Wuhu Feng

List of Publications by Year
in descending order

156 papers	4,718 citations	109321 35 h-index	161849 54 g-index
246 all docs	246 docs citations	246 times ranked	4160 citing authors

#	Article	IF	Citations
1	Dynamical mechanisms for the recent ozone depletion in the Arctic stratosphere linked to North Pacific sea surface temperatures. Climate Dynamics, 2022, 58, 2663-2679.	3.8	8
2	A single-peak-structured solar cycle signal in stratospheric ozone based on Microwave Limb Sounder observations and model simulations. Atmospheric Chemistry and Physics, 2022, 22, 903-916.	4.9	7
3	A Comparison of the Midlatitude Nickel and Sodium Layers in the Mesosphere: Observations and Modeling. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
4	The Unprecedented Ozone Loss in the Arctic Winter and Spring of 2010/2011 and 2019/2020. ACS Earth and Space Chemistry, 2022, 6, 683-693.	2.7	3
5	Effects of forcing differences and initial conditions on inter-model agreement in the VolMIP volc-pinatubo-full experiment. Geoscientific Model Development, 2022, 15, 2265-2292.	3.6	22
6	The Chemistry of Mercury in the Stratosphere. Geophysical Research Letters, 2022, 49, .	4.0	4
7	The role of chemical processes in the quasi-biennial oscillation (QBO) signal in stratospheric ozone. Atmospheric Environment, 2021, 244, 117906.	4.1	12
8	Lidar observations of the upper atmospheric nickel layer at Beijing (40â˜N,116â˜E). Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 260, 107468.	2.3	8
9	A decline in global CFC-11 emissions during 2018â˜'2019. Nature, 2021, 590, 428-432.	27.8	55
10	Meteorâ€Ablated Aluminum in the Mesosphereâ€Lower Thermosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028792.	2.4	8
11	Arctic Ozone Depletion in 2019/20: Roles of Chemistry, Dynamics and the Montreal Protocol. Geophysical Research Letters, 2021, 48, e2020GL091911.	4.0	34
12	Interhemispheric transport of metallic ions within ionospheric sporadic <i>E</i> layers by the lower thermospheric meridional circulation. Atmospheric Chemistry and Physics, 2021, 21, 4219-4230.	4.9	24
13	The Unusual Stratospheric Arctic Winter 2019/20: Chemical Ozone Loss From Satellite Observations and TOMCAT Chemical Transport Model. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034386.	3.3	19
14	Unprecedented Spring 2020 Ozone Depletion in the Context of 20ÂYears of Measurements at Eureka, Canada. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034365.	3.3	7
15	Analysis of the Antarctic Ozone Hole in November. Journal of Climate, 2021, , 1-53.	3.2	2
16	New Global Meteoric Smoke Observations From SOFIE: Insight Regarding Chemical Composition, Meteoric Influx, and Hemispheric Asymmetry. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035007.	3.3	5
17	Stratospheric fluorine as a tracer of circulation changes: comparison between infrared remoteâ€sensing observations and simulations with five modern reanalyses. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034995.	3.3	8
18	Phosphorus Chemistry in the Earth's Upper Atmosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029881.	2.4	6

#	Article	IF	Citations
19	Exceptional loss in ozone in the Arctic winter/spring of 2019/2020. Atmospheric Chemistry and Physics, 2021, 21, 14019-14037.	4.9	10
20	Self-consistent global transport of metallic ions with WACCM-X. Atmospheric Chemistry and Physics, 2021, 21, 15619-15630.	4.9	11
21	ML-TOMCAT: machine-learning-based satellite-corrected global stratospheric ozone profile data set from a chemical transport model. Earth System Science Data, 2021, 13, 5711-5729.	9.9	5
22	Substantial Increases in Eastern Amazon and Cerrado Biomass Burningâ€Sourced Tropospheric Ozone. Geophysical Research Letters, 2020, 47, e2019GL084143.	4.0	16
23	Water Photolysis and Its Contributions to the Hydroxyl Dayglow Emissions in the Atmospheres of Earth and Mars. Journal of Physical Chemistry Letters, 2020, 11, 9086-9092.	4.6	19
24	Description and Evaluation of the specified-dynamics experiment in the Chemistry-Climate Model Initiative. Atmospheric Chemistry and Physics, 2020, 20, 3809-3840.	4.9	16
25	The Meteoric Ni Layer in the Upper Atmosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028083.	2.4	8
26	Gravitational separation of Arâ^•N₂ and age of air in the lowermost stratosphere in airborne observations and a chemical transport model. Atmospheric Chemistry and Physics, 2020, 20, 12391-12408.	4.9	9
27	Analysis and attribution of total column ozone changes over the Tibetan Plateau during 1979â€“2017. Atmospheric Chemistry and Physics, 2020, 20, 8627-8639.	4.9	15
28	Zonally asymmetric trends of winter total column ozone in the northern middle latitudes. Climate Dynamics, 2019, 52, 4483-4500.	3.8	19
29	Observations and Modeling of Potassium Emission in the Terrestrial Nightglow. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6612-6629.	3.3	9
30	Impact of El NiÃ±oâ€“Southern Oscillation on the interannual variability of methane and tropospheric ozone. Atmospheric Chemistry and Physics, 2019, 19, 8669-8686.	4.9	33
31	Interannual Variations in Lower Stratospheric Ozone During the Period 1984â€“2016. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8225-8241.	3.3	10
32	Recent Trends in Stratospheric Chlorine From Very Shortâ€Lived Substances. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2318-2335.	3.3	34
33	The 27â€Đay Solar Rotational Cycle Response in the Mesospheric Metal Layers at Low Latitudes. Geophysical Research Letters, 2019, 46, 7199-7206.	4.0	6
34	Stratospheric ozone loss in the Arctic winters between 2005 and 2013 derived with ACE-FTS measurements. Atmospheric Chemistry and Physics, 2019, 19, 577-601.	4.9	10
35	Dynamically controlled ozone decline in the tropical mid-stratosphere observed by SCIAMACHY. Atmospheric Chemistry and Physics, 2019, 19, 767-783.	4.9	18
36	Attribution of the Hemispheric Asymmetries in Trends of Stratospheric Trace Gases Inferred From Microwave Limb Sounder (MLS) Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6283-6293.	3.3	12

#	Article	IF	Citations
37	Photochemistry on the bottom side of the mesospheric Na layer. Atmospheric Chemistry and Physics, 2019, 19, 3769-3777.	4.9	8
38	Phosgene in the Upper Troposphere and Lower Stratosphere: A Marker for Product Gas Injection Due to Chlorineâ€Containing Very Short Lived Substances. Geophysical Research Letters, 2019, 46, 1032-1039.	4.0	10
39	A Lagrangian convective transport scheme including a simulation of the time air parcels spend in updrafts (LaConTra v1.0). Geoscientific Model Development, 2019, 12, 4387-4407.	3.6	7
40	Delay in recovery of the Antarctic ozone hole from unexpected CFC-11 emissions. Nature Communications, 2019, 10, 5781.	12.8	58
41	Low temperature studies of the rate coefficients and branching ratios of reactive loss vs quenching for the reactions of 1CH2 with C2H6, C2H4, C2H2. Icarus, 2019, 321, 752-766.	2.5	8
42	Selective Disparity of Ordinary Chondritic Precursors in Micrometeorite Flux. Astrophysical Journal, 2018, 853, 38.	4.5	9
43	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. Nature Communications, 2018, 9, 206.	12.8	69
44	Low temperature studies of the removal reactions of 1CH2 with particular relevance to the atmosphere of Titan. Icarus, 2018, 303, 10-21.	2.5	12
45	Attribution of recent increases in atmospheric methane through 3-D inverse modelling. Atmospheric Chemistry and Physics, 2018, 18, 18149-18168.	4.9	51
46	Influence of the wintertime North Atlantic Oscillation on European tropospheric composition: an observational and modelling study. Atmospheric Chemistry and Physics, 2018, 18, 8389-8408.	4.9	6
47	A new model of meteoric calcium in the mesosphere and lower thermosphere. Atmospheric Chemistry and Physics, 2018, 18, 14799-14811.	4.9	19
48	On the discrepancy of HCl processing in the core of the wintertime polar vortices. Atmospheric Chemistry and Physics, 2018, 18, 8647-8666.	4.9	26
49	Age of air as a diagnostic for transport timescales in global models. Geoscientific Model Development, 2018, 11, 3109-3130.	3.6	44
50	Recent Arctic ozone depletion: Is there an impact of climate change?. Comptes Rendus - Geoscience, 2018, 350, 347-353.	1.2	22
51	On the Cause of Recent Variations in Lower Stratospheric Ozone. Geophysical Research Letters, 2018, 45, 5718-5726.	4.0	87
52	Climatology of mesopause region nocturnal temperature, zonal wind and sodium density observed by sodium lidar over Hefei, China (32Â°â€‰N, 117Â°â€‰E). Atmospheric Chemistry and Physics, 2018, 18, 11683-11695.	4.9	12
53	Stratospheric Injection of Brominated Very Shortâ€Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5690-5719.	3.3	36
54	Observations and Modeling of Increased Nitric Oxide in the Antarctic Polar Middle Atmosphere Associated With Geomagnetic Stormâ€Driven Energetic Electron Precipitation. Journal of Geophysical Research: Space Physics, 2018, 123, 6009-6025.	2.4	22

#	Article	IF	Citations
55	An Explanation for the Nitrous Oxide Layer Observed in the Mesopause Region. Geophysical Research Letters, 2018, 45, 7818-7827.	4.0	5
56	The uptake of HO₂ on meteoric smoke analogues. Journal of Geophysical Research D: Atmospheres, 2017, 122, 554-565.	3.3	10
57	Influence of the Arctic Oscillation on the Vertical Distribution of Wintertime Ozone in the Stratosphere and Upper Troposphere over the Northern Hemisphere. Journal of Climate, 2017, 30, 2905-2919.	3.2	14
58	Impacts of a sudden stratospheric warming on the mesospheric metal layers. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 162, 162-171.	1.6	16
59	Impacts of meteoric sulfur in the Earth's atmosphere. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7678-7701.	3.3	10
60	Meteoric Smoke Deposition in the Polar Regions: A Comparison of Measurements With Global Atmospheric Models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,112.	3.3	16
61	Radar Detectability Studies of Slow and Small Zodiacal Dust Cloud Particles. III. The Role of Sodium and the Head Echo Size on the Probability of Detection. Astrophysical Journal, 2017, 843, 1.	4.5	33
62	Observations of Dramatic Enhancements to the Mesospheric K Layer. Geophysical Research Letters, 2017, 44, 12,536.	4.0	11
63	Measuring FeO variation using astronomical spectroscopic observations. Atmospheric Chemistry and Physics, 2017, 17, 4177-4187.	4.9	13
64	Probing the subtropical lowermost stratosphere and the tropical upper troposphere and tropopause layer for inorganic bromine. Atmospheric Chemistry and Physics, 2017, 17, 1161-1186.	4.9	25
65	The relationship between lower-stratospheric ozone at southern high latitudes and sea surface temperature in the East Asian marginal seas in austral spring. Atmospheric Chemistry and Physics, 2017, 17, 6705-6722.	4.9	11
66	Determination of the atmospheric lifetime and global warming potential of sulfur hexafluoride using a three-dimensional model. Atmospheric Chemistry and Physics, 2017, 17, 883-898.	4.9	49
67	Constraints on Meteoric Smoke Composition and Meteoric Influx Using SOFIE Observations With Models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,495.	3.3	15
68	A new Differential Optical Absorption Spectroscopy instrument to study atmospheric chemistry from a high-altitude unmanned aircraft. Atmospheric Measurement Techniques, 2017, 10, 1017-1042.	3.1	20
69	The TOMCAT global chemical transport model v1.6: description of chemical mechanism and model evaluation. Geoscientific Model Development, 2017, 10, 3025-3057.	3.6	35
70	Comparison of global datasets of sodium densities in the mesosphere and lower thermosphere from GOMOS, SCIAMACHY and OSIRIS measurements and WACCM model simulations from 2008 to 2012. Atmospheric Measurement Techniques, 2017, 10, 2989-3006.	3.1	12
71	<i>D</i>-region ionâ€“neutral coupled chemistry (SodankylÃ Ion Chemistry,) Tj ETQq1 1 0.784314 rgB WACCM-rSIC. Geoscientific Model Development, 2016, 9, 3123-3136.	3.6	16
72	Decay times of transitionally dense specularly reflecting meteor trails and potential chemical impact on trail lifetimes. Annales Geophysicae, 2016, 34, 1119-1144.	1.6	11

#	Article	IF	Citations
73	A global model of tropospheric chlorine chemistry: Organic versus inorganic sources and impact on methane oxidation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,271.	3.3	86
74	ABLATION AND CHEMICAL ALTERATION OF COSMIC DUST PARTICLES DURING ENTRY INTO THE EARTHâ€™S ATMOSPHERE. Astrophysical Journal, Supplement Series, 2016, 227, 15.	7.7	11
75	Solar cycle response and longâ€term trends in the mesospheric metal layers. Journal of Geophysical Research: Space Physics, 2016, 121, 7153-7165.	2.4	15
76	On the ambiguous nature of the 11â€‰year solar cycle signal in upper stratospheric ozone. Geophysical Research Letters, 2016, 43, 7241-7249.	4.0	43
77	Preliminary observations and simulation of nocturnal variations of airglow temperature and emission rates at Pune (18.5Â°N), India. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 149, 59-68.	1.6	0
78	Silicon chemistry in the mesosphere and lower thermosphere. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3718-3728.	3.3	27
79	The photolysis of FeOH and its effect on the bottomside of the mesospheric Fe layer. Geophysical Research Letters, 2016, 43, 1373-1381.	4.0	17
80	RELICT OLIVINES IN MICROMETEORITES: PRECURSORS AND INTERACTIONS IN THE EARTHâ€™S ATMOSPHERE. Astrophysical Journal, 2016, 831, 197.	4.5	11
81	A multi-model intercomparison of halogenated very short-lived substances (TransCom-VSLS): linking oceanic emissions and tropospheric transport for a reconciled estimate of the stratospheric source gas injection of bromine. Atmospheric Chemistry and Physics, 2016, 16, 9163-9187.	4.9	51
82	Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphereâ€“lower stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 13541-13559.	4.9	15
83	Role of OH variability in the stalling of the global atmospheric CH₄ growth rate from 1999 to 2006. Atmospheric Chemistry and Physics, 2016, 16, 7943-7956.	4.9	68
84	Atmospheric lifetimes, infrared absorption spectra, radiative forcings and global warming potentials of NF₃ and CF₃CF₂ClÂ(CFC-115). Atmospheric Chemistry and Physics, 2016, 16, 11451-11463.	4.9	16
85	Model sensitivity studies of the decrease in atmospheric carbon tetrachloride. Atmospheric Chemistry and Physics, 2016, 16, 15741-15754.	4.9	5
86	Dissociative Recombination of FeO⁺ with Electrons: Implications for Plasma Layers in the Ionosphere. Journal of Physical Chemistry A, 2016, 120, 1369-1376.	2.5	21
87	Satellite detection, longâ€range transport, and air quality impacts of volcanic sulfur dioxide from the 2014â€“2015 flood lava eruption at BÃ¡rÃ°arbunga (Iceland). Journal of Geophysical Research D: Atmospheres, 2015, 120, 9739-9757.	3.3	98
88	The nearâ€global mesospheric potassium layer: Observations and modeling. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7975-7987.	3.3	15
89	Growth in stratospheric chlorine from shortâ€lived chemicals not controlled by the Montreal Protocol. Geophysical Research Letters, 2015, 42, 4573-4580.	4.0	42
90	Global investigation of the Mg atom and ion layers using SCIAMACHY/Envisat observations between 70 and 150 km altitude and WACCM-Mg model results. Atmospheric Chemistry and Physics, 2015, 15, 273-295.	4.9	36

#	Article	IF	Citations
91	Diurnal variation of the potassium layer in the upper atmosphere. Geophysical Research Letters, 2015, 42, 3619-3626.	4.0	10
92	Measurements of the vertical fluxes of atomic Fe and Na at the mesopause: Implications for the velocity of cosmic dust entering the atmosphere. Geophysical Research Letters, 2015, 42, 169-175.	4.0	31
93	The Mesosphere and Metals: Chemistry and Changes. Chemical Reviews, 2015, 115, 4497-4541.	47.7	216
94	Quantifying the ozone and ultraviolet benefits already achieved by the Montreal Protocol. Nature Communications, 2015, 6, 7233.	12.8	99
95	Mesospheric temperatures and sodium properties measured with the ALOMAR Na lidar compared with WACCM. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 111-119.	1.6	13
96	On the size and velocity distribution of cosmic dust particles entering the atmosphere. Geophysical Research Letters, 2015, 42, 6518-6525.	4.0	63
97	EVALUATING CHANGES IN THE ELEMENTAL COMPOSITION OF MICROMETEORITES DURING ENTRY INTO THE EARTHâ€™S ATMOSPHERE. Astrophysical Journal, 2015, 814, 78.	4.5	25
98	The uptake of HNO3 on meteoric smoke analogues. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 150-160.	1.6	18
99	Efficiency of short-lived halogens at influencing climate through depletion of stratospheric ozone. Nature Geoscience, 2015, 8, 186-190.	12.9	146
100	Mesospheric Removal of Very Long-Lived Greenhouse Gases SF‹sub›6‹/sub› and CFC-115 by Metal Reactions, Lyman-Î± Photolysis, and Electron Attachment. Journal of Physical Chemistry A, 2015, 119, 2016-2025.	2.5	18
101	Revisiting the hemispheric asymmetry in midlatitude ozone changes following the Mount Pinatubo eruption: A 3â€D model study. Geophysical Research Letters, 2015, 42, 3038-3047.	4.0	47
102	RADAR DETECTABILITY STUDIES OF SLOW AND SMALL ZODIACAL DUST CLOUD PARTICLES. II. A STUDY OF THREE RADARS WITH DIFFERENT SENSITIVITY. Astrophysical Journal, 2015, 807, 13.	4.5	15
103	First global observations of the mesospheric potassium layer. Geophysical Research Letters, 2014, 41, 5653-5661.	4.0	17
104	Morphology of sporadic ‹i›E‹/i› layer retrieved from COSMIC GPS radio occultation measurements: Wind shear theory examination. Journal of Geophysical Research: Space Physics, 2014, 119, 2117-2136.	2.4	102
105	RADAR DETECTABILITY STUDIES OF SLOW AND SMALL ZODIACAL DUST CLOUD PARTICLES. I. THE CASE OF ARECIBO 430 MHz METEOR HEAD ECHO OBSERVATIONS. Astrophysical Journal, 2014, 796, 41.	4.5	33
106	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. Nature, 2014, 515, 104-107.	27.8	110
107	Experimental Study of the Mesospheric Removal of NF3 by Neutral Meteoric Metals and Lyman-Î± Radiation. Journal of Physical Chemistry A, 2014, 118, 4120-4129.	2.5	6
108	Refractory metal nuggets in different types of cosmic spherules. Geochimica Et Cosmochimica Acta, 2014, 131, 247-266.	3.9	34

#	Article	IF	Citations
109	Assessing hazards to aviation from sulfur dioxide emitted by explosive Icelandic eruptions. Journal of Geophysical Research D: Atmospheres, 2014, 119, 14,180.	3.3	23
110	Inferring the global cosmic dust influx to the Earth's atmosphere from lidar observations of the vertical flux of mesospheric Na. Journal of Geophysical Research: Space Physics, 2014, 119, 7870-7879.	2.4	45
111	Resolving the strange behavior of extraterrestrial potassium in the upper atmosphere. Geophysical Research Letters, 2014, 41, 4753-4760.	4.0	43
112	LOCUS: Low cost upper atmosphere sounder. Proceedings of SPIE, 2013, , .	0.8	2
113	Stratospheric O₃ changes during 2001â€“2010: the small role of solar flux variations in a chemical transport model. Atmospheric Chemistry and Physics, 2013, 13, 10113-10123.	4.9	25
114	Evaluating global emission inventories of biogenic bromocarbons. Atmospheric Chemistry and Physics, 2013, 13, 11819-11838.	4.9	66
115	Atmospheric test of the J(BrONO₂)/<i>k</i><sub>BrO+NO<s ratio: implications for total stratospheric Br_y and bromine-mediated ozone loss. Atmospheric Chemistry and Physics, 2013, 13, 6263-6274.	4.9	21
116	A global atmospheric model of meteoric iron. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9456-9474.	3.3	105
117	A global model of meteoric sodium. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,442.	3.3	84
118	Strong Dynamical Modulation of the Cooling of the Polar Stratosphere Associated with the Antarctic Ozone Hole. Journal of Climate, 2012, 26, 662-668.	3.2	18
119	Observed and simulated time evolution of HCl, ClONO₂, and HF total column abundances. Atmospheric Chemistry and Physics, 2012, 12, 3527-3556.	4.9	72
120	Unusually low ozone, HCl, and HNO₃ column measurements at Eureka, Canada during winter/spring 2011. Atmospheric Chemistry and Physics, 2012, 12, 3821-3835.	4.9	34
121	The contribution of natural and anthropogenic very short-lived species to stratospheric bromine. Atmospheric Chemistry and Physics, 2012, 12, 371-380.	4.9	63
122	Possible Dynamical Mechanisms for Southern Hemisphere Climate Change due to the Ozone Hole. Journals of the Atmospheric Sciences, 2012, 69, 2917-2932.	1.7	30
123	Severe 2011 ozone depletion assessed with 11 years of ozone, NO₂, and OClO measurements at 80Â°N. Geophysical Research Letters, 2012, 39, .	4.0	30
124	The existence of the edge region of the Antarctic stratospheric vortex. Journal of Geophysical Research, 2012, 117, .	3.3	18
125	Fractionation and fragmentation of glass cosmic spherules during atmospheric entry. Geochimica Et Cosmochimica Acta, 2012, 99, 110-127.	3.9	31
126	FeO emission in the mesosphere: Detectability, diurnal behavior, and modeling. Journal of Geophysical Research, 2011, 116, .	3.3	19

#	Article	IF	Citations
127	Results from a new linear O₃ scheme with embedded heterogeneous chemistry compared with the parent full-chemistry 3-D CTM. Atmospheric Chemistry and Physics, 2011, 11, 1227-1242.	4.9	16
128	Representation of tropical deep convection in atmospheric models â€“ Part 1: Meteorology and comparison with satellite observations. Atmospheric Chemistry and Physics, 2011, 11, 2765-2786.	4.9	36
129	Evaluation of cloud convection and tracer transport in a three-dimensional chemical transport model. Atmospheric Chemistry and Physics, 2011, 11, 5783-5803.	4.9	29
130	Modelling the effect of denitrification on polar ozone depletion for Arctic winter 2004/2005. Atmospheric Chemistry and Physics, 2011, 11, 6559-6573.	4.9	35
131	Retrievals of chlorine chemistry kinetic parameters from Antarctic ClO microwave radiometer measurements. Atmospheric Chemistry and Physics, 2011, 11, 5183-5193.	4.9	12
132	Representation of tropical deep convection in atmospheric models â€“ Part 2: Tracer transport. Atmospheric Chemistry and Physics, 2011, 11, 8103-8131.	4.9	46
133	A study of the Arctic NOybudget above Eureka, Canada. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	8
134	Solar response in tropical stratospheric ozone: a 3-D chemical transport model study using ERA reanalyses. Atmospheric Chemistry and Physics, 2011, 11, 12773-12786.	4.9	27
135	A study of upper troposphere and lower stratosphere water vapor above the Tibetan Plateau using AIRS and MLS data. Atmospheric Science Letters, 2011, 12, 233-239.	1.9	22
136	Estimation of Antarctic ozone loss from ground-based total column measurements. Atmospheric Chemistry and Physics, 2010, 10, 6569-6581.	4.9	38
137	Aircraft measurements and model simulations of stratospheric ozone and N2O: implications for chemistry and transport processes in the models. Journal of Atmospheric Chemistry, 2010, 66, 41-64.	3.2	3
138	Hydrogen fluoride total and partial column time series above the Jungfraujoch from longâ€term FTIR measurements: Impact of the lineâ€shape model, characterization of the error budget and seasonal cycle, and comparison with satellite and model data. Journal of Geophysical Research, 2010, 115, .	3.3	34
139	An approach to retrieve information on the carbonyl fluoride (COF₂) vertical distributions above Jungfraujoch by FTIR multi-spectrum multi-window fitting. Atmospheric Chemistry and Physics, 2009, 9, 9027-9042.	4.9	13
140	Equatorial transport as diagnosed from nitrous oxide variability. Atmospheric Chemistry and Physics, 2009, 9, 8173-8188.	4.9	22
141	The contribution of anthropogenic bromine emissions to past stratospheric ozone trends: a modelling study. Atmospheric Chemistry and Physics, 2009, 9, 2863-2871.	4.9	112
142	Model evaluation of CO₂ and SF₆ in the extratropical UT/LS region. Journal of Geophysical Research, 2008, 113, .	3.3	21
143	A study of ozone depletion in the 2004/2005 Arctic winter based on data from Odin/SMR and Aura/MLS. Journal of Geophysical Research, 2008, 113, .	3.3	27
144	Mid-latitude ozone changes: studies with a 3-D CTM forced by ERA-40 analyses. Atmospheric Chemistry and Physics, 2007, 7, 2357-2369.	4.9	91

#	Article	IF	Citations
145	Large chemical ozone loss in 2004/2005 Arctic winter/spring. Geophysical Research Letters, 2007, 34, .	4.0	50
146	Quantifying Arctic ozone loss during the 2004â€“2005 winter using satellite observations and a chemical transport model. Journal of Geophysical Research, 2007, 112, .	3.3	37
147	Comparison of polar ozone loss rates simulated by one-dimensional and three-dimensional models with Match observations in recent Antarctic and Arctic winters. Journal of Geophysical Research, 2007, 112, .	3.3	20
148	The potential impact of ClO_x radical complexes on polar stratospheric ozone loss processes. Atmospheric Chemistry and Physics, 2006, 6, 3099-3114.	4.9	7
149	Fast Ozone Loss Around the Polar Vortex During 2002/2003 Arctic Winter Deep Minihole Event. Water, Air, and Soil Pollution, 2006, 171, 383-397.	2.4	5
150	Three-dimensional model study of the Arctic ozone loss in 2002/2003 and comparison with 1999/2000 and 2003/2004. Atmospheric Chemistry and Physics, 2005, 5, 139-152.	4.9	62
151	2002-2003 Arctic ozone loss deduced from POAM III satellite observations and the SLIMCAT chemical transport model. Atmospheric Chemistry and Physics, 2005, 5, 597-609.	4.9	48
152	Early unusual ozone loss during the Arctic winter 2002/2003 compared to other winters. Atmospheric Chemistry and Physics, 2005, 5, 665-677.	4.9	66
153	Three-Dimensional Model Study of the Antarctic Ozone Hole in 2002 and Comparison with 2000. Journals of the Atmospheric Sciences, 2005, 62, 822-837.	1.7	39
154	NO3 Vertical Profile Measurements from Remote Sensing Balloon-Borne Spectrometers and Comparison with Model Calculations. Journal of Atmospheric Chemistry, 2005, 51, 65-78.	3.2	10
155	Arctic ozone loss and climate sensitivity: Updated three-dimensional model study. Geophysical Research Letters, 2005, 32, .	4.0	46
156	Comment on: Stratospheric Ozone Depletion at northern mid-latitudes in the 21st century: The importance of future concentrations of greenhouse gases nitrous oxide and methane. Geophysical Research Letters, 2003, 30, .	4.0	49