

Bin Guan

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,344
citations

147566

31
h-index

118652

62
g-index

72
all docs

72
docs citations

72
times ranked

3201
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of atmospheric rivers: Evaluation and application of an algorithm for global studies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12514-12535.	1.2	402
2	Vertical structure and physical processes of the Madden-Julian oscillation: Exploring key model physics in climate simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4718-4748.	1.2	332
3	Extreme winds and precipitation during landfall of atmospheric rivers. <i>Nature Geoscience</i> , 2017, 10, 179-183.	5.4	257
4	Extreme snowfall events linked to atmospheric rivers and surface air temperature via satellite measurements. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	254
5	Atmospheric River Tracking Method Intercomparison Project (ARTMIP): project goals and experimental design. <i>Geoscientific Model Development</i> , 2018, 11, 2455-2474.	1.3	221
6	Global Analysis of Climate Change Projection Effects on Atmospheric Rivers. <i>Geophysical Research Letters</i> , 2018, 45, 4299-4308.	1.5	182
7	The "Year" of Tropical Convection (May 2008"April 2010): Climate Variability and Weather Highlights. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 1189-1218.	1.7	164
8	An observationally based evaluation of cloud ice water in CMIP3 and CMIP5 GCMs and contemporary reanalyses using contemporary satellite data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	150
9	Key role of the Atlantic Multidecadal Oscillation in 20th century drought and wet periods over the Great Plains. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	144
10	Does the Madden-Julian Oscillation Influence Wintertime Atmospheric Rivers and Snowpack in the Sierra Nevada?. <i>Monthly Weather Review</i> , 2012, 140, 325-342.	0.5	134
11	The 2010/2011 snow season in California's Sierra Nevada: Role of atmospheric rivers and modes of large-scale variability. <i>Water Resources Research</i> , 2013, 49, 6731-6743.	1.7	134
12	The Atmospheric River Tracking Method Intercomparison Project (ARTMIP): Quantifying Uncertainties in Atmospheric River Climatology. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13777-13802.	1.2	126
13	Hydrometeorological characteristics of rain-snow events associated with atmospheric rivers. <i>Geophysical Research Letters</i> , 2016, 43, 2964-2973.	1.5	108
14	Hourly storm characteristics along the U.S. West Coast: Role of atmospheric rivers in extreme precipitation. <i>Geophysical Research Letters</i> , 2017, 44, 7020-7028.	1.5	108
15	Global Floods and Water Availability Driven by Atmospheric Rivers. <i>Geophysical Research Letters</i> , 2017, 44, 10,387.	1.5	102
16	Snow water equivalent in the Sierra Nevada: Blending snow sensor observations with snowmelt model simulations. <i>Water Resources Research</i> , 2013, 49, 5029-5046.	1.7	90
17	An Intercomparison between Reanalysis and Dropsonde Observations of the Total Water Vapor Transport in Individual Atmospheric Rivers. <i>Journal of Hydrometeorology</i> , 2018, 19, 321-337.	0.7	82
18	Tracking Atmospheric Rivers Globally: Spatial Distributions and Temporal Evolution of Life Cycle Characteristics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12523-12552.	1.2	80

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19	The Role of Atmospheric Rivers in Extratropical and Polar Hydroclimate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6804-6821.	1.2	78
20	Analysis of Atlantic SST Variability Factoring Interbasin Links and the Secular Trend: Clarified Structure of the Atlantic Multidecadal Oscillation. <i>Journal of Climate</i> , 2009, 22, 4228-4240.	1.2	76
21	Global Assessment of Atmospheric River Prediction Skill. <i>Journal of Hydrometeorology</i> , 2018, 19, 409-426.	0.7	69
22	ARTMIP-early start comparison of atmospheric river detection tools: how many atmospheric rivers hit northern California's Russian River watershed?. <i>Climate Dynamics</i> , 2019, 52, 4973-4994.	1.7	63
23	Pacific Sea Surface Temperatures in the Twentieth Century: An Evolution-Centric Analysis of Variability and Trend. <i>Journal of Climate</i> , 2008, 21, 2790-2809.	1.2	58
24	Effects of atmospheric river landfalls on the cold season precipitation in California. <i>Climate Dynamics</i> , 2013, 40, 465-474.	1.7	57
25	Global Climate Model Ensemble Approaches for Future Projections of Atmospheric Rivers. <i>Earth's Future</i> , 2019, 7, 1136-1151.	2.4	56
26	Atmospheric rivers in 20-year weather and climate simulations: A multimodel, global evaluation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5556-5581.	1.2	54
27	Global evaluation of atmospheric river subseasonal prediction skill. <i>Climate Dynamics</i> , 2019, 52, 3039-3060.	1.7	52
28	Ridging Associated with Drought across the Western and Southwestern United States: Characteristics, Trends, and Predictability Sources. <i>Journal of Climate</i> , 2020, 33, 2485-2508.	1.2	38
29	Life Cycle of Atmospheric Rivers: Identification and Climatological Characteristics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,715.	1.2	36
30	Experimental Subseasonal-to-Seasonal (S2S) Forecasting of Atmospheric Rivers Over the Western United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11242-11265.	1.2	36
31	Increases in Future AR Count and Size: Overview of the ARTMIP Tier 2 CMIP5/6 Experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	35
32	An Overview of ARTMIP's Tier 2 Reanalysis Intercomparison: Uncertainty in the Detection of Atmospheric Rivers and Their Associated Precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	34
33	Quantifying the processes controlling intraseasonal mixed-layer temperature variability in the tropical Indian Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 692-715.	1.0	33
34	Atmospheric rivers drive exceptional Saharan dust transport towards Europe. <i>Atmospheric Research</i> , 2022, 266, 105959.	1.8	32
35	Aquarius surface salinity and the Madden-Julian Oscillation: The role of salinity in surface layer density and potential energy. <i>Geophysical Research Letters</i> , 2014, 41, 2858-2869.	1.5	31
36	Implications of Detection Methods on Characterizing Atmospheric River Contribution to Seasonal Snowfall Across Sierra Nevada, USA. <i>Geophysical Research Letters</i> , 2017, 44, 10,445.	1.5	30

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37	Sensitivity of Seasonal Snowfall Attribution to Atmospheric Rivers and Their Reanalysis-Based Detection. <i>Geophysical Research Letters</i> , 2019, 46, 794-803.	1.5	28
38	Atmospheric Rivers and Precipitation in the Middle East and North Africa (MENA). <i>Water</i> (Switzerland), 2020, 12, 2863.	1.2	28
39	Poleward Shift of Atmospheric Rivers in the Southern Hemisphere in Recent Decades. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089934.	1.5	27
40	Winter precipitation characteristics in western US related to atmospheric river landfalls: observations and model evaluations. <i>Climate Dynamics</i> , 2018, 50, 231-248.	1.7	26
41	Precipitation characteristics related to atmospheric rivers in East Asia. <i>International Journal of Climatology</i> , 2021, 41, E2244.	1.5	23
42	Statistical Relationship between Atmospheric Rivers and Extratropical Cyclones and Anticyclones. <i>Journal of Climate</i> , 2020, 33, 7817-7834.	1.2	23
43	Evaluating the impact of orbital sampling on satellite climate model comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 355-369.	1.2	22
44	Atlantic tropical cyclones in the twentieth century: natural variability and secular change in cyclone count. <i>Climate Dynamics</i> , 2011, 36, 2279-2293.	1.7	21
45	On the Quantification of Atmospheric Rivers Precipitation from Space: Composite Assessments and Case Studies over the Eastern North Pacific Ocean and the Western United States. <i>Journal of Hydrometeorology</i> , 2016, 17, 369-382.	0.7	21
46	Global Intercomparison of Atmospheric Rivers Precipitation in Remote Sensing and Reanalysis Products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033021.	1.2	19
47	Extending the Atmospheric River Concept to Aerosols: Climate and Air Quality Impacts. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091827.	1.5	16
48	Rivers in the sky, flooding on the ground: the role of atmospheric rivers in inland flooding in central Europe. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 5125-5147.	1.9	16
49	Influence of African Atmospheric Rivers on Precipitation and Snowmelt in the Near East's Highlands. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033646.	1.2	14
50	A Climatology of Atmospheric Rivers and Associated Precipitation for the Seven U.S. National Climate Assessment Regions. <i>Journal of Hydrometeorology</i> , 2020, 21, 2439-2456.	0.7	14
51	Nonstationarity of the Intraseasonal Oscillations Associated with the Western North Pacific Summer Monsoon. <i>Journal of Climate</i> , 2006, 19, 622-629.	1.2	13
52	Evapotranspiration sensitivity to air temperature across a snow-influenced watershed: Space-for-time substitution versus integrated watershed modeling. <i>Journal of Hydrology</i> , 2018, 556, 645-659.	2.3	11
53	A multimodel evaluation of the water vapor budget in atmospheric rivers. <i>Annals of the New York Academy of Sciences</i> , 2020, 1472, 139-154.	1.8	11
54	Sensitivity of CONUS Summer Rainfall to the Selection of Cumulus Parameterization Schemes in NU-WRF Seasonal Simulations. <i>Journal of Hydrometeorology</i> , 2017, 18, 1689-1706.	0.7	11

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55	A Multi-Inventory Ensemble Analysis of the Effects of Atmospheric Rivers on Precipitation and Streamflow in the Namgang Dam Basin in Korea. <i>Water Resources Research</i> , 2021, 57, e2021WR030058.	1.7	10
56	Genesis Locations of the Costliest Atmospheric Rivers Impacting the Western United States. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093947.	1.5	10
57	Structure, Process, and Mechanism. , 2020, , 15-43.		8
58	Analyzing the Suitability of Remotely Sensed ET for Calibrating a Watershed Model of a Mediterranean Montane Forest. <i>Remote Sensing</i> , 2021, 13, 1258.	1.8	6
59	Aerosol atmospheric rivers: climatology, event characteristics, and detection algorithm sensitivities. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 8175-8195.	1.9	5
60	Influence of the Madden-Julian oscillation on the Indian Ocean cross-equatorial heat transport. <i>Geophysical Research Letters</i> , 2014, 41, 7314-7322.	1.5	4
61	Global and Regional Perspectives. , 2020, , 89-140.		3
62	The Future of Atmospheric River Research and Applications. , 2020, , 219-247.		3
63	Addendum to "Simulating cold season snowpack: Impacts of snow albedo and multi-layer snow physics" Waliser, D., J. Kim, Y. Xue, Y. Chao, A. Eldering, R. Fovell, A. Hall, Q. Li, K. N. Liou, J. McWilliams, S. Kapnick, R. Vasic, F. De Sale, and Y. Yu (2011), <i>Climatic Change</i> , 109 (Suppl 1):S95-S117, DOI 10.1007/s10584-011-0312-5. <i>Climatic Change</i> , 2012, 114, 399-400.	1.7	2
64	Atmospheric river representation in the Energy Exascale Earth System Model (E3SM) version 1.0. <i>Geoscientific Model Development</i> , 2022, 15, 5461-5480.	1.3	1
65	Extreme Surface Winds During Landfalling Atmospheric Rivers: The Modulating Role of Near-Surface Stability. <i>Journal of Hydrometeorology</i> , 2021, , .	0.7	0