar vortex in early 2003. Atmospheric Chemistry and Physics, 2006, 6, 267-282.	1.9	64
44	3-D microphysical model studies of Arctic denitrification: comparison with observations. Atmospheric Chemistry and Physics, 2005, 5, 3093-3109.	1.9	21
45	Validation of CFC-12 measurements from the Improved Limb Atmospheric Spectrometer (ILAS) with the version 6.0 retrieval algorithm. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	17
46	Effect of near-IR photolysis of HO2NO2on stratospheric chemistry. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	12
47	The variation of short-lived NOyspecies around sunrise at mid-latitudes as measured by MIPAS-B and calculated by KASIMA. Geophysical Research Letters, 2003, 30, .	1.5	6
48	Validation and data characteristics of nitrous oxide and methane profiles observed by the Improved Limb Atmospheric Spectrometer (ILAS) and processed with the Version 5.20 algorithm. Journal of Geophysical Research, 2003, 108, .	3.3	21
49	NOypartitioning and budget and its correlation with N2O in the Arctic vortex and in summer midlatitudes in 1997. Journal of Geophysical Research, 2002, 107, ACH 3-1.	3.3	49
50	A characterization of the warm 1999 Arctic winter by observations and modeling: NOypartitioning and dynamics. Journal of Geophysical Research, 2002, 107, ACH 4-1.	3.3	18
51	Validation of NO2and HNO3measurements from the Improved Limb Atmospheric Spectrometer (ILAS) with the version 5.20 retrieval algorithm. Journal of Geophysical Research, 2002, 107, ILS 3-1.	3.3	29
52	Evidence of scattering of tropospheric radiation by PSCs in mid-IR limb emission spectra: MIPAS-B observations and KOPRA simulations. Geophysical Research Letters, 2002, 29, 119-1-119-4.	1.5	62
53	A comparison of Arctic HNO3profiles measured by the Improved Limb Atmospheric Spectrometer and balloon-borne sensors. Journal of Geophysical Research, 2000, 105, 6761-6771.	3.3	32
54	Simultaneous measurements of HDO, H2O, and CH4with MIPAS-B: Hydrogen budget and indication of dehydration inside the polar vortex. Journal of Geophysical Research, 1999, 104, 19213-19225.	3.3	33

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55	Arctic Ozone Loss Due to Denitrification. Science, 1999, 283, 2064-2069.	6.0	214
56	Denitrification observed inside the Arctic vortex in February 1995. Journal of Geophysical Research, 1998, 103, 16221-16233.	3.3	44
57	ClONO2vertical profile and estimated mixing ratios of ClO and HOCl in winter Arctic stratosphere from Michelson interferometer for passive atmospheric sounding limb emission spectra. Journal of Geophysical Research, 1997, 102, 16157-16168.	3.3	36
58	Vertical profiles of N2O5, HO2NO2, and NO2inside the Arctic vortex, retrieved from nocturnal MIPAS-B2 infrared limb emission measurements in February 1995. Journal of Geophysical Research, 1997, 102, 19177-19186.	3.3	22
59	Remote sensing of trace gases in the midinfrared spectral region from a nadir view. Applied Optics, 1995, 34, 467.	2.1	15
60	Vertical profiles of N2O5along with CH4, N2O, and H2O in the late Arctic winter retrieved from MIPAS-B infrared limb emission measurements. Journal of Geophysical Research, 1995, 100, 23173.	3.3	19