R J Salawitch

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#	Paper	IF	Citations
193	Reductions of Antarctic ozone due to synergistic interactions of chlorine and bromine. <i>Nature</i> , 1986 , 321, 759-762	50.4	627
192	The Orbiting Carbon Observatory (OCO) mission. Advances in Space Research, 2004, 34, 700-709	2.4	480
191	Removal of Stratospheric O3 by Radicals: In Situ Measurements of OH, HO2, NO, NO2, ClO, and BrO. <i>Science</i> , 1994 , 266, 398-404	33.3	336
190	Hydrogen radicals, nitrogen radicals, and the production of O3 in the upper troposphere. <i>Science</i> , 1998 , 279, 49-53	33.3	300
189	Emissions estimation from satellite retrievals: A review of current capability. <i>Atmospheric Environment</i> , 2013 , 77, 1011-1042	5.3	270
188	Precision requirements for space-based data. Journal of Geophysical Research, 2007, 112,		269
187	The detection of large HNO3-containing particles in the winter Arctic stratosphere. <i>Science</i> , 2001 , 291, 1026-31	33.3	251
186	In situ measurements constraining the role of sulphate aerosols in mid-latitude ozone depletion. <i>Nature</i> , 1993 , 363, 509-514	50.4	245
185	The ACOS CO₂ retrieval algorithm [Part II: Global X_{CO₂} data characterization. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 687-707	4	239
184	Arctic ozone loss and climate change. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	228
183	A method for evaluating bias in global measurements of CO₂ total columns from space. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12317-12337	6.8	225
182	The sensitivity of polar ozone depletion to proposed geoengineering schemes. <i>Science</i> , 2008 , 320, 120	1- 4 3.3	203
181	Glacial-to-interglacial variations in the carbon isotopic composition of atmospheric CO2. <i>Nature</i> , 1992 , 357, 461-466	50.4	189
180	Observed relationships of ozone air pollution with temperature and emissions. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	188
179	Sensitivity of ozone to bromine in the lower stratosphere. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	188
178	The Atmospheric Trace Molecule Spectroscopy (ATMOS) Experiment: Deployment on the ATLAS space shuttle missions. <i>Geophysical Research Letters</i> , 1996 , 23, 2333-2336	4.9	163
177	Absorption of solar radiation by O2: Implications for O3 and lifetimes of N2O, CFCl3, and CF2Cl2. Journal of Geophysical Research, 1993 , 98, 10543		159

176	Emission Measurements of the Concorde Supersonic Aircraft in the Lower Stratosphere. <i>Science</i> , 1995 , 270, 70-74	33.3	151
175	Quantifying Transport Between the Tropical and Mid-Latitude Lower Stratosphere. <i>Science</i> , 1996 , 272, 1763-8	33.3	148
174	Changing composition of the global stratosphere. <i>Science</i> , 1989 , 243, 763-70	33.3	135
173	Arctic winter 2005: Implications for stratospheric ozone loss and climate change. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	130
172	Distribution of halon-1211 in the upper troposphere and lower stratosphere and the 1994 total bromine budget. <i>Journal of Geophysical Research</i> , 1998 , 103, 1513-1526		122
171	Agricultural Green Revolution as a driver of increasing atmospheric CO2 seasonal amplitude. <i>Nature</i> , 2014 , 515, 394-7	50.4	121
170	A Strategy for Process-Oriented Validation of Coupled Chemistry Limate Models. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1117-1134	6.1	118
169	Chemical loss of ozone in the arctic polar vortex in the winter of 1991-1992. <i>Science</i> , 1993 , 261, 1146-9	33.3	114
168	Antarctic O3: Chemical mechanisms for the spring decrease. <i>Geophysical Research Letters</i> , 1986 , 13, 129	164.1529	9 112
167	Interactions between HCl, NO x and H2O ice in the Antarctic stratosphere: Implications for ozone. <i>Journal of Geophysical Research</i> , 1988 , 93, 2442		106
166	Atmospheric Trace Molecule Spectroscopy (ATMOS) Experiment Version 3 data retrievals. <i>Applied Optics</i> , 2002 , 41, 6968-79	1.7	105
165	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	102
164	Estimates of total organic and inorganic chlorine in the lower stratosphere from in situ and flask measurements during AASE II. <i>Journal of Geophysical Research</i> , 1995 , 100, 3057		94
163	Measured and modeled CO and NO y in DISCOVER-AQ: An evaluation of emissions and chemistry over the eastern US. <i>Atmospheric Environment</i> , 2014 , 96, 78-87	5.3	92
162	Measurements of reactive nitrogen in the stratosphere. <i>Journal of Geophysical Research</i> , 1998 , 103, 357	'1-358	5 87
161	Production of O(ID) from photolysis of O3. <i>Geophysical Research Letters</i> , 1994 , 21, 2227-2230	4.9	87
160	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8409-8438	6.8	81
159	The changing stratosphere. <i>Planetary and Space Science</i> , 1992 , 40, 373-401	2	81

Twilight observations suggest unknown sources of HOx. Geophysical Research Letters, 1999, 26, 1373-1376) 158 76 Denitrification in the Antarctic stratosphere. *Nature*, **1989**, 339, 525-527 157 50.4 75 Chemical depletion of Arctic ozone in winter 1999/2000. Journal of Geophysical Research, 2002, 107, 156 74 SOL 18-1 Observations of OH, HO2, H2O, and O3 in the upper stratosphere: Implications for HOx 155 4.9 71 photochemistry. Geophysical Research Letters, 1998, 25, 3935-3938 The diurnal variation of hydrogen, nitrogen, and chlorine radicals: Implications for the 69 154 4.9 heterogeneous production of HNO2. Geophysical Research Letters, 1994, 21, 2551-2554 Bromine partitioning in the tropical tropopause layer: implications for stratospheric injection. 6.8 68 153 Atmospheric Chemistry and Physics, **2014**, 14, 13391-13410 First measurements of ClOOCl in the stratosphere: The coupling of ClOOCl and ClO in the Arctic 68 152 polar vortex. Journal of Geophysical Research, 2004, 109, n/a-n/a Ozone and NO<sub><i>x</i></sub> chemistry in the eastern US: evaluation of 6.8 151 67 CMAQ/CB05 with satellite (OMI) data. Atmospheric Chemistry and Physics, 2015, 15, 10965-10982 Chemistry of OClO in the Antarctic stratosphere: Implications for bromine. Planetary and Space 64 150 Science, 1988, 36, 213-224 Latitudinal and vertical distribution of bromine monoxide in the lower stratosphere from Scanning Imaging Absorption Spectrometer for Atmospheric Chartography limb scattering measurements. 62 149 Journal of Geophysical Research, 2006, 111, Severe and extensive denitrification in the 1999\(\bar{Q}\)000 Arctic winter stratosphere. Geophysical 148 4.9 62 Research Letters, 2001, 28, 2875-2878 The distribution of hydrogen, nitrogen, and chlorine radicals in the lower stratosphere: Implications for changes in O3 due to emission of NOy from supersonic aircraft. Geophysical Research Letters, 62 147 4.9 1994, 21, 2547-2550 Balloon-borne measurements of stratospheric radicals and their precursors: Implications for the 146 60 4.9 production and loss of ozone. Geophysical Research Letters, 1997, 24, 1107-1110 The 1994 northern midlatitude budget of stratospheric chlorine derived from ATMOS/ATLAS-3 60 145 4.9 observations. Geophysical Research Letters, 1996, 23, 2357-2360 Loss of ozone in the Arctic vortex for the winter of 1989. Geophysical Research Letters, 1990, 17, 561-564L.9 60 144 Attribution of recovery in lower-stratospheric ozone. Journal of Geophysical Research, 2006, 111, 143 59 Carbonaceous aerosol (soot) measured in the lower stratosphere during POLARIS and its role in 142 58 stratospheric photochemistry. Journal of Geophysical Research, 1999, 104, 26753-26766 Stratospheric observations of CH3D and HDO from ATMOS infrared solar spectra: Enrichments of 58 4.9 deuterium in methane and implications for HD. Geophysical Research Letters, 1996, 23, 2381-2384

140	Understanding the kinetics of the ClO dimer cycle. Atmospheric Chemistry and Physics, 2007, 7, 3055-306	9 .8	57	
139	Condensation of HNO3 on falling ice particles: Mechanism for denitrification of the polar stratosphere. <i>Geophysical Research Letters</i> , 1990 , 17, 449-452	4.9	57	
138	Multimodel assessment of the factors driving stratospheric ozone evolution over the 21st century. Journal of Geophysical Research, 2010 , 115,		56	
137	An examination of chemistry and transport processes in the tropical lower stratosphere using observations of long-lived and short-lived compounds obtained during STRAT and POLARIS. <i>Journal of Geophysical Research</i> , 1999 , 104, 26625-26642		56	
136	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1255-1285	6.8	55	
135	Quantifying stratospheric ozone in the upper troposphere with in situ measurements of HCl. <i>Science</i> , 2004 , 304, 261-5	33.3	55	
134	A comparison of observations and model simulations of NOx/NOy in the lower stratosphere. <i>Geophysical Research Letters</i> , 1999 , 26, 1153-1156	4.9	55	
133	Kinetics of the ClO Self-Reaction and 210 nm Absorption Cross Section of the ClO Dimer. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 11226-11239	2.8	54	
132	Temporal decrease in upper atmospheric chlorine. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	52	
131	An empirical model of global climate IPart 1: A critical evaluation of volcanic cooling. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3997-4031	6.8	50	
130	Partitioning of the reactive nitrogen reservoir in the lower stratosphere of the southern hemisphere: Observations and modeling. <i>Journal of Geophysical Research</i> , 1997 , 102, 3935-3949		50	
129	Toward a better quantitative understanding of polar stratospheric ozone loss. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	50	
128	Stratospheric chlorine partitioning: Constraints from shuttle-borne measurements of [HCl], [ClNO3], and [ClO]. <i>Geophysical Research Letters</i> , 1996 , 23, 2361-2364	4.9	49	
127	Trends in emissions and concentrations of air pollutants in the lower troposphere in the Baltimore/Washington airshed from 1997 to 2011. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7859-78	9 4 8	48	
126	Impact of very short-lived halogens on stratospheric ozone abundance and UV radiation in a geo-engineered atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10945-10955	6.8	48	
125	Kinetics of HO2 + HO2 -rH2O2 + O2: Implications for Stratospheric H2O2. <i>Geophysical Research Letters</i> , 2002 , 29, 13-1-13-4	4.9	48	
124	Subsidence, mixing, and denitrification of Arctic polar vortex air measured during POLARIS. <i>Journal of Geophysical Research</i> , 1999 , 104, 26611-26623		48	
123	Tropical entrainment time scales inferred from stratospheric N2O and CH4 observations. Geophysical Research Letters, 1998 , 25, 2781-2784	4.9	47	

122	UARS Microwave Limb Sounder HNO3 observations: Implications for Antarctic polar stratospheric clouds. <i>Journal of Geophysical Research</i> , 1998 , 103, 13285-13313		47
121	Simultaneous measurements of stratospheric HOx, NOx, and Clx: Comparison with a photochemical model. <i>Journal of Geophysical Research</i> , 1996 , 101, 9031-9043		47
120	The atmospheric column abundance of IO: Implications for stratospheric ozone. <i>Journal of Geophysical Research</i> , 1997 , 102, 8887-8898		45
119	Carbon isotopic evidence for biomass burning at the K-T boundary. <i>Geology</i> , 1993 , 21, 487	5	44
118	First stage of Antarctic ozone recovery. Journal of Geophysical Research, 2008, 113,		43
117	ATMOS/ATLAS-3 observations of long-lived tracers and descent in the Antarctic Vortex in November 1994. <i>Geophysical Research Letters</i> , 1996 , 23, 2341-2344	4.9	42
116	Partitioning of NOy species in the summer Arctic stratosphere. <i>Geophysical Research Letters</i> , 1999 , 26, 1157-1160	4.9	41
115	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 106-128	6.1	40
114	On the unexplained stratospheric ozone losses during cold Arctic Januaries. <i>Geophysical Research Letters</i> , 2003 , 30, 8-1-8-4	4.9	40
113	ATMOS measurements of H2O+2CH4 and total reactive nitrogen in the November 1994 Antarctic stratosphere: Dehydration and denitrification in the vortex. <i>Geophysical Research Letters</i> , 1996 , 23, 239	97 ⁴ 2 ² 400	o ⁴⁰
112	Hydrochloric acid and the chlorine budget of the lower stratosphere. <i>Geophysical Research Letters</i> , 1994 , 21, 2575-2578	4.9	40
111	Validation of Aura Microwave Limb Sounder OH and HO2 measurements. <i>Journal of Geophysical Research</i> , 2008 , 113,		39
110	Observations of large reductions in the NO/NOy ratio near the mid-latitude tropopause and the role of heterogeneous chemistry. <i>Geophysical Research Letters</i> , 1996 , 23, 3223-3226	4.9	39
109	OH, HO2, and NO in two biomass burning plumes: Sources of HOx and implications for ozone production. <i>Geophysical Research Letters</i> , 1997 , 24, 3185-3188	4.9	37
108	Polar stratospheric descent of NO y and CO and Arctic denitrification during winter 1992 1 993. Journal of Geophysical Research, 1999 , 104, 1847-1861		37
107	Near IR photolysis of HO2NO2: Implications for HOx. <i>Geophysical Research Letters</i> , 2002 , 29, 9-1-9-4	4.9	36
106	Ground-based observations of Arctic O3 loss during spring and summer 1997. <i>Journal of Geophysical Research</i> , 1999 , 104, 26497-26510		36
105	High ozone concentrations on hot days: The role of electric power demand and NOx emissions. <i>Geophysical Research Letters</i> , 2013 , 40, 5291-5294	4.9	35

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104	Sources, Sinks, and the Distribution of OH in the Lower Stratosphere□ <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1543-1553	2.8	35	
103	Chemistry of the antarctic stratosphere. <i>Planetary and Space Science</i> , 1988 , 36, 73-87	2	35	
102	Chemical loss of ozone during the Arctic winter of 1999/2000: An analysis based on balloon-borne observations. <i>Journal of Geophysical Research</i> , 2002 , 107, SOL 11-1		34	
101	The coupling of ClONO2, ClO, and NO2 in the lower stratosphere from in situ observations using the NASA ER-2 aircraft. <i>Journal of Geophysical Research</i> , 1999 , 104, 26705-26714		34	
100	Trace gas transport in the Arctic Vortex inferred from ATMOS ATLAS-2 observations during April 1993. <i>Geophysical Research Letters</i> , 1996 , 23, 2345-2348	4.9	34	
99	A comparison of measurements from ATMOS and instruments aboard the ER-2 aircraft: Tracers of atmospheric transport. <i>Geophysical Research Letters</i> , 1996 , 23, 2389-2392	4.9	34	
98	Balloon-borne in situ measurements of CLO and ozone: Implications for heterogeneous chemistry and mid-latitude ozone loss. <i>Geophysical Research Letters</i> , 1993 , 20, 1795-1798	4.9	34	
97	Stratospheric NO and NO2 abundances from ATMOS Solar-Occultation Measurements. <i>Geophysical Research Letters</i> , 1996 , 23, 2373-2376	4.9	33	
96	Influence of polar stratospheric clouds on the depletion of Antarctic ozone. <i>Geophysical Research Letters</i> , 1988 , 15, 871-874	4.9	33	
95	CAMx Ozone Source Attribution in the Eastern United States using Guidance from Observations during DISCOVER-AQ Maryland. <i>Geophysical Research Letters</i> , 2016 , 43, 2249-2258	4.9	32	
94	Ozone production and loss rate measurements in the middle stratosphere. <i>Journal of Geophysical Research</i> , 1996 , 101, 28785-28792		32	
93	The response of ClO radical concentrations to variations in NO2 radical concentrations in the lower stratosphere. <i>Geophysical Research Letters</i> , 1994 , 21, 2543-2546	4.9	32	
92	Comparison of modeled and observed values of NO2 and JNO2 during the Photochemistry of Ozone Loss in the Arctic Region in Summer (POLARIS) mission. <i>Journal of Geophysical Research</i> , 1999 , 104, 26687-26703		31	
91	Seasonal variations of water vapor in the lower stratosphere inferred from ATMOS/ATLAS-3 measurements of H2O and CH4. <i>Geophysical Research Letters</i> , 1996 , 23, 2401-2404	4.9	30	
90	Stratospheric Injection of Brominated Very Short-Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 5690-5719	4.4	30	
89	ATMOS/ATLAS-3 measurements of stratospheric chlorine and reactive nitrogen partitioning inside and outside the November 1994 Antarctic Vortex. <i>Geophysical Research Letters</i> , 1996 , 23, 2365-2368	4.9	29	
88	Impact of evolving isoprene mechanisms on simulated formaldehyde: An inter-comparison supported by in situ observations from SENEX. <i>Atmospheric Environment</i> , 2017 , 164, 325-336	5.3	28	
87	Stratospheric and mesospheric HOx: Results from Aura MLS and FIRS-2. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	28	

86	The hydrogen budget of the stratosphere inferred from ATMOS measurements of H2O and CH4. <i>Geophysical Research Letters</i> , 1996 , 23, 2405-2408	4.9	28
85	A pervasive role for biomass burning in tropical high ozone/low water structures. <i>Nature Communications</i> , 2016 , 7, 10267	17.4	27
84	An examination of the inorganic chlorine budget in the lower stratosphere. <i>Journal of Geophysical Research</i> , 2000 , 105, 1957-1971		27
83	A comparison of measurements from ATMOS and instruments aboard the ER-2 aircraft: Halogenated gases. <i>Geophysical Research Letters</i> , 1996 , 23, 2393-2396	4.9	27
82	Ozone depletion following future volcanic eruptions. <i>Geophysical Research Letters</i> , 2017 , 44, 7490-7499	4.9	26
81	Methane Emissions From the Baltimore-Washington Area Based on Airborne Observations: Comparison to Emissions Inventories. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8869-	8 88 2	25
80	Reconstruction of three-dimensional ozone fields using POAM III during SOLVE. <i>Journal of Geophysical Research</i> , 2002 , 107, SOL 42-1		25
79	The budget and partitioning of stratospheric chlorine during the 1997 Arctic summer. <i>Journal of Geophysical Research</i> , 1999 , 104, 26653-26665		25
78	Increase of stratospheric carbon tetrafluoride (CF4) based on ATMOS observations from space. <i>Geophysical Research Letters</i> , 1996 , 23, 2353-2356	4.9	25
77	Nighttime OClO in the winter Arctic vortex. <i>Journal of Geophysical Research</i> , 2005 , 110,		23
76	Trends of OCS, HCN, SF6, CHClF2 (HCFC-22) in the lower stratosphere from 1985 and 1994 Atmospheric Trace Molecule Spectroscopy Experiment measurements near 30LN latitude. <i>Geophysical Research Letters</i> , 1996 , 23, 2349-2352	4.9	23
75	Stratospheric ozone: Impact of human activity. <i>Planetary and Space Science</i> , 1989 , 37, 1653-1672	2	23
74	BrO and inferred Br_{<i>y</i>} profiles over the western Pacific: relevance of inorganic bromine sources and a Br_{<i>y</i>} minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 15245-152	6.8 2 70	22
73	Characterization of soluble bromide measurements and a case study of BrO observations during ARCTAS. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1327-1338	6.8	22
72	Validation of Aura MLS HOx measurements with remote-sensing balloon instruments. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	22
71	The NOxHNO3 System in the Lower Stratosphere: Insights from In Situ Measurements and Implications of the JHNO3[OH] Relationship. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1521-1534	2.8	22
70	Formaldehyde in the Tropical Western Pacific: Chemical sources and sinks, convective transport, and representation in CAM-Chem and the CCMI models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11201-11226	4.4	21
69	The changing ozone depletion potential of N2O in a future climate. <i>Geophysical Research Letters</i> , 2015 , 42, 10,047-10,055	4.9	21

68	Chemical ozone loss in the Arctic winter 1991 1992. Atmospheric Chemistry and Physics, 2008, 8, 1897-1	910 8	21
67	Evaluating commercial marine emissions and their role in air quality policy using observations and the CMAQ model. <i>Atmospheric Environment</i> , 2018 , 173, 96-107	5.3	21
66	Evolution and stoichiometry of heterogeneous processing in the Antarctic stratosphere. <i>Journal of Geophysical Research</i> , 1997 , 102, 13235-13253		20
65	Quantitative constraints on the atmospheric chemistry of nitrogen oxides: An analysis along chemical coordinates. <i>Journal of Geophysical Research</i> , 2000 , 105, 24283-24304		19
64	In situ measurements of the NO2/NO ratio for testing atmospheric photochemical models. <i>Geophysical Research Letters</i> , 1994 , 21, 2555-2558	4.9	19
63	Quantifying the causes of differences in tropospheric OH within global models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1983-2007	4.4	18
62	Denitrification in the Arctic mid-winter 2004/2005 observed by airborne submillimeter radiometry. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	18
61	Balloon-borne measurements of CLO, NO, and O3 in a volcanic cloud: An analysis of heterogeneous chemistry between 20 and 30 km. <i>Geophysical Research Letters</i> , 1993 , 20, 2527-2530	4.9	18
60	Methane Emissions from the Marcellus Shale in Southwestern Pennsylvania and Northern West Virginia Based on Airborne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 1862-1878	4.4	18
59	Bimodal distribution of free tropospheric ozone over the tropical western Pacific revealed by airborne observations. <i>Geophysical Research Letters</i> , 2015 , 42, 7844-7851	4.9	17
58	Observed and modeled HOCl profiles in the midlatitude stratosphere: Implication for ozone loss. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	17
57	Change in ozone trends at southern high latitudes. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	17
56	Evolution of inorganic chlorine partitioning in the Arctic polar vortex. <i>Journal of Geophysical Research</i> , 2006 , 111,		17
55	Laminae in the tropical middle stratosphere: Origin and age estimation. <i>Geophysical Research Letters</i> , 1998 , 25, 4337-4340	4.9	17
54	Nitric acid in the middle stratosphere as a function of altitude and aerosol loading. <i>Journal of Geophysical Research</i> , 1999 , 104, 26715-26723		17
53	An observationally constrained evaluation of the oxidative capacity in the tropical western Pacific troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7461-7488	4.4	17
52	Link Between Arctic Tropospheric BrO Explosion Observed From Space and Sea-Salt Aerosols From Blowing Snow Investigated Using Ozone Monitoring Instrument BrO Data and GEOS-5 Data Assimilation System. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 6954-6983	4.4	17
51	Changes in Global Tropospheric OH Expected as a Result of Climate Change Over the Last Several Decades. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10,774	4.4	17

50	The role of HOx in super- and subsonic aircraft exhaust plumes. <i>Geophysical Research Letters</i> , 1997 , 24, 65-68	4.9	16
49	Ozone destruction and production rates between spring and autumn in the Arctic stratosphere. <i>Geophysical Research Letters</i> , 2000 , 27, 2605-2608	4.9	16
48	The Effect of Representing Bromine from VSLS on the Simulation and Evolution of Antarctic Ozone. <i>Geophysical Research Letters</i> , 2016 , 43, 9869-9876	4.9	15
47	Airborne measurements of BrO and the sum of HOBr and Br2 over the Tropical West Pacific from 1 to 15 km during the CONvective TRansport of Active Species in the Tropics (CONTRAST) experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,560-12,578	4.4	15
46	EOS Microwave Limb Sounder observations of upper stratospheric BrO: Implications for total bromine. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	15
45	Polar Stratospheric Clouds: Satellite Observations, Processes, and Role in Ozone Depletion. <i>Reviews of Geophysics</i> , 2021 , 59, e2020RG000702	23.1	15
44	Validation of Aura Microwave Limb Sounder BrO observations in the stratosphere. <i>Journal of Geophysical Research</i> , 2007 , 112,		14
43	Climate change favours large seasonal loss of Arctic ozone. <i>Nature Communications</i> , 2021 , 12, 3886	17.4	14
42	Effect of Pinatubo aerosols on stratospheric NO. Journal of Geophysical Research, 1997, 102, 1205-1213		12
41	Measurements of chlorine partitioning in the winter Arctic stratosphere. <i>Geophysical Research Letters</i> , 1999 , 26, 3093-3096	4.9	12
40	Paris Climate Agreement: Beacon of Hope. Springer Climate, 2017,	0.3	10
39	Methane emissions from the Marcellus Shale in southwestern Pennsylvania and northern West Virginia based on airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 4639-4653	4.4	9
38	Retrievals of chlorine chemistry kinetic parameters from Antarctic ClO microwave radiometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 5183-5193	6.8	9
37	Effects of atmospheric transport on column abundances of nitrogen and chlorine compounds in the Arctic stratosphere. <i>Geophysical Research Letters</i> , 1990 , 17, 533-536	4.9	9
36	Using near-road observations of CO, NOy, and CO2 to investigate emissions from vehicles: Evidence for an impact of ambient temperature and specific humidity. <i>Atmospheric Environment</i> , 2020 , 232, 1175	5 8 ³	8
35	Evidence for an increase in the ozone photochemical lifetime in the eastern United States using a regional air quality model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 12778-12793	4.4	8
34	New retrieval of BrO from SCIAMACHY limb: an estimate of the stratospheric bromine loading during April 2008. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 2549-2561	4	8
33	Diurnal variation of midlatitudinal NO₃ column abundance over table mountain facility, California. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 963-978	6.8	8

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32	Validation of Aura Microwave Limb Sounder OH measurements with Fourier Transform Ultra-Violet Spectrometer total OH column measurements at Table Mountain, California. <i>Journal of Geophysical Research</i> , 2008 , 113,		8
31	Stratospheric CO at tropical and mid-latitudes: ATMOS measurements and photochemical steady-state model calculations. <i>Geophysical Research Letters</i> , 2000 , 27, 1395-1398	4.9	8
30	NOy partitioning from measurements of nitrogen and hydrogen radicals in the upper troposphere. <i>Geophysical Research Letters</i> , 1999 , 26, 51-54	4.9	8
29	Reduced Complexity Model Intercomparison Project Phase 2: Synthesizing Earth System Knowledge for Probabilistic Climate Projections. <i>Earthus Future</i> , 2021 , 9, e2020EF001900	7.9	8
28	The kinetics of the ClOOCl catalytic cycle. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13,768-13,783	4.4	8
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9	New retrieval of BrO from SCIAMACHY limb: an estimate of the stratospheric bromine loading during April 2008 2012 ,		1
8	Analysis of satellite-derived Arctic tropospheric BrO columns in conjunction with aircraft measurements during ARCTAS and ARCPAC		1
7	Chemical ozone loss in the Arctic winter 1991¶992		1
6	Surface fluxes of bromoform and dibromomethane over the tropical western Pacific inferred from		
	airborne in situ measurements. Atmospheric Chemistry and Physics, 2018 , 18, 14787-14798	6.8	1
5	Airborne Observations of CFCs Over Hebei Province, China in Spring 2016. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035152	6.8 4.4	1
5	Airborne Observations of CFCs Over Hebei Province, China in Spring 2016. <i>Journal of Geophysical</i>		
	Airborne Observations of CFCs Over Hebei Province, China in Spring 2016. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035152	4.4	1
4	Airborne Observations of CFCs Over Hebei Province, China in Spring 2016. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035152 Earth® Climate System. <i>Springer Climate</i> , 2017 , 1-50 Intercomparison Between Surrogate, Explicit, and Full Treatments of VSL Bromine Chemistry	4.4	0