

# Sebastian D Eastham

## List of Publications by Citations

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48  
papers

1,034  
citations

16  
h-index

31  
g-index

70  
ext. papers

1,466  
ext. citations

7.8  
avg, IF

4.74  
L-index

#	Paper	IF	Citations
48	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 12239-12271	6.8	160
47	Development and evaluation of the unified tropospheric-stratospheric chemistry extension (UCX) for the global chemistry-transport model GEOS-Chem. <i>Atmospheric Environment</i> , <b>2014</b> , 48, 52-63	5.3	107
46	Premature mortality related to United States cross-state air pollution. <i>Nature</i> , <b>2020</b> , 578, 261-265	50.4	101
45	The role of chlorine in global tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 3981-4003	6.8	96
44	Global, regional and local health impacts of civil aviation emissions. <i>Environmental Research Letters</i> , <b>2015</b> , 10, 034001	6.2	76
43	Impact of the Volkswagen emissions control defeat device on US public health. <i>Environmental Research Letters</i> , <b>2015</b> , 10, 114005	6.2	66
42	Public health impacts of excess NO <sub>x</sub> emissions from Volkswagen diesel passenger vehicles in Germany. <i>Environmental Research Letters</i> , <b>2017</b> , 12, 034014	6.2	41
41	Limits on the ability of global Eulerian models to resolve intercontinental transport of chemical plumes. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 2543-2553	6.8	40
40	Quantifying the impact of sulfate geoengineering on mortality from air quality and UV-B exposure. <i>Atmospheric Environment</i> , <b>2018</b> , 52, 424-434	5.3	29
39	GEOS-Chem High Performance (GCHP v11-02c): a next-generation implementation of the GEOS-Chem chemical transport model for massively parallel applications. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 2941-2953	6.3	27
38	Errors and improvements in the use of archived meteorological data for chemical transport modeling: an analysis using GEOS-Chem v11-01 driven by GEOS-5 meteorology. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 305-319	6.3	27
37	Effect of sea salt aerosol on tropospheric bromine chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 6497-6507	6.8	22
36	Marginal climate and air quality costs of aviation emissions. <i>Environmental Research Letters</i> , <b>2019</b> , 14, 114031	6.2	19
35	Comparison of model estimates of the effects of aviation emissions on atmospheric ozone and methane. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 6004-6009	4.9	19
34	Aviation-attributable ozone as a driver for changes in mortality related to air quality and skin cancer. <i>Atmospheric Environment</i> , <b>2016</b> , 50, 17-23	5.3	18
33	Country- and manufacturer-level attribution of air quality impacts due to excess NO <sub>x</sub> emissions from diesel passenger vehicles in Europe. <i>Atmospheric Environment</i> , <b>2018</b> , 52, 89-97	5.3	17
32	Description and Evaluation of the MIT Earth System Model (MESM). <i>Journal of Advances in Modeling Earth Systems</i> , <b>2018</b> , 10, 1759-1789	7.1	16

31	An intercomparative study of the effects of aircraft emissions on surface air quality. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 8325-8344	4.4	12
30	WRF-GC (v1.0): online coupling of WRF (v3.9.1.1) and GEOS-Chem (v12.2.1) for regional atmospheric chemistry modeling [Part 1: Description of the one-way model. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 3241-3265	6.3	12
29	The importance of vertical resolution in the free troposphere for modeling intercontinental plumes. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 6039-6055	6.8	12
28	Air pollution impacts of COVID-19-related containment measures. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	11
27	Enabling High-Performance Cloud Computing for Earth Science Modeling on Over a Thousand Cores: Application to the GEOS-Chem Atmospheric Chemistry Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2020MS002064	7.1	10
26	The Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA). <i>Bulletin of the American Meteorological Society</i> , <b>2020</b> , 101, E1743-E1760	6.1	10
25	Isotopic ordering in atmospheric O <sub>2</sub> as a tracer of ozone photochemistry and the tropical atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 12,541	4.4	9
24	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13973-13996	6.8	7
23	Enabling Immediate Access to Earth Science Models through Cloud Computing: Application to the GEOS-Chem Model. <i>Bulletin of the American Meteorological Society</i> , <b>2019</b> , 100, 1943-1960	6.1	6
22	Mortality tradeoff between air quality and skin cancer from changes in stratospheric ozone. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 034035	6.2	6
21	Development of the global atmospheric chemistry general circulation model BCC-GEOS-Chem v1.0: model description and evaluation. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 3817-3838	6.3	6
20	Evolution of sectoral emissions and contributions to mortality from particulate matter exposure in the Asia-Pacific region between 2010 and 2015. <i>Atmospheric Environment</i> , <b>2019</b> , 216, 116916	5.3	5
19	Radiation dose to the global flying population. <i>Journal of Radiological Protection</i> , <b>2016</b> , 36, 93-103	1.2	5
18	A novel method for rapid comparative quantitative analysis of nuclear fuel cycles. <i>Annals of Nuclear Energy</i> , <b>2012</b> , 42, 80-88	1.7	5
17	The role of plume-scale processes in long-term impacts of aircraft emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 5697-5727	6.8	3
16	Grid-Stretching Capability for the GEOS-Chem 13.0.0 Atmospheric Chemistry Model		3
15	Reducing Uncertainty in Contrail Radiative Forcing Resulting from Uncertainty in Ice Crystal Properties. <i>Environmental Science and Technology Letters</i> , <b>2020</b> , 7, 371-375	11	3
14	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem 2016		3

13	Impacts of multi-layer overlap on contrail radiative forcing. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 1649-1681	6.8	3
12	Global air quality and health impacts of domestic and international shipping. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 084055	6.2	3
11	Errors and improvements in the use of archived meteorological data for chemical transport modeling <b>2017</b> ,		2
10	Development of the global atmospheric general circulation-chemistry model BCC-GEOS-Chem v1.0: model description and evaluation		2
9	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants		2
8	Harmonized Emissions Component (HEMCO) 3.0 as a versatile emissions component for atmospheric models: application in the GEOS-Chem, NASA GEOS, WRF-GC, CESM2, NOAA GEFS-Aerosol, and NOAA UFS models. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 5487-5506	6.3	2
7	WRF-GC: online coupling of WRF and GEOS-Chem for regional atmospheric chemistry modeling, Part 1: description of the one-way model (v1.0) <b>2020</b> ,		1
6	The role of chlorine in tropospheric chemistry <b>2018</b> ,		1
5	Effect of sea-salt aerosol on tropospheric bromine chemistry <b>2018</b> ,		1
4	Post-combustion emissions control in aero-gas turbine engines. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 916-930	35.4	1
3	Contrail coverage over the United States before and during the COVID-19 pandemic. <i>Environmental Research Letters</i> , <b>2022</b> , 17, 034039	6.2	1
2	Grid-stretching capability for the GEOS-Chem 13.0.0 atmospheric chemistry model. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 5977-5997	6.3	0
1	Identifying the ozone-neutral aircraft cruise altitude. <i>Atmospheric Environment</i> , <b>2022</b> , 276, 119057	5.3	0