Philip Cameron-Smith

List of Publications by Year
in descending order

59 papers	7,828 citations	147801 31 h-index	138484 58 g-index
80 all docs	80 docs citations	80 times ranked	10571 citing authors

#	Article	IF	Citations
1	Three decades of global methane sources and sinks. Nature Geoscience, 2013, 6, 813-823.	12.9	1,649
2	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 2063-2090.	4.9	570
3	Global air quality and climate. Chemical Society Reviews, 2012, 41, 6663.	38.1	428
4	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2089-2129.	3.8	404
5	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. Geoscientific Model Development, 2013, 6, 179-206.	3.6	388
6	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. Environmental Research Letters, 2013, 8, 034005.	5.2	381
7	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 3063-3085.	4.9	361
8	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.	4.9	331
9	Preindustrial to present-day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 5277-5298.	4.9	288
10	Multi-model mean nitrogen and sulfur deposition from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): evaluation of historical and projected future changes. Atmospheric Chemistry and Physics, 2013, 13, 7997-8018.	4.9	279
11	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. Journal of Geophysical Research, 2005, 110, .	3.3	266
12	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. Atmospheric Chemistry and Physics, 2013, 13, 2563-2587.	4.9	257
13	Longâ€term ozone changes and associated climate impacts in CMIP5 simulations. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5029-5060.	3.3	243
14	Future global mortality from changes in air pollution attributable to climate change. Nature Climate Change, 2017, 7, 647-651.	18.8	177
15	An Overview of the Atmospheric Component of the Energy Exascale Earth System Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2377-2411.	3.8	168
16	On the influence of shrub height and expansion on northern high latitude climate. Environmental Research Letters, 2012, 7, 015503.	5.2	140
17	Identifying human influences on atmospheric temperature. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 26-33.	7.1	117
18	The DOE E3SM Coupled Model Version 1: Description and Results at High Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 4095-4146.	3.8	112

#	Article	IF	Citations
19	Understanding Cloud and Convective Characteristics in Version 1 of the E3SM Atmosphere Model. Journal of Advances in Modeling Earth Systems, 2018, 10, 2618-2644.	3.8	105
20	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble. Atmospheric Chemistry and Physics, 2016, 16, 9847-9862.	4.9	101
21	Cloud structure and atmospheric composition of Jupiter retrieved from Galileo near-infrared mapping spectrometer real-time spectra. Journal of Geophysical Research, 1998, 103, 23001-23021.	3.3	76
22	Review of Methane Mitigation Technologies with Application to Rapid Release of Methane from the Arctic. Environmental Science & Technology, 2012, 46, 6455-6469.	10.0	76
23	Changes in dimethyl sulfide oceanic distribution due to climate change. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	69
24	Impact of transport model errors on the global and regional methane emissions estimated by inverse modelling. Atmospheric Chemistry and Physics, 2013, 13, 9917-9937.	4.9	68
25	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystemâ€Climate Responses to Historical Changes in Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001766.	3.8	65
26	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. Atmospheric Chemistry and Physics, 2013, 13, 4057-4072.	4.9	61
27	Influence of explicit Phaeocystis parameterizations on the global distribution of marine dimethyl sulfide. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2158-2177.	3.0	55
28	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. Atmospheric Chemistry and Physics, 2021, 21, 5015-5061.	4.9	54
29	Use of North American and European air quality networks to evaluate global chemistryâ€“climate modeling of surface ozone. Atmospheric Chemistry and Physics, 2015, 15, 10581-10596.	4.9	50
30	Historical total ozone radiative forcing derived from CMIP6 simulations. Npj Climate and Atmospheric Science, 2020, 3, .	6.8	44
31	Influence of dimethyl sulfide on the carbon cycle and biological production. Biogeochemistry, 2018, 138, 49-68.	3.5	35
32	Evaluating transport in the WRF model along the California coast. Atmospheric Chemistry and Physics, 2013, 13, 1837-1852.	4.9	32
33	Off-line algorithm for calculation of vertical tracer transport in the troposphere due to deep convection. Atmospheric Chemistry and Physics, 2013, 13, 1093-1114.	4.9	27
34	Bayesian inverse modeling of the atmospheric transport and emissions of aÂcontrolled tracer release from aÂnuclear power plant. Atmospheric Chemistry and Physics, 2017, 17, 13521-13543.	4.9	27
35	Impacts of Shifts in Phytoplankton Community on Clouds and Climate via the Sulfur Cycle. Global Biogeochemical Cycles, 2018, 32, 1005-1026.	4.9	27
36	Natural variability contributes to modelâ€“satellite differences in tropical tropospheric warming. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	27

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37	Designing optimal greenhouse gas observing networks that consider performance and cost. Geoscientific Instrumentation, Methods and Data Systems, 2015, 4, 121-137.	1.6	25
38	TransCom model simulations of methane: Comparison of vertical profiles with aircraft measurements. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3891-3904.	3.3	24
39	Marine methane cycle simulations for the period of early global warming. Journal of Geophysical Research, 2011, 116, .	3.3	18
40	Impact of meteorological inflow uncertainty on tracer transport and source estimation in urban atmospheres. Atmospheric Environment, 2016, 143, 120-132.	4.1	16
41	Quantum non-demolition measurements with an optical parametric amplifier. Optics Communications, 1993, 102, 105-110.	2.1	15
42	New SOA Treatments Within the Energy Exascale Earth System Model (E3SM): Strong Production and Sinks Govern Atmospheric SOA Distributions and Radiative Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002266.	3.8	15
43	Toward an Earth system model: atmospheric chemistry, coupling, and petascale computing. Journal of Physics: Conference Series, 2006, 46, 343-350.	0.4	12
44	DMS role in ENSO cycle in the tropics. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,537.	3.3	10
45	Does Marine Surface Tension Have Global Biogeography? Addition for the OCEANFILMS Package. Atmosphere, 2018, 9, 216.	2.3	10
46	Evaluating simplified chemical mechanisms within present-day simulations of the Community Earth System Model version 1.2 with CAM4 (CESM1.2 CAM-chem): MOZART-4 vs. Reduced Hydrocarbon vs. Super-Fast chemistry. Geoscientific Model Development, 2018, 11, 4155-4174.	3.6	9
47	Evaluation of the interactive stratospheric ozone (O3v2) module in the E3SM version 1 Earth system model. Geoscientific Model Development, 2021, 14, 1219-1236.	3.6	9
48	Quantifying CanESM5 and EAMv1 sensitivities to Mt. Pinatubo volcanic forcing for the CMIP6 historical experiment. Geoscientific Model Development, 2020, 13, 4831-4843.	3.6	9
49	Measurements and modeling of contemporary radiocarbon in the stratosphere. Geophysical Research Letters, 2016, 43, 1399-1406.	4.0	8
50	Remotely Sensed Carbonyl Sulfide Constrains Model Estimates of Amazon Primary Productivity. Geophysical Research Letters, 2022, 49, .	4.0	7
51	Jovian atmospheric studies with the Galileo near infrared mapping spectrometer: An update. Advances in Space Research, 1999, 23, 1623-1632.	2.6	6
52	Investigation of Saturns atmosphere by Cassini. Planetary and Space Science, 1998, 46, 1315-1324.	1.7	3
53	Sensitivity of stratospheric dynamics to uncertainty in O₃ production. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8984-8999.	3.3	3
54	A radiative transfer module for calculating photolysis rates and solar heating in climate models: Solar-J v7.5. Geoscientific Model Development, 2017, 10, 2525-2545.	3.6	3

#	Article	IF	Citations
55	Title is missing!. , 2000, 37, 283-297.		2
56	Exploring the Potential of Using Carbonyl Sulfide to Track the Urban Biosphere Signal. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034106.	3.3	2
57	QND measurements using dual ported cavities. Applied Physics B: Lasers and Optics, 1997, 64, 225-233.	2.2	1
58	Correction to â€œMarine methane cycle simulations for the period of early global warmingâ€• Journal of Geophysical Research, 2011, 116, .	3.3	1
59	Description of historical and future projection simulations by the global coupled E3SMv1.0 model as used in CMIP6. Geoscientific Model Development, 2022, 15, 3941-3967.	3.6	1