

# Philip Cameron-Smith

## List of Publications by Year in descending order

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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	Remotely Sensed Carbonyl Sulfide Constrains Model Estimates of Amazon Primary Productivity. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
2	Description of historical and future projection simulations by the global coupled E3SMv1.0 model as used in CMIP6. <i>Geoscientific Model Development</i> , 2022, 15, 3941-3967.	3.6	1
3	Evaluation of the interactive stratospheric ozone (O3v2) module in the E3SM version 1 Earth system model. <i>Geoscientific Model Development</i> , 2021, 14, 1219-1236.	3.6	9
4	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5015-5061.	4.9	54
5	Natural variability contributes to model-satellite differences in tropical tropospheric warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	27
6	Exploring the Potential of Using Carbonyl Sulfide to Track the Urban Biosphere Signal. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034106.	3.3	2
7	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystem-Climate Responses to Historical Changes in Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001766.	3.8	65
8	Historical total ozone radiative forcing derived from CMIP6 simulations. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	44
9	New SOA Treatments Within the Energy Exascale Earth System Model (E3SM): Strong Production and Sinks Govern Atmospheric SOA Distributions and Radiative Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2020MS002266.	3.8	15
10	Quantifying CanESM5 and EAMv1 sensitivities to Mt. Pinatubo volcanic forcing for the CMIP6 historical experiment. <i>Geoscientific Model Development</i> , 2020, 13, 4831-4843.	3.6	9
11	The DOE E3SM Coupled Model Version 1: Description and Results at High Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4095-4146.	3.8	112
12	An Overview of the Atmospheric Component of the Energy Exascale Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2377-2411.	3.8	168
13	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2089-2129.	3.8	404
14	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. <i>Geoscientific Model Development</i> , 2018, 11, 4155-4174.	3.6	9
15	Understanding Cloud and Convective Characteristics in Version 1 of the E3SM Atmosphere Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2618-2644.	3.8	105
16	Does Marine Surface Tension Have Global Biogeography? Addition for the OCEANFILMS Package. <i>Atmosphere</i> , 2018, 9, 216.	2.3	10
17	Influence of dimethyl sulfide on the carbon cycle and biological production. <i>Biogeochemistry</i> , 2018, 138, 49-68.	3.5	35
18	Impacts of Shifts in Phytoplankton Community on Clouds and Climate via the Sulfur Cycle. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1005-1026.	4.9	27

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19	Future global mortality from changes in air pollution attributable to climate change. <i>Nature Climate Change</i> , 2017, 7, 647-651.	18.8	177
20	Bayesian inverse modeling of the atmospheric transport and emissions of a controlled tracer release from a nuclear power plant. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 13521-13543.	4.9	27
21	A radiative transfer module for calculating photolysis rates and solar heating in climate models: Solar-J v7.5. <i>Geoscientific Model Development</i> , 2017, 10, 2525-2545.	3.6	3
22	Impact of meteorological inflow uncertainty on tracer transport and source estimation in urban atmospheres. <i>Atmospheric Environment</i> , 2016, 143, 120-132.	4.1	16
23	DMS role in ENSO cycle in the tropics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 13,537.	3.3	10
24	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9847-9862.	4.9	101
25	Measurements and modeling of contemporary radiocarbon in the stratosphere. <i>Geophysical Research Letters</i> , 2016, 43, 1399-1406.	4.0	8
26	Influence of explicit <i>Phaeocystis</i> parameterizations on the global distribution of marine dimethyl sulfide. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 2158-2177.	3.0	55
27	Use of North American and European air quality networks to evaluate global chemistry climate modeling of surface ozone. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10581-10596.	4.9	50
28	Designing optimal greenhouse gas observing networks that consider performance and cost. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2015, 4, 121-137.	1.6	25
29	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	12.9	1,649
30	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. <i>Environmental Research Letters</i> , 2013, 8, 034005.	5.2	381
31	Identifying human influences on atmospheric temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 26-33.	7.1	117
32	Evaluating transport in the WRF model along the California coast. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1837-1852.	4.9	32
33	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. <i>Geoscientific Model Development</i> , 2013, 6, 179-206.	3.6	388
34	Preindustrial to present-day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5277-5298.	4.9	288
35	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2063-2090.	4.9	570
36	Multi-model mean nitrogen and sulfur deposition from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): evaluation of historical and projected future changes. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7997-8018.	4.9	279

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37	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3063-3085.	4.9	361
38	Impact of transport model errors on the global and regional methane emissions estimated by inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9917-9937.	4.9	68
39	Off-line algorithm for calculation of vertical tracer transport in the troposphere due to deep convection. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1093-1114.	4.9	27
40	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2563-2587.	4.9	257
41	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4057-4072.	4.9	61
42	TransCom model simulations of methane: Comparison of vertical profiles with aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3891-3904.	3.3	24
43	Sensitivity of stratospheric dynamics to uncertainty in O <sub>3</sub> production. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8984-8999.	3.3	3
44	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5029-5060.	3.3	243
45	On the influence of shrub height and expansion on northern high latitude climate. <i>Environmental Research Letters</i> , 2012, 7, 015503.	5.2	140
46	Review of Methane Mitigation Technologies with Application to Rapid Release of Methane from the Arctic. <i>Environmental Science &amp; Technology</i> , 2012, 46, 6455-6469.	10.0	76
47	Global air quality and climate. <i>Chemical Society Reviews</i> , 2012, 41, 6663.	38.1	428
48	Marine methane cycle simulations for the period of early global warming. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	18
49	Changes in dimethyl sulfide oceanic distribution due to climate change. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	69
50	Correction to "Marine methane cycle simulations for the period of early global warming". <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	1
51	TransCom model simulations of CH <sub>4</sub> and related species: linking transport, surface flux and chemical loss with CH <sub>4</sub> variability in the troposphere and lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 12813-12837.	4.9	331
52	Toward an Earth system model: atmospheric chemistry, coupling, and petascale computing. <i>Journal of Physics: Conference Series</i> , 2006, 46, 343-350.	0.4	12
53	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	266
54	Title is missing!. , 2000, 37, 283-297.		2

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55	Jovian atmospheric studies with the Galileo near infrared mapping spectrometer: An update. <i>Advances in Space Research</i> , 1999, 23, 1623-1632.	2.6	6
56	Investigation of Saturns atmosphere by Cassini. <i>Planetary and Space Science</i> , 1998, 46, 1315-1324.	1.7	3
57	Cloud structure and atmospheric composition of Jupiter retrieved from Galileo near-infrared mapping spectrometer real-time spectra. <i>Journal of Geophysical Research</i> , 1998, 103, 23001-23021.	3.3	76
58	QND measurements using dual ported cavities. <i>Applied Physics B: Lasers and Optics</i> , 1997, 64, 225-233.	2.2	1
59	Quantum non-demolition measurements with an optical parametric amplifier. <i>Optics Communications</i> , 1993, 102, 105-110.	2.1	15