

Jian He

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

745
citations

567144

15
h-index

642610

23
g-index

35
all docs

35
docs citations

35
times ranked

1254
citing authors

#	ARTICLE	IF	CITATIONS
1	The GFDL Earth System Model Version 4.1 (GFDL-ESM 4.1): Overall Coupled Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002015.	1.3	277
2	The GFDL Global Atmospheric Chemistry-Climate Model AM4.1: Model Description and Simulation Characteristics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002032.	1.3	51
3	Incorporation of advanced aerosol activation treatments into CESM/CAM5: model evaluation and impacts on aerosol indirect effects. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7485-7497.	1.9	50
4	Improvement and further development in CESM/CAM5: gas-phase chemistry and inorganic aerosol treatments. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9171-9200.	1.9	39
5	Decadal simulation and comprehensive evaluation of CESM/CAM5.1 with advanced chemistry, aerosol microphysics, and aerosol-cloud interactions. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 110-141.	1.3	32
6	Decadal application of WRF/Chem for regional air quality and climate modeling over the U.S. under the representative concentration pathways scenarios. Part 1: Model evaluation and impact of downscaling. <i>Atmospheric Environment</i> , 2017, 152, 562-583.	1.9	32
7	Impact of future climate policy scenarios on air quality and aerosol-cloud interactions using an advanced version of CESM/CAM5: Part I. model evaluation for the current decadal simulations. <i>Atmospheric Environment</i> , 2017, 152, 222-239.	1.9	29
8	Investigation of the global methane budget over 1980-2017 using GFDL-AM4.1. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 805-827.	1.9	28
9	Decadal evaluation of regional climate, air quality, and their interactions over the continental US and their interactions using WRF/Chem version 3.6.1. <i>Geoscientific Model Development</i> , 2016, 9, 671-695.	1.3	23
10	Incorporating an advanced aerosol activation parameterization into WRF-CAM5: Model evaluation and parameterization intercomparison. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6952-6979.	1.2	21
11	The Weather Research and Forecasting Model with Aerosol-Cloud Interactions (WRF-ACI): Development, Evaluation, and Initial Application. <i>Monthly Weather Review</i> , 2019, 147, 1491-1511.	0.5	20
12	Multi-year application of WRF-CAM5 over East Asia-Part I: Comprehensive evaluation and formation regimes of O ₃ and PM _{2.5} . <i>Atmospheric Environment</i> , 2017, 165, 122-142.	1.9	18
13	Assessment of Updated Fuel-Based Emissions Inventories Over the Contiguous United States Using TROPOMI NO ₂ Retrievals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035484.	1.2	18
14	Improving organic aerosol treatments in CESM / CAM 5: Development, application, and evaluation. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 1506-1539.	1.3	17
15	Sensitivity of simulated chemical concentrations and aerosol-meteorology interactions to aerosol treatments and biogenic organic emissions in WRF/Chem. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6014-6048.	1.2	15
16	Does temperature nudging overwhelm aerosol radiative effects in regional integrated climate models?. <i>Atmospheric Environment</i> , 2017, 154, 42-52.	1.9	13
17	Multiyear applications of WRF/Chem over continental U.S.: Model evaluation, variation trend, and impacts of boundary conditions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12748-12777.	1.2	11
18	CESM/CAM5 improvement and application: comparison and evaluation of updated CB05_GE and MOZART-4 gas-phase mechanisms and associated impacts on global air quality and climate. <i>Geoscientific Model Development</i> , 2015, 8, 3999-4025.	1.3	11

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19	Impacts of Air-sea Interactions on Regional Air Quality Predictions Using a Coupled Atmosphere-ocean Model in Southeastern U.S.. <i>Aerosol and Air Quality Research</i> , 2018, 18, 1044-1067.	0.9	10
20	Multi-year application of WRF-CAM5 over East Asia-Part II: Interannual variability, trend analysis, and aerosol indirect effects. <i>Atmospheric Environment</i> , 2017, 165, 222-239.	1.9	9
21	Precipitation Partitioning in Multiscale Atmospheric Simulations: Impacts of Stability Restoration Methods. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 10,185.	1.2	9
22	Hydroxyl Radical (OH) Response to Meteorological Forcing and Implication for the Methane Budget. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094140.	1.5	7
23	Studying Scale Dependency of Aerosol-Cloud Interactions Using Multiscale Cloud Formulations. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 3847-3868.	0.6	1