

Tongwen Wu

List of Publications by Year in descending order

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90
papers

6,578
citations

117625

34
h-index

69250

77
g-index

119
all docs

119
docs citations

119
times ranked

7692
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in anthropogenic precursor emissions drive shifts in the ozone seasonal cycle throughout the northern midlatitude troposphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3507-3524.	4.9	10
2	Investigating the ENSO prediction skills of the Beijing Climate Center climate prediction system version 2. <i>Acta Oceanologica Sinica</i> , 2022, 41, 99-109.	1.0	2
3	Present-Day PM2.5 over Asia: Simulation and Uncertainty in CMIP6 ESMs. <i>Journal of Meteorological Research</i> , 2022, 36, 429-449.	2.4	2
4	Stratospheric Nudging And Predictable Surface Impacts (SNAPSI): a protocol for investigating the role of stratospheric polar vortex disturbances in subseasonal to seasonal forecasts. <i>Geoscientific Model Development</i> , 2022, 15, 5073-5092.	3.6	6
5	Constraining human contributions to observed warming since the pre-industrial period. <i>Nature Climate Change</i> , 2021, 11, 207-212.	18.8	108
6	Effective radiative forcing from emissions of reactive gases and aerosols – a multi-model comparison. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 853-874.	4.9	65
7	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5015-5061.	4.9	54
8	Development of Coupled Data Assimilation With the BCC Climate System Model: Highlighting the Role of Sea-Ice Assimilation for Global Analysis. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002368.	3.8	14
9	Shortened Duration of Global Warming Slowdowns with Elevated Greenhouse Gas Emissions. <i>Journal of Meteorological Research</i> , 2021, 35, 225-237.	2.4	8
10	BCC-CSM2-HR: a high-resolution version of the Beijing Climate Center Climate System Model. <i>Geoscientific Model Development</i> , 2021, 14, 2977-3006.	3.6	52
11	Impact of Higher Resolution on Precipitation over China in CMIP6 HighResMIP Models. <i>Atmosphere</i> , 2021, 12, 762.	2.3	9
12	Investigations on the anthropogenic reversal of the natural ozone gradient between northern and southern midlatitudes. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9669-9679.	4.9	8
13	Mitigation of the double ITCZ syndrome in BCC-CSM2-MR through improving parameterizations of boundary-layer turbulence and shallow convection. <i>Geoscientific Model Development</i> , 2021, 14, 5183-5204.	3.6	5
14	BCC-ESM1 Model Datasets for the CMIP6 Aerosol Chemistry Model Intercomparison Project (AerChemMIP). <i>Advances in Atmospheric Sciences</i> , 2021, 38, 317-328.	4.3	5
15	The January 2021 Sudden Stratospheric Warming and Its Prediction in Subseasonal to Seasonal Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035057.	3.3	26
16	The role of anthropogenic aerosols in the anomalous cooling from 1960 to 1990 in the CMIP6 Earth system models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 18609-18627.	4.9	14
17	A review of progress in coupled ocean-atmosphere model developments for ENSO studies in China. <i>Journal of Oceanology and Limnology</i> , 2020, 38, 930-961.	1.3	62
18	Historical total ozone radiative forcing derived from CMIP6 simulations. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	44

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19	Impacts of atmospheric and oceanic initial conditions on boreal summer intraseasonal oscillation forecast in the BCC model. <i>Theoretical and Applied Climatology</i> , 2020, 142, 393-406.	2.8	8
20	Tracking Improvement in Simulated Marine Biogeochemistry Between CMIP5 and CMIP6. <i>Current Climate Change Reports</i> , 2020, 6, 95-119.	8.6	155
21	Improvement of Drag Coefficient Calculation Under Near-Neutral Conditions in Light Winds Over land. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033472.	3.3	6
22	Beijing Climate Center Earth System Model version 1 (BCC-ESM1): model description and evaluation of aerosol simulations. <i>Geoscientific Model Development</i> , 2020, 13, 977-1005.	3.6	65
23	Development of Climate and Earth System Models in China: Past Achievements and New CMIP6 Results. <i>Journal of Meteorological Research</i> , 2020, 34, 1-19.	2.4	46
24	Improved Simulation of the Antarctic Stratospheric Final Warming by Modifying the Orographic Gravity Wave Parameterization in the Beijing Climate Center Atmospheric General Circulation Model. <i>Atmosphere</i> , 2020, 11, 576.	2.3	3
25	QBO Changes in CMIP6 Climate Projections. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086903.	4.0	24
26	Comparison of CMIP6 and CMIP5 simulations of precipitation in China and the East Asian summer monsoon. <i>International Journal of Climatology</i> , 2020, 40, 6423-6440.	3.5	211
27	Variability of the Stratospheric Quasi-Biennial Oscillation and Its Wave Forcing Simulated in the Beijing Climate Center Atmospheric General Circulation Model. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 149-165.	1.7	10
28	Near-Global Atmospheric Responses to Observed Springtime Tibetan Plateau Snow Anomalies. <i>Journal of Climate</i> , 2020, 33, 1691-1706.	3.2	15
29	Historical and future changes in air pollutants from CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14547-14579.	4.9	105
30	Climate and air quality impacts due to mitigation of non-methane near-term climate forcers. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9641-9663.	4.9	30
31	Carbon concentration and carbon climate feedbacks in CMIP6 models and their comparison to CMIP5 models. <i>Biogeosciences</i> , 2020, 17, 4173-4222.	3.3	255
32	Development of the global atmospheric chemistry general circulation model BCC-GEOS-Chem v1.0: model description and evaluation. <i>Geoscientific Model Development</i> , 2020, 13, 3817-3838.	3.6	12
33	Factors Limiting the Forecast Skill of the Boreal Summer Intraseasonal Oscillation in a Subseasonal-to-Seasonal Model. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 104-118.	4.3	7
34	Impacts of SIS and CICE as Sea Ice Components in BCC_CSM on the Simulation of the Arctic Climate. <i>Journal of Ocean University of China</i> , 2019, 18, 553-562.	1.2	4
35	New insights into natural variability and anthropogenic forcing of global/regional climate evolution. <i>Npj Climate and Atmospheric Science</i> , 2019, 2, .	6.8	34
36	The Beijing Climate Center Climate System Model (BCC-CSM): the main progress from CMIP5 to CMIP6. <i>Geoscientific Model Development</i> , 2019, 12, 1573-1600.	3.6	458

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37	Observed and Simulated Teleconnections Between the Stratospheric Quasi-Biennial Oscillation and Northern Hemisphere Winter Atmospheric Circulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1219-1232.	3.3	59
38	A collaborative analysis framework for distributed gridded environmental data. <i>Environmental Modelling and Software</i> , 2019, 111, 324-339.	4.5	4
39	Validity of parameter optimization in improving MJO simulation and prediction using the sub-seasonal to seasonal forecast model of Beijing Climate Center. <i>Climate Dynamics</i> , 2019, 52, 3823-3843.	3.8	21
40	Decadal prediction skill of BCC-CSM1.1 climate model in East Asia. <i>International Journal of Climatology</i> , 2018, 38, 584-592.	3.5	19
41	The Subseasonal to Seasonal (S2S) Prediction Project Database. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 163-173.	3.3	617
42	Subseasonal Dynamical Prediction of East Asian Cold Surges. <i>Weather and Forecasting</i> , 2017, 32, 1675-1694.	1.4	19
43	Simulations of the Asian summer monsoon in the sub-seasonal to seasonal prediction project (<sc>S2S</sc>) database. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2282-2295.	2.7	67
44	An evaluation of boreal summer intra-seasonal oscillation simulated by BCC_AGCM2.2. <i>Climate Dynamics</i> , 2017, 48, 3409-3423.	3.8	8
45	MJO prediction using the sub-seasonal to seasonal forecast model of Beijing Climate Center. <i>Climate Dynamics</i> , 2017, 48, 3283-3307.	3.8	72
46	A strategy for merging objective estimates of global daily precipitation from gauge observations, satellite estimates, and numerical predictions. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 889-904.	4.3	16
47	Operational climate prediction in the era of big data in China: Reviews and prospects. <i>Journal of Meteorological Research</i> , 2016, 30, 444-456.	2.4	4
48	A quantitative assessment of precipitation associated with the ITCZ in the CMIP5 GCM simulations. <i>Climate Dynamics</i> , 2016, 47, 1863-1880.	3.8	33
49	Evaluation of the tropical variability from the Beijing Climate Center's real-time operational global Ocean Data Assimilation System. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 208-220.	4.3	9
50	Development and Evaluation of High Resolution Climate System Models. , 2016, , .		3
51	Overview of the Chinese National Key Basic Research Project Entitled "Development and Evaluation of High-Resolution Climate System Models", 2016, , 1-48.		0
52	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
53	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.	3.3	332
54	Performance of the seasonal forecasting of the Asian summer monsoon by BCC_CSM1.1(m). <i>Advances in Atmospheric Sciences</i> , 2015, 32, 1156-1172.	4.3	53

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55	A merging scheme for constructing daily precipitation analyses based on objective bias correction and error estimation techniques. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8671-8692.	3.3	28
56	Parametric Sensitivity Analysis for the Asian Summer Monsoon Precipitation Simulation in the Beijing Climate Center AGCM, Version 2.1. <i>Journal of Climate</i> , 2015, 28, 5622-5644.	3.2	26
57	Using a deterministic time-lagged ensemble forecast with a probabilistic threshold for improving 6–15 day summer precipitation prediction in China. <i>Atmospheric Research</i> , 2015, 156, 142-159.	4.1	13
58	Scale-Dependent Performance of CMIP5 Earth System Models in Simulating Terrestrial Vegetation Carbon*. <i>Journal of Climate</i> , 2015, 28, 5217-5232.	3.2	24
59	Evaluating the Diurnal Cycle of Upper-Tropospheric Ice Clouds in Climate Models Using SMILES Observations. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 1022-1044.	1.7	35
60	Changes in soil organic carbon storage predicted by Earth system models during the 21st century. <i>Biogeosciences</i> , 2014, 11, 2341-2356.	3.3	259
61	Radiation budget biases in AMIP5 models over the East Asian monsoon region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,400.	3.3	19
62	Improvement of 6–15 day precipitation forecasts using a time-lagged ensemble method. <i>Advances in Atmospheric Sciences</i> , 2014, 31, 293-304.	4.3	12
63	Relationships between interannual and intraseasonal variations of the Asian-western Pacific summer monsoon hindcasted by BCC_CSM1.1(m). <i>Advances in Atmospheric Sciences</i> , 2014, 31, 1051-1064.	4.3	19
64	An overview of BCC climate system model development and application for climate change studies. <i>Journal of Meteorological Research</i> , 2014, 28, 34-56.	1.0	138
65	Causes and implications of persistent atmospheric carbon dioxide biases in Earth System Models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 141-162.	3.0	121
66	The quasi-stationary feature of nocturnal precipitation in the Sichuan Basin and the role of the Tibetan Plateau. <i>Climate Dynamics</i> , 2013, 41, 977-994.	3.8	51
67	The Flexible Global Ocean-Atmosphere-Land system model, Spectral Version 2: FGOALS-s2. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 561-576.	4.3	210
68	Asymmetry of surface climate change under RCP2.6 projections from the CMIP5 models. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 796-805.	4.3	7
69	Biotic and Human Vulnerability to Projected Changes in Ocean Biogeochemistry over the 21st Century. <i>PLoS Biology</i> , 2013, 11, e1001682.	5.6	194
70	Carbon Concentration and Carbon Climate Feedbacks in CMIP5 Earth System Models. <i>Journal of Climate</i> , 2013, 26, 5289-5314.	3.2	576
71	Validation of parameterizations for the surface turbulent fluxes over sea ice with CHINARE 2010 and SHEBA data. <i>Polar Research</i> , 2013, 32, 20818.	1.6	9
72	Global carbon budgets simulated by the Beijing Climate Center Climate System Model for the last century. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4326-4347.	3.3	226

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73	Effect of the strengthened western Pacific subtropical high on summer visibility decrease over eastern China since 1973. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7142-7156.	3.3	26
74	Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using retrain satellite observations and reanalysis data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2762-2780.	3.3	90
75	Climate Change Projections over East Asia with BCC_CSM1.1 Climate Model under RCP Scenarios. <i>Journal of the Meteorological Society of Japan</i> , 2013, 91, 413-429.	1.8	75
76	A Numerical Simulation of Microphysical Structure of Cloud Associated with the 2008 Winter Freezing Rain over Southern China. <i>Journal of the Meteorological Society of Japan</i> , 2013, 91, 101-117.	1.8	8
77	Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA retrain satellite observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	316
78	Recent progress in studies of climate change in China. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 958-977.	4.3	153
79	A simulation study on the extreme temperature events of the 20th century by using the BCC_AGCM. <i>Journal of Meteorological Research</i> , 2012, 26, 489-507.	1.0	4
80	Projections of annual mean air temperature and precipitation over the globe and in China during the 21st century by the BCC Climate System Model BCC_CSM1.0. <i>Journal of Meteorological Research</i> , 2012, 26, 362-375.	1.0	17
81	The coherent interdecadal changes of East Asia climate in mid-summer simulated by BCC_AGCM 2.0.1. <i>Climate Dynamics</i> , 2012, 39, 155-163.	3.8	10
82	A mass-flux cumulus parameterization scheme for large-scale models: description and test with observations. <i>Climate Dynamics</i> , 2012, 38, 725-744.	3.8	152
83	Changes in precipitation extremes over Eastern China simulated by the Beijing Climate Center Climate System Model (BCC_CSM1.0). <i>Climate Research</i> , 2011, 50, 227-245.	1.1	23
84	The Beijing Climate Center atmospheric general circulation model: description and its performance for the present-day climate. <i>Climate Dynamics</i> , 2010, 34, 123-147.	3.8	246
85	Cloudiness characteristics over Southeast Asia from satellite FY2C and their comparison to three other cloud data sets. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	24
86	Thermal Contrast between the Middle-Latitude Asian Continent and Adjacent Ocean and Its Connection to the East Asian Summer Precipitation. <i>Journal of Climate</i> , 2008, 21, 4992-5007.	3.2	29
87	A Modified Dynamic Framework for the Atmospheric Spectral Model and Its Application. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 2235-2253.	1.7	70
88	An evaluation of the effects of cloud parameterization in the R42L9 GCM. <i>Advances in Atmospheric Sciences</i> , 2004, 21, 153-162.	4.3	5
89	An empirical formula to compute snow cover fraction in GCMs. <i>Advances in Atmospheric Sciences</i> , 2004, 21, 529-535.	4.3	25
90	Dynamical Seasonal Prediction of the Asian Summer Monsoon in the China Meteorological Administration Climate Prediction System Version 3. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	3