Martyn Chipperfield

List of Publications by Year
in descending order

353 papers	19,464 citations	14614 66 h-index	24915 109 g-index
508 all docs	508 docs citations	508 times ranked	10438 citing authors

#	Article	IF	Citations
1	Effects of the Tibetan Plateau on total column ozone distribution. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 622.	0.8	68
2	A single-peak-structured solar cycle signal in stratospheric ozone based on Microwave Limb Sounder observations and model simulations. Atmospheric Chemistry and Physics, 2022, 22, 903-916.	1.9	7
3	Responses of Arctic sea ice to stratospheric ozone depletion. Science Bulletin, 2022, 67, 1182-1190.	4.3	20
4	LevelÂ2 processor and auxiliary data for ESA Version 8 final full mission analysis of MIPAS measurements on ENVISAT. Atmospheric Measurement Techniques, 2022, 15, 1871-1901.	1.2	2
5	Exploiting satellite measurements to explore uncertainties in UK bottom-up NO_{<i>x</i>} emission estimates. Atmospheric Chemistry and Physics, 2022, 22, 4323-4338.	1.9	9
6	A stratospheric prognostic ozone for seamless Earth system models: performance, impacts and future. Atmospheric Chemistry and Physics, 2022, 22, 4277-4302.	1.9	5
7	The role of chemical processes in the quasi-biennial oscillation (QBO) signal in stratospheric ozone. Atmospheric Environment, 2021, 244, 117906.	1.9	12
8	A decline in global CFC-11 emissions during 2018âˆ’2019. Nature, 2021, 590, 428-432.	13.7	55
9	Arctic Ozone Depletion in 2019/20: Roles of Chemistry, Dynamics and the Montreal Protocol. Geophysical Research Letters, 2021, 48, e2020GL091911.	1.5	34
10	How Robust Is the Apparent Breakâ€Down of Northern Highâ€Latitude Temperature Control on Spring Carbon Uptake?. Geophysical Research Letters, 2021, 48, e2020GL091601.	1.5	2
11	The Unusual Stratospheric Arctic Winter 2019/20: Chemical Ozone Loss From Satellite Observations and TOMCAT Chemical Transport Model. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034386.	1.2	19
12	Diagnosing air quality changes in the UK during the COVID-19 lockdown using TROPOMI and GEOS-Chem. Environmental Research Letters, 2021, 16, 054031.	2.2	28
13	COVID-19 lockdown-induced changes in NO₂ levels across India observed by multi-satellite and surface observations. Atmospheric Chemistry and Physics, 2021, 21, 5235-5251.	1.9	44
14	Fifteen Years of HFCâ€134a Satellite Observations: Comparisons With SLIMCAT Calculations. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033208.	1.2	7
15	Unprecedented Spring 2020 Ozone Depletion in the Context of 20ÂYears of Measurements at Eureka, Canada. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034365.	1.2	7
16	Polar Stratospheric Clouds: Satellite Observations, Processes, and Role in Ozone Depletion. Reviews of Geophysics, 2021, 59, e2020RG000702.	9.0	49
17	Large and increasing methane emissions from eastern Amazonia derived from satellite data, 2010â€“2018. Atmospheric Chemistry and Physics, 2021, 21, 10643-10669.	1.9	13
18	Large Methane Emissions From the Pantanal During Rising Waterâ€Levels Revealed by Regularly Measured Lower Troposphere CH₄ Profiles. Global Biogeochemical Cycles, 2021, 35, e2021GB006964.	1.9	8

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19	Stratospheric fluorine as a tracer of circulation changes: comparison between infrared remoteâ€sensing observations and simulations with five modern reanalyses. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034995.	1.2	8
20	Large Enhancements in Southern Hemisphere Satelliteâ€Observed Trace Gases Due to the 2019/2020 Australian Wildfires. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034892.	1.2	8
21	Organic and inorganic bromine measurements around the extratropical tropopause and lowermost stratosphere: insights into the transport pathways and total bromine. Atmospheric Chemistry and Physics, 2021, 21, 15375-15407.	1.9	6
22	Cloud-scale modelling of the impact of deep convection on the fate of oceanic bromoform in the troposphere: a case study over the west coast of Borneo. Atmospheric Chemistry and Physics, 2021, 21, 16955-16984.	1.9	1
23	ML-TOMCAT: machine-learning-based satellite-corrected global stratospheric ozone profile data set from a chemical transport model. Earth System Science Data, 2021, 13, 5711-5729.	3.7	5
24	Substantial Increases in Eastern Amazon and Cerrado Biomass Burningâ€Sourced Tropospheric Ozone. Geophysical Research Letters, 2020, 47, e2019GL084143.	1.5	16
25	A comprehensive quantification of global nitrous oxide sources and sinks. Nature, 2020, 586, 248-256.	13.7	814
26	Renewed and emerging concerns over the production and emission of ozone-depleting substances. Nature Reviews Earth & Environment, 2020, 1, 251-263.	12.2	32
27	Description and Evaluation of the specified-dynamics experiment in the Chemistry-Climate Model Initiative. Atmospheric Chemistry and Physics, 2020, 20, 3809-3840.	1.9	16
28	Description and evaluation of the UKCA stratosphereâ€“troposphere chemistry scheme (StratTrop vn) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.3	109
29	Modelling the potential impacts of the recent, unexpected increase in CFC-11 emissions on total column ozone recovery. Atmospheric Chemistry and Physics, 2020, 20, 7153-7166.	1.9	10
30	Quantifying the transboundary contribution of nitrogen oxides to UK air quality. Atmospheric Science Letters, 2020, 21, e955.	0.8	2
31	A Synthesis Inversion to Constrain Global Emissions of Two Very Short Lived Chlorocarbons: Dichloromethane, and Perchloroethylene. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031818.	1.2	18
32	Tropospheric ozone radiative forcing uncertainty due to pre-industrial fire and biogenic emissions. Atmospheric Chemistry and Physics, 2020, 20, 10937-10951.	1.9	15
33	Gravitational separation of Arâ^•N₂ and age of air in the lowermost stratosphere in airborne observations and a chemical transport model. Atmospheric Chemistry and Physics, 2020, 20, 12391-12408.	1.9	9
34	Evaluating the simulated radiative forcings, aerosol properties, and stratospheric warmings from the 1963 Mt Agung, 1982 El ChichÃ³n, and 1991 Mt Pinatubo volcanic aerosol clouds. Atmospheric Chemistry and Physics, 2020, 20, 13627-13654.	1.9	22
35	Exploring constraints on a wetland methane emission ensemble (WetCHARTs) using GOSAT observations. Biogeosciences, 2020, 17, 5669-5691.	1.3	16
36	Decomposing the response of the stratospheric Brewerâ€“Dobson circulation to an abrupt quadrupling in CO₂. Weather and Climate Dynamics, 2020, 1, 155-174.	1.2	6

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37	Impact of the June 2018 Saddleworth Moor wildfires on air quality in northern England. Environmental Research Communications, 2020, 2, 031001.	0.9	5
38	Analysis and attribution of total column ozone changes over the Tibetan Plateau during 1979â€"2017. Atmospheric Chemistry and Physics, 2020, 20, 8627-8639.	1.9	15
39	Impact on air quality and health due to the Saddleworth Moor fire in northern England. Environmental Research Letters, 2020, 15, 074018.	2.2	8
40	Ultraviolet Radiation modelling using output from the Chemistry Climate Model Initiative. , 2019, 19, 10087-10110.		5
41	Zonally asymmetric trends of winter total column ozone in the northern middle latitudes. Climate Dynamics, 2019, 52, 4483-4500.	1.7	19
42	Challenges for the recovery of the ozone layer. Nature Geoscience, 2019, 12, 592-596.	5.4	50
43	Impact of El NiÃ±oâ€"Southern Oscillation on the interannual variability of methane and tropospheric ozone. Atmospheric Chemistry and Physics, 2019, 19, 8669-8686.	1.9	33
44	Interannual Variations in Lower Stratospheric Ozone During the Period 1984â€"2016. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8225-8241.	1.2	10
45	Clear-sky ultraviolet radiation modelling using output from the Chemistry Climate Model Initiative. Atmospheric Chemistry and Physics, 2019, 19, 10087-10110.	1.9	22
46	Recent Trends in Stratospheric Chlorine From Very Shortâ€Lived Substances. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2318-2335.	1.2	34
47	Stratospheric ozone loss in the Arctic winters between 2005 and 2013 derived with ACE-FTS measurements. Atmospheric Chemistry and Physics, 2019, 19, 577-601.	1.9	10
48	Dynamically controlled ozone decline in the tropical mid-stratosphere observed by SCIAMACHY. Atmospheric Chemistry and Physics, 2019, 19, 767-783.	1.9	18
49	On the Regional and Seasonal Ozone Depletion Potential of Chlorinated Very Shortâ€Lived Substances. Geophysical Research Letters, 2019, 46, 5489-5498.	1.5	21
50	Attribution of the Hemispheric Asymmetries in Trends of Stratospheric Trace Gases Inferred From Microwave Limb Sounder (MLS) Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6283-6293.	1.2	12
51	Large Impacts, Past and Future, of Ozoneâ€Depleting Substances on Brewerâ€Dobson Circulation Trends: A Multimodel Assessment. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6669-6680.	1.2	28
52	High resolution satellite observations give new view of UK air quality. Weather, 2019, 74, 316-320.	0.6	5
53	Phosgene in the Upper Troposphere and Lower Stratosphere: A Marker for Product Gas Injection Due to Chlorineâ€Containing Very Short Lived Substances. Geophysical Research Letters, 2019, 46, 1032-1039.	1.5	10
54	The effect of atmospheric nudging on the stratospheric residual circulation in chemistryâ€"climate models. Atmospheric Chemistry and Physics, 2019, 19, 11559-11586.	1.9	27

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55	Acceleration of global N2O emissions seen from two decades of atmospheric inversion. Nature Climate Change, 2019, 9, 993-998.	8.1	229
56	Delay in recovery of the Antarctic ozone hole from unexpected CFC-11 emissions. Nature Communications, 2019, 10, 5781.	5.8	58
57	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. Nature Communications, 2018, 9, 206.	5.8	69
58	Impact on short-lived climate forcers increases projected warming due to deforestation. Nature Communications, 2018, 9, 157.	5.8	86
59	Ozone sensitivity to varying greenhouse gases and ozone-depleting substances in CCMI-1 simulations. Atmospheric Chemistry and Physics, 2018, 18, 1091-1114.	1.9	56
60	Heterogeneous reaction of HO₂ with airborne TiO₂ particles and its implication for climate change mitigation strategies. Atmospheric Chemistry and Physics, 2018, 18, 327-338.	1.9	12
61	A refined method for calculating equivalent effective stratospheric chlorine. Atmospheric Chemistry and Physics, 2018, 18, 601-619.	1.9	22
62	Attribution of recent increases in atmospheric methane through 3-D inverse modelling. Atmospheric Chemistry and Physics, 2018, 18, 18149-18168.	1.9	51
63	Influence of the wintertime North Atlantic Oscillation on European tropospheric composition: an observational and modelling study. Atmospheric Chemistry and Physics, 2018, 18, 8389-8408.	1.9	6
64	On the discrepancy of HCl processing in the core of the wintertime polar vortices. Atmospheric Chemistry and Physics, 2018, 18, 8647-8666.	1.9	26
65	Widespread changes in UK air quality observed from space. Atmospheric Science Letters, 2018, 19, e817.	0.8	19
66	Age of air as a diagnostic for transport timescales in global models. Geoscientific Model Development, 2018, 11, 3109-3130.	1.3	44
67	Tropical land carbon cycle responses to 2015/16 El NiÃ±o as recorded by atmospheric greenhouse gas and remote sensing data. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170302.	1.8	37
68	Recent Arctic ozone depletion: Is there an impact of climate change?. Comptes Rendus - Geoscience, 2018, 350, 347-353.	0.4	22
69	On the Cause of Recent Variations in Lower Stratospheric Ozone. Geophysical Research Letters, 2018, 45, 5718-5726.	1.5	87
70	A measurement-based verification framework for UK greenhouse gas emissions: an overview of the Greenhouse gAs Uk and Global Emissions (GAUGE) project. Atmospheric Chemistry and Physics, 2018, 18, 11753-11777.	1.9	29
71	Stratospheric Injection of Brominated Very Shortâ€Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5690-5719.	1.2	36
72	Tropospheric jet response to Antarctic ozone depletion: An update with Chemistry-Climate Model Initiative (CCMI) models. Environmental Research Letters, 2018, 13, 054024.	2.2	38

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73	An Explanation for the Nitrous Oxide Layer Observed in the Mesopause Region. Geophysical Research Letters, 2018, 45, 7818-7827.	1.5	5
74	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. Atmospheric Chemistry and Physics, 2018, 18, 8409-8438.	1.9	128
75	Evaluating year-to-year anomalies in tropical wetland methane emissions using satellite CH4 observations. Remote Sensing of Environment, 2018, 211, 261-275.	4.6	55
76	Revisiting the Mystery of Recent Stratospheric Temperature Trends. Geophysical Research Letters, 2018, 45, 9919-9933.	1.5	51
77	An updated version of a gap-free monthly mean zonal mean ozone database. Earth System Science Data, 2018, 10, 1473-1490.	3.7	18
78	Quantifying the causes of differences in tropospheric OH within global models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1983-2007.	1.2	27
79	Influence of the Arctic Oscillation on the Vertical Distribution of Wintertime Ozone in the Stratosphere and Upper Troposphere over the Northern Hemisphere. Journal of Climate, 2017, 30, 2905-2919.	1.2	14
80	Impact on short-lived climate forcers (SLCFs) from a realistic land-use change scenario via changes in biogenic emissions. Faraday Discussions, 2017, 200, 101-120.	1.6	7
81	Detecting recovery of the stratospheric ozone layer. Nature, 2017, 549, 211-218.	13.7	182
82	Deriving Global OH Abundance and Atmospheric Lifetimes for Longâ€Lived Gases: A Search for CH₃CCl₃ Alternatives. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,914.	1.2	26
83	The increasing threat to stratospheric ozone from dichloromethane. Nature Communications, 2017, 8, 15962.	5.8	147
84	Probing the subtropical lowermost stratosphere and the tropical upper troposphere and tropopause layer for inorganic bromine. Atmospheric Chemistry and Physics, 2017, 17, 1161-1186.	1.9	25
85	The relationship between lower-stratospheric ozone at southern high latitudes and sea surface temperature in the East Asian marginal seas in austral spring. Atmospheric Chemistry and Physics, 2017, 17, 6705-6722.	1.9	11
86	Determination of the atmospheric lifetime and global warming potential of sulfur hexafluoride using a three-dimensional model. Atmospheric Chemistry and Physics, 2017, 17, 883-898.	1.9	49
87	A new Differential Optical Absorption Spectroscopy instrument to study atmospheric chemistry from a high-altitude unmanned aircraft. Atmospheric Measurement Techniques, 2017, 10, 1017-1042.	1.2	20
88	Review of the global models used within phase 1 of the Chemistryâ€“Climate Model Initiative (CCMI). Geoscientific Model Development, 2017, 10, 639-671.	1.3	277
89	The TOMCAT global chemical transport model v1.6: description of chemical mechanism and model evaluation. Geoscientific Model Development, 2017, 10, 3025-3057.	1.3	35
90	Extending methane profiles from aircraft into the stratosphere for satellite total column validation using the ECMWF C-IFS and TOMCAT/SLIMCAT 3-D model. Atmospheric Chemistry and Physics, 2017, 17, 6663-6678.	1.9	6

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91	The impact of synoptic weather on UK surface ozone and implications for premature mortality. Environmental Research Letters, 2016, 11, 124004.	2.2	48
92	<i>D</i>-region ionâ€“neutral coupled chemistry (SodankylÃ Ion Chemistry,) Tj ETQq0 0 0 rgBT /Overlock WACCM-rSIC. Geoscientific Model Development, 2016, 9, 3123-3136.	1.3	16
93	A global model of tropospheric chlorine chemistry: Organic versus inorganic sources and impact on methane oxidation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,271.	1.2	86
94	Evaluation of simulated photolysis rates and their response to solar irradiance variability. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6066-6084.	1.2	27
95	Contribution of regional sources to atmospheric methane over the Amazon Basin in 2010 and 2011. Global Biogeochemical Cycles, 2016, 30, 400-420.	1.9	42
96	Solar cycle response and longâ€term trends in the mesospheric metal layers. Journal of Geophysical Research: Space Physics, 2016, 121, 7153-7165.	0.8	15
97	On the ambiguous nature of the 11â€‰year solar cycle signal in upper stratospheric ozone. Geophysical Research Letters, 2016, 43, 7241-7249.	1.5	43
98	Evaluation of the inter-annual variability of stratospheric chemical composition in chemistry-climate models using ground-based multi species time series. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 145, 61-84.	0.6	6
99	CH₄ concentrations over the Amazon from GOSAT consistent with in situ vertical profile data. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,006.	1.2	18
100	Role of regional wetland emissions in atmospheric methane variability. Geophysical Research Letters, 2016, 43, 11,433.	1.5	37
101	Persistent shift of the Arctic polar vortex towards the Eurasian continent in recent decades. Nature Climate Change, 2016, 6, 1094-1099.	8.1	207
102	Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper tropospherea€"lower stratosphere. Atmospheric Chemistry and Physics, 2016, 16, 13541-13559.	1.9	15
103	Role of OH variability in the stalling of the global atmospheric CH₄ growth rate from 1999 to 2006. Atmospheric Chemistry and Physics, 2016, 16, 7943-7956.	1.9	68
104	Satellite observations of stratospheric hydrogen fluoride and comparisons with SLIMCAT calculations. Atmospheric Chemistry and Physics, 2016, 16, 10501-10519.	1.9	14
105	Atmospheric lifetimes, infrared absorption spectra, radiative forcings and global warming potentials of NF₃ and CF₃CF₂ClÂ(CFC-115). Atmospheric Chemistry and Physics, 2016, 16, 11451-11463.	1.9	16
106	Model sensitivity studies of the decrease in atmospheric carbon tetrachloride. Atmospheric Chemistry and Physics, 2016, 16, 15741-15754.	1.9	5
107	The nearâ€global mesospheric potassium layer: Observations and modeling. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7975-7987.	1.2	15
108	Growth in stratospheric chlorine from shortâ€lived chemicals not controlled by the Montreal Protocol. Geophysical Research Letters, 2015, 42, 4573-4580.	1.5	42

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109	Multi-model study of chemical and physical controls on transport of anthropogenic and biomass burning pollution to the Arctic. Atmospheric Chemistry and Physics, 2015, 15, 3575-3603.	1.9	83
110	Evaluation of a regional air quality model using satellite column NO₂: treatment of observation errors and model boundary conditions and emissions. Atmospheric Chemistry and Physics, 2015, 15, 5611-5626.	1.9	20
111	The influence of synoptic weather regimes on UK air quality: regional model studies of tropospheric column NO₂. Atmospheric Chemistry and Physics, 2015, 15, 11201-11215.	1.9	20
112	Satellite constraint on the tropospheric ozone radiative effect. Geophysical Research Letters, 2015, 42, 5074-5081.	1.5	39
113	Diurnal variation of the potassium layer in the upper atmosphere. Geophysical Research Letters, 2015, 42, 3619-3626.	1.5	10
114	Quantifying the ozone and ultraviolet benefits already achieved by the Montreal Protocol. Nature Communications, 2015, 6, 7233.	5.8	99
115	Efficiency of short-lived halogens at influencing climate through depletion of stratospheric ozone. Nature Geoscience, 2015, 8, 186-190.	5.4	146
116	Revisiting the hemispheric asymmetry in midlatitude ozone changes following the Mount Pinatubo eruption: A 3â€Đ model study. Geophysical Research Letters, 2015, 42, 3038-3047.	1.5	47
117	Reaction between CH₃O₂ and BrO Radicals: A New Source of Upper Troposphere Lower Stratosphere Hydroxyl Radicals. Journal of Physical Chemistry A, 2015, 119, 4618-4632.	1.1	18
118	Suppression of <scp>CCN</scp> formation by bromine chemistry in the remote marine atmosphere. Atmospheric Science Letters, 2015, 16, 141-147.	0.8	4
119	First global observations of the mesospheric potassium layer. Geophysical Research Letters, 2014, 41, 5653-5661.	1.5	17
120	Development of a variational flux inversion system (INVICAT v1.0) using the TOMCAT chemical transport model. Geoscientific Model Development, 2014, 7, 2485-2500.	1.3	32
121	The influence of synoptic weather regimes on <scp>UK</scp> air quality: analysis of satellite column <scp>NO₂</scp>. Atmospheric Science Letters, 2014, 15, 211-217.	0.8	41
122	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. Nature, 2014, 515, 104-107.	13.7	110
123	Multimodel estimates of atmospheric lifetimes of longâ€lived ozoneâ€depleting substances: Present and future. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2555-2573.	1.2	42
124	Global stratospheric fluorine inventory for 2004â€"2009 from Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS) measurements and SLIMCAT model simulations. Atmospheric Chemistry and Physics, 2014, 14, 267-282.	1.9	15
125	Aerosol microphysics simulations of the Mt.~Pinatubo eruption with the UM-UKCA composition-climate model. Atmospheric Chemistry and Physics, 2014, 14, 11221-11246.	1.9	62
126	Comparison of the HadGEM2 climate-chemistry model against in situ and SCIAMACHY atmospheric methane data. Atmospheric Chemistry and Physics, 2014, 14, 13257-13280.	1.9	29

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127	TransCom N₂O model inter-comparison â€" Part 1: Assessing the influence of transport and surface fluxes on tropospheric N₂O variability. Atmospheric Chemistry and Physics, 2014, 14, 4349-4368.	1.9	34
128	Constraining the N₂O₅ UV absorption cross section from spectroscopic trace gas measurements in the tropical mid-stratosphere. Atmospheric Chemistry and Physics, 2014, 14, 9555-9566.	1.9	4
129	Satellite observations of stratospheric carbonyl fluoride. Atmospheric Chemistry and Physics, 2014, 14, 11915-11933.	1.9	13
130	Resolving the strange behavior of extraterrestrial potassium in the upper atmosphere. Geophysical Research Letters, 2014, 41, 4753-4760.	1.5	43
131	Direct and indirect effects of solar variations on stratospheric ozone and temperature. Science Bulletin, 2013, 58, 3840-3846.	1.7	2
132	Improvements in the stratospheric transport achieved by a chemistry transport model with ECMWF (re)analyses: identifying effects and remaining challenges. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 654-673.	1.0	41
133	Plutoniumâ€238 observations as a test of modeled transport and surface deposition of meteoric smoke particles. Geophysical Research Letters, 2013, 40, 4454-4458.	1.5	29
134	On the uses of a new linear scheme for stratospheric methane in global models: water source, transport tracer and radiative forcing. Atmospheric Chemistry and Physics, 2013, 13, 9641-9660.	1.9	17
135	Impact of transport model errors on the global and regional methane emissions estimated by inverse modelling. Atmospheric Chemistry and Physics, 2013, 13, 9917-9937.	1.9	68
136	Stratospheric O₃ changes during 2001â€"2010: the small role of solar flux variations in a chemical transport model. Atmospheric Chemistry and Physics, 2013, 13, 10113-10123.	1.9	25
137	Off-line algorithm for calculation of vertical tracer transport in the troposphere due to deep convection. Atmospheric Chemistry and Physics, 2013, 13, 1093-1114.	1.9	27
138	Evaluating global emission inventories of biogenic bromocarbons. Atmospheric Chemistry and Physics, 2013, 13, 11819-11838.	1.9	66
139	The Mediterranean summertime ozone maximum: global emission sensitivities and radiative impacts. Atmospheric Chemistry and Physics, 2013, 13, 2331-2345.	1.9	93
140	Atmospheric test of the J(BrONO₂)/<i>k</i><sub>BrO+NO<sub ratio: implications for total stratospheric Br_y and bromine-mediated ozone loss. Atmospheric Chemistry and Physics, 2013, 13, 6263-6274.	1.9	21
141	Climate impact of stratospheric ozone recovery. Geophysical Research Letters, 2013, 40, 2796-2800.	1.5	27
142	A global atmospheric model of meteoric iron. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9456-9474.	1.2	105
143	TransCom model simulations of methane: Comparison of vertical profiles with aircraft measurements. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3891-3904.	1.2	24
144	New Aura Microwave Limb Sounder observations of BrO and implications for Br_y. Atmospheric Measurement Techniques, 2012, 5, 1741-1751.	1.2	15

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145	Interactions of meteoric smoke particles with sulphuric acid in the Earth's stratosphere. Atmospheric Chemistry and Physics, 2012, 12, 4387-4398.	1.9	45
146	Intercomparison of modal and sectional aerosol microphysics representations within the same 3-D global chemical transport model. Atmospheric Chemistry and Physics, 2012, 12, 4449-4476.	1.9	101
147	Observed and simulated time evolution of HCl, ClONO₂, and HF total column abundances. Atmospheric Chemistry and Physics, 2012, 12, 3527-3556.	1.9	72
148	Unusually low ozone, HCl, and HNO₃ column measurements at Eureka, Canada during winter/spring 2011. Atmospheric Chemistry and Physics, 2012, 12, 3821-3835.	1.9	34
149	Analysis of stratospheric NO₂ trends above Jungfraujoch using ground-based UV-visible, FTIR, and satellite nadir observations. Atmospheric Chemistry and Physics, 2012, 12, 8851-8864.	1.9	27
150	The contribution of natural and anthropogenic very short-lived species to stratospheric bromine. Atmospheric Chemistry and Physics, 2012, 12, 371-380.	1.9	63
151	Severe 2011 ozone depletion assessed with 11 years of ozone, NO₂, and OClO measurements at 80Â°N. Geophysical Research Letters, 2012, 39, .	1.5	30
152	The existence of the edge region of the Antarctic stratospheric vortex. Journal of Geophysical Research, 2012, 117, .	3.3	18
153	Evidence for El NiÃ±oâ€“Southern Oscillation (ENSO) influence on Arctic CO interannual variability through biomass burning emissions. Geophysical Research Letters, 2012, 39, .	1.5	45
154	Modelling future changes to the stratospheric source gas injection of biogenic bromocarbons. Geophysical Research Letters, 2012, 39, .	1.5	38
155	Climate change projections and stratosphereâ€“troposphere interaction. Climate Dynamics, 2012, 38, 2089-2097.	1.7	137
156	Stratospheric Pollution. , 2012, , 373-382.		0
157	Effects of sea surface temperature and greenhouse gas changes on the transport between the stratosphere and troposphere. Journal of Geophysical Research, 2011, 116, .	3.3	16
158	Multimodel climate and variability of the stratosphere. Journal of Geophysical Research, 2011, 116, .	3.3	139
159	Using transport diagnostics to understand chemistry climate model ozone simulations. Journal of Geophysical Research, 2011, 116, .	3.3	68
160	Improved predictability of the troposphere using stratospheric final warmings. Journal of Geophysical Research, 2011, 116, .	3.3	70
161	TransCom model simulations of CH₄ and related species: linking transport, surface flux and chemical loss with CH₄ variability in the troposphere and lower stratosphere. Atmospheric Chemistry and Physics, 2011, 11, 12813-12837.	1.9	331
162	Results from a new linear O₃ scheme with embedded heterogeneous chemistry compared with the parent full-chemistry 3-D CTM. Atmospheric Chemistry and Physics, 2011, 11, 1227-1242.	1.9	16

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163	Impact of deep convection and dehydration on bromine loading in the upper troposphere and lower stratosphere. Atmospheric Chemistry and Physics, 2011, 11, 2671-2687.	1.9	52
164	Representation of tropical deep convection in atmospheric models â€“ Part 1: Meteorology and comparison with satellite observations. Atmospheric Chemistry and Physics, 2011, 11, 2765-2786.	1.9	36
165	Analysis of reactive bromine production and ozone depletion in the Arctic boundary layer using 3-D simulations with GEM-AQ: inference from synoptic-scale patterns. Atmospheric Chemistry and Physics, 2011, 11, 3949-3979.	1.9	75
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