

Susanne Bauer

List of Publications by Year in descending order

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67
papers

7,353
citations

71061

41
h-index

98753

67
g-index

127
all docs

127
docs citations

127
times ranked

7974
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change penalty and benefit on surface ozone: a global perspective based on CMIP6 earth system models. <i>Environmental Research Letters</i> , 2022, 17, 024014.	2.2	27
2	Future Climate Change Under SSP Emission Scenarios With GISS-E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	22
3	Changes in anthropogenic precursor emissions drive shifts in the ozone seasonal cycle throughout the northern midlatitude troposphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3507-3524.	1.9	10
4	Attribution of Stratospheric and Tropospheric Ozone Changes Between 1850 and 2014 in CMIP6 Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	5
5	CMIP6 Historical Simulations (1850–2014) With GISS-E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2019MS002034.	1.3	49
6	AeroCom phase III multi-model evaluation of the aerosol life cycle and optical properties using ground- and space-based remote sensing as well as surface in situ observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 87-128.	1.9	96
7	Effective radiative forcing from emissions of reactive gases and aerosols – a multi-model comparison. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 853-874.	1.9	65
8	An overview of the ORACLES (ObseRvations of Aerosols above CLouds and their intEractionS) project: aerosol–cloud–radiation interactions in the southeast Atlantic basin. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1507-1563.	1.9	97
9	Reductions in NO ₂ burden over north equatorial Africa from decline in biomass burning in spite of growing fossil fuel use, 2005 to 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	22
10	Intercomparison of the representations of the atmospheric chemistry of pre-industrial methane and ozone in earth system and other global chemistry-transport models. <i>Atmospheric Environment</i> , 2021, 248, 118248.	1.9	5
11	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021, 12, 253-293.	2.7	236
12	Investigations on the anthropogenic reversal of the natural ozone gradient between northern and southern midlatitudes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9669-9679.	1.9	8
13	Continental and Ecoregion-specific Drivers of Atmospheric NO ₂ and NH ₃ Seasonality Over Africa Revealed by Satellite Observations. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006916.	1.9	5
14	Understanding Top-of-Atmosphere Flux Bias in the AeroCom Phase III Models: A Clear-Sky Perspective. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002584.	1.3	4
15	Climate-driven chemistry and aerosol feedbacks in CMIP6 Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1105-1126.	1.9	39
16	Aerosol absorption in global models from AeroCom phase III. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15929-15947.	1.9	27
17	Changes in biomass burning, wetland extent, or agriculture drive atmospheric NH ₃ trends in select African regions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16277-16291.	1.9	3
18	Changes in satellite retrievals of atmospheric composition over eastern China during the 2020 COVID-19 lockdowns. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18333-18350.	1.9	8

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19	Reappraisal of the Climate Impacts of Ozone-Depleting Substances. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088295.	1.5	16
20	Fast responses on pre-industrial climate from present-day aerosols in a CMIP6 multi-model study. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8381-8404.	1.9	18
21	Historical (1850–2014) Aerosol Evolution and Role on Climate Forcing Using the GISS ModelE2.1 Contribution to CMIP6. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001978.	1.3	69
22	GISS ModelE2.1: Configurations and Climatology. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002025.	1.3	234
23	Black Carbon and Precipitation: An Energetics Perspective. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032239.	1.2	8
24	Historical and future changes in air pollutants from CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14547-14579.	1.9	105
25	Bias in CMIP6 models as compared to observed regional dimming and brightening. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 16023-16040.	1.9	25
26	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9641-9663.	1.9	30
27	The interactive global fire module pyrE (v1.0). <i>Geoscientific Model Development</i> , 2020, 13, 3091-3118.	1.3	1
28	Evaluation of global simulations of aerosol particle and cloud condensation nuclei number, with implications for cloud droplet formation. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8591-8617.	1.9	60
29	Desert Dust, Industrialization, and Agricultural Fires: Health Impacts of Outdoor Air Pollution in Africa. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 4104-4120.	1.2	89
30	Asian and Trans-Pacific Dust: A Multimodel and Multiremote Sensing Observation Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13534-13559.	1.2	24
31	Climate Impacts From a Removal of Anthropogenic Aerosol Emissions. <i>Geophysical Research Letters</i> , 2018, 45, 1020-1029.	1.5	160
32	Can semi-volatile organic aerosols lead to fewer cloud particles?. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14243-14251.	1.9	1
33	Aerosols at the poles: an AeroCom Phase II multi-model evaluation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12197-12218.	1.9	58
34	Investigation of global particulate nitrate from the AeroCom phase III experiment. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12911-12940.	1.9	99
35	MATRIX-VBS (v1.0): implementing an evolving organic aerosol volatility in an aerosol microphysics model. <i>Geoscientific Model Development</i> , 2017, 10, 751-764.	1.3	8
36	The Model Intercomparison Project on the climatic response to Volcanic forcing (VolMIP): experimental design and forcing input data for CMIP6. <i>Geoscientific Model Development</i> , 2016, 9, 2701-2719.	1.3	138

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37	Evaluation of the aerosol vertical distribution in global aerosol models through comparison against CALIOP measurements: AeroCom phase II results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 7254-7283.	1.2	80
38	Role of atmospheric chemistry in the climate impacts of stratospheric volcanic injections. <i>Nature Geoscience</i> , 2016, 9, 652-655.	5.4	61
39	Black carbon absorption at the global scale is affected by particle-scale diversity in composition. <i>Nature Communications</i> , 2016, 7, 12361.	5.8	97
40	Evaluating secondary inorganic aerosols in three dimensions. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10651-10669.	1.9	17
41	Evaluation of observed and modelled aerosol lifetimes using radioactive tracers of opportunity and an ensemble of 19 global models. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 3525-3561.	1.9	75
42	What controls the vertical distribution of aerosol? Relationships between process sensitivity in HadGEM3-UKCA and inter-model variation from AeroCom Phase II. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2221-2241.	1.9	82
43	Significant atmospheric aerosol pollution caused by world food cultivation. <i>Geophysical Research Letters</i> , 2016, 43, 5394-5400.	1.5	155
44	CMIP5 historical simulations (1850-2012) with GISS ModelE2. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 441-478.	1.3	133
45	Configuration and assessment of the GISS ModelE2 contributions to the CMIP5 archive. <i>Journal of Advances in Modeling Earth Systems</i> , 2014, 6, 141-184.	1.3	597
46	Sources, sinks, and transatlantic transport of North African dust aerosol: A multimodel analysis and comparison with remote sensing data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6259-6277.	1.2	88
47	The AeroCom evaluation and intercomparison of organic aerosol in global models. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10845-10895.	1.9	363
48	Modelled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12465-12477.	1.9	157
49	An AeroCom assessment of black carbon in Arctic snow and sea ice. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2399-2417.	1.9	86
50	Near-surface meteorology during the Arctic Summer Cloud Ocean Study (ASCOS): evaluation of reanalyses and global climate models. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 427-445.	1.9	41
51	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4679-4713.	1.9	148
52	Evaluation of aerosol-cloud interaction in the GISS ModelE using ARM observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6383-6395.	1.2	6
53	Evaluation of aerosol mixing state classes in the GISS modelE-MATRIX climate model using single-particle mass spectrometry measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9834-9844.	1.2	42
54	Historical and future black carbon deposition on the three ice caps: Ice core measurements and model simulations from 1850 to 2100. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7948-7961.	1.2	65

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55	Aerosol direct, indirect, semidirect, and surface albedo effects from sector contributions based on the IPCC AR5 emissions for preindustrial and present-day conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	80
56	Application of the CALIOP layer product to evaluate the vertical distribution of aerosols estimated by global models: AeroCom phase I results. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	170
57	Soot microphysical effects on liquid clouds, a multi-model investigation. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1051-1064.	1.9	58
58	Coupled Aerosol-Chemistryâ€“Climate Twentieth-Century Transient Model Investigation: Trends in Short-Lived Species and Climate Responses. <i>Journal of Climate</i> , 2011, 24, 2693-2714.	1.2	98
59	A global modeling study on carbonaceous aerosol microphysical characteristics and radiative effects. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7439-7456.	1.9	143
60	MATRIX (Multiconfiguration Aerosol TRacker of mIXing state): an aerosol microphysical module for global atmospheric models. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6003-6035.	1.9	166
61	Nitrate aerosols today and in 2030: a global simulation including aerosols and tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 5043-5059.	1.9	238
62	Do sulfate and nitrate coatings on mineral dust have important effects on radiative properties and climate modeling?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	99
63	An AeroCom initial assessment â€“ optical properties in aerosol component modules of global models. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1815-1834.	1.9	697
64	Simulations of preindustrial, present-day, and 2100 conditions in the NASA GISS composition and climate model G-PUCCINI. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4427-4459.	1.9	149
65	Present-Day Atmospheric Simulations Using GISS ModelE: Comparison to In Situ, Satellite, and Reanalysis Data. <i>Journal of Climate</i> , 2006, 19, 153-192.	1.2	832
66	Impact of heterogeneous sulfate formation at mineral dust surfaces on aerosol loads and radiative forcing in the Goddard Institute for Space Studies general circulation model. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	116
67	Global modeling of heterogeneous chemistry on mineral aerosol surfaces: Influence on tropospheric ozone chemistry and comparison to observations. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	231