

Doug E Kinnison

List of Publications by Year in descending order

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215
papers

16,992
citations

26567

56
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18606

119
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229
docs citations

229
times ranked

9705
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.3	1,590
2	The Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001916.	1.3	935
3	Climate Change from 1850 to 2005 Simulated in CESM1(WACCM). <i>Journal of Climate</i> , 2013, 26, 7372-7391.	1.2	706
4	CAM-chem: description and evaluation of interactive atmospheric chemistry in the Community Earth System Model. <i>Geoscientific Model Development</i> , 2012, 5, 369-411.	1.3	633
5	Simulation of secular trends in the middle atmosphere, 1950â€“2003. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	632
6	Emergence of healing in the Antarctic ozone layer. <i>Science</i> , 2016, 353, 269-274.	6.0	462
7	Asian Monsoon Transport of Pollution to the Stratosphere. <i>Science</i> , 2010, 328, 611-613.	6.0	406
8	Sensitivity of chemical tracers to meteorological parameters in the MOZARTâ€“3 chemical transport model. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	395
9	Multimodel projections of stratospheric ozone in the 21st century. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	308
10	The Impact of Stratospheric Ozone Recovery on the Southern Hemisphere Westerly Jet. <i>Science</i> , 2008, 320, 1486-1489.	6.0	307
11	Chemistryâ€“Climate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. <i>Journal of Climate</i> , 2010, 23, 5349-5374.	1.2	280
12	Review of the global models used within phase 1 of the Chemistryâ€“Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , 2017, 10, 639-671.	1.3	277
13	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	1.2	261
14	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.	1.2	247
15	Longâ€“term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5029-5060.	1.2	243
16	Effect of El NiÃ±oâ€“Southern Oscillation on the dynamical, thermal, and chemical structure of the middle atmosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	242
17	Modeling the whole atmosphere response to solar cycle changes in radiative and geomagnetic forcing. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	230
18	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.	1.9	215

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19	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.	1.9	193
20	The Chemistry Mechanism in the Community Earth System Model Version 2 (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001882.	1.3	189
21	Impact of monsoon circulations on the upper troposphere and lower stratosphere. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	183
22	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.	0.6	180
23	Global volcanic aerosol properties derived from emissions, 1990â€“2014, using CESM1(WACCM). <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2332-2348.	1.2	175
24	Multimodel assessment of the upper troposphere and lower stratosphere: Tropics and global trends. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	171
25	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.	1.3	159
26	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 3939-3949.	1.9	157
27	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.	3.3	156
28	Review of the formulation of presentâ€“generation stratospheric chemistryâ€“climate models and associated external forcings. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	150
29	Iodine chemistry in the troposphere and its effect on ozone. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13119-13143.	1.9	148
30	Thermosphere extension of the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	144
31	Impact of geoengineered aerosols on the troposphere and stratosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	141
32	Simulation of polar ozone depletion: An update. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 7958-7974.	1.2	132
33	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.	1.2	128
34	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8409-8438.	1.9	128
35	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.	1.3	122
36	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.	3.3	118

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37	A new interpretation of total column BrO during Arctic spring. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	116
38	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, 5307-5312.	3.3	114
39	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.	3.3	108
40	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.	3.3	107
41	Photoreduction of gaseous oxidized mercury changes global atmospheric mercury speciation, transport and deposition. <i>Nature Communications</i> , 2018, 9, 4796.	5.8	107
42	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.	1.2	101
43	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, .	3.3	93
44	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.	1.2	90
45	Bromine partitioning in the tropical tropopause layer: implications for stratospheric injection. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13391-13410.	1.9	90
46	Impact of Pinatubo aerosols on the partitioning between NO ₂ and HNO ₃ . <i>Geophysical Research Letters</i> , 1994, 21, 597-600.	1.5	88
47	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.	1.3	87
48	Rapid increase in atmospheric iodine levels in the North Atlantic since the mid-20th century. <i>Nature Communications</i> , 2018, 9, 1452.	5.8	86
49	Iodine oxide in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 583-593.	1.9	84
50	On the Determination of Age of Air Trends from Atmospheric Trace Species. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 139-154.	0.6	83
51	Nitrogen oxides from high altitude aircraft: An update of potential effects on ozone. <i>Journal of Geophysical Research</i> , 1989, 94, 16351-16363.	3.3	81
52	The Tropical Tropopause Layer 1960–2100. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1621-1637.	1.9	79
53	Historical Tropospheric and Stratospheric Ozone Radiative Forcing Using the CMIP6 Database. <i>Geophysical Research Letters</i> , 2018, 45, 3264-3273.	1.5	78
54	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. <i>Nature Communications</i> , 2018, 9, 206.	5.8	69

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55	Multimodel assessment of the upper troposphere and lower stratosphere: Extratropics. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	67
56	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.	1.2	64
57	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.	1.9	63
58	A negative feedback between anthropogenic ozone pollution and enhanced ocean emissions of iodine. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2215-2224.	1.9	63
59	Sensitivity of 21st century stratospheric ozone to greenhouse gas scenarios. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	62
60	Sensitivity of Sudden Stratospheric Warmings to Previous Stratospheric Conditions. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 2857-2877.	0.6	62
61	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.	3.3	61
62	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.	1.5	59
63	Classification of stratospheric extreme events according to their downward propagation to the troposphere. <i>Geophysical Research Letters</i> , 2016, 43, 6665-6672.	1.5	58
64	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.	1.2	58
65	Simulated lower stratospheric trends between 1970 and 2005: Identifying the role of climate and composition changes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	57
66	Budget of tropospheric ozone during TOPSE from two chemical transport models. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	56
67	Ozone sensitivity to varying greenhouse gases and ozone-depleting substances in CCMI-1 simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1091-1114.	1.9	56
68	A set of diagnostics for evaluating chemistry-climate models in the extratropical tropopause region. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	55
69	Stratospheric influences on the tropospheric seasonal cycles of nitrous oxide and chlorofluorocarbons. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	53
70	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.	1.9	53
71	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.	1.2	53
72	Simulation of energetic particle precipitation effects during the 2003-2004 Arctic winter. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5035-5048.	0.8	53

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73	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.	1.5	53
74	Injection of iodine to the stratosphere. <i>Geophysical Research Letters</i> , 2015, 42, 6852-6859.	1.5	52
75	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.	1.9	52
76	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.	1.2	51
77	The chemistry-climate model ECHAM6.3-HAM2.3-MOZ1.0. <i>Geoscientific Model Development</i> , 2018, 11, 1695-1723.	1.3	51
78	Revisiting the Mystery of Recent Stratospheric Temperature Trends. <i>Geophysical Research Letters</i> , 2018, 45, 9919-9933.	1.5	51
79	The Convective Transport of Active Species in the Tropics (CONTRAST) Experiment. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 106-128.	1.7	50
80	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.	1.5	50
81	Aviation fuel tracer simulation: Model intercomparison and implications. <i>Geophysical Research Letters</i> , 1998, 25, 3947-3950.	1.5	48
82	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.	1.2	47
83	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, 13789-13793.	3.3	47
84	Photodissociation Mechanisms of Major Mercury(II) Species in the Atmospheric Chemical Cycle of Mercury. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7605-7610.	7.2	45
85	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.	3.3	45
86	Quantifying tracer transport in the tropical lower stratosphere using WACCM. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10591-10607.	1.9	42
87	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.	1.2	42
88	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.	1.2	41
89	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.	1.9	41
90	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.	1.9	40

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91	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.	1.2	40
92	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.	1.9	40
93	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.	6.6	40
94	On the Identification of Ozone Recovery. <i>Geophysical Research Letters</i> , 2018, 45, 5158-5165.	1.5	39
95	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.	0.8	38
96	Natural halogens buffer tropospheric ozone in a changing climate. <i>Nature Climate Change</i> , 2020, 10, 147-154.	8.1	37
97	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.	1.2	36
98	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.	1.2	35
99	Tropospheric transport differences between models using the same large-scale meteorological fields. <i>Geophysical Research Letters</i> , 2017, 44, 1068-1078.	1.5	34
100	Forecasts and assimilation experiments of the Antarctic ozone hole 2008. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1961-1977.	1.9	33
101	Mercury oxidation from bromine chemistry in the free troposphere over the southeastern AUS. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3743-3760.	1.9	33
102	A pervasive role for biomass burning in tropical high ozone/low water structures. <i>Nature Communications</i> , 2016, 7, 10267.	5.8	33
103	BrO and inferred Br profiles over the western Pacific: relevance of inorganic bromine sources and a minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15245-15270.	1.9	33
104	Longest continuous ground-based measurements of mesospheric CO. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	32
105	Hydrocarbons in the upper troposphere and lower stratosphere observed from ACEFTS and comparisons with WACCM. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1964-1980.	1.2	32
106	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.	1.9	32
107	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.	1.2	32
108	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.	0.6	32

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109	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.	1.2	32
110	Large-scale tropospheric transport in the Chemistry-Climate Model Initiative (CCMI) simulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7217-7235.	1.9	32
111	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.	1.9	32
112	Nighttime atmospheric chemistry of iodine. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15593-15604.	1.9	31
113	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.	1.2	31
114	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.	1.3	31
115	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.	1.9	30
116	Key drivers of ozone change and its radiative forcing over the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 6121-6139.	1.9	30
117	Simulations of the response of mesospheric circulation and temperature to the Antarctic ozone hole. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	29
118	The influence of mixing on the stratospheric age of air changes in the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 921-940.	1.9	29
119	The Global Modeling Initiative assessment model: Application to high-speed civil transport perturbation. <i>Journal of Geophysical Research</i> , 2001, 106, 1693-1711.	3.3	28
120	World avoided simulations with the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
121	Large Impacts, Past and Future, of Ozone-Depleting Substances on Brewer-Dobson Circulation Trends: A Multimodel Assessment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6669-6680.	1.2	28
122	On Recent Large Antarctic Ozone Holes and Ozone Recovery Metrics. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095232.	1.5	28
123	The global impact of supersaturation in a coupled chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1629-1643.	1.9	27
124	Quantifying the causes of differences in tropospheric OH within global models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1983-2007.	1.2	27
125	The strength of the meridional overturning circulation of the stratosphere. <i>Nature Geoscience</i> , 2017, 10, 663-667.	5.4	27
126	Tropospheric ozone in CCMI models and Gaussian process emulation to understand biases in the SOCOLv3 chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16155-16172.	1.9	27

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127	The effect of atmospheric nudging on the stratospheric residual circulation in chemistry-climate models. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11559-11586.	1.9	27
128	Atmospheric changes caused by galactic cosmic rays over the period 1960-2010. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5853-5866.	1.9	26
129	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.	1.2	26
130	On the discrepancy of HCl processing in the core of the wintertime polar vortices. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 8647-8666.	1.9	26
131	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.	1.2	26
132	The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9473-9486.	1.9	25
133	Future trends in stratosphere-to-troposphere transport in CCMI models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6883-6901.	1.9	25
134	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.	1.9	25
135	A machine learning examination of hydroxyl radical differences among model simulations for CCMI-1. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1341-1361.	1.9	24
136	Monsoon circulations and tropical heterogeneous chlorine chemistry in the stratosphere. <i>Geophysical Research Letters</i> , 2016, 43, 12,624.	1.5	23
137	Clear-sky ultraviolet radiation modelling using output from the Chemistry Climate Model Initiative. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 10087-10110.	1.9	22
138	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.	3.3	20
139	Tropospheric ozone decrease due to the Mount Pinatubo eruption: Reduced stratospheric influx. <i>Geophysical Research Letters</i> , 2013, 40, 5553-5558.	1.5	20
140	Stratospheric and mesospheric HO ₂ observations from the Aura Microwave Limb Sounder. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2889-2902.	1.9	20
141	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.	1.2	20
142	Reactive halogens increase the global methane lifetime and radiative forcing in the 21st century. <i>Nature Communications</i> , 2022, 13, 2768.	5.8	20
143	Commentary on using equivalent latitude in the upper troposphere and lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9187-9199.	1.9	19
144	Trajectory model simulations of ozone (O ₃) and carbon monoxide (CO) in the lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7135-7147.	1.9	19

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145	CO at 40–80 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.	1.9	18
146	Bimodal distribution of free tropospheric ozone over the tropical western Pacific revealed by airborne observations. <i>Geophysical Research Letters</i> , 2015, 42, 7844-7851.	1.5	18
147	Sunset–sunrise difference in solar occultation ozone measurements (SAGE II, HALOE, and ACE–FTS) and its relationship to tidal vertical winds. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 829-843.	1.9	18
148	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.	1.3	18
149	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.	1.2	18
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