

Yi Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

449
citations

687335

13
h-index

713444

21
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35
all docs

35
docs citations

35
times ranked

351
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved Climate Simulation by Using a Double-Plume Convection Scheme in a Global Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	7
2	Enhancing the stability of a global model by using an adaptively implicit vertical moist transport scheme. <i>Meteorology and Atmospheric Physics</i> , 2022, 134, .	2.0	8
3	AMIP Simulations of a Global Model for Unified Weather-Climate Forecast: Understanding Precipitation Characteristics and Sensitivity Over East Asia. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002592.	3.8	9
4	Investigation of the effect of the time step on the physics-dynamics interaction in CAM5 using an idealized tropical cyclone experiment. <i>Climate Dynamics</i> , 2020, 55, 665-680.	3.8	5
5	A Multiscale Dynamical Model in a Dry-Mass Coordinate for Weather and Climate Modeling: Moist Dynamics and Its Coupling to Physics. <i>Monthly Weather Review</i> , 2020, 148, 2671-2699.	1.4	16
6	Configuration and evaluation of a global unstructured mesh atmospheric model (GRIST-A20.9) based on the variable-resolution approach. <i>Geoscientific Model Development</i> , 2020, 13, 6325-6348.	3.6	15
7	A Layer-Averaged Nonhydrostatic Dynamical Framework on an Unstructured Mesh for Global and Regional Atmospheric Modeling: Model Description, Baseline Evaluation, and Sensitivity Exploration. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 1685-1714.	3.8	25
8	Recent Progress in Numerical Atmospheric Modeling in China. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 938-960.	4.3	23
9	Performance of CAMS-CSM in Simulating the Shortwave Cloud Radiative Effect over Global Stratus Cloud Regions: Baseline Evaluation and Sensitivity Test. <i>Journal of Meteorological Research</i> , 2019, 33, 651-665.	2.4	2
10	Understanding the Performance of an Unstructured-Mesh Global Shallow Water Model on Kinetic Energy Spectra and Nonlinear Vorticity Dynamics. <i>Journal of Meteorological Research</i> , 2019, 33, 1075-1097.	2.4	13
11	Robust Nocturnal and Early Morning Summer Rainfall Peaks over Continental East Asia in a Global Multiscale Modeling Framework. <i>Atmosphere</i> , 2019, 10, 53.	2.3	8
12	The coherent large-scale circulation change between dry/wet years over central eastern China simulated by NCAR CAM5. <i>Theoretical and Applied Climatology</i> , 2018, 131, 201-211.	2.8	0
13	Extending High-Order Flux Operators on Spherical Icosahedral Grids and Their Applications in the Framework of a Shallow Water Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 145-164.	3.8	15
14	Implementation of a conservative two-step shape-preserving advection scheme on a spherical icosahedral hexagonal geodesic grid. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 411-427.	4.3	9
15	Impact of moisture divergence on systematic errors in precipitation around the Tibetan Plateau in a general circulation model. <i>Climate Dynamics</i> , 2016, 47, 2923-2934.	3.8	25
16	Comparing CAM5 and Superparameterized CAM5 Simulations of Summer Precipitation Characteristics over Continental East Asia: Mean State, Frequency-Intensity Relationship, Diurnal Cycle, and Influencing Factors. <i>Journal of Climate</i> , 2016, 29, 1067-1089.	3.2	45
17	Studies on the Model Dynamics and Physical Parameterizations of the High-Resolution Version of the Global Climate System Model BCC_CSM. , 2016, , 105-161.		0
18	Metrics for Gauging Model Performance Over the East Asian-Western Pacific Domain. , 2016, , 209-256.		0

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19	Precipitation over East Asia simulated by NCAR CAM5 at different horizontal resolutions. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 774-790.	3.8	78
20	Improvement of rainfall simulation on the steep edge of the Tibetan Plateau by using a finite-difference transport scheme in CAM5. <i>Climate Dynamics</i> , 2015, 45, 2937-2948.	3.8	42
21	Simulations of Stratus Clouds over Eastern China in CAM5: Sources of Errors. <i>Journal of Climate</i> , 2015, 28, 36-55.	3.2	10
22	Simulations of Stratus Clouds over Eastern China in CAM5: Sensitivity to Horizontal Resolution. <i>Journal of Climate</i> , 2014, 27, 7033-7052.	3.2	18
23	Vertical Structures and Physical Properties of the Cold-Season Stratus Clouds Downstream of the Tibetan Plateau: Differences between Daytime and Nighttime. <i>Journal of Climate</i> , 2014, 27, 6857-6876.	3.2	16
24	Shortwave cloud radiative forcing on major stratus cloud regions in AMIP-type simulations of CMIP3 and CMIP5 models. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 884-907.	4.3	27
25	Dynamic and Thermodynamic Relations of Distinctive Stratus Clouds on the Lee Side of the Tibetan Plateau in the Cold Season. <i>Journal of Climate</i> , 2013, 26, 8378-8391.	3.2	22