Paul A Newman

List of Publications by Year
in descending order

216 papers	13,048 citations	22132 59 h-index	31818 101 g-index
248 all docs	248 docs citations	248 times ranked	6249 citing authors

#	Article	IF	Citations
1	An objective determination of the polar vortex using Ertel's potential vorticity. Journal of Geophysical Research, 1996, 101, 9471-9478.	3.3	504
2	Nimbus 7 satellite measurements of the springtime Antarctic ozone decrease. Nature, 1986, 322, 808-811.	13.7	414
3	Assessment of temperature, trace species, and ozone in chemistry-climate model simulations of the recent past. Journal of Geophysical Research, 2006, 111, .	3.3	414
4	The structure of the polar vortex. Journal of Geophysical Research, 1992, 97, 7859-7882.	3.3	328
5	Record Low Global Ozone in 1992. Science, 1993, 260, 523-526.	6.0	326
6	What controls the temperature of the Arctic stratosphere during the spring?. Journal of Geophysical Research, 2001, 106, 19999-20010.	3.3	315
7	Multimodel projections of stratospheric ozone in the 21st century. Journal of Geophysical Research, 2007, 112, .	3.3	308
8	Uncertainties and assessments of chemistry-climate models of the stratosphere. Atmospheric Chemistry and Physics, 2003, 3, 1-27.	1.9	272
9	The Ozone Monitoring Instrument: overview of 14 years in space. Atmospheric Chemistry and Physics, 2018, 18, 5699-5745.	1.9	259
10	A new formulation of equivalent effective stratospheric chlorine (EESC). Atmospheric Chemistry and Physics, 2007, 7, 4537-4552.	1.9	241
11	Transport out of the lower stratospheric Arctic vortex by Rossby wave breaking. Journal of Geophysical Research, 1994, 99, 1071.	3.3	198
12	Persistence of the lower stratospheric polar vortices. Journal of Geophysical Research, 1999, 104, 27191-27201.	3.3	197
13	Anomalously low ozone over the Arctic. Geophysical Research Letters, 1997, 24, 2689-2692.	1.5	177
14	Computations of diabatic descent in the stratospheric polar vortex. Journal of Geophysical Research, 1994, 99, 16677.	3.3	173
15	What would have happened to the ozone layer if chlorofluorocarbons (CFCs) had not been regulated?. Atmospheric Chemistry and Physics, 2009, 9, 2113-2128.	1.9	165
16	Meteorology of the polar vortex: Spring 1997. Geophysical Research Letters, 1997, 24, 2693-2696.	1.5	160
17	The Unusual Southern Hemisphere Stratosphere Winter of 2002. Journals of the Atmospheric Sciences, 2005, 62, 614-628.	0.6	153
18	When will the Antarctic ozone hole recover?. Geophysical Research Letters, 2006, 33, .	1.5	151

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19	Chlorine Chemistry on Polar Stratospheric Cloud Particles in the Arctic Winter. Science, 1993, 261, 1130-1134.	6.0	150
20	Mixing of polar vortex air into middle latitudes as revealed by tracer-tracer scatterplots. Journal of Geophysical Research, 1997, 102, 13119-13134.	3.3	144
21	Goddard Earth Observing System chemistryâ€climate model simulations of stratospheric ozoneâ€temperature coupling between 1950 and 2005. Journal of Geophysical Research, 2008, 113, .	3.3	144
22	Stratospheric horizontal wavenumber spectra of winds, potential temperature, and atmospheric tracers observed by high-altitude aircraft. Journal of Geophysical Research, 1996, 101, 9441-9470.	3.3	142
23	Intrusions into the lower stratospheric Arctic vortex during the winter of 1991â€“1992. Journal of Geophysical Research, 1994, 99, 1089.	3.3	140
24	A Strategy for Process-Oriented Validation of Coupled Chemistryâ€“Climate Models. Bulletin of the American Meteorological Society, 2005, 86, 1117-1134.	1.7	139
25	Multimodel climate and variability of the stratosphere. Journal of Geophysical Research, 2011, 116, .	3.3	139
26	The anomalous change in the QBO in 2015â€“2016. Geophysical Research Letters, 2016, 43, 8791-8797.	1.5	139
27	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	1.7	135
28	Chemical Loss of Ozone in the Arctic Polar Vortex in the Winter of 1991-1992. Science, 1993, 261, 1146-1149.	6.0	131
29	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	1.7	129
30	Quantifying Denitrification and Its Effect on Ozone Recovery. Science, 2000, 288, 1407-1411.	6.0	127
31	State of the Climate in 2011. Bulletin of the American Meteorological Society, 2012, 93, S1-S282.	1.7	121
32	Planning, implementation, and first results of the Tropical Composition, Cloud and Climate Coupling Experiment (TC4). Journal of Geophysical Research, 2010, 115, .	3.3	120
33	The Remarkably Strong Arctic Stratospheric Polar Vortex of Winter 2020: Links to Recordâ€Breaking Arctic Oscillation and Ozone Loss. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033271.	1.2	119
34	Quasiâ€biennial modulation of the Antarctic ozone depletion. Journal of Geophysical Research, 1989, 94, 11559-11571.	3.3	116
35	Reconstruction of the constituent distribution and trends in the Antarctic polar vortex from ERâ€2 flight observations. Journal of Geophysical Research, 1989, 94, 16815-16845.	3.3	112
36	Stratospheric ozone in the post-CFC era. Atmospheric Chemistry and Physics, 2009, 9, 2207-2213.	1.9	108

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37	A multiple-level trajectory analysis of vortex filaments. Journal of Geophysical Research, 1995, 100, 25801.	3.3	99
38	Impacts of climate change on stratospheric ozone recovery. Geophysical Research Letters, 2009, 36, .	1.5	97
39	Evidence of the mid-latitude impact of Antarctic ozone depletion. Nature, 1989, 340, 290-294.	13.7	95
40	An overview of the SOLVE/THESEO 2000 campaign. Journal of Geophysical Research, 2002, 107, SOL 1-1.	3.3	94
41	On the influence of North Pacific sea surface temperature on the Arctic winter climate. Journal of Geophysical Research, 2012, 117, .	3.3	92
42	Modifications of the quasiâ€biennial oscillation by a geoengineering perturbation of the stratospheric aerosol layer. Geophysical Research Letters, 2014, 41, 1738-1744.	1.5	90
43	The morphology and meteorology of southern hemisphere spring total ozone mini-holes. Geophysical Research Letters, 1988, 15, 923-926.	1.5	86
44	On the size of the Antarctic ozone hole. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	82
45	The Response of Ozone and Nitrogen Dioxide to the Eruption of Mt. Pinatubo at Southern and Northern Midlatitudes. Journals of the Atmospheric Sciences, 2013, 70, 894-900.	0.6	81
46	The NASA Airborne Tropical Tropopause Experiment: High-Altitude Aircraft Measurements in the Tropical Western Pacific. Bulletin of the American Meteorological Society, 2017, 98, 129-143.	1.7	79
47	Dynamical proxies of column ozone with applications to global trend models. Journal of Geophysical Research, 1997, 102, 6117-6129.	3.3	78
48	Dispersion of the volcanic sulfate cloud from a Mount Pinatuboâ€“like eruption. Journal of Geophysical Research, 2012, 117, .	3.3	77
49	Effect of zonal asymmetries in stratospheric ozone on simulated Southern Hemisphere climate trends. Geophysical Research Letters, 2009, 36, .	1.5	75
50	On the influence of anthropogenic forcings on changes in the stratospheric mean age. Journal of Geophysical Research, 2009, 114, .	3.3	75
51	Projections of UV radiation changes in the 21st century: impact of ozone recovery and cloud effects. Atmospheric Chemistry and Physics, 2011, 11, 7533-7545.	1.9	75
52	State of the Climate in 2008. Bulletin of the American Meteorological Society, 2009, 90, S1-S196.	1.7	74
53	Severe and extensive denitrification in the 1999-2000 Arctic winter stratosphere. Geophysical Research Letters, 2001, 28, 2875-2878.	1.5	71
54	QBO and annual cycle variations in tropical lower stratosphere trace gases from HALOE and Aura MLS observations. Journal of Geophysical Research, 2008, 113, .	3.3	71

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55	A simulation of the Cerro Hudson SO₂ cloud. Journal of Geophysical Research, 1993, 98, 2949-2955.	3.3	70
56	The Seasonal Evolution of Reactive Chlorine in the Northern Hemisphere Stratosphere. Science, 1993, 261, 1134-1136.	6.0	69
57	Stratospheric thermal damping times. Geophysical Research Letters, 1997, 24, 433-436.	1.5	67
58	An Algorithm for Forecasting Mountain Waveâ€œRelated Turbulence in the Stratosphere. Weather and Forecasting, 1994, 9, 241-253.	0.5	66
59	Loss of ozone in the Arctic vortex for the winter of 1989. Geophysical Research Letters, 1990, 17, 561-564.	1.5	65
60	Quantifying the wave driving of the stratosphere. Journal of Geophysical Research, 2000, 105, 12485-12497.	3.3	63
61	Mixing rates calculated from potential vorticity. Journal of Geophysical Research, 1988, 93, 5221-5240.	3.3	62
62	A comparison of observations and model simulations of NOx/NOyin the lower stratosphere. Geophysical Research Letters, 1999, 26, 1153-1156.	1.5	61
63	Relationship of loss, mean age of air and the distribution of CFCs to stratospheric circulation and implications for atmospheric lifetimes. Journal of Geophysical Research, 2008, 113, .	3.3	61
64	Dynamics of the Disrupted 2015/16 Quasi-Biennial Oscillation. Journal of Climate, 2017, 30, 5661-5674.	1.2	61
65	The Arctic vortex in March 2011: a dynamical perspective. Atmospheric Chemistry and Physics, 2011, 11, 11447-11453.	1.9	60
66	The contributions of chemistry and transport to low arctic ozone in March 2011 derived from Aura MLS observations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1563-1576.	1.2	60
67	Stratospheric constituent trends from ERâ€2 profile data. Geophysical Research Letters, 1990, 17, 469-472.	1.5	59
68	Response of the Antarctic Stratosphere to Two Types of El NiÃ±o Events. Journals of the Atmospheric Sciences, 2011, 68, 812-822.	0.6	58
69	The 2019 Southern Hemisphere Stratospheric Polar Vortex Weakening and Its Impacts. Bulletin of the American Meteorological Society, 2021, 102, E1150-E1171.	1.7	55
70	Coherent ozoneâ€dynamical changes during the southern hemisphere spring, 1979â€œ1986. Journal of Geophysical Research, 1988, 93, 12585-12606.	3.3	53
71	Trajectory mapping and applications to data from the Upper Atmosphere Research Satellite. Journal of Geophysical Research, 1995, 100, 16491.	3.3	53
72	Activation of chlorine in sulfate aerosol as inferred from aircraft observations. Journal of Geophysical Research, 1997, 102, 3921-3933.	3.3	53

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73	NASAâ€™s Hurricane and Severe Storm Sentinel (HS3) Investigation. Bulletin of the American Meteorological Society, 2016, 97, 2085-2102.	1.7	53
74	Relative Contribution of Greenhouse Gases and Ozone-Depleting Substances to Temperature Trends in the Stratosphere: A Chemistryâ€“Climate Model Study. Journal of Climate, 2010, 23, 28-42.	1.2	52
75	New stratospheric dust belt due to the Chelyabinsk bolide. Geophysical Research Letters, 2013, 40, 4728-4733.	1.5	51
76	Airborne measurements of stratospheric constituents over the Arctic in the winter of 1989. Geophysical Research Letters, 1990, 17, 473-476.	1.5	50
77	Reconstruction of O₃ and N₂O fields from ERâ€2, DCâ€8, and balloon observations. Geophysical Research Letters, 1990, 17, 521-524.	1.5	49
78	The Ozone Hole of 2002 as Measured by TOMS. Journals of the Atmospheric Sciences, 2005, 62, 716-720.	0.6	49
79	Evidence for subsidence in the 1989 Arctic winter stratosphere from airborne infrared composition measurements. Journal of Geophysical Research, 1992, 97, 7963-7970.	3.3	48
80	A reinterpretation of the data from the NASA Stratosphere-Troposphere Exchange Project. Geophysical Research Letters, 1995, 22, 2501-2504.	1.5	48
81	UV impacts avoided by the Montreal Protocol. Photochemical and Photobiological Sciences, 2011, 10, 1152-1160.	1.6	48
82	The final warming and polar vortex disappearance during the Southern Hemisphere spring. Geophysical Research Letters, 1986, 13, 1228-1231.	1.5	47
83	NEw observations of the NO_y/N₂O correlation in the lower stratosphere. Geophysical Research Letters, 1993, 20, 2531-2534.	1.5	47
84	Current sources of carbon tetrachloride (CCl ₄) in our atmosphere. Environmental Research Letters, 2018, 13, 024004.	2.2	47
85	Potential vorticity and mixing in the south polar vortex during spring. Journal of Geophysical Research, 1989, 94, 11625-11640.	3.3	46
86	Diabatic cross-isentropic dispersion in the lower stratosphere. Journal of Geophysical Research, 1997, 102, 25817-25829.	3.3	45
87	Measurements of polar vortex air in the midlatitudes. Journal of Geophysical Research, 1996, 101, 12879-12891.	3.3	44
88	Denitrification observed inside the Arctic vortex in February 1995. Journal of Geophysical Research, 1998, 103, 16221-16233.	3.3	44
89	Airâ€mass origin in the tropical lower stratosphere: The influence of Asian boundary layer air. Geophysical Research Letters, 2015, 42, 4240-4248.	1.5	44
90	Success of Montreal Protocol Demonstrated by Comparing High-Quality UV Measurements with â€œWorld Avoidedâ€•Calculations from Two Chemistry-Climate Models. Scientific Reports, 2019, 9, 12332.	1.6	44

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91	Postâ€Pinatubo optical depth spectra vs. latitude and vortex structure: Airborne tracking sunphotometer measurements in AASE II. Geophysical Research Letters, 1993, 20, 2571-2574.	1.5	43
92	An ozone increase in the Antarctic summer stratosphere: A dynamical response to the ozone hole. Geophysical Research Letters, 2006, 33, .	1.5	42
93	Stratospheric Meteorological Conditions in the Arctic Polar Vortex, 1991 to 1992. Science, 1993, 261, 1143-1146.	6.0	41
94	Measuring the Antarctic ozone hole with the new Ozone Mapping and Profiler Suite (OMPS). Atmospheric Chemistry and Physics, 2014, 14, 2353-2361.	1.9	41
95	Heterogeneous Reaction Probabilities, Solubilities, and the Physical State of Cold Volcanic Aerosols. Science, 1993, 261, 1136-1140.	6.0	40
96	Mechanisms and feedback causing changes in upper stratospheric ozone in the 21st century. Journal of Geophysical Research, 2010, 115, .	3.3	40
97	Assessment and applications of NASA ozone data products derived from Aura OMI/MLS satellite measurements in context of the GMI chemical transport model. Journal of Geophysical Research D: Atmospheres, 2014, 119, 5671-5699.	1.2	40
98	October Antarctic temperature and total ozone trends from 1979â€1985. Geophysical Research Letters, 1986, 13, 1206-1209.	1.5	39
99	The morphology of Antarctic total ozone as seen by TOMS. Geophysical Research Letters, 1986, 13, 1217-1220.	1.5	39
100	Ozone depletion by hydrofluorocarbons. Geophysical Research Letters, 2015, 42, 8686-8692.	1.5	39
101	Response of trace gases to the disrupted 2015â€“2016 quasi-biennial oscillation. Atmospheric Chemistry and Physics, 2017, 17, 6813-6823.	1.9	39
102	The NASA Atmospheric Tomography (ATom) Mission: Imaging the Chemistry of the Global Atmosphere. Bulletin of the American Meteorological Society, 2022, 103, E761-E790.	1.7	39
103	Constraining the carbon tetrachloride (CCl₄) budget using its global trend and interâ€hemispheric gradient. Geophysical Research Letters, 2014, 41, 5307-5315.	1.5	38
104	The Montreal Protocol protects the terrestrial carbon sink. Nature, 2021, 596, 384-388.	13.7	38
105	the 1989 Antarctic Ozone Hole as observed by TOMS. Geophysical Research Letters, 1990, 17, 1267-1270.	1.5	37
106	Impacts of Interactive Stratospheric Chemistry on Antarctic and Southern Ocean Climate Change in the Goddard Earth Observing System, Version 5 (GEOS-5). Journal of Climate, 2016, 29, 3199-3218.	1.2	36
107	Interpretation of NO_x/NO_y observations from AASEâ€II using a model of chemistry along trajectories. Geophysical Research Letters, 1993, 20, 2507-2510.	1.5	35
108	Validating AIRS upper atmosphere water vapor retrievals using aircraft and balloon in situ measurements. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	35

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109	A meteorological overview of the TC4 mission. Journal of Geophysical Research, 2010, 115, .	3.3	35
110	Response of the Antarctic stratosphere to warm pool El NiÃ±o Events in the GEOS CCM. Atmospheric Chemistry and Physics, 2011, 11, 9659-9669.	1.9	35
111	Horizontal mixing coefficients for twoâ€dimensional chemical models calculated from National Meteorological Center data. Journal of Geophysical Research, 1986, 91, 7919-7924.	3.3	34
112	Dehydration and denitrification in the Arctic Polar Vortex during the 1995-1996 winter. Geophysical Research Letters, 1998, 25, 501-504.	1.5	33
113	Observational evidence for the role of denitrification in Arctic stratospheric ozone loss. Geophysical Research Letters, 2001, 28, 2879-2882.	1.5	33
114	The evolution of CLO and NO along air parcel trajectories. Geophysical Research Letters, 1993, 20, 2511-2514.	1.5	32
115	An Investigation of ClO Photchemistry in the Chemically Perturbed Arctic Vortex. Journal of Atmospheric Chemistry, 1999, 32, 61-81.	1.4	32
116	Preface [to special section on Photochemistry of Ozone Loss in the Arctic Region in Summer (POLARIS)]. Journal of Geophysical Research, 1999, 104, 26481-26495.	3.3	32
117	UV absorption cross sections of nitrous oxide (N₂O) and carbon tetrachloride (CCl₄) between 210 and 350 K and the atmospheric implications. Atmospheric Chemistry and Physics, 2010, 10, 6137-6149.	1.9	32
118	Comparison of ozone profiles from groundâ€based lidar, electrochemical concentration cell balloon sonde, ROCOZâ€A rocket ozonesonde, and Stratospheric Aerosol and Gas Experiment satellite measurements. Journal of Geophysical Research, 1990, 95, 10037-10042.	3.3	30
119	Seasonal variation of ozone in the tropical lower stratosphere: Southern tropics are different from northern tropics. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6196-6206.	1.2	30
120	A comparison of Arctic lower stratospheric winter temperatures for 1988â€"89 with temperatures since 1964. Geophysical Research Letters, 1990, 17, 333-336.	1.5	29
121	Seasonal variations of stratospheric age spectra in the Goddard Earth Observing System Chemistry Climate Model (GEOSCCM). Journal of Geophysical Research, 2012, 117, .	3.3	29
122	The NASA Carbon Airborne Flux Experiment (CARAFE): instrumentation and methodology. Atmospheric Measurement Techniques, 2018, 11, 1757-1776.	1.2	29
123	Evaluation of emissions and transport of CFCs using surface observations and their seasonal cycles and the GEOS CCM simulation with emissionsâ€based forcing. Journal of Geophysical Research, 2008, 113, .	3.3	28
124	Prospect of Increased Disruption to the QBO in a Changing Climate. Geophysical Research Letters, 2021, 48, e2021GL093058.	1.5	28
125	ERâ€2 mountain wave encounter over Antarctica: Evidence for blocking. Geophysical Research Letters, 1990, 17, 81-84.	1.5	26
126	Defining the polar vortex edge from an N2O:potential temperature correlation. Journal of Geophysical Research, 2002, 107, SOL 10-1.	3.3	26

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127	The Transit-Time Distribution from the Northern Hemisphere Midlatitude Surface. Journals of the Atmospheric Sciences, 2016, 73, 3785-3802.	0.6	26
128	Deriving Global OH Abundance and Atmospheric Lifetimes for Longâ€Lived Gases: A Search for CH₃CCl₃ Alternatives. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,914.	1.2	26
129	MLS CLO observations and Arctic polar vortex temperatures. Geophysical Research Letters, 1993, 20, 2861-2864.	1.5	25
130	Meteor 3/total ozone mapping spectrometer observations of the 1993 ozone hole. Journal of Geophysical Research, 1995, 100, 2973.	3.3	25
131	Sensitivity of polar stratospheric ozone loss to uncertainties in chemical reaction kinetics. Atmospheric Chemistry and Physics, 2009, 9, 8651-8660.	1.9	25
132	Assessment of the breakup of the Antarctic polar vortex in two new chemistryâ€climate models. Journal of Geophysical Research, 2010, 115, .	3.3	25
133	Sensitivity of stratospheric inorganic chlorine to differences in transport. Atmospheric Chemistry and Physics, 2007, 7, 4935-4941.	1.9	24
134	Longâ€term changes in stratospheric age spectra in the 21st century in the Goddard Earth Observing System Chemistryâ€Climate Model (GEOSCCM). Journal of Geophysical Research, 2012, 117, .	3.3	24
135	Accuracy of analyzed stratospheric temperatures in the winter Arctic vortex from infrared Montgolfier long-duration balloon flights 2. Results. Journal of Geophysical Research, 2002, 107, SOL 4-1.	3.3	23
136	The Antarctic ozone hole: An update. Physics Today, 2014, 67, 42-48.	0.3	23
137	The 1990 Antarctic Ozone Hole as observed by TOMS. Geophysical Research Letters, 1991, 18, 661-664.	1.5	22
138	Reactive nitrogen, ozone, and nitrate aerosols observed in the Arctic stratosphere in January 1990. Journal of Geophysical Research, 1992, 97, 13025-13038.	3.3	22
139	Correlation of ozone loss with the presence of volcanic aerosols. Geophysical Research Letters, 1994, 21, 2801-2804.	1.5	22
140	Comparison between DC-8 and ER-2 species measurements in the tropical middle troposphere: NO, NOy, O3, CO2, CH4, and N2O. Journal of Geophysical Research, 1998, 103, 22087-22096.	3.3	22
141	An assessment of the ozone loss during the 1999â€"2000 SOLVE/THESEO 2000 Arctic campaign. Journal of Geophysical Research, 2002, 107, SOL 3-1.	3.3	22
142	Inorganic chlorine variability in the Antarctic vortex and implications for ozone recovery. Journal of Geophysical Research D: Atmospheres, 2014, 119, 14,098.	1.2	22
143	The Stratosphere in the Southern Hemisphere. , 1998, , 243-282.		22
144	Smallâ€scale waves encountered during AASE. Geophysical Research Letters, 1990, 17, 349-352.	1.5	21

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145	The Impact of Stratospheric Ozone Changes on Downward Wave Coupling in the Southern Hemisphere*. Journal of Climate, 2011, 24, 4210-4229.	1.2	21
146	HIRDLS observations and simulation of a lower stratospheric intrusion of tropical air to high latitudes. Geophysical Research Letters, 2008, 35, .	1.5	20
147	Stratospheric water vapor feedback and its climate impacts in the coupled atmosphereâ€“ocean Goddard Earth Observing System Chemistry-Climate Model. Climate Dynamics, 2020, 55, 1585-1595.	1.7	20
148	The Impact of Continuing CFCâ€11 Emissions on Stratospheric Ozone. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031849.	1.2	20
149	Spatial heterogeneity in CO₂, CH₄, and energy fluxes: insights from airborne eddy covariance measurements over the Mid-Atlantic region. Environmental Research Letters, 2020, 15, 035008.	2.2	19
150	Three dimensional simulation of hydrogen chloride and hydrogen fluoride during the Airborne Arctic Stratospheric Expedition. Geophysical Research Letters, 1990, 17, 529-532.	1.5	18
151	Development of the Antarctic ozone hole. Journal of Geophysical Research, 1996, 101, 20909-20924.	3.3	18
152	Variations in stratospheric inorganic chlorine between 1991 and 2006. Geophysical Research Letters, 2007, 34, .	1.5	18
153	Airmass Origin in the Arctic. Part I: Seasonality. Journal of Climate, 2015, 28, 4997-5014.	1.2	18
154	Rare forecasted climate event under way in the Southern Hemisphere. Nature, 2019, 573, 495-495.	13.7	18
155	Tracking aerosols and SO₂ clouds from the Raikoke eruption: 3D view from satellite observations. Atmospheric Measurement Techniques, 2021, 14, 7545-7563.	1.2	18
156	Effect of computed horizontal diffusion coefficients on twoâ€dimensional N₂O model distributions. Journal of Geophysical Research, 1988, 93, 5213-5219.	3.3	17
157	Photochemical ozone loss in the Arctic as determined by MSX/UVISI stellar occultation observations during the 1999/2000 winter. Journal of Geophysical Research, 2002, 107, SOL 39-1.	3.3	17
158	Stratospheric temperatures during AASE: Results from Stratan. Geophysical Research Letters, 1990, 17, 337-340.	1.5	16
159	Radiative heating rates during the Airborne Arctic Stratospheric Experiment. Geophysical Research Letters, 1990, 17, 345-348.	1.5	16
160	The 1991 Antarctic Ozone Hole; TOMS observations. Geophysical Research Letters, 1992, 19, 1215-1218.	1.5	16
161	Fine-scale, poleward transport of tropical air during AASE 2. Geophysical Research Letters, 1994, 21, 2603-2606.	1.5	16
162	Chance encounter with a stratospheric kerosene rocket plume from Russia over California. Geophysical Research Letters, 2001, 28, 959-962.	1.5	16

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163	The role of sulfur dioxide in stratospheric aerosol formation evaluated by using in situ measurements in the tropical lower stratosphere. Geophysical Research Letters, 2017, 44, 4280-4286.	1.5	16
164	Effects of Greenhouse Gas Increase and Stratospheric Ozone Depletion on Stratospheric Mean Age of Air in 1960â€“2010. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2098-2110.	1.2	16
165	Spatial and temporal variability of the extent of chemically processed stratospheric air. Geophysical Research Letters, 1991, 18, 29-32.	1.5	15
166	Mixing events revealed by anomalous tracer relationships in the Arctic vortex during winter 1999/2000. Journal of Geophysical Research, 2002, 107, ACL 22-1.	3.3	15
167	MEETING SUMMARIES. Bulletin of the American Meteorological Society, 2003, 84, 1055-1082.	1.7	15
168	Narrowing of the upwelling branch of the Brewerâ€Dobson circulation and Hadley cell in chemistryâ€climate model simulations of the 21st century. Geophysical Research Letters, 2010, 37, .	1.5	15
169	Antarctica and the Southern Ocean. Bulletin of the American Meteorological Society, 2020, 101, S287-S320.	1.7	15
170	UARS MLS O3soundings compared with lidar measurements using the conservative coordinates reconstruction technique. Geophysical Research Letters, 1994, 21, 1535-1538.	1.5	13
171	Fall vortex ozone as a predictor of springtime total ozone at high northern latitudes. Atmospheric Chemistry and Physics, 2005, 5, 1655-1663.	1.9	13
172	Relationships between the Brewerâ€Dobson circulation and the southern annular mode during austral summer in coupled chemistryâ€climate model simulations. Journal of Geophysical Research, 2010, 115, .	3.3	13
173	Seasonal Variation of the Quasiâ€Biennial Oscillation Descent. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033077.	1.2	13
174	Depletion of Arctic ozone in the winter 1990. Geophysical Research Letters, 1991, 18, 791-794.	1.5	12
175	Trajectory modeling of emissions from lower stratospheric aircraft. Journal of Geophysical Research, 1995, 100, 1427-1438.	3.3	12
176	Sensitivity of the atmospheric response to warm pool El NiÃ±o events to modeled SSTs and future climate forcings. Journal of Geophysical Research D: Atmospheres, 2013, 118, 13,371.	1.2	12
177	Antarctica and the Southern Ocean. Bulletin of the American Meteorological Society, 2021, 102, S317-S356.	1.7	12
178	Stratospheric temperatures during the 88â€“89 Northern Hemisphere winter. Geophysical Research Letters, 1990, 17, 329-332.	1.5	11
179	Air-mass Origin in the Arctic. Part II: Response to Increases in Greenhouse Gases. Journal of Climate, 2015, 28, 9105-9120.	1.2	11
180	Chemistry and dynamics of the Antarctic Ozone Hole. Geophysical Monograph Series, 2010, , 157-171.	0.1	11

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181	Total ozone during the 88â€89 Northern Hemisphere winter. Geophysical Research Letters, 1990, 17, 317-320.	1.5	10
182	Longâ€term winter total ozone changes at MacQuarie Island. Geophysical Research Letters, 1992, 19, 1459-1462.	1.5	10
183	Meteor-3/TOMS observations of the 1994 ozone hole. Geophysical Research Letters, 1995, 22, 3227-3229.	1.5	10
184	Intercomparison of total ozone observations at Fairbanks, Alaska, during POLARIS. Journal of Geophysical Research, 1999, 104, 26767-26778.	3.3	10
185	Interannual variability of stratospheric trace gases: The role of extratropical wave driving. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2459-2474.	1.0	10
186	Early action on HFCs mitigates future atmospheric change. Environmental Research Letters, 2016, 11, 114019.	2.2	10
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