

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	Atmospheric trace gases and global climate: a seasonal model study. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 42, 149.	1.6	8
2	Short-term Precipitation Prediction for Contiguous United States Using Deep Learning. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	19
3	Extreme Snow Events along the Coast of the Northeast United States: Potential Changes due to Global Warming. <i>Journal of Climate</i> , 2021, 34, 2337-2353.	3.2	13
4	Cold Anomaly Over Nova Zembla-Ural Mountains: A Precursor for the Summer Long-Lived Heat Wave in Northeast Asia?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095563.	4.0	3
5	An observational study of the effects of aerosols on diurnal variation of heavy rainfall and associated clouds over Beijing-Tianjin-Hebei. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5211-5229.	4.9	30
6	LASG Global AGCM with a Two-moment Cloud Microphysics Scheme: Energy Balance and Cloud Radiative Forcing Characteristics. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 697-710.	4.3	4
7	Persistent Spring Shortwave Cloud Radiative Effect and the Associated Circulations over Southeastern China. <i>Journal of Climate</i> , 2019, 32, 3069-3087.	3.2	19
8	Extreme Snow Events along the Coast of the Northeast United States: Analysis of Observations and HiRAM Simulations. <i>Journal of Climate</i> , 2019, 32, 7561-7574.	3.2	6
9	Aerosol Direct Radiative and Cloud Adjustment Effects on Surface Climate over Eastern China: Analyses of WRF Model Simulations. <i>Journal of Climate</i> , 2019, 32, 1293-1306.	3.2	8
10	Intraseasonal responses of the East Asia summer rainfall to anthropogenic aerosol climate forcing. <i>Climate Dynamics</i> , 2018, 51, 3985-3998.	3.8	14
11	Shift of daily rainfall peaks over the Beijing-Tianjin-Hebei region: An indication of pollutant effects?. <i>International Journal of Climatology</i> , 2018, 38, 5010-5019.	3.5	7
12	East Asian climate under global warming: understanding and projection. <i>Climate Dynamics</i> , 2018, 51, 3969-3972.	3.8	11
13	Intraseasonal Variation of the Black Carbon Aerosol Concentration and Its Impact on Atmospheric Circulation Over the Southeastern Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 10,881.	3.3	9
14	Circulation responses to regional aerosol climate forcing in summer over East Asia. <i>Climate Dynamics</i> , 2018, 51, 3973-3984.	3.8	20
15	Cloud-radiation-precipitation associations over the Asian monsoon region: an observational analysis. <i>Climate Dynamics</i> , 2017, 49, 3237-3255.	3.8	22
16	Modeling aerosol climate effects over monsoon Asia: A collaborative research program. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1195-1203.	4.3	1
17	Aerosol effects on summer monsoon over Asia during 1980s and 1990s. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,761.	3.3	6
18	Aerosol-Stratocumulus-Radiation Interactions over the Southeast Pacific: Implications to the Underlying Air-Sea Coupling. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 2759-2771.	1.7	9

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19	Meteorological and Aerosol Effects on Marine Stratocumulus. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 807-820.	1.7	2
20	Dynamic and thermodynamic features of low and middle clouds derived from atmospheric radiation measurement program mobile facility radiosonde data at Shouxian, China. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 21-33.	4.3	9
21	Past and future direct radiative forcing of nitrate aerosol in East Asia. <i>Theoretical and Applied Climatology</i> , 2015, 121, 445-458.	2.8	22
22	Global energy and water balance: Characteristics from <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 1-20.	3.8	78
23	Aerosol-Stratocumulus Radiation Interactions over the Southeast Pacific. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 2612-2621.	1.7	24
24	Summer precipitation changes over the Yangtze River Valley and North China: Simulations from CMIP3 models. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2014, 50, 355-364.	2.3	4
25	Association of the Rainy Season Precipitation with Low-Level Meridional Wind in the Yangtze River Valley and North China. <i>Journal of Climate</i> , 2012, 25, 792-799.	3.2	16
26	A study on sulfate optical properties and direct radiative forcing using LASG-IAP general circulation model. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 1185-1199.	4.3	11
27	Agriculture development-induced surface albedo changes and climatic implications across northeastern China. <i>Chinese Geographical Science</i> , 2012, 22, 264-277.	3.0	27
28	Advances in first bloom dates and increased occurrences of yearly second blooms in eastern China since the 1960s: further phenological evidence of climate warming. <i>Ecological Research</i> , 2011, 26, 713-723.	1.5	24
29	Vegetation of Northeast China during the late seventeenth to early twentieth century as revealed by historical documents. <i>Regional Environmental Change</i> , 2011, 11, 869-882.	2.9	13
30	Atmospheric circulation cells associated with anomalous east Asian winter monsoon. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 913-926.	4.3	22
31	Response of Summer Precipitation over Eastern China to Large Volcanic Eruptions. <i>Journal of Climate</i> , 2010, 23, 818-824.	3.2	54
32	Simulation of the effects of increasing cloud condensation nuclei on mixed-phase clouds and precipitation of a front system. <i>Atmospheric Research</i> , 2010, 96, 461-476.	4.1	72
33	Diurnal-to-seasonal characteristics of surface energy balance and temperature in East Asian summer monsoon simulations. <i>Meteorology and Atmospheric Physics</i> , 2008, 102, 97-112.	2.0	3
34	Characteristics of anomalous precipitation events over eastern China during the past five centuries. <i>Climate Dynamics</i> , 2008, 31, 463-476.	3.8	50
35	Rainy Season at Beijing and Shanghai since 1736. <i>Journal of the Meteorological Society of Japan</i> , 2008, 86, 827-834.	1.8	12
36	A modelling study of aerosol impacts on cloud microphysics and radiative properties. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 283-297.	2.7	59

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37	Interdecadal variability of the East Asian Summer Monsoon and associated atmospheric circulations. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 915-926.	4.3	26
38	Exceptional drought events over eastern China during the last five centuries. <i>Climatic Change</i> , 2007, 85, 453-471.	3.6	124
39	SUNYA Regional Climate Model Simulations of East Asia Summer Monsoon: Effects of Cloud Vertical Structure on the Surface Energy Balance. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2007, 18, 493.	0.6	3
40	Spring Phenophases in Recent Decades Over Eastern China and Its Possible Link to Climate Changes. <i>Climatic Change</i> , 2006, 77, 449-462.	3.6	40
41	Precipitation Variability and Extreme Events in Eastern China during the Past 1500 Years. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2006, 17, 579.	0.6	204
42	Cloud Parameterizations in SUNYA Regional Climate Model for the East Asia Summer Monsoon Simulations. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2005, 16, 959.	0.6	2
43	Regional Climate Modeling: Progress, Challenges, and Prospects. <i>Journal of the Meteorological Society of Japan</i> , 2004, 82, 1599-1628.	1.8	391
44	Characteristics of Cloud Radiation Forcing over East China. <i>Journal of Climate</i> , 2004, 17, 845-853.	3.2	27
45	Winter half-year temperature reconstruction for the middle and lower reaches of the Yellow River and Yangtze River, China, during the past 2000 years. <i>Holocene</i> , 2003, 13, 933-940.	1.7	201
46	China's Rainfall Interannual Predictability: Dependence on the Annual Cycle and Surface Anomalies. <i>Journal of Climate</i> , 2002, 15, 2555-2561.	3.2	5
47	A Regional Model Simulation of the 1991 Severe Precipitation Event over the Yangtze-Huai River Valley. Part I: Precipitation and Circulation Statistics. <i>Journal of Climate</i> , 2000, 13, 74-92.	3.2	72
48	A Regional Model Simulation of the 1991 Severe Precipitation Event over the Yangtze-Huai River Valley. Part II: Model Bias. <i>Journal of Climate</i> , 2000, 13, 93-108.	3.2	21
49	Recent Progress in the Joint Agreements on "Global and Regional Climate Change" Studies between the United States and the People's Republic of China. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 491-499.	3.3	14
50	Associations between China monsoon rainfall and tropospheric jets. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1998, 124, 2597-2623.	2.7	211
51	The observed fingerprint of 1980-1997 ENSO evolution in the NCAR CSM equilibrium simulation. <i>Geophysical Research Letters</i> , 1998, 25, 1027-1030.	4.0	3
52	Model-Simulated Northern Winter Cyclone and Anticyclone Activity under a Greenhouse Warming Scenario. <i>Journal of Climate</i> , 1997, 10, 1616-1634.	3.2	66
53	A Regional Climate Model Study of the Scale Dependence of Cloud-Radiation Interactions. <i>Journal of Climate</i> , 1996, 9, 1221-1234.	3.2	25
54	Northern Hemispheric Interannual Teleconnection Patterns and Their Changes Due to the Greenhouse Effect. <i>Journal of Climate</i> , 1996, 9, 465-479.	3.2	15

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55	A Comparison between Observed and GCM-Simulated Summer Monsoon Characteristics over China. <i>Journal of Climate</i> , 1995, 8, 1690-1696.	3.2	18
56	Climate response to radiative forcings by sulfate aerosols and greenhouse gases. <i>Geophysical Research Letters</i> , 1995, 22, 2509-2512.	4.0	33
57	Observed and GCM simulated decadal variability of monsoon rainfall in east China. <i>Climate Dynamics</i> , 1995, 11, 103-114.	3.8	31
58	Application of Historical Documentary Records in Reconstruction of the Palaeo-Climate Series in China. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 1994, 5, 373.	0.6	1
59	Climate implications of observed changes in ozone vertical distributions at middle and high latitudes of the northern hemisphere. <i>Geophysical Research Letters</i> , 1993, 20, 1567-1570.	4.0	81
60	Beijing Cloudiness since 1875. <i>Journal of Climate</i> , 1993, 6, 1921-1927.	3.2	19
61	Comparison of General Circulation Model and Observed Regional Climates: Daily and Seasonal Variability. <i>Journal of Climate</i> , 1992, 5, 343-353.	3.2	21
62	Effects of Cloud Optical Property Feedbacks on the Greenhouse Warming. <i>Journal of Climate</i> , 1992, 5, 814-821.	3.2	6
63	Inadequacy of effective CO ₂ as a proxy in assessing the regional climate change due to other radiatively active gases. <i>Geophysical Research Letters</i> , 1992, 19, 1375-1378.	4.0	28
64	The conflict over global warming. <i>Global Environmental Change</i> , 1991, 1, 109-123.	7.8	9
65	Surface Energy Balances of Three General Circulation Models: Implications for Simulating Regional Climate Change. <i>Journal of Climate</i> , 1991, 4, 121-134.	3.2	45
66	Inadequacy of effective CO ₂ as a proxy in simulating the greenhouse effect of other radiatively active gases. <i>Nature</i> , 1991, 350, 573-577.	27.8	90
67	Precipitation Fluctuation over Semiarid Region in Northern China and the Relationship with El Niño/Southern Oscillation. <i>Journal of Climate</i> , 1990, 3, 769-783.	3.2	69
68	Model calculations of the relative effects of CFCs and their replacements on global warming. <i>Nature</i> , 1990, 344, 513-516.	27.8	178
69	The scientific challenge of measuring climate change. <i>Energy Policy</i> , 1990, 18, 641-651.	8.8	3
70	Urban heat islands in China. <i>Geophysical Research Letters</i> , 1990, 17, 2377-2380.	4.0	110
71	A Method of Relating General Circulation Model Simulated Climate to the Observed Local Climate. Part I: Seasonal Statistics. <i>Journal of Climate</i> , 1990, 3, 1053-1079.	3.2	278
72	Total band absorptance and k-distribution function for atmospheric gases. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1988, 39, 387-397.	2.3	33

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73	Radiative heating due to stratospheric aerosols over Antarctica. <i>Geophysical Research Letters</i> , 1986, 13, 1335-1338.	4.0	17
74	Trace gases and other potential perturbations to global climate. <i>Reviews of Geophysics</i> , 1986, 24, 110-140.	23.0	71
75	Dynamical Heat-Flux Feedbacks and Global Climate Stability. <i>Annals of Glaciology</i> , 1984, 5, 106-110.	1.4	3
76	An analytical expression for the total band absorptance of infrared-radiating gases. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1983, 29, 279-281.	2.3	16
77	Coupled effects of atmospheric N ₂ O and O ₃ on the Earth's climate. <i>Nature</i> , 1980, 286, 589-590.	27.8	100