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	The Mesosphere and Metals: Chemistry and Changes. Chemical Reviews, 2015, 115, 4497-4541.	47.7	216
2	Efficiency of short-lived halogens at influencing climate through depletion of stratospheric ozone. Nature Geoscience, 2015, 8, 186-190.	12.9	146
3	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
4	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. Nature, 2014, 515, 104-107.	27.8	110
5	A global atmospheric model of meteoric iron. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9456-9474.	3.3	105
6	Morphology of sporadic E 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
7	Quantifying the ozone and ultraviolet benefits already achieved by the Montreal Protocol. Nature Communications, 2015, 6, 7233.	12.8	99
8	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
9	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
10	On the Cause of Recent Variations in Lower Stratospheric Ozone. Geophysical Research Letters, 2018, 45, 5718-5726.	4.0	87
11	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
12	A global model of meteoric sodium. Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,442.	3.3	84
13	Observed and simulated time evolution of HCl, ClONO₂, and HF total column abundances. Atmospheric Chemistry and Physics, 2012, 12, 3527-3556.	4.9	72
14	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. Nature Communications, 2018, 9, 206.	12.8	69
15	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
16	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
17	Evaluating global emission inventories of biogenic bromocarbons. Atmospheric Chemistry and Physics, 2013, 13, 11819-11838.	4.9	66
18	The contribution of natural and anthropogenic very short-lived species to stratospheric bromine. Atmospheric Chemistry and Physics, 2012, 12, 371-380.	4.9	63

#	Article	IF	Citations
19	On the size and velocity distribution of cosmic dust particles entering the atmosphere. Geophysical Research Letters, 2015, 42, 6518-6525.	4.0	63
20	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
21	Delay in recovery of the Antarctic ozone hole from unexpected CFC-11 emissions. Nature Communications, 2019, 10, 5781.	12.8	58
22	A decline in global CFC-11 emissions during 2018â^'2019. Nature, 2021, 590, 428-432.	27.8	55
23	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
24	Attribution of recent increases in atmospheric methane through 3-D inverse modelling. Atmospheric Chemistry and Physics, 2018, 18, 18149-18168.	4.9	51
25	Large chemical ozone loss in 2004/2005 Arctic winter/spring. Geophysical Research Letters, 2007, 34, .	4.0	50
26	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
27	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
28	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
29	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
30	Arctic ozone loss and climate sensitivity: Updated three-dimensional model study. Geophysical Research Letters, 2005, 32, .	4.0	46
31	Representation of tropical deep convection in atmospheric models â€“ Part 2: Tracer transport. Atmospheric Chemistry and Physics, 2011, 11, 8103-8131.	4.9	46
32	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
33	Age of air as a diagnostic for transport timescales in global models. Geoscientific Model Development, 2018, 11, 3109-3130.	3.6	44
34	Resolving the strange behavior of extraterrestrial potassium in the upper atmosphere. Geophysical Research Letters, 2014, 41, 4753-4760.	4.0	43
35	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
36	Growth in stratospheric chlorine from shortâ€lived chemicals not controlled by the Montreal Protocol. Geophysical Research Letters, 2015, 42, 4573-4580.	4.0	42

#	Article	IF	Citations
37	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
38	Estimation of Antarctic ozone loss from ground-based total column measurements. Atmospheric Chemistry and Physics, 2010, 10, 6569-6581.	4.9	38
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	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
47	Refractory metal nuggets in different types of cosmic spherules. Geochimica Et Cosmochimica Acta, 2014, 131, 247-266.	3.9	34
48	Recent Trends in Stratospheric Chlorine From Very Shortâ€Lived Substances. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2318-2335.	3.3	34
49	Arctic Ozone Depletion in 2019/20: Roles of Chemistry, Dynamics and the Montreal Protocol. Geophysical Research Letters, 2021, 48, e2020GL091911.	4.0	34
50	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
51	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
52	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
53	Fractionation and fragmentation of glass cosmic spherules during atmospheric entry. Geochimica Et Cosmochimica Acta, 2012, 99, 110-127.	3.9	31
54	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

#	Article	IF	Citations
55	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
56	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
57	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
58	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
59	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
60	Silicon chemistry in the mesosphere and lower thermosphere. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3718-3728.	3.3	27
61	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
62	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
63	EVALUATING CHANGES IN THE ELEMENTAL COMPOSITION OF MICROMETEORITES DURING ENTRY INTO THE EARTHâ€™S ATMOSPHERE. Astrophysical Journal, 2015, 814, 78.	4.5	25
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	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
66	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
67	Equatorial transport as diagnosed from nitrous oxide variability. Atmospheric Chemistry and Physics, 2009, 9, 8173-8188.	4.9	22
68	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
69	Recent Arctic ozone depletion: Is there an impact of climate change?. Comptes Rendus - Geoscience, 2018, 350, 347-353.	1.2	22
70	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
71	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
72	Model evaluation of CO₂ and SF₆ in the extratropical UT/LS region. Journal of Geophysical Research, 2008, 113, .	3.3	21

#	Article	IF	Citations
73	Atmospheric test of the J(BrONO₂)/<i>k</i><sub>BrO+NO</sub ratio: implications for total stratospheric Br_y and bromine-mediated ozone loss. Atmospheric Chemistry and Physics, 2013, 13, 6263-6274.	4.9	21
74	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
75	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
76	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
77	FeO emission in the mesosphere: Detectability, diurnal behavior, and modeling. Journal of Geophysical Research, 2011, 116, .	3.3	19
78	A new model of meteoric calcium in the mesosphere and lower thermosphere. Atmospheric Chemistry and Physics, 2018, 18, 14799-14811.	4.9	19
79	Zonally asymmetric trends of winter total column ozone in the northern middle latitudes. Climate Dynamics, 2019, 52, 4483-4500.	3.8	19
80	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
81	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
82	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
83	The existence of the edge region of the Antarctic stratospheric vortex. Journal of Geophysical Research, 2012, 117, .	3.3	18
84	The uptake of HNO3 on meteoric smoke analogues. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 127, 150-160.	1.6	18
85	Mesospheric Removal of Very Long-Lived Greenhouse Gases SF₆ and CFC-115 by Metal Reactions, Lyman-Î± Photolysis, and Electron Attachment. Journal of Physical Chemistry A, 2015, 119, 2016-2025.	2.5	18
86	Dynamically controlled ozone decline in the tropical mid-stratosphere observed by SCIAMACHY. Atmospheric Chemistry and Physics, 2019, 19, 767-783.	4.9	18
87	First global observations of the mesospheric potassium layer. Geophysical Research Letters, 2014, 41, 5653-5661.	4.0	17
88	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
89	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
90	<i>D</i>-region ionâ€“neutral coupled chemistry (SodankylÃ Ion Chemistry,) Tj ETQq0 0 0 rgBT /Overlock WACCM-rSIC. Geoscientific Model Development, 2016, 9, 3123-3136.	3.6	16

#	Article	IF	Citations
91	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
92	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
93	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
94	Substantial Increases in Eastern Amazon and Cerrado Biomass Burningâ€Sourced Tropospheric Ozone. Geophysical Research Letters, 2020, 47, e2019GL084143.	4.0	16
95	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
96	The nearâ€global mesospheric potassium layer: Observations and modeling. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7975-7987.	3.3	15
97	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
98	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
99	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
100	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
101	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
102	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
103	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
104	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
105	Measuring FeO variation using astronomical spectroscopic observations. Atmospheric Chemistry and Physics, 2017, 17, 4177-4187.	4.9	13
106	Retrievals of chlorine chemistry kinetic parameters from Antarctic ClO microwave radiometer measurements. Atmospheric Chemistry and Physics, 2011, 11, 5183-5193.	4.9	12
107	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
108	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

#	Article	IF	Citations
109	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
110	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
111	The role of chemical processes in the quasi-biennial oscillation (QBO) signal in stratospheric ozone. Atmospheric Environment, 2021, 244, 117906.	4.1	12
112	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
113	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
114	RELICT OLIVINES IN MICROMETEORITES: PRECURSORS AND INTERACTIONS IN THE EARTHâ€™S ATMOSPHERE. Astrophysical Journal, 2016, 831, 197.	4.5	11
115	Observations of Dramatic Enhancements to the Mesospheric K Layer. Geophysical Research Letters, 2017, 44, 12,536.	4.0	11
116	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
117	Self-consistent global transport of metallic ions with WACCM-X. Atmospheric Chemistry and Physics, 2021, 21, 15619-15630.	4.9	11
118	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
119	Diurnal variation of the potassium layer in the upper atmosphere. Geophysical Research Letters, 2015, 42, 3619-3626.	4.0	10
120	The uptake of HO₂ on meteoric smoke analogues. Journal of Geophysical Research D: Atmospheres, 2017, 122, 554-565.	3.3	10
121	Impacts of meteoric sulfur in the Earth's atmosphere. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7678-7701.	3.3	10
122	Interannual Variations in Lower Stratospheric Ozone During the Period 1984â€“2016. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8225-8241.	3.3	10
123	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
124	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
125	Exceptional loss in ozone in the Arctic winter/spring of 2019/2020. Atmospheric Chemistry and Physics, 2021, 21, 14019-14037.	4.9	10
126	Selective Disparity of Ordinary Chondritic Precursors in Micrometeorite Flux. Astrophysical Journal, 2018, 853, 38.	4.5	9

#	Article	IF	Citations
127	Observations and Modeling of Potassium Emission in the Terrestrial Nightglow. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6612-6629.	3.3	9
128	Gravitational separation of Arâˆ•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
129	A study of the Arctic NOybudget above Eureka, Canada. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	8
130	Photochemistry on the bottom side of the mesospheric Na layer. Atmospheric Chemistry and Physics, 2019, 19, 3769-3777.	4.9	8
131	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
132	The Meteoric Ni Layer in the Upper Atmosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028083.	2.4	8
133	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
134	Meteorâ€Ablated Aluminum in the Mesosphereâ€Lower Thermosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028792.	2.4	8
135	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
136	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
137	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
138	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
139	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
140	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
141	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
142	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
143	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
144	Phosphorus Chemistry in the Earth's Upper Atmosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029881.	2.4	6

#	Article	IF	Citations
145	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
146	Model sensitivity studies of the decrease in atmospheric carbon tetrachloride. Atmospheric Chemistry and Physics, 2016, 16, 15741-15754.	4.9	5
147	An Explanation for the Nitrous Oxide Layer Observed in the Mesopause Region. Geophysical Research Letters, 2018, 45, 7818-7827.	4.0	5
148	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
149	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
150	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
151	The Chemistry of Mercury in the Stratosphere. Geophysical Research Letters, 2022, 49, .	4.0	4
152	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
153	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
154	LOCUS: Low cost upper atmosphere sounder. Proceedings of SPIE, 2013, , .	0.8	2
155	Analysis of the Antarctic Ozone Hole in November. Journal of Climate, 2021, , 1-53.	3.2	2
156	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