

Baijun Tian

List of Publications by Year in descending order

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58
papers

2,531
citations

201575

27
h-index

197736

49
g-index

62
all docs

62
docs citations

62
times ranked

3061
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA "Train" satellite observations. Journal of Geophysical Research, 2012, 117, .	3.3	316
2	Vertical Moist Thermodynamic Structure and Spatial-Temporal Evolution of the MJO in AIRS Observations. Journals of the Atmospheric Sciences, 2006, 63, 2462-2485.	0.6	162
3	The Double-ITCZ Bias in CMIP3, CMIP5, and CMIP6 Models Based on Annual Mean Precipitation. Geophysical Research Letters, 2020, 47, e2020GL087232.	1.5	153
4	Diurnal cycle of convection, clouds, and water vapor in the tropical upper troposphere: Satellites versus a general circulation model. Journal of Geophysical Research, 2004, 109, .	3.3	149
5	Planetary boundary layer heights from GPS radio occultation refractivity and humidity profiles. Journal of Geophysical Research, 2012, 117, .	3.3	106
6	Evaluating CMIP5 models using AIRS tropospheric air temperature and specific humidity climatology. Journal of Geophysical Research D: Atmospheres, 2013, 118, 114-134.	1.2	102
7	The Atmospheric Infrared Sounder version 6 cloud products. Atmospheric Chemistry and Physics, 2014, 14, 399-426.	1.9	99
8	Spread of model climate sensitivity linked to double-Intertropical Convergence Zone bias. Geophysical Research Letters, 2015, 42, 4133-4141.	1.5	94
9	Modulation of the diurnal cycle of tropical deep convective clouds by the MJO. Geophysical Research Letters, 2006, 33, .	1.5	82
10	Northern Hemisphere mid-winter vortex displacement and vortex split stratospheric sudden warmings: Influence of the Madden-Julian Oscillation and Quasi-Biennial Oscillation. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,599.	1.2	66
11	Does the Madden-Julian Oscillation influence aerosol variability?. Journal of Geophysical Research, 2008, 113, .	3.3	63
12	Vertical Moist Thermodynamic Structure of the Madden-Julian Oscillation in Atmospheric Infrared Sounder Retrievals: An Update and a Comparison to ECMWF Interim Re-Analysis. Monthly Weather Review, 2010, 138, 4576-4582.	0.5	61
13	Comparison of upper tropospheric water vapor observations from the Microwave Limb Sounder and Atmospheric Infrared Sounder. Journal of Geophysical Research, 2008, 113, .	3.3	60
14	Intraseasonal variations of the tropical total ozone and their connection to the Madden-Julian Oscillation. Geophysical Research Letters, 2007, 34, .	1.5	57
15	On the diurnal cycle of deep convection, high-level cloud, and upper troposphere water vapor in the Multiscale Modeling Framework. Journal of Geophysical Research, 2008, 113, .	3.3	50
16	Diurnal cycle of summertime deep convection over North America: A satellite perspective. Journal of Geophysical Research, 2005, 110, .	3.3	48
17	Tropical mid-tropospheric CO ₂ variability driven by the Madden-Julian oscillation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19171-19175.	3.3	45
18	Role of Tropical Clouds in Surface and Atmospheric Energy Budget. Journal of Climate, 2002, 15, 296-305.	1.2	44

#	ARTICLE	IF	CITATIONS
19	Climate Model Evaluation in the Presence of Observational Uncertainty: Precipitation Indices over the Contiguous United States. <i>Journal of Hydrometeorology</i> , 2019, 20, 1339-1357.	0.7	43
20	Long tails in deep columns of natural and anthropogenic tropospheric tracers. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	40
21	Record of tropical interannual variability of temperature and water vapor from a combined AIRS-MLS data set. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
22	Estimating sampling biases and measurement uncertainties of AIRS/AMSU-A temperature and water vapor observations using MERRA reanalysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2725-2741.	1.2	38
23	Closing the Global Water Vapor Budget with AIRS Water Vapor, MERRA Reanalysis, TRMM and GPCP Precipitation, and GSSTF Surface Evaporation. <i>Journal of Climate</i> , 2011, 24, 6307-6321.	1.2	30
24	Tropical Atlantic dust and smoke aerosol variations related to the Madden-Julian Oscillation in MODIS and MISR observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4947-4963.	1.2	30
25	Vertical Heating Structures Associated with the MJO as Characterized by TRMM Estimates, ECMWF Reanalyses, and Forecasts: A Case Study during 1998/99 Winter. <i>Journal of Climate</i> , 2009, 22, 6001-6020.	1.2	29
26	Tropical Intraseasonal Modes of the Atmosphere. <i>Annual Review of Environment and Resources</i> , 2014, 39, 189-215.	5.6	29
27	The Apparent Water Vapor Sinks and Heat Sources Associated with the Intraseasonal Oscillation of the Indian Summer Monsoon. <i>Journal of Climate</i> , 2011, 24, 4466-4479.	1.2	28
28	Modulation of Atlantic aerosols by the Madden-Julian Oscillation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	27
29	A Decade of Spaceborne Observations of the Arctic Atmosphere: Novel Insights from NASA's AIRS Instrument. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2163-2176.	1.7	26
30	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
31	Surface mass balance contributions to acceleration of Antarctic ice mass loss during 2003-2013. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 3617-3627.	1.4	25
32	A Simple Moist Tropical Atmosphere Model: The Role of Cloud Radiative Forcing. <i>Journal of Climate</i> , 2003, 16, 2086-2092.	1.2	24
33	Vertical structure of MJO-related subtropical ozone variations from MLS, TES, and SHADOZ data. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 425-436.	1.9	23
34	Representation of tropical subseasonal variability of precipitation in global reanalyses. <i>Climate Dynamics</i> , 2014, 43, 517-534.	1.7	23
35	Evaluation of global land-to-ocean fresh water discharge and evapotranspiration using space-based observations. <i>Journal of Hydrology</i> , 2009, 373, 508-515.	2.3	22
36	Evaluating hourly rainfall characteristics over the U.S. Great Plains in dynamically downscaled climate model simulations using NASA's Unified WRF. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 7371-7384.	1.2	22

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37	Characterization of MJO-related upper tropospheric hydrological processes using MLS. Geophysical Research Letters, 2008, 35, .	1.5	21
38	The effects of ENSO under negative AO phase on spring dust activity over northern China: an observational investigation. International Journal of Climatology, 2015, 35, 935-947.	1.5	21
39	Heat Balance in the Pacific Warm Pool Atmosphere during TOGA COARE and CEPEX. Journal of Climate, 2001, 14, 1881-1893.	1.2	20
40	Accelerated mass loss from Greenland ice sheet: Links to atmospheric circulation in the North Atlantic. Global and Planetary Change, 2015, 128, 61-71.	1.6	19
41	Interannual variations of water vapor in the tropical upper troposphere and the lower and middle stratosphere and their connections to ENSO and QBO. Atmospheric Chemistry and Physics, 2019, 19, 9913-9926.	1.9	16
42	El Niño Southern Oscillation in Tropical and Midlatitude Column Ozone. Journals of the Atmospheric Sciences, 2011, 68, 1911-1921.	0.6	14
43	GRACE and AMSR-based estimates of winter season solid precipitation accumulation in the Arctic drainage region. Journal of Geophysical Research, 2010, 115, .	3.3	13
44	Intraseasonal temperature variability in the upper troposphere and lower stratosphere from the GPS radio occultation measurements. Journal of Geophysical Research, 2012, 117, .	3.3	13
45	A link between tropical intraseasonal variability and Arctic stratospheric ozone. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4280-4289.	1.2	12
46	Development of a Model Performance Metric and Its Application to Assess Summer Precipitation over the U.S. Great Plains in Downscaled Climate Simulations. Journal of Hydrometeorology, 2017, 18, 2781-2799.	0.7	12
47	How well can satellite data characterize the water cycle of the Madden-Julian Oscillation?. Geophysical Research Letters, 2009, 36, .	1.5	11
48	On the Emergent Constraints of Climate Sensitivity. Journal of Climate, 2018, 31, 863-875.	1.2	11
49	The Atmospheric Infrared Sounder Obs4MIPs Version 2 Data Set. Earth and Space Science, 2019, 6, 324-333.	1.1	11
50	Sensitivity of CONUS Summer Rainfall to the Selection of Cumulus Parameterization Schemes in NU-WRF Seasonal Simulations. Journal of Hydrometeorology, 2017, 18, 1689-1706.	0.7	11
51	Assessing the Impacts of Two Averaging Methods on AIRS Level 3 Monthly Products and Multiyear Monthly Means. Journal of Atmospheric and Oceanic Technology, 2020, 37, 1027-1050.	0.5	11
52	Evidence of the recent decade change in global fresh water discharge and evapotranspiration revealed by reanalysis and satellite observations. Asia-Pacific Journal of Atmospheric Sciences, 2012, 48, 153-158.	1.3	8
53	The response of the equatorial tropospheric ozone to the Madden-Julian Oscillation in TES satellite observations and CAM-chem model simulation. Atmospheric Chemistry and Physics, 2014, 14, 11775-11790.	1.9	8
54	Estimating and Removing the Sampling Biases of the AIRS Obs4MIPs V2 Data. Earth and Space Science, 2020, 7, e2020EA001438.	1.1	6

#	ARTICLE	IF	CITATIONS
55	Climate research with the atmospheric infrared sounder. , 2006, , .		4
56	Madden-Julian Oscillation (MJO). Encyclopedia of Earth Sciences Series, 2014, , 349-358.	0.1	3
57	Chemical and biological impacts. , 2012, , 569-585.		3
58	Stratospheric Kelvin Wave Activity as a Function of Equivalent Depth in AIRS and Reanalysis Datasets. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	1