

Hailong Wang

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154
papers

5,224
citations

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h-index

67
g-index

193
ext. papers

6,539
ext. citations

6.6
avg, IF

5.76
L-index

#	Paper	IF	Citations
154	Short-term modulation of Indian summer monsoon rainfall by West Asian dust. <i>Nature Geoscience</i> , 2014 , 7, 308-313	18.3	244
153	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	7.1	217
152	Description and evaluation of a new four-mode version of the Modal Aerosol Module (MAM4) within version 5.3 of the Community Atmosphere Model. <i>Geoscientific Model Development</i> , 2016 , 9, 505-522	6.2	179
151	Light-absorbing particles in snow and ice: Measurement and modeling of climatic and hydrological impact. <i>Advances in Atmospheric Sciences</i> , 2015 , 32, 64-91	2.9	168
150	Modeling Mesoscale Cellular Structures and Drizzle in Marine Stratocumulus. Part I: Impact of Drizzle on the Formation and Evolution of Open Cells. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 3237-3256	2.1	160
149	Climate response of the South Asian monsoon system to anthropogenic aerosols. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		150
148	Precipitation-generated oscillations in open cellular cloud fields. <i>Nature</i> , 2010 , 466, 849-52	50.4	141
147	Sensitivity of remote aerosol distributions to representation of cloud-aerosol interactions in a global climate model. <i>Geoscientific Model Development</i> , 2013 , 6, 765-782	6.3	134
146	Modeling Mesoscale Cellular Structures and Drizzle in Marine Stratocumulus. Part II: The Microphysics and Dynamics of the Boundary Region between Open and Closed Cells. <i>Journals of the Atmospheric Sciences</i> , 2009 , 66, 3257-3275	2.1	101
145	Challenges in constraining anthropogenic aerosol effects on cloud radiative forcing using present-day spatiotemporal variability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5804-11	11.5	97
144	Marine cloud brightening. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 4217-62	3	97
143	Fast and slow responses of the South Asian monsoon system to anthropogenic aerosols. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	95
142	Quantifying sources, transport, deposition, and radiative forcing of black carbon over the Himalayas and Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6205-6223	6.8	92
141	Uncertainty quantification and parameter tuning in the CAM5 Zhang-McFarlane convection scheme and impact of improved convection on the global circulation and climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 395-415	4.4	89
140	Evaluation of Scalar Advection Schemes in the Advanced Research WRF Model Using Large-Eddy Simulations of Aerosol-Cloud Interactions. <i>Monthly Weather Review</i> , 2009 , 137, 2547-2558	2.4	88
139	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	7.1	85
138	The Geoengineering Model Intercomparison Project Phase 6 (GeoMIP6): simulation design and preliminary results. <i>Geoscientific Model Development</i> , 2015 , 8, 3379-3392	6.3	85

137	Assessing regional scale predictions of aerosols, marine stratocumulus, and their interactions during VOCALS-REx using WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11951-11975	6.8	85
136	Urbanization-induced urban heat island and aerosol effects on climate extremes in the Yangtze River Delta region of China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5439-5457	6.8	82
135	Simulating black carbon and dust and their radiative forcing in seasonal snow: a case study over North China with field campaign measurements. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11475-11491	6.8	81
134	Modelling microphysical and meteorological controls on precipitation and cloud cellular structures in Southeast Pacific stratocumulus. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6347-6362	6.8	80
133	Using an explicit emission tagging method in global modeling of source-receptor relationships for black carbon in the Arctic: Variations, sources, and transport pathways. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,888	4.4	72
132	Geoengineering as a design problem. <i>Earth System Dynamics</i> , 2016 , 7, 469-497	4.8	70
131	Mesoscale modeling study of the interactions between aerosols and PBL meteorology during a haze episode in JingJinJi (China) and its nearby surrounding region [Part 1: Aerosol distributions and meteorological features. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 3257-3275	6.8	65
130	Parametric sensitivity analysis of precipitation at global and local scales in the Community Atmosphere Model CAM5. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 382-411	7.1	64
129	Modeling chemical and aerosol processes in the transition from closed to open cells during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7491-7514	6.8	63
128	Manipulating marine stratocumulus cloud amount and albedo: a process-modelling study of aerosol-cloud-precipitation interactions in response to injection of cloud condensation nuclei. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4237-4249	6.8	61
127	Evaluation of cloud fraction and its radiative effect simulated by IPCC AR4 global models against ARM surface observations. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1785-1810	6.8	60
126	Carbonaceous aerosols recorded in a southeastern Tibetan glacier: analysis of temporal variations and model estimates of sources and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 1191-1204	6.8	59
125	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	6.8	58
124	Constraining the instantaneous aerosol influence on cloud albedo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4899-4904	11.5	57
123	A sensitivity study on modeling black carbon in snow and its radiative forcing over the Arctic and Northern China. <i>Environmental Research Letters</i> , 2014 , 9, 064001	6.2	56
122	The role of circulation features on black carbon transport into the Arctic in the Community Atmosphere Model version 5 (CAM5). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4657-4669	4.4	56
121	A sensitivity study of radiative fluxes at the top of atmosphere to cloud-microphysics and aerosol parameters in the community atmosphere model CAM5. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10969-10987	6.8	55
120	Source attribution of black carbon and its direct radiative forcing in China. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 4319-4336	6.8	54

119	The roles of cloud drop effective radius and LWP in determining rain properties in marine stratocumulus. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	54
118	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	7.1	54
117	On the characteristics of aerosol indirect effect based on dynamic regimes in global climate models. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 2765-2783	6.8	52
116	A review of black carbon in snow and ice and its impact on the cryosphere. <i>Earth-Science Reviews</i> , 2020 , 210, 103346	10.2	52
115	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	7.1	50
114	Biomass burning aerosol transport and vertical distribution over the South African-Atlantic region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 6391-6415	4.4	46
113	How does increasing horizontal resolution in a global climate model improve the simulation of aerosol-cloud interactions?. <i>Geophysical Research Letters</i> , 2015 , 42, 5058-5065	4.9	46
112	Effects of aerosols on trade wind cumuli over the Indian Ocean: Model simulations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006 , 132, 821-843	6.4	45
111	Aerosol transport and wet scavenging in deep convective clouds: A case study and model evaluation using a multiple passive tracer analysis approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 8448-8468	4.4	44
110	A comprehensive numerical study of aerosol-cloud-precipitation interactions in marine stratocumulus. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9749-9769	6.8	43
109	Black Carbon Amplifies Haze Over the North China Plain by Weakening the East Asian Winter Monsoon. <i>Geophysical Research Letters</i> , 2019 , 46, 452-460	4.9	41
108	Recent intensification of winter haze in China linked to foreign emissions and meteorology. <i>Scientific Reports</i> , 2018 , 8, 2107	4.9	39
107	Global source attribution of sulfate concentration and direct and indirect radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 8903-8922	6.8	38
106	Seasonal variation and light absorption property of carbonaceous aerosol in a typical glacier region of the southeastern Tibetan Plateau. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6441-6460	6.8	36
105	Impact of natural and anthropogenic aerosols on stratocumulus and precipitation in the Southeast Pacific: a regional modelling study using WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8777-8796	6.8	36
104	Parametric Sensitivity and Uncertainty Quantification in the Version 1 of E3SM Atmosphere Model Based on Short Perturbed Parameter Ensemble Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,046	4.4	34
103	Two distinct patterns of seasonal variation of airborne black carbon over Tibetan Plateau. <i>Science of the Total Environment</i> , 2016 , 573, 1041-1052	10.2	32
102	Seasonality of global and Arctic black carbon processes in the Arctic Monitoring and Assessment Programme models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 7100-7116	4.4	31

101	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	6.8	31
100	Sea spray geoengineering experiments in the geoengineering model intercomparison project (GeoMIP): Experimental design and preliminary results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,175-11,186	4.4	29
99	Fast Climate Responses to Aerosol Emission Reductions During the COVID-19 Pandemic. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089788	4.9	29
98	Unraveling driving forces explaining significant reduction in satellite-inferred Arctic surface albedo since the 1980s. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23947-23953	11.5	29
97	Sulfate Aerosol in the Arctic: Source Attribution and Radiative Forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 1899-1918	4.4	28
96	Aerosols in the E3SM Version 1: New Developments and Their Impacts on Radiative Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001851	7.1	27
95	AEROSOL-CLOUD-METEOROLOGY INTERACTION AIRBORNE FIELD INVESTIGATIONS: Using Lessons Learned from the U.S. West Coast in the Design of ACTIVATE off the U.S. East Coast. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1511-1528	6.1	26
94	Source Apportionments of Aerosols and Their Direct Radiative Forcing and Long-Term Trends Over Continental United States. <i>Earth's Future</i> , 2018 , 6, 793-808	7.9	26
93	Century-long record of black carbon in an ice core from the Eastern Pamirs: Estimated contributions from biomass burning. <i>Atmospheric Environment</i> , 2015 , 115, 79-88	5.3	26
92	Urbanization Effect on Winter Haze in the Yangtze River Delta Region of China. <i>Geophysical Research Letters</i> , 2018 , 45, 6710-6718	4.9	26
91	Basin-scale heterogeneity in Antarctic precipitation and its impact on surface mass variability. <i>Cryosphere</i> , 2017 , 11, 2595-2609	5.5	25
90	Local Atmospheric Response to an Open-Ocean Polynya in a High-Resolution Climate Model. <i>Journal of Climate</i> , 2017 , 30, 1629-1641	4.4	24
89	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	7.1	24
88	Variability, timescales, and nonlinearity in climate responses to black carbon emissions. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 2405-2420	6.8	23
87	Impact of numerical choices on water conservation in the E3SM Atmosphere Model version 1 (EAMv1). <i>Geoscientific Model Development</i> , 2018 , 11, 1971-1988	6.3	23
86	Impact of light-absorbing particles on snow albedo darkening and associated radiative forcing over high-mountain Asia: high-resolution WRF-Chem modeling and new satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 7105-7128	6.8	22
85	Impacts of Aerosol Dry Deposition on Black Carbon Spatial Distributions and Radiative Effects in the Community Atmosphere Model CAM5. <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 1150-1171	7.1	21
84	On the interaction between marine boundary layer cellular cloudiness and surface heat fluxes. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 61-79	6.8	21

83	Surprising similarities in model and observational aerosol radiative forcing estimates. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 613-623	6.8	20
82	Characteristic Vertical Profiles of Cloud Water Composition in Marine Stratocumulus Clouds and Relationships With Precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 3704-3723	4.4	20
81	Understanding processes that control dust spatial distributions with global climate models and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13835-13855	6.8	20
80	Source attribution of Arctic black carbon and sulfate aerosols and associated Arctic surface warming during 1980-2018. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9067-9085	6.8	20
79	Atmospheric Research Over the Western North Atlantic Ocean Region and North American East Coast: A Review of Past Work and Challenges Ahead. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031626	4.4	19
78	The Climate Response to Emissions Reductions Due to COVID-19: Initial Results From CovidMIP. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091883	4.9	19
77	Climatic Responses to Future Trans-Arctic Shipping. <i>Geophysical Research Letters</i> , 2018 , 45, 9898-9908	4.9	19
76	Seasonal variations and sources of atmospheric polycyclic aromatic hydrocarbons and organochlorine compounds in a high-altitude city: Evidence from four-year observations. <i>Environmental Pollution</i> , 2018 , 233, 1188-1197	9.3	18
75	Trade wind cumuli statistics in clean and polluted air over the Indian Ocean from in situ and remote sensing measurements. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	18
74	Local Radiative Feedbacks Over the Arctic Based on Observed Short-Term Climate Variations. <i>Geophysical Research Letters</i> , 2018 , 45, 5761-5770	4.9	16
73	A new approach to modeling aerosol effects on East Asian climate: Parametric uncertainties associated with emissions, cloud microphysics, and their interactions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 8905-8924	4.4	16
72	The efficacy of aerosol-cloud radiative perturbations from near-surface emissions in deep open-cell stratocumuli. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 17475-17488	6.8	16
71	Trans-Himalayan Transport of Organochlorine Compounds: Three-Year Observations and Model-Based Flux Estimation. <i>Environmental Science & Technology</i> , 2019 , 53, 6773-6783	10.3	15
70	Interannual variability and trends of combustion aerosol and dust in major continental outflows revealed by MODIS retrievals and CAM5 simulations during 2003-2017. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 139-161	6.8	15
69	Impacts of ENSO events on cloud radiative effects in preindustrial conditions: Changes in cloud fraction and their dependence on interactive aerosol emissions and concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6321-6335	4.4	15
68	Process-model simulations of cloud albedo enhancement by aerosols in the Arctic. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372,	3	15
67	Atmospheric teleconnection processes linking winter air stagnation and haze extremes in China with regional Arctic sea ice decline. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4999-5017	6.8	14
66	Light-absorbing impurities accelerating glacial melting in southeastern Tibetan Plateau. <i>Environmental Pollution</i> , 2020 , 257, 113541	9.3	14

65	Quantifying sources of black carbon in western North America using observationally based analysis and an emission tagging technique in the Community Atmosphere Model. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12805-12822	6.8	12
64	The climate effects of increasing ocean albedo: an idealized representation of solar geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13097-13113	6.8	11
63	Impact of Anthropogenic Emission Injection Height Uncertainty on Global Sulfur Dioxide and Aerosol Distribution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 4812-4826	4.4	10
62	Trends and source apportionment of aerosols in Europe during 1980-2018. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2579-2590	6.8	10
61	Influence of sea-ice anomalies on Antarctic precipitation using source attribution in the Community Earth System Model. <i>Cryosphere</i> , 2020 , 14, 429-444	5.5	9
60	Modeling aerosol effects on shallow cumulus convection under various meteorological conditions observed over the Indian Ocean and implications for development of mass-flux parameterizations for climate models. <i>Journal of Geophysical Research</i> , 2008 , 113,		9
59	Constructing a spatiotemporally coherent long-term PM concentration dataset over China during 1980-2019 using a machine learning approach. <i>Science of the Total Environment</i> , 2021 , 765, 144263	10.2	9
58	Black Carbon Increases Frequency of Extreme ENSO Events. <i>Journal of Climate</i> , 2019 , 32, 8323-8333	4.4	8
57	Using the Atmospheric Radiation Measurement (ARM) Datasets to Evaluate Climate Models in Simulating Diurnal and Seasonal Variations of Tropical Clouds. <i>Journal of Climate</i> , 2018 , 31, 3301-3325	4.4	8
56	Impact of subgrid-scale radiative heating variability on the stratocumulus-to-trade cumulus transition in climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4192-4203	4.4	8
55	Modifications to WRF's dynamical core to improve the treatment of moisture for large-eddy simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 1627-1642	7.1	8
54	Tracking Moisture Sources of Precipitation over Central Asia: A Study Based on the Water-Source-Tagging Method. <i>Journal of Climate</i> , 2020 , 33, 10339-10355	4.4	8
53	An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coast Part 2: Circulation, Boundary Layer, and Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033423	4.4	8
52	Development and Evaluation of Chemistry-Aerosol-Climate Model CAM5-Chem-MAM7-MOSAIC: Global Atmospheric Distribution and Radiative Effects of Nitrate Aerosol. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002346	7.1	8
51	OCEANFILMS sea-spray organic aerosol emissions Part 1: implementation and impacts on clouds 2018 ,		8
50	The Geoengineering Model Intercomparison Project Phase 6 (GeoMIP6): simulation design and preliminary results		7
49	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	7.1	7
48	Assessing Global and Local Radiative Feedbacks Based on AGCM Simulations for 1980-2014/2017. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088063	4.9	6

47	The role of carbonaceous aerosols on short-term variations of precipitation over North Africa. <i>Atmospheric Science Letters</i> , 2016 , 17, 407-414	2.4	6
46	Large-eddy simulations of the diurnal cycle of shallow convection and cloudiness over the tropical Indian Ocean. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008 , 134, 643-661	6.4	6
45	Intensified modulation of winter aerosol pollution in China by El Niño with short duration. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 10745-10761	6.8	6
44	An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coast - Part 1: Analysis of Aerosols, Gases, and Wet Deposition Chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD032592	4.4	6
43	E3SMv0-HiLAT: A Modified Climate System Model Targeted for the Study of High-Latitude Processes. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2814-2843	7.1	5
42	Sensitivity of remote aerosol distributions to representation of cloud-aerosol interactions in a global climate model 2013 ,		5
41	Manipulating marine stratocumulus cloud amount and albedo: a process-modelling study of aerosol-cloud-precipitation interactions in response to injection of cloud condensation nuclei		5
40	Carbonaceous aerosols recorded in a Southeastern Tibetan glacier: variations, sources and radiative forcing		5
39	Simulated aging processes of black carbon and its impact during a severe winter haze event in the Beijing-Tianjin-Hebei region. <i>Science of the Total Environment</i> , 2021 , 755, 142712	10.2	5
38	Assessing regional scale predictions of aerosols, marine stratocumulus, and their interactions during VOCALS-REx using WRF-Chem		4
37	Impact of natural and anthropogenic aerosols on stratocumulus and precipitation in the Southeast Pacific: a regional modelling study using WRF-Chem		4
36	Abrupt emissions reductions during COVID-19 contributed to record summer rainfall in China.. <i>Nature Communications</i> , 2022 , 13, 959	17.4	4
35	OCEANFILMS (Organic Compounds from Ecosystems to Aerosols: Natural Films and Interfaces via Langmuir Molecular Surfactants) sea spray organic aerosol emissions Implementation in a global climate model and impacts on clouds. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 5223-5251	6.8	4
34	Surprising similarities in model and observational aerosol radiative forcing estimates 2019 ,		3
33	Investigating the Linear Dependence of Direct and Indirect Radiative Forcing on Emission of Carbonaceous Aerosols in a Global Climate Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 1657-1672	4.4	3
32	Technical note: Simultaneous fully dynamic characterization of multiple input-output relationships in climate models. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2525-2541	6.8	3
31	A sensitivity study of radiative fluxes at the top of atmosphere to cloud-microphysics and aerosol parameters in the Community Atmosphere Model CAM5		3
30	On the characteristics of aerosol indirect effect based on dynamic regimes in global climate models		3

29	Evaluation of observed and modelled aerosol lifetimes using radioactive tracers of opportunity and an ensemble of 19 global models		3
28	Aerosol transport pathways and source attribution in China during the COVID-19 outbreak. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 15431-15445	6.8	3
27	Cloud drop number concentrations over the western North Atlantic Ocean: seasonal cycle, aerosol interrelationships, and other influential factors. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 10499-10526	6.8	3
26	Radiative Forcing of Nitrate Aerosols From 1975 to 2010 as Simulated by MOSAIC Module in CESM2-MAM4. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034809	4.4	3
25	Trends and source apportionment of aerosols in Europe during 1980-2018 2019 ,		2
24	Chemical and aerosol processes in the transition from closed to open cells during VOCALS-REx		2
23	Quantifying sources, transport, deposition and radiative forcing of black carbon over the Himalayas and Tibetan Plateau		2
22	Geoengineering as a design problem		2
21	Description and evaluation of a new 4-mode version of Modal Aerosol Module (MAM4) within version 5.3 of the Community Atmosphere Model		2
20	Increasing large wildfires over the western United States linked to diminishing sea ice in the Arctic. <i>Nature Communications</i> , 2021 , 12, 6048	17.4	2
19	Black carbon deposited in Hariqin Glacier of the Central Tibetan Plateau record changes in the emission from Eurasia. <i>Environmental Pollution</i> , 2020 , 273, 115778	9.3	2
18	Impact of light-absorbing particles on snow albedo darkening and associated radiative forcing over High Mountain Asia: High resolution WRF-Chem modeling and new satellite observations 2018 ,		2
17	Understanding the Cold Season Arctic Surface Warming Trend in Recent Decades. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094878	4.9	2
16	On Assessing ERA5 and MERRA2 Representations of Cold-Air Outbreaks Across the Gulf Stream. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094364	4.9	2
15	Impact of numerical choices on water conservation in the E3SM Atmosphere Model Version 1 (EAM V1) 2017 ,		1
14	Aerosol responses to precipitation along North American air trajectories arriving at Bermuda. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 16121-16141	6.8	1
13	A comprehensive numerical study of aerosol-cloud-precipitation interactions in marine stratocumulus		1
12	Large-eddy simulations of marine boundary-layer clouds associated with cold air outbreaks during the ACTIVATE campaign Part 1: Case setup and sensitivities to large-scale forcings. <i>Journals of the Atmospheric Sciences</i> , 2021 ,	2.1	1

11	The influence of fire aerosols on surface climate and gross primary production in the Energy Exascale Earth System Model (E3SM). <i>Journal of Climate</i> , 2021 , 1-60	4.4	1
10	Development and Evaluation of an Explicit Treatment of Aerosol Processes at Cloud Scale Within a Multi-Scale Modeling Framework (MMF). <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 1663-1679	7.1	1
9	Variability, timescales, and non-linearity in climate responses to black carbon emissions 2018 ,		1
8	ENSO modulation of summertime tropospheric ozone over China. <i>Environmental Research Letters</i> , 2022 , 17, 034020	6.2	1
7	Projected Aerosol Changes Driven by Emissions and Climate Change Using a Machine Learning Method.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	1
6	Atmospheric Circulation Patterns Conducive to Severe Haze in Eastern China Have Shifted Under Climate Change. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095011	4.9	0
5	Better calibration of cloud parameterizations and subgrid effects increases the fidelity of the E3SM Atmosphere Model version 1. <i>Geoscientific Model Development</i> , 2022 , 15, 2881-2916	6.3	0
4	Fast climate responses to emission reductions in aerosol and ozone precursors in China during 2013-2017. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 7131-7142	6.8	0
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