

Doug E Kinnison

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4032350/doug-e-kinnison-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

217
papers

12,783
citations

55
h-index

108
g-index

229
ext. papers

14,916
ext. citations

6.5
avg, IF

6.12
L-index

#	Paper	IF	Citations
217	Description and evaluation of the Model for Ozone and Related chemical Tracers, version 4 (MOZART-4). <i>Geoscientific Model Development</i> , 2010 , 3, 43-67	6.3	1258
216	Climate Change from 1850 to 2005 Simulated in CESM1(WACCM). <i>Journal of Climate</i> , 2013 , 26, 7372-7394	4.4	561
215	Simulation of secular trends in the middle atmosphere, 1950-2003. <i>Journal of Geophysical Research</i> , 2007 , 112,		547
214	CAM-chem: description and evaluation of interactive atmospheric chemistry in the Community Earth System Model. <i>Geoscientific Model Development</i> , 2012 , 5, 369-411	6.3	519
213	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001916	7.1	358
212	Sensitivity of chemical tracers to meteorological parameters in the MOZART-3 chemical transport model. <i>Journal of Geophysical Research</i> , 2007 , 112,		338
211	Emergence of healing in the Antarctic ozone layer. <i>Science</i> , 2016 , 353, 269-74	33.3	337
210	Asian monsoon transport of pollution to the stratosphere. <i>Science</i> , 2010 , 328, 611-3	33.3	331
209	Multimodel projections of stratospheric ozone in the 21st century. <i>Journal of Geophysical Research</i> , 2007 , 112,		266
208	The impact of stratospheric ozone recovery on the Southern Hemisphere westerly jet. <i>Science</i> , 2008 , 320, 1486-9	33.3	260
207	Chemistry-Climate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. <i>Journal of Climate</i> , 2010 , 23, 5349-5374	4.4	242
206	Effect of El Niño/Southern Oscillation on the dynamical, thermal, and chemical structure of the middle atmosphere. <i>Journal of Geophysical Research</i> , 2004 , 109,		226
205	Review of the global models used within phase 1 of the Chemistry-Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , 2017 , 10, 639-671	6.3	211
204	The HAMMONIA Chemistry Climate Model: Sensitivity of the Mesopause Region to the 11-Year Solar Cycle and CO2 Doubling. <i>Journal of Climate</i> , 2006 , 19, 3903-3931	4.4	211
203	Modeling the whole atmosphere response to solar cycle changes in radiative and geomagnetic forcing. <i>Journal of Geophysical Research</i> , 2007 , 112,		209
202	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5029-5060	4.4	200
201	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9451-9472	6.8	179

200	Impact of monsoon circulations on the upper troposphere and lower stratosphere. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		169
199	Multimodel assessment of the upper troposphere and lower stratosphere: Tropics and global trends. <i>Journal of Geophysical Research</i> , 2010 , 115,		150
198	Bromine and iodine chemistry in a global chemistry-climate model: description and evaluation of very short-lived oceanic sources. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1423-1447	6.8	150
197	Seasonal variation of methane, water vapor, and nitrogen oxides near the tropopause: Satellite observations and model simulations. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		139
196	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3939-3949	6.8	138
195	Global volcanic aerosol properties derived from emissions, 1990-2014, using CESM1(WACCM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 2332-2348	4.4	135
194	Modification of the Gravity Wave Parameterization in the Whole Atmosphere Community Climate Model: Motivation and Results. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 275-291	2.1	134
193	Review of the formulation of present-generation stratospheric chemistry-climate models and associated external forcings. <i>Journal of Geophysical Research</i> , 2010 , 115,		134
192	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12380-12403	4.4	126
191	Impact of geoengineered aerosols on the troposphere and stratosphere. <i>Journal of Geophysical Research</i> , 2009 , 114,		125
190	Description and evaluation of tropospheric chemistry and aerosols in the Community Earth System Model (CESM1.2). <i>Geoscientific Model Development</i> , 2015 , 8, 1395-1426	6.3	119
189	Iodine chemistry in the troposphere and its effect on ozone. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13119-13143	6.8	117
188	Thermosphere extension of the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		113
187	Simulation of polar ozone depletion: An update. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 7958-7974	4.4	110
186	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	102
185	IMPACT, the LLNL 3-D global atmospheric chemical transport model for the combined troposphere and stratosphere: Model description and analysis of ozone and other trace gases. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		96
184	Chemical and dynamical discontinuity at the extratropical tropopause based on START08 and WACCM analyses. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		94
183	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , 2016 , 9, 1853-1890	6.3	94

182	Massive global ozone loss predicted following regional nuclear conflict. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 5307-12	11.5	92
181	Radiative and Chemical Response to Interactive Stratospheric Sulfate Aerosols in Fully Coupled CESM1(WACCM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 13,061	4.4	86
180	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8409-8438	6.8	81
179	Role of the QBO in modulating the influence of the 11 year solar cycle on the atmosphere using constant forcings. <i>Journal of Geophysical Research</i> , 2010 , 115,		81
178	Impact of Pinatubo aerosols on the partitioning between NO ₂ and HNO ₃ . <i>Geophysical Research Letters</i> , 1994 , 21, 597-600	4.9	80
177	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001882	7.1	78
176	Transport of chemical tracers from the boundary layer to stratosphere associated with the dynamics of the Asian summer monsoon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 14,159	4.4	78
175	On the distribution of CO ₂ and CO in the mesosphere and lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5700-5718	4.4	74
174	On the Determination of Age of Air Trends from Atmospheric Trace Species. <i>Journals of the Atmospheric Sciences</i> , 2011 , 68, 139-154	2.1	70
173	Bromine partitioning in the tropical tropopause layer: implications for stratospheric injection. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 13391-13410	6.8	68
172	Nitrogen oxides from high-altitude aircraft: An update of potential effects on ozone. <i>Journal of Geophysical Research</i> , 1989 , 94, 16351		68
171	Photoreduction of gaseous oxidized mercury changes global atmospheric mercury speciation, transport and deposition. <i>Nature Communications</i> , 2018 , 9, 4796	17.4	66
170	The Tropical Tropopause Layer 1960-2100. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1621-1637	6.8	65
169	Iodine oxide in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 583-593	6.8	62
168	Global airborne sampling reveals a previously unobserved dimethyl sulfide oxidation mechanism in the marine atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 4505-4510	11.5	61
167	Rapid increase in atmospheric iodine levels in the North Atlantic since the mid-20th century. <i>Nature Communications</i> , 2018 , 9, 1452	17.4	58
166	Diurnal ozone variations in the stratosphere revealed in observations from the Superconducting Submillimeter-Wave Limb-Emission Sounder (SMILES) on board the International Space Station (ISS). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2991-3006	4.4	56
165	Multimodel assessment of the upper troposphere and lower stratosphere: Extratropics. <i>Journal of Geophysical Research</i> , 2010 , 115,		56

164	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
163	Simulated lower stratospheric trends between 1970 and 2005: Identifying the role of climate and composition changes. <i>Journal of Geophysical Research</i> , 2008 , 113,		55
162	Historical Tropospheric and Stratospheric Ozone Radiative Forcing Using the CMIP6 Database. <i>Geophysical Research Letters</i> , 2018 , 45, 3264-3273	4.9	51
161	Climate Forcing and Trends of Organic Aerosols in the Community Earth System Model (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 4323-4351	7.1	50
160	Evaluation of Whole Atmosphere Community Climate Model simulations of ozone during Arctic winter 2004-2005. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 2673-2688	4.4	48
159	Sensitivity of 21st century stratospheric ozone to greenhouse gas scenarios. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	48
158	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
157	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
156	A negative feedback between anthropogenic ozone pollution and enhanced ocean emissions of iodine. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2215-2224	6.8	47
155	A set of diagnostics for evaluating chemistry-climate models in the extratropical tropopause region. <i>Journal of Geophysical Research</i> , 2007 , 112,		46
154	Simulation of energetic particle precipitation effects during the 2003-2004 Arctic winter. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5035-5048	2.6	45
153	Observations of gravity wave forcing of the mesopause region during the January 2013 major Sudden Stratospheric Warming. <i>Geophysical Research Letters</i> , 2014 , 41, 4745-4752	4.9	44
152	Sensitivity of Sudden Stratospheric Warmings to Previous Stratospheric Conditions. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 2857-2877	2.1	44
151	Aviation fuel tracer simulation: Model intercomparison and implications. <i>Geophysical Research Letters</i> , 1998 , 25, 3947-3950	4.9	44
150	Significant Weakening of Brewer-Dobson Circulation Trends Over the 21st Century as a Consequence of the Montreal Protocol. <i>Geophysical Research Letters</i> , 2018 , 45, 401-409	4.9	42
149	Airborne measurements of organic bromine compounds in the Pacific tropical tropopause layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13789-93	11.5	41
148	Injection of iodine to the stratosphere. <i>Geophysical Research Letters</i> , 2015 , 42, 6852-6859	4.9	41
147	Simulation of polar stratospheric clouds in the specified dynamics version of the whole atmosphere community climate model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4991-5002	4.4	41

146	Stratospheric influences on the tropospheric seasonal cycles of nitrous oxide and chlorofluorocarbons. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	41
145	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
144	Multimodel estimates of atmospheric lifetimes of long-lived ozone-depleting substances: Present and future. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 2555-2573	4.4	40
143	The influence of the Calbuco eruption on the 2015 Antarctic ozone hole in a fully coupled chemistry-climate model. <i>Geophysical Research Letters</i> , 2017 , 44, 2556-2561	4.9	39
142	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. <i>Nature Communications</i> , 2018 , 9, 206	17.4	39
141	Classification of stratospheric extreme events according to their downward propagation to the troposphere. <i>Geophysical Research Letters</i> , 2016 , 43, 6665-6672	4.9	39
140	Ozone sensitivity to varying greenhouse gases and ozone-depleting substances in CCM1-1 simulations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1091-1114	6.8	37
139	Effects of Different Stratospheric SO ₂ Injection Altitudes on Stratospheric Chemistry and Dynamics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4654-4673	4.4	37
138	Troposphere-Stratosphere Temperature Trends Derived From Satellite Data Compared With Ensemble Simulations From WACCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9651-9667	4.4	36
137	Quantitative detection of iodine in the stratosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1860-1866	11.5	35
136	Validation of ozone data from the Superconducting Submillimeter-Wave Limb-Emission Sounder (SMILES). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5750-5769	4.4	35
135	Nighttime secondary ozone layer during major stratospheric sudden warmings in specified-dynamics WACCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8346-8358	4.4	34
134	Forecasts and assimilation experiments of the Antarctic ozone hole 2008. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 1961-1977	6.8	33
133	The Effect of Solar Flux Variations and Trace Gas Emissions on Recent Trends in Stratospheric Ozone and Temperature. <i>Journal of Geomagnetism and Geoelectricity</i> , 1991 , 43, 709-718		33
132	The chemistry-climate model ECHAM6.3-HAM2.3-MOZ1.0. <i>Geoscientific Model Development</i> , 2018 , 11, 1695-1723	6.3	33
131	Evaluation of CESM1 (WACCM) free-running and specified dynamics atmospheric composition simulations using global multispecies satellite data records. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4783-4821	6.8	32
130	Clear sky UV simulations for the 21st century based on ozone and temperature projections from Chemistry-Climate Models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1165-1172	6.8	32
129	Quantifying tracer transport in the tropical lower stratosphere using WACCM. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10591-10607	6.8	31

128	Longest continuous ground-based measurements of mesospheric CO. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	30
127	Inter-model comparison of global hydroxyl radical (OH) distributions and their impact on atmospheric methane over the 2000-2016 period. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 13701-13723	6.8	30
126	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
125	Mercury oxidation from bromine chemistry in the free troposphere over the southeastern US. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3743-3760	6.8	28
124	Atmospheric tracers during the 2003-2004 stratospheric warming event and impact of ozone intrusions in the troposphere. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2157-2170	6.8	28
123	Gas-Phase Photolysis of Hg(I) Radical Species: A New Atmospheric Mercury Reduction Process. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8698-8702	16.4	27
122	A pervasive role for biomass burning in tropical high ozone/low water structures. <i>Nature Communications</i> , 2016 , 7, 10267	17.4	27
121	Revisiting the mystery of recent stratospheric temperature trends. <i>Geophysical Research Letters</i> , 2018 , 45, 9919-9933	4.9	27
120	Hydrocarbons in the upper troposphere and lower stratosphere observed from ACE-FTS and comparisons with WACCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1964-1980	4.4	27
119	On the Identification of Ozone Recovery. <i>Geophysical Research Letters</i> , 2018 , 45, 5158-5165	4.9	27
118	Mirrored changes in Antarctic ozone and stratospheric temperature in the late 20th versus early 21st centuries. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8940-8950	4.4	26
117	Impact of biogenic very short-lived bromine on the Antarctic ozone hole during the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1673-1688	6.8	26
116	Tropospheric transport differences between models using the same large-scale meteorological fields. <i>Geophysical Research Letters</i> , 2017 , 44, 1068-1078	4.9	25
115	The global impact of supersaturation in a coupled chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1629-1643	6.8	25
114	Large-scale tropospheric transport in the Chemistry-Climate Model Initiative (CCMI) simulations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7217-7235	6.8	25
113	The Global Modeling Initiative assessment model: Application to high-speed civil transport perturbation. <i>Journal of Geophysical Research</i> , 2001 , 106, 1693-1711		24
112	Quantifying the effect of mixing on the mean age of air in CCMVal-2 and CCMI-1 models. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6699-6720	6.8	23
111	Simulations of the response of mesospheric circulation and temperature to the Antarctic ozone hole. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	23

110	Photodissociation Mechanisms of Major Mercury(II) Species in the Atmospheric Chemical Cycle of Mercury. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7605-7610	16.4	23
109	Nighttime atmospheric chemistry of iodine. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 15593-15604	6.8	22
108	Observing the Impact of Calbuco Volcanic Aerosols on South Polar Ozone Depletion in 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11,862	4.4	22
107	BrO and inferred Br₂ profiles over the western Pacific: relevance of inorganic bromine sources and a Br₂ minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 15245-15270	6.8	22
106	Using the Artificial Tracer e90 to Examine Present and Future UTLS Tracer Transport in WACCM. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 3383-3403	2.1	21
105	Formaldehyde in the Tropical Western Pacific: Chemical sources and sinks, convective transport, and representation in CAM-Chem and the CCM1 models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11201-11226	4.4	21
104	Ensemble simulations of the role of the stratosphere in the attribution of northern extratropical tropospheric ozone variability. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2341-2365	6.8	21
103	Atmospheric changes caused by galactic cosmic rays over the period 1960-2010. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5853-5866	6.8	20
102	Deriving Global OH Abundance and Atmospheric Lifetimes for Long-Lived Gases: A Search for CH ₃ CCl ₃ Alternatives. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11,914	4.4	20
101	The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9473-9486	6.8	20
100	Natural halogens buffer tropospheric ozone in a changing climate. <i>Nature Climate Change</i> , 2020 , 10, 1472-154	15.4	19
99	On the secular trend of CO _x and CO ₂ in the lower thermosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 3634-3644	4.4	19
98	Trajectory model simulations of ozone (O₃) and carbon monoxide (CO) in the lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7135-7147	6.8	19
97	World avoided simulations with the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		19
96	Stratospheric Aerosols, Polar Stratospheric Clouds, and Polar Ozone Depletion After the Mount Calbuco Eruption in 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,308	4.4	19
95	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
94	New Insights on the Impact of Ozone-Depleting Substances on the Brewer-Dobson Circulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 2435-2451	4.4	18
93	The strength of the meridional overturning circulation of the stratosphere. <i>Nature Geoscience</i> , 2017 , 10, 663-667	18.3	18

92	Tropospheric ozone decrease due to the Mount Pinatubo eruption: Reduced stratospheric influx. <i>Geophysical Research Letters</i> , 2013 , 40, 5553-5558	4.9	18
91	Variations in the free chlorine content of the stratosphere (1991-1997): Anthropogenic, volcanic, and methane influences. <i>Journal of Geophysical Research</i> , 2000 , 105, 4471-4481		18
90	The influence of mixing on stratospheric age of air changes in the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 921-940	6.8	17
89	Modeling the Sources and Chemistry of Polar Tropospheric Halogens (Cl, Br, and I) Using the CAM-Chem Global Chemistry-Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2259-2289	7.1	17
88	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
87	CO at 4080 km above Kiruna observed by the ground-based microwave radiometer KIMRA and simulated by the Whole Atmosphere Community Climate Model. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3261-3271	6.8	17
86	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
85	Monsoon circulations and tropical heterogeneous chlorine chemistry in the stratosphere. <i>Geophysical Research Letters</i> , 2016 , 43, 12,624	4.9	17
84	Tropospheric ozone in CCM1 models and Gaussian process emulation to understand biases in the SOCOLv3 chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16155-16172	6.8	17
83	On the discrepancy of HCl processing in the core of the wintertime polar vortices. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8647-8666	6.8	17
82	Observed Changes in the Southern Hemispheric Circulation in May. <i>Journal of Climate</i> , 2017 , 30, 527-536	4.4	16
81	Large impacts, past and future, of ozone-depleting substances on Brewer-Dobson circulation trends: A multi-model assessment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 6669-6680	4.4	16
80	Reconciling modeled and observed temperature trends over Antarctica. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	15
79	The effect of atmospheric nudging on the stratospheric residual circulation in chemistry-climate models. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11559-11586	6.8	15
78	Assessing the ability to derive rates of polar middle-atmospheric descent using trace gas measurements from remote sensors. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1457-1474	6.8	14
77	Key drivers of ozone change and its radiative forcing over the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6121-6139	6.8	14
76	Stratospheric and mesospheric HO ₂ observations from the Aura Microwave Limb Sounder. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 2889-2902	6.8	14
75	Sunset-sunrise difference in solar occultation ozone measurements (SAGE II, HALOE, and ACEBTS) and its relationship to tidal vertical winds. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 829-843	6.8	14

74	Commentary on using equivalent latitude in the upper troposphere and lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 9187-9199	6.8	14
73	Development of a Polar Stratospheric Cloud Model within the Community Earth System Model using constraints on Type I PSCs from the 2010-2011 Arctic winter. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 551-585	7.1	13
72	Comparing simulated PSC optical properties with CALIPSO observations during the 2010 Antarctic winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 1175-1202	4.4	12
71	Upward transport into and within the Asian monsoon anticyclone as inferred from StratoClim trace gas observations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1267-1285	6.8	12
70	Revisiting Southern Hemisphere polar stratospheric temperature trends in WACCM: The role of dynamical forcing. <i>Geophysical Research Letters</i> , 2017 , 44, 3402-3410	4.9	11
69	Prediction of Northern Hemisphere Regional Surface Temperatures Using Stratospheric Ozone Information. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 5922-5933	4.4	11
68	A machine learning examination of hydroxyl radical differences among model simulations for CCM1-1. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1341-1361	6.8	11
67	Ocean Biogeochemistry Control on the Marine Emissions of Brominated Very Short-Lived Ozone-Depleting Substances: A Machine-Learning Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12319-12339	4.4	11
66	Clear-sky ultraviolet radiation modelling using output from the Chemistry Climate Model Initiative. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10087-10110	6.8	11
65	Variability of Stratospheric Reactive Nitrogen and Ozone Related to the QBO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,103-10,118	4.4	11
64	New Aura Microwave Limb Sounder observations of BrO and implications for Br_y. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 1741-1751	4	11
63	Rate parameter uncertainty effects in assessing stratospheric ozone depletion by supersonic aviation. <i>Geophysical Research Letters</i> , 1997 , 24, 2737-2740	4.9	11
62	The Upper Stratospheric Solar Cycle Ozone Response. <i>Geophysical Research Letters</i> , 2019 , 46, 1831-1841	4.9	10
61	The Impact of Boreal Summer ENSO Events on Tropical Lower Stratospheric Ozone. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9843-9857	4.4	10
60	Development of a Polar Stratospheric Cloud Model Within the Community Earth System Model: Assessment of 2010 Antarctic Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 10,418	4.4	9
59	Description and Evaluation of the specified-dynamics experiment in the Chemistry-Climate Model Initiative. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3809-3840	6.8	9
58	Influence of Arctic stratospheric ozone on surface climate in CCM1 models. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9253-9268	6.8	9
57	Evaluating the Relationship between Interannual Variations in the Antarctic Ozone Hole and Southern Hemisphere Surface Climate in Chemistry Climate Models. <i>Journal of Climate</i> , 2019 , 32, 3131-3151	4.4	9

56	Assessment of the interannual variability and influence of the QBO and upwelling on tracer distributions of N ₂ O and O ₃ in the tropical lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3619-3641	6.8	9
55	Projecting ozone hole recovery using an ensemble of chemistry-climate models weighted by model performance and independence. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9961-9977	6.8	9
54	Reappraisal of the Climate Impacts of Ozone-Depleting Substances. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088295	4.9	9
53	The Simulation of Stratospheric Water Vapor over the Asian Summer Monsoon Region in CESM1(WACCM) Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 11377-11391	4.4	9
52	Detectability of the impacts of ozone-depleting substances and greenhouse gases upon stratospheric ozone accounting for nonlinearities in historical forcings. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 143-166	6.8	8
51	Investigation of the transport processes controlling the geographic distribution of carbon monoxide at the tropical tropopause. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2067-2086	4.4	8
50	Large-scale transport into the Arctic: the roles of the midlatitude jet and the Hadley Cell. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 5511-5528	6.8	7
49	On the Role of Heterogeneous Chemistry in Ozone Depletion and Recovery. <i>Geophysical Research Letters</i> , 2018 , 45, 7835-7842	4.9	7
48	Assessing Effects of Rate Parameter Changes on Ozone Models Using Sensitivity Analysis. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 1449-1455	2.8	7
47	Trend differences in lower stratospheric water vapour between Boulder and the zonal mean and their role in understanding fundamental observational discrepancies. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8331-8351	6.8	7
46	On the stratospheric chemistry of midlatitude wildfire smoke.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117325119	11.5	7
45	Evaluating Simulations of Interhemispheric Transport: Interhemispheric Exchange Time Versus SF6 Age. <i>Geophysical Research Letters</i> , 2019 , 46, 1113-1120	4.9	6
44	Modeling the inorganic bromine partitioning in the tropical tropopause layer over the eastern and western Pacific Ocean. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 9917-9930	6.8	6
43	Climatological impact of the Brewer-Dobson circulation on the N ₂ O budget in WACCM, a chemical reanalysis and a CTM driven by four dynamical reanalyses. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12609-12631	6.8	6
42	The Impact on the Ozone Layer of a Potential Fleet of Civil Hypersonic Aircraft. <i>Earth's Future</i> , 2020 , 8, e2020EF001626	7.9	5
41	The role of midlatitude mixing barriers in creating the annual variation of total ozone in high northern latitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9578-9595	4.4	5
40	An Arctic ozone hole in 2020 if not for the Montreal Protocol. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 15771-15781	6.8	5
39	On the role of trend and variability in the hydroxyl radical (OH) in the global methane budget. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13011-13022	6.8	5

38	Future trends in stratosphere-to-troposphere transport in CCMI models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6883-6901	6.8	4
37	Revising the Ozone Depletion Potentials Metric for Short-Lived Chemicals Such as CF3I and CH3I. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032414	4.4	4
36	Potential Impacts of Supersonic Aircraft Emissions on Ozone and Resulting Forcing on Climate: An Update on Historical Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034130	4.4	4
35	Design and description of the MUSICA IASI full retrieval product		4
34	Review of the global models used within the Chemistry-Climate Model Initiative (CCMI) 2016 ,		4
33	Modeled and Observed Volcanic Aerosol Control on Stratospheric NO _y and Cly. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 10283-10303	4.4	4
32	A Lagrangian Model Diagnosis of Stratospheric Contributions to Tropical Midtropospheric Air. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9764-9785	4.4	4
31	The global diabatic circulation of the stratosphere as a metric for the Brewer-Dobson circulation. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 5069-5090	6.8	3
30	Zonally uniform tidal oscillations in the tropical stratosphere. <i>Geophysical Research Letters</i> , 2015 , 42, 9553-9560	4.9	3
29	Predictions of future ozone changes. <i>International Journal of Environmental Studies</i> , 1996 , 51, 269-283	1.8	3
28	On Recent Large Antarctic Ozone Holes and Ozone Recovery Metrics. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095232	4.9	3
27	Tropical Stratospheric Circulation and Ozone Coupled to Pacific Multi-Decadal Variability. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092162	4.9	3
26	Novel approaches to improve estimates of short-lived halocarbon emissions during summer from the Southern Ocean using airborne observations. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14071-14090	6.8	3
25	Model estimations of geophysical variability between satellite measurements of ozone profiles. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 1425-1438	4	3
24	Ozone sensitivity to varying greenhouse gases and ozone-depleting substances in CCMI simulations 2017 ,		2
23	Evaluating Stratospheric Tropical Width Using Tracer Concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033081	4.4	2
22	Prediction of Northern Hemisphere Regional Sea Ice Extent and Snow Depth Using Stratospheric Ozone Information. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031770	4.4	2
21	The response of mesospheric H ₂ O and CO to solar irradiance variability in models and observations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 201-216	6.8	2

20	Stratospheric Ozone and Climate Forcing Sensitivity to Cruise Altitudes for Fleets of Potential Supersonic Transport Aircraft. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034971	4.4	2
19	Sensitivity of Total Column Ozone to Stratospheric Sulfur Injection Strategies. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094058	4.9	2
18	Design and description of the MUSICA IASI full retrieval product. <i>Earth System Science Data</i> , 2022 , 14, 709-742	10.5	2
17	Effects of injected ice particles in the lower stratosphere on the Antarctic ozone hole. <i>Earth's Future</i> , 2015 , 3, 143-158	7.9	1
16	The Role of Natural Halogens in Global Tropospheric Ozone Chemistry and Budget Under Different 21st Century Climate Scenarios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034859	4.4	1
15	Photodissociation Mechanisms of Major Mercury(II) Species in the Atmospheric Chemical Cycle of Mercury. <i>Angewandte Chemie</i> , 2020 , 132, 7675-7680	3.6	1
14	Influence of the El Niño Southern Oscillation on entry stratospheric water vapor in coupled chemistry-ocean CCM1 and CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3725-3740	6.8	1
13	Large-scale transport into the Arctic: the roles of the midlatitude jet and the Hadley Cell 2018 ,		1
12	Extreme Ozone Loss Following Nuclear War Results in Enhanced Surface Ultraviolet Radiation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035079	4.4	1
11	Upper stratospheric ClO and HOCl trends (2005-2020): Aura Microwave Limb Sounder and model results. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 4779-4799	6.8	1
10	Can the Madden-Julian Oscillation Affect the Antarctic Total Column Ozone?. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088886	4.9	0
9	Fate of Pollution Emitted During the 2015 Indonesian Fire Season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033474	4.4	0
8	Intercomparison Between Surrogate, Explicit, and Full Treatments of VSL Bromine Chemistry Within the CAM-Chem Chemistry-Climate Model. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091125	4.9	0
7	Reactive halogens increase the global methane lifetime and radiative forcing in the 21st century.. <i>Nature Communications</i> , 2022 , 13, 2768	17.4	0
6	The viability of trajectory analysis for diagnosing dynamical and chemical influences on ozone concentrations in the UTLS. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 6025-6042	4.4	
5	Issues and concerns about global atmospheric Ozone. <i>Energy</i> , 1993 , 18, 1249-1262	7.9	
4	Quantifying the Imprints of Stratospheric Contributions to Interhemispheric Differences in Tropospheric CFC-11, CFC-12, and N ₂ O Abundances. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093780	4.8	
3	Atmospheric Chemistry Signatures of an Equatorially Symmetric Matsuno-Gill Circulation Pattern. <i>Journals of the Atmospheric Sciences</i> , 2021 , 78, 107-116	2.1	

- 2 Subpolar Activation of Halogen Heterogeneous Chemistry in Austral Spring. *Geophysical Research Letters*, **2021**, 48, e2020GL090036 4-9
- 1 On the Southern Hemisphere Stratospheric Response to ENSO and Its Impacts on Tropospheric Circulation. *Journal of Climate*, **2022**, 35, 1963-1981 4-4