

Hailong Wang

List of Publications by Year in descending order

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138
papers

7,845
citations

41323

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64755

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193
all docs

193
docs citations

193
times ranked

6729
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.3	404
2	Short-term modulation of Indian summer monsoon rainfall by West Asian dust. <i>Nature Geoscience</i> , 2014, 7, 308-313.	5.4	324
3	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.	1.3	313
4	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.	1.9	223
5	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.	0.6	206
6	Climate response of the South Asian monsoon system to anthropogenic aerosols. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	173
7	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.	1.3	169
8	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.	1.3	168
9	Precipitation-generated oscillations in open cellular cloud fields. <i>Nature</i> , 2010, 466, 849-852.	13.7	163
10	The Geoengineering Model Intercomparison Project Phase 6 (GeoMIP6): simulation design and preliminary results. <i>Geoscientific Model Development</i> , 2015, 8, 3379-3392.	1.3	140
11	A review of black carbon in snow and ice and its impact on the cryosphere. <i>Earth-Science Reviews</i> , 2020, 210, 103346.	4.0	139
12	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.	1.9	133
13	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.	0.6	129
14	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.	1.9	128
15	Marine cloud brightening. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 4217-4262.	1.6	125
16	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, 5804-5811.	3.3	120
17	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.	1.9	115
18	Fast and slow responses of the South Asian monsoon system to anthropogenic aerosols. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	113

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19	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.	1.2	112
20	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.	1.3	112
21	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.	1.3	105
22	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.	0.5	100
23	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.	1.9	99
24	Geoengineering as a design problem. <i>Earth System Dynamics</i> , 2016, 7, 469-497.	2.7	96
25	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.	1.2	92
26	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.	1.9	91
27	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.	1.9	85
28	Mesoscale modeling study of the interactions between aerosols and PBL meteorology during a haze episode in Jing-Jin-Ji (China) and its nearby surrounding region - Part 1: Aerosol distributions and meteorological features. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 3257-3275.	1.9	82
29	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.	1.9	80
30	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.	1.9	80
31	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.	1.3	80
32	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.	3.3	77
33	Source attribution of black carbon and its direct radiative forcing in China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 4319-4336.	1.9	76
34	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
35	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.	1.9	72
36	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.	1.3	68

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37	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.	2.2	67
38	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.	1.9	67
39	The roles of cloud drop effective radius and $\langle i \rangle$ LWP in determining rain properties in marine stratocumulus. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	66
40	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.	1.9	65
41	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.	1.3	65
42	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.	1.2	64
43	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.	1.5	62
44	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
45	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.	1.2	59
46	Global source attribution of sulfate concentration and direct and indirect radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8903-8922.	1.9	58
47	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.	1.2	56
48	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.	1.0	55
49	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.	1.2	53
50	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.	1.9	51
51	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.	1.7	51
52	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.	3.3	51
53	Fast Climate Responses to Aerosol Emission Reductions During the COVID-19 Pandemic. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089788.	1.5	51
54	A comprehensive numerical study of aerosol-cloud-precipitation interactions in marine stratocumulus. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9749-9769.	1.9	49

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55	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.	1.5	49
56	Recent intensification of winter haze in China linked to foreign emissions and meteorology. <i>Scientific Reports</i> , 2018, 8, 2107.	1.6	48
57	Understanding processes that control dust spatial distributions with global climate models and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13835-13855.	1.9	47
58	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.	1.9	46
59	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.	1.9	43
60	The Climate Response to Emissions Reductions Due to COVID-19: Initial Results From CovidMIP. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091883.	1.5	43
61	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.	2.4	42
62	Two distinct patterns of seasonal variation of airborne black carbon over Tibetan Plateau. <i>Science of the Total Environment</i> , 2016, 573, 1041-1052.	3.9	41
63	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.	1.2	40
64	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.	1.9	40
65	Surprising similarities in model and observational aerosol radiative forcing estimates. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 613-623.	1.9	39
66	Sulfate Aerosol in the Arctic: Source Attribution and Radiative Forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1899-1918.	1.2	38
67	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.	1.9	38
68	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.	1.2	37
69	Urbanization Effect on Winter Haze in the Yangtze River Delta Region of China. <i>Geophysical Research Letters</i> , 2018, 45, 6710-6718.	1.5	37
70	Constructing a spatiotemporally coherent long-term PM2.5 concentration dataset over China during 1980-2019 using a machine learning approach. <i>Science of the Total Environment</i> , 2021, 765, 144263.	3.9	37
71	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.	1.9	36
72	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.	1.2	35

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73	Abrupt emissions reductions during COVID-19 contributed to record summer rainfall in China. <i>Nature Communications</i> , 2022, 13, 959.	5.8	35
74	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.	3.7	34
75	Climatic Responses to Future Trans-Arctic Shipping. <i>Geophysical Research Letters</i> , 2018, 45, 9898-9908.	1.5	34
76	Variability, timescales, and nonlinearity in climate responses to black carbon emissions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2405-2420.	1.9	34
77	Impact of numerical choices on water conservation in the E3SM Atmosphere Model version 1 (EAMv1). <i>Geoscientific Model Development</i> , 2018, 11, 1971-1988.	1.3	33
78	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.	1.9	31
79	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.	1.2	31
80	Local Atmospheric Response to an Open-Ocean Polynya in a High-Resolution Climate Model. <i>Journal of Climate</i> , 2017, 30, 1629-1641.	1.2	30
81	Basin-scale heterogeneity in Antarctic precipitation and its impact on surface mass variability. <i>Cryosphere</i> , 2017, 11, 2595-2609.	1.5	28
82	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.	1.3	28
83	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.	1.2	27
84	Local Radiative Feedbacks Over the Arctic Based on Observed Short-Term Climate Variations. <i>Geophysical Research Letters</i> , 2018, 45, 5761-5770.	1.5	26
85	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.	1.2	26
86	Increasing large wildfires over the western United States linked to diminishing sea ice in the Arctic. <i>Nature Communications</i> , 2021, 12, 6048.	5.8	26
87	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.	1.5	24
88	On the interaction between marine boundary layer cellular cloudiness and surface heat fluxes. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 61-79.	1.9	24
89	Light-absorbing impurities accelerating glacial melting in southeastern Tibetan Plateau. <i>Environmental Pollution</i> , 2020, 257, 113541.	3.7	24
90	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.	1.2	23

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91	Trans-Himalayan Transport of Organochlorine Compounds: Three-Year Observations and Model-Based Flux Estimation. <i>Environmental Science & Technology</i> , 2019, 53, 6773-6783.	4.6	23
92	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, 20140052.	1.6	21
93	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.	1.2	20
94	Trends and source apportionment of aerosols in Europe during 1980â€“2018. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 2579-2590.	1.9	20
95	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.	1.9	20
96	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.	1.9	20
97	ENSO modulation of summertime tropospheric ozone over China. <i>Environmental Research Letters</i> , 2022, 17, 034020.	2.2	20
98	The climate effects of increasing ocean albedo: an idealized representation of solar geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13097-13113.	1.9	19
99	On Assessing ERA5 and MERRA2 Representations of Coldâ€“Air Outbreaks Across the Gulf Stream. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094364.	1.5	19
100	An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coast â€“ Part 1: Analysis of Aerosols, Gases, and Wet Deposition Chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032592.	1.2	18
101	Development and Evaluation of Chemistryâ€“Aerosolâ€“Climate Model CAM5â€“Chemâ€“MAM7â€“MOSAIC: Global Atmospheric Distribution and Radiative Effects of Nitrate Aerosol. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002346.	1.3	17
102	Aerosol responses to precipitation along North American air trajectories arriving at Bermuda. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16121-16141.	1.9	17
103	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.	1.3	17
104	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.	1.9	16
105	Influence of sea-ice anomalies on Antarctic precipitation using source attribution in the Community Earth System Model. <i>Cryosphere</i> , 2020, 14, 429-444.	1.5	16
106	Effective radiative forcing of anthropogenic aerosols in E3SM version 1: historical changes, causality, decomposition, and parameterization sensitivities. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 9129-9160.	1.9	16
107	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.	1.3	15
108	Projected Aerosol Changes Driven by Emissions and Climate Change Using a Machine Learning Method. <i>Environmental Science & Technology</i> , 2022, 56, 3884-3893.	4.6	15

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109	Intensified modulation of winter aerosol pollution in China by El Niño with short duration. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 10745-10761.	1.9	14
110	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.	1.2	14
111	OCEANFILMS (Organic Compounds from Ecosystems to Aerosols: Natural Films and Interfaces via) Tj ETQq1 1 0.784314 rgBT /Overlo climate model and impacts on clouds. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5223-5251.	1.9	14
112	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.	1.2	13
113	Black carbon deposited in Hariqin Glacier of the Central Tibetan Plateau record changes in the emission from Eurasia. <i>Environmental Pollution</i> , 2021, 273, 115778.	3.7	13
114	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.	1.9	13
115	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, .	3.3	12
116	Global Dust Cycle and Direct Radiative Effect in E3SM Version 1: Impact of Increasing Model Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	12
117	Black Carbon Increases Frequency of Extreme ENSO Events. <i>Journal of Climate</i> , 2019, 32, 8323-8333.	1.2	11
118	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.	3.9	11
119	Atmospheric Circulation Patterns Conducive to Severe Haze in Eastern China Have Shifted Under Climate Change. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095011.	1.5	11
120	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.	1.0	9
121	Impact of subgrid-scale radiative heating variability on the stratocumulus-to-cumulus transition in climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4192-4203.	1.2	9
122	The role of carbonaceous aerosols on short-term variations of precipitation over North Africa. <i>Atmospheric Science Letters</i> , 2016, 17, 407-414.	0.8	9
123	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.	1.2	9
124	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.	1.3	9
125	Assessing Global and Local Radiative Feedbacks Based on AGCM Simulations for 1980-2014/2017. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088063.	1.5	9
126	Understanding the Cold Season Arctic Surface Warming Trend in Recent Decades. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094878.	1.5	9

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127	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.	1.3	8
128	Aerosol transport pathways and source attribution in China during the COVID-19 outbreak. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15431-15445.	1.9	8
129	Large-Eddy Simulations of Marine Boundary Layer Clouds Associated with Cold-Air Outbreaks during the ACTIVATE Campaign. Part I: Case Setup and Sensitivities to Large-Scale Forcings. <i>Journals of the Atmospheric Sciences</i> , 2022, 79, 73-100.	0.6	8
130	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.	1.2	5
131	Brown Carbon Fuel and Emission Source Attributions to Global Snow Darkening Effect. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	5
132	Technical note: Simultaneous fully dynamic characterization of multiple input-output relationships in climate models. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2525-2541.	1.9	3
133	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.	1.2	3
134	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.	1.3	1
135	Diurnal Rainfall Response to the Physiological and Radiative Effects of CO ₂ in Tropical Forests in the Energy Exascale Earth System Model v1. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	1
136	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.	1.3	1
137	Facilitating International Collaboration on Climate Change Research. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E650-E654.	1.7	0
138	Understanding Third Pole Atmospheric Dynamics and Land Surface Processes and Their Associations with the Cryosphere, Air Quality, and Climate Change. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 1017-1020.	1.9	0