

Sebastian D Eastham

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Contrail coverage over the United States before and during the COVID-19 pandemic. <i>Environmental Research Letters</i> , 2022 , 17, 034039 | 6.2 | 1 |
| 47 | Identifying the ozone-neutral aircraft cruise altitude. <i>Atmospheric Environment</i> , 2022 , 276, 119057 | 5.3 | 0 |
| 46 | Grid-stretching capability for the GEOS-Chem 13.0.0 atmospheric chemistry model. <i>Geoscientific Model Development</i> , 2021 , 14, 5977-5997 | 6.3 | 0 |
| 45 | Air pollution impacts of COVID-19-related containment measures. <i>Science Advances</i> , 2021 , 7, | 14.3 | 11 |
| 44 | Impacts of multi-layer overlap on contrail radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1649-1681 | 6.8 | 3 |
| 43 | Global air quality and health impacts of domestic and international shipping. <i>Environmental Research Letters</i> , 2021 , 16, 084055 | 6.2 | 3 |
| 42 | Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 13973-13996 | 6.8 | 7 |
| 41 | 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> , 2021 , 14, 5487-5506 | 6.3 | 2 |
| 40 | Post-combustion emissions control in aero-gas turbine engines. <i>Energy and Environmental Science</i> , 2021 , 14, 916-930 | 35.4 | 1 |
| 39 | The role of plume-scale processes in long-term impacts of aircraft emissions. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 5697-5727 | 6.8 | 3 |
| 38 | Premature mortality related to United States cross-state air pollution. <i>Nature</i> , 2020 , 578, 261-265 | 50.4 | 101 |
| 37 | WRF-GC: online coupling of WRF and GEOS-Chem for regional atmospheric chemistry modeling, Part 1: description of the one-way model (v1.0) 2020 , | | 1 |
| 36 | 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> , 2020 , 12, e2020MS002064 | 7.1 | 10 |
| 35 | The Multi-Scale Infrastructure for Chemistry and Aerosols (MUSICA). <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1743-E1760 | 6.1 | 10 |
| 34 | 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> , 2020 , 13, 3241-3265 | 6.3 | 12 |
| 33 | Development of the global atmospheric chemistry general circulation model BCC-GEOS-Chem v1.0: model description and evaluation. <i>Geoscientific Model Development</i> , 2020 , 13, 3817-3838 | 6.3 | 6 |
| 32 | Reducing Uncertainty in Contrail Radiative Forcing Resulting from Uncertainty in Ice Crystal Properties. <i>Environmental Science and Technology Letters</i> , 2020 , 7, 371-375 | 11 | 3 |

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| 31 | 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> , 2019 , 216, 116916 | 5.3 | 5 |
| 30 | Enabling Immediate Access to Earth Science Models through Cloud Computing: Application to the GEOS-Chem Model. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1943-1960 | 6.1 | 6 |
| 29 | Effect of sea salt aerosol on tropospheric bromine chemistry. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 6497-6507 | 6.8 | 22 |
| 28 | The role of chlorine in global tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 3981-4003 | 6.8 | 96 |
| 27 | Marginal climate and air quality costs of aviation emissions. <i>Environmental Research Letters</i> , 2019 , 14, 114031 | 6.2 | 19 |
| 26 | Mortality tradeoff between air quality and skin cancer from changes in stratospheric ozone. <i>Environmental Research Letters</i> , 2018 , 13, 034035 | 6.2 | 6 |
| 25 | Country- and manufacturer-level attribution of air quality impacts due to excess NO _x emissions from diesel passenger vehicles in Europe. <i>Atmospheric Environment</i> , 2018 , 189, 89-97 | 5.3 | 17 |
| 24 | Description and Evaluation of the MIT Earth System Model (MESM). <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 1759-1789 | 7.1 | 16 |
| 23 | 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> , 2018 , 11, 2941-2953 | 6.3 | 27 |
| 22 | The importance of vertical resolution in the free troposphere for modeling intercontinental plumes. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6039-6055 | 6.8 | 12 |
| 21 | The role of chlorine in tropospheric chemistry 2018 , | | 1 |
| 20 | Effect of sea-salt aerosol on tropospheric bromine chemistry 2018 , | | 1 |
| 19 | Quantifying the impact of sulfate geoengineering on mortality from air quality and UV-B exposure. <i>Atmospheric Environment</i> , 2018 , 187, 424-434 | 5.3 | 29 |
| 18 | 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> , 2018 , 11, 305-319 | 6.3 | 27 |
| 17 | Public health impacts of excess NO _x emissions from Volkswagen diesel passenger vehicles in Germany. <i>Environmental Research Letters</i> , 2017 , 12, 034014 | 6.2 | 41 |
| 16 | Errors and improvements in the use of archived meteorological data for chemical transport modeling 2017 , | | 2 |
| 15 | An intercomparative study of the effects of aircraft emissions on surface air quality. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8325-8344 | 4.4 | 12 |
| 14 | Limits on the ability of global Eulerian models to resolve intercontinental transport of chemical plumes. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2543-2553 | 6.8 | 40 |

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| 13 | Isotopic ordering in atmospheric O ₂ as a tracer of ozone photochemistry and the tropical atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,541 | 4.4 | 9 |
| 12 | Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12239-12271 | 6.8 | 160 |
| 11 | Radiation dose to the global flying population. <i>Journal of Radiological Protection</i> , 2016 , 36, 93-103 | 1.2 | 5 |
| 10 | Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem 2016 | | 3 |
| 9 | Aviation-attributable ozone as a driver for changes in mortality related to air quality and skin cancer. <i>Atmospheric Environment</i> , 2016 , 144, 17-23 | 5.3 | 18 |
| 8 | Global, regional and local health impacts of civil aviation emissions. <i>Environmental Research Letters</i> , 2015 , 10, 034001 | 6.2 | 76 |
| 7 | Impact of the Volkswagen emissions control defeat device on US public health. <i>Environmental Research Letters</i> , 2015 , 10, 114005 | 6.2 | 66 |
| 6 | Development and evaluation of the unified tropospheric-stratospheric chemistry extension (UCX) for the global chemistry-transport model GEOS-Chem. <i>Atmospheric Environment</i> , 2014 , 89, 52-63 | 5.3 | 107 |
| 5 | Comparison of model estimates of the effects of aviation emissions on atmospheric ozone and methane. <i>Geophysical Research Letters</i> , 2013 , 40, 6004-6009 | 4.9 | 19 |
| 4 | A novel method for rapid comparative quantitative analysis of nuclear fuel cycles. <i>Annals of Nuclear Energy</i> , 2012 , 42, 80-88 | 1.7 | 5 |
| 3 | Development of the global atmospheric general circulation-chemistry model BCC-GEOS-Chem v1.0: model description and evaluation | | 2 |
| 2 | Grid-Stretching Capability for the GEOS-Chem 13.0.0 Atmospheric Chemistry Model | | 3 |
| 1 | Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants | | 2 |