Wei-Chyung Wang

List of Publications by Year
in descending order

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77 papers	3,421 citations	201674 27 h-index	144013 57 g-index
78 all docs	78 docs citations	78 times ranked	3294 citing authors

#	Article	IF	Citations
1	Regional Climate Modeling: Progress, Challenges, and Prospects. Journal of the Meteorological Society of Japan, 2004, 82, 1599-1628.	1.8	391
2	A Method of Relating General Circulation Model Simulated Climate to the Observed Local Climate. Part I: Seasonal Statistics. Journal of Climate, 1990, 3, 1053-1079.	3.2	278
3	Associations between China monsoon rainfall and tropospheric jets. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 2597-2623.	2.7	211
4	Precipitation Variability and Extreme Events in Eastern China during the Past 1500 Years. Terrestrial, Atmospheric and Oceanic Sciences, 2006, 17, 579.	0.6	204
5	Winter half-year temperature reconstruction for the middle and lower reaches of the Yellow River and Yangtze River, China, during the past 2000 years. Holocene, 2003, 13, 933-940.	1.7	201
6	Model calculations of the relative effects of CFCs and their replacements on global warming. Nature, 1990, 344, 513-516.	27.8	178
7	Exceptional drought events over eastern China during the last five centuries. Climatic Change, 2007, 85, 453-471.	3.6	124
8	Urban heat islands in China. Geophysical Research Letters, 1990, 17, 2377-2380.	4.0	110
9	Coupled effects of atmospheric N2O and O3 on the Earth's climate. Nature, 1980, 286, 589-590.	27.8	100
10	Inadequacy of effective CO2 as a proxy in simulating the greenhouse effect of other radiatively active gases. Nature, 1991, 350, 573-577.	27.8	90
11	Climate implications of observed changes in ozone vertical distributions at middle and high latitudes of the northern hemisphere. Geophysical Research Letters, 1993, 20, 1567-1570.	4.0	81
12	Global energy and water balance: Characteristics from <scp>F</scp>initeâ€volume <scp>A</scp>tmospheric <scp>M</scp>odel of the <scp>IAP/LASG</scp> (<scp>FAMIL</scp>1). Journal of Advances in Modeling Earth Systems, 2015, 7, 1-20.	3.8	78
13	A Regional Model Simulation of the 1991 Severe Precipitation Event over the Yangtzeâ€“Huai River Valley. Part I: Precipitation and Circulation Statistics. Journal of Climate, 2000, 13, 74-92.	3.2	72
14	Simulation of the effects of increasing cloud condensation nuclei on mixed-phase clouds and precipitation of a front system. Atmospheric Research, 2010, 96, 461-476.	4.1	72
15	Trace gases and other potential perturbations to global climate. Reviews of Geophysics, 1986, 24, 110-140.	23.0	71
16	Precipitation Fluctuation over Semiarid Region in Northern China and the Relationship with El NiÃ±o/Southern Oscillation. Journal of Climate, 1990, 3, 769-783.	3.2	69
17	Model-Simulated Northern Winter Cyclone and Anticyclone Activity under a Greenhouse Warming Scenario. Journal of Climate, 1997, 10, 1616-1634.	3.2	66
18	A modelling study of aerosol impacts on cloud microphysics and radiative properties. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 283-297.	2.7	59

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19	Response of Summer Precipitation over Eastern China to Large Volcanic Eruptions. Journal of Climate, 2010, 23, 818-824.	3.2	54
20	Characteristics of anomalous precipitation events over eastern China during the past five centuries. Climate Dynamics, 2008, 31, 463-476.	3.8	50
21	Surface Energy Balances of Three General Circulation Models: Implications for Simulating Regional Climate Change. Journal of Climate, 1991, 4, 121-134.	3.2	45
22	Spring Phenophases in Recent Decades Over Eastern China and Its Possible Link to Climate Changes. Climatic Change, 2006, 77, 449-462.	3.6	40
23	Total band absorptance and k-distribution function for atmospheric gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 1988, 39, 387-397.	2.3	33
24	Climate response to radiative forcings by sulfate aerosols and greenhouse gases. Geophysical Research Letters, 1995, 22, 2509-2512.	4.0	33
25	Observed and GCM simulated decadal variability of monsoon rainfall in east China. Climate Dynamics, 1995, 11, 103-114.	3.8	31
26	An observational study of the effects of aerosols on diurnal variation of heavy rainfall and associated clouds over Beijingâ€“Tianjinâ€“Hebei. Atmospheric Chemistry and Physics, 2020, 20, 5211-5229.	4.9	30
27	Inadequacy of effective CO₂ as a proxy in assessing the regional climate change due to other radiatively active gases. Geophysical Research Letters, 1992, 19, 1375-1378.	4.0	28
28	Characteristics of Cloud Radiation Forcing over East China. Journal of Climate, 2004, 17, 845-853.	3.2	27
29	Agriculture development-induced surface albedo changes and climatic implications across northeastern China. Chinese Geographical Science, 2012, 22, 264-277.	3.0	27
30	Interdecadal variability of the East Asian Summer Monsoon and associated atmospheric circulations. Advances in Atmospheric Sciences, 2007, 24, 915-926.	4.3	26
31	A Regional Climate Model Study of the Scale Dependence of Cloud-Radiation Interactions. Journal of Climate, 1996, 9, 1221-1234.	3.2	25
32	Advances in first bloom dates and increased occurrences of yearly second blooms in eastern China since the 1960s: further phenological evidence of climate warming. Ecological Research, 2011, 26, 713-723.	1.5	24
33	Aerosolâ€“Stratocumulusâ€“Radiation Interactions over the Southeast Pacific. Journals of the Atmospheric Sciences, 2015, 72, 2612-2621.	1.7	24
34	Atmospheric circulation cells associated with anomalous east Asian winter monsoon. Advances in Atmospheric Sciences, 2011, 28, 913-926.	4.3	22
35	Past and future direct radiative forcing of nitrate aerosol in East Asia. Theoretical and Applied Climatology, 2015, 121, 445-458.	2.8	22
36	Cloud-radiation-precipitation associations over the Asian monsoon region: an observational analysis. Climate Dynamics, 2017, 49, 3237-3255.	3.8	22

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37	Comparison of General Circulation Model and Observed Regional Climates: Daily and Seasonal Variability. Journal of Climate, 1992, 5, 343-353.	3.2	21
38	A Regional Model Simulation of the 1991 Severe Precipitation Event over the Yangtzeâ€“Huai River Valley. Part II: Model Bias. Journal of Climate, 2000, 13, 93-108.	3.2	21
39	Circulation responses to regional aerosol climate forcing in summer over East Asia. Climate Dynamics, 2018, 51, 3973-3984.	3.8	20
40	Beijing Cloudiness since 1875. Journal of Climate, 1993, 6, 1921-1927.	3.2	19
41	Persistent Spring Shortwave Cloud Radiative Effect and the Associated Circulations over Southeastern China. Journal of Climate, 2019, 32, 3069-3087.	3.2	19
42	Shortâ€Term Precipitation Prediction for Contiguous United States Using Deep Learning. Geophysical Research Letters, 2022, 49, .	4.0	19
43	A Comparison between Observed and GCM-Simulated Summer Monsoon Characteristics over China. Journal of Climate, 1995, 8, 1690-1696.	3.2	18
44	Radiative heating due to stratospheric aerosols over Antarctica. Geophysical Research Letters, 1986, 13, 1335-1338.	4.0	17
45	An analytical expression for the total band absorptance of infrared-radiating gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 1983, 29, 279-281.	2.3	16
46	Association of the Rainy Season Precipitation with Low-Level Meridional Wind in the Yangtze River Valley and North China. Journal of Climate, 2012, 25, 792-799.	3.2	16
47	Northern Hemispheric Interannual Teleconnection Patterns and Their Changes Due to the Greenhouse Effect. Journal of Climate, 1996, 9, 465-479.	3.2	15
48	Recent Progress in the Joint Agreements on "Global and Regional Climate Change" Studies between the United States and the People's Republic of China. Bulletin of the American Meteorological Society, 2000, 81, 491-499.	3.3	14
49	Intraseasonal responses of the East Asia summer rainfall to anthropogenic aerosol climate forcing. Climate Dynamics, 2018, 51, 3985-3998.	3.8	14
50	Vegetation of Northeast China during the late seventeenth to early twentieth century as revealed by historical documents. Regional Environmental Change, 2011, 11, 869-882.	2.9	13
51	Extreme Snow Events along the Coast of the Northeast United States: Potential Changes due to Global Warming. Journal of Climate, 2021, 34, 2337-2353.	3.2	13
52	Rainy Season at Beijing and Shanghai since 1736. Journal of the Meteorological Society of Japan, 2008, 86, 827-834.	1.8	12
53	A study on sulfate optical properties and direct radiative forcing using LASG-IAP general circulation model. Advances in Atmospheric Sciences, 2012, 29, 1185-1199.	4.3	11
54	East Asian climate under global warming: understanding and projection. Climate Dynamics, 2018, 51, 3969-3972.	3.8	11

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55	The conflict over global warming. Global Environmental Change, 1991, 1, 109-123.	7.8	9
56	Aerosolâ€“Stratocumulusâ€“Radiation Interactions over the Southeast Pacific: Implications to the Underlying Airâ€“Sea Coupling. Journals of the Atmospheric Sciences, 2016, 73, 2759-2771.	1.7	9
57	Dynamic and thermodynamic features of low and middle clouds derived from atmospheric radiation measurement program mobile facility radiosonde data at Shouxian, China. Advances in Atmospheric Sciences, 2016, 33, 21-33.	4.3	9
58	Intraseasonal Variation of the Black Carbon Aerosol Concentration and Its Impact on Atmospheric Circulation Over the Southeastern Tibetan Plateau. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,881.	3.3	9
59	Atmospheric trace gases and global climate: a seasonal model study. Tellus, Series B: Chemical and Physical Meteorology, 2022, 42, 149.	1.6	8
60	Aerosol Direct Radiative and Cloud Adjustment Effects on Surface Climate over Eastern China: Analyses of WRF Model Simulations. Journal of Climate, 2019, 32, 1293-1306.	3.2	8
61	Shift of daily rainfall peaks over the Beijingâ€“Tianjinâ€“Hebei region: An indication of pollutant effects?. International Journal of Climatology, 2018, 38, 5010-5019.	3.5	7
62	Effects of Cloud Optical Property Feedbacks on the Greenhouse Warming. Journal of Climate, 1992, 5, 814-821.	3.2	6
63	Aerosol effects on summer monsoon over Asia during 1980s and 1990s. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,761.	3.3	6
64	Extreme Snow Events along the Coast of the Northeast United States: Analysis of Observations and HiRAM Simulations. Journal of Climate, 2019, 32, 7561-7574.	3.2	6
65	China's Rainfall Interannual Predictability: Dependence on the Annual Cycle and Surface Anomalies. Journal of Climate, 2002, 15, 2555-2561.	3.2	5
66	Summer precipitation changes over the Yangtze River Valley and North China: Simulations from CMIP3 models. Asia-Pacific Journal of Atmospheric Sciences, 2014, 50, 355-364.	2.3	4
67	LASG Global AGCM with a Two-moment Cloud Microphysics Scheme: Energy Balance and Cloud Radiative Forcing Characteristics. Advances in Atmospheric Sciences, 2019, 36, 697-710.	4.3	4
68	Dynamical Heat-Flux Feedbacks and Global Climate Stability. Annals of Glaciology, 1984, 5, 106-110.	1.4	3
69	The scientific challenge of measuring climate change. Energy Policy, 1990, 18, 641-651.	8.8	3
70	The observed fingerprint of 1980-1997 ENSO evolution in the NCAR CSM equilibrium simulation. Geophysical Research Letters, 1998, 25, 1027-1030.	4.0	3
71	Diurnal-to-seasonal characteristics of surface energy balance and temperature in East Asian summer monsoon simulations. Meteorology and Atmospheric Physics, 2008, 102, 97-112.	2.0	3
72	SUNYA Regional Climate Model Simulations of East Asia Summer Monsoon: Effects of Cloud Vertical Structure on the Surface Energy Balance. Terrestrial, Atmospheric and Oceanic Sciences, 2007, 18, 493.	0.6	3

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73	Cold Anomaly Over Nova Zemblaâ€“Ural Mountains: A Precursor for the Summer Longâ€Lived Heat Wave in Northeast Asia?. Geophysical Research Letters, 2021, 48, e2021GL095563.	4.0	3
74	Meteorological and Aerosol Effects on Marine Stratocumulus. Journals of the Atmospheric Sciences, 2016, 73, 807-820.	1.7	2
75	Cloud Parameterizations in SUNYA Regional Climate Model for the East Asia Summer Monsoon Simulations. Terrestrial, Atmospheric and Oceanic Sciences, 2005, 16, 959.	0.6	2
76	Modeling aerosol climate effects over monsoon Asia: A collaborative research program. Advances in Atmospheric Sciences, 2017, 34, 1195-1203.	4.3	1
77	Application of Historical Documentary Records in Reconstruction of the Palaeo-Climate Series in China. Terrestrial, Atmospheric and Oceanic Sciences, 1994, 5, 373.	0.6	1