

Congbin Fu

List of Publications by Year in descending order

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128
papers

8,415
citations

50170

46
h-index

49773

87
g-index

132
all docs

132
docs citations

132
times ranked

7982
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced haze pollution by black carbon in megacities in China. <i>Geophysical Research Letters</i> , 2016, 43, 2873-2879.	1.5	590
2	Dryland climate change: Recent progress and challenges. <i>Reviews of Geophysics</i> , 2017, 55, 719-778.	9.0	507
3	Steady decline of east Asian monsoon winds, 1969–2000: Evidence from direct ground measurements of wind speed. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	397
4	Ozone and fine particle in the western Yangtze River Delta: an overview of 1 yr data at the SORPES station. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5813-5830.	1.9	352
5	Intense atmospheric pollution modifies weather: a case of mixed biomass burning with fossil fuel combustion pollution in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10545-10554.	1.9	286
6	Enhanced air pollution via aerosol-boundary layer feedback in China. <i>Scientific Reports</i> , 2016, 6, 18998.	1.6	285
7	An overview of the Semi-arid Climate and Environment Research Observatory over the Loess Plateau. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 906-921.	1.9	252
8	Regional Climate Model Intercomparison Project for Asia. <i>Bulletin of the American Meteorological Society</i> , 2005, 86, 257-266.	1.7	248
9	Some evidence of drying trend over northern China from 1951 to 2004. <i>Science Bulletin</i> , 2006, 51, 2913-2925.	1.7	193
10	Temperature dependence of global precipitation extremes. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	182
11	Amplified transboundary transport of haze by aerosol–boundary layer interaction in China. <i>Nature Geoscience</i> , 2020, 13, 428-434.	5.4	178
12	Potential impacts of human-induced land cover change on East Asia monsoon. <i>Global and Planetary Change</i> , 2003, 37, 219-219.	1.6	161
13	Characteristics of the Response of Sea Surface Temperature in the Central Pacific Associated with Warm Episodes of the Southern Oscillation. <i>Monthly Weather Review</i> , 1986, 114, 1716-1739.	0.5	160
14	Impact of synoptic weather patterns and inter-decadal climate variability on air quality in the North China Plain during 1980–2013. <i>Atmospheric Environment</i> , 2016, 124, 119-128.	1.9	160
15	Advances in studying interactions between aerosols and monsoon in China. <i>Science China Earth Sciences</i> , 2016, 59, 1-16.	2.3	153
16	The Asian Nitrogen Cycle Case Study. <i>Ambio</i> , 2002, 31, 79-87.	2.8	151
17	Significant reduction of PM _{2.5} in eastern China due to regional-scale emission control: evidence from SORPES in 2011–2018. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1721-1739.	1.9	148
18	Search for a Long-Range Odd Interaction from Axionlike Particles Using Dual-Species Nuclear Magnetic Resonance with Polarized Xe	2.9	140

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19	Enhanced sulfate formation by nitrogen dioxide: Implications from in situ observations at the SORPES station. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 12679-12694.	1.2	122
20	Developed and developing world responsibilities for historical climate change and CO ₂ mitigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12911-12915.	3.3	115
21	Aerosol size distribution and new particle formation in the western Yangtze River Delta of China: 2 years of measurements at the SORPES station. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12445-12464.	1.9	112
22	Effects of aerosol-radiation interaction on precipitation during biomass-burning season in East China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10063-10082.	1.9	108
23	Transport characteristics and origins of carbon monoxide and ozone in Hong Kong, South China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9475-9488.	1.2	98
24	Influence of biomass burning plumes on HONO chemistry in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1147-1159.	1.9	96
25	How much do precipitation extremes change in a warming climate?. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	91
26	Impact of revegetation of the Loess Plateau of China on the regional growing season water balance. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 515-533.	1.9	88
27	Calibrating and Evaluating Reanalysis Surface Temperature Error by Topographic Correction. <i>Journal of Climate</i> , 2008, 21, 1440-1446.	1.2	84
28	Deriving maximal light use efficiency from coordinated flux measurements and satellite data for regional gross primary production modeling. <i>Remote Sensing of Environment</i> , 2010, 114, 2248-2258.	4.6	83
29	Variability in climatology and agricultural production in China in association with the East Asian summer monsoon and El Niño Southern Oscillation. <i>Climate Research</i> , 2004, 28, 23-30.	0.4	80
30	Long-term observation of air pollution-weather/climate interactions at the SORPES station: a review and outlook. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	3.3	75
31	Comparison of products from ERA-40, NCEP-2, and CRU with station data for summer precipitation over China. <i>Advances in Atmospheric Sciences</i> , 2006, 23, 593-604.	1.9	73
32	Relationships between surface albedo, soil thermal parameters and soil moisture in the semi-arid area of Tongyu, northeastern China. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 757-764.	1.9	72
33	Aerosols and nucleation in eastern China: first insights from the new SORPES-NJU station. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2169-2183.	1.9	72
34	Changes in the Amplitude of the Temperature Annual Cycle in China and Their Implication for Climate Change Research. <i>Journal of Climate</i> , 2011, 24, 5292-5302.	1.2	67
35	On the characteristics of aerosol indirect effect based on dynamic regimes in global climate models. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 2765-2783.	1.9	67
36	On Changing El Niño: A View from Time-Varying Annual Cycle, Interannual Variability, and Mean State. <i>Journal of Climate</i> , 2011, 24, 6486-6500.	1.2	65

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37	Spring Land Surface and Subsurface Temperature Anomalies and Subsequent Downstream Late Springâ€¦Summer Droughts/Floods in North America and East Asia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5001-5019.	1.2	65
38	Decadal Variations in the Relationship between the Western Pacific Subtropical High and Summer Heat Waves in East China. Journal of Climate, 2019, 32, 1627-1640.	1.2	64
39	Interannual characteristics of the surface hydrological variables over the arid and semi-arid areas of northern China. Global and Planetary Change, 2003, 37, 189-189.	1.6	60
40	Global aridification in the second half of the 20th century and its relationship to large-scale climate background. Science in China Series D: Earth Sciences, 2007, 50, 776-788.	0.9	60
41	On the secular change of spring onset at Stockholm. Geophysical Research Letters, 2009, 36, .	1.5	58
42	Title is missing!. Climatic Change, 1999, 43, 477-494.	1.7	57
43	Investigating diurnal and seasonal climatic response to land use and land cover change over monsoon Asia with the Community Earth System Model. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1137-1152.	1.2	57
44	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the landâ€¦atmosphereâ€¦oceanâ€¦society continuum in the northern Eurasian region. Atmospheric Chemistry and Physics, 2016, 16, 14421-14461.	1.9	57
45	Aerosol-boundary-layer-monsoon interactions amplify semi-direct effect of biomass smoke on low cloud formation in Southeast Asia. Nature Communications, 2021, 12, 6416.	5.8	53
46	Friedel-Like Oscillations from Interstitial Iron in Superconducting $\text{Fe}_{1-y}\text{V}_y$ Physical Review Letters, 2012, 108, 107002.	2.9	51
47	An virtual numerical experiment to understand the impacts of recovering natural vegetation on the summer climate and environmental conditions in East Asia. Science Bulletin, 2001, 46, 1199-1203.	1.7	48
48	Anthropogenic aerosol effects on East Asian winter monsoon: The role of black carbonâ€¦induced Tibetan Plateau warming. Journal of Geophysical Research D: Atmospheres, 2017, 122, 5883-5902.	1.2	47
49	Comparison of four ensemble methods combining regional climate simulations over Asia. Meteorology and Atmospheric Physics, 2011, 111, 41-53.	0.9	46
50	The role of changes in the annual cycle in earlier onset of climatic spring in northern China. Advances in Atmospheric Sciences, 2011, 28, 284-296.	1.9	45
51	Trends in temperature extremes in association with weather-intraseasonal fluctuations in eastern China. Advances in Atmospheric Sciences, 2011, 28, 297-309.	1.9	44
52	On multi-timescale variability of temperature in China in modulated annual cycle reference frame. Advances in Atmospheric Sciences, 2010, 27, 1169-1182.	1.9	43
53	Inter-comparison of 10-year precipitation simulated by several RCMs for Asia. Advances in Atmospheric Sciences, 2006, 23, 531-542.	1.9	42
54	The Nonradiative Effect Dominates Local Surface Temperature Change Caused by Afforestation in China. Journal of Climate, 2019, 32, 4445-4471.	1.2	42

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55	Simulation of the radiative effect of black carbon aerosols and the regional climate responses over China. <i>Advances in Atmospheric Sciences</i> , 2004, 21, 637-649.	1.9	40
56	Performance of convective parameterization schemes in Asia using RegCM: Simulations in three typical regions for the period 1998â€“2002. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 715-730.	1.9	40
57	Changing rapid weather variability increases influenza epidemic risk in a warming climate. <i>Environmental Research Letters</i> , 2020, 15, 044004.	2.2	40
58	Analyzing the effects of climate variability and human activities on runoff from the Laohahe basin in northern China. <i>Hydrology Research</i> , 2012, 43, 3-13.	1.1	39
59	Aerosol Optical Properties Observed at a Semi-Arid Rural Site in Northeastern China. <i>Aerosol and Air Quality Research</i> , 2012, 12, 503-514.	0.9	39
60	Statistical downscaling of summer temperature extremes in northern China. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 1085-1095.	1.9	38
61	Ensemble evaluation and projection of climate extremes in China using RMIP models. <i>International Journal of Climatology</i> , 2018, 38, 2039-2055.	1.5	36
62	Transport, mixing and feedback of dust, biomass burning and anthropogenic pollutants in eastern Asia: a case study. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 16345-16361.	1.9	36
63	Simulation of direct effects of black carbon aerosol on temperature and hydrological cycle in Asia by a Regional Climate Model. <i>Meteorology and Atmospheric Physics</i> , 2008, 100, 179-193.	0.9	35
64	Sensitivity of a regional climate model to land surface parameterization schemes for East Asian summer monsoon simulation. <i>Climate Dynamics</i> , 2016, 47, 2293-2308.	1.7	34
65	The surface aerosol optical properties in the urban area of Nanjing, west Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1143-1160.	1.9	34
66	Characteristics of elemental composition of PM2.5 in the spring period at Tongyu in the semi-arid region of Northeast China. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 922-931.	1.9	33
67	Aerosol optical properties at SORPES in Nanjing, east China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5265-5292.	1.9	33
68	Study of the sensitivity of a regional model in response to land cover change over northern China. <i>Hydrological Processes</i> , 1998, 12, 2249-2265.	1.1	32
69	Three-year variations of water, energy and CO2 fluxes of cropland and degraded grassland surfaces in a semi-arid area of Northeastern China. <i>Advances in Atmospheric Sciences</i> , 2008, 25, 1009-1020.	1.9	32
70	Mudslideâ€“caused ecosystem degradation following Wenchuan earthquake 2008. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	32
71	Highâ€“frequency daily temperature variability in China and its relationship to largeâ€“scale circulation. <i>International Journal of Climatology</i> , 2017, 37, 570-582.	1.5	31
72	Assessment of GEWEX/SRB version 3.0 monthly global radiation dataset over China. <i>Meteorology and Atmospheric Physics</i> , 2011, 112, 155-166.	0.9	29

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73	Absorption coefficient of urban aerosol in Nanjing, west Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13633-13646.	1.9	29
74	Temporal characteristics of atmospheric CO ₂ in urban Nanjing, China. <i>Atmospheric Research</i> , 2015, 153, 437-450.	1.8	28
75	Observation-based estimation of aerosol-induced reduction of planetary boundary layer height. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1057-1068.	1.9	28
76	ENSO and Southeast Asian biomass burning modulate subtropical trans-Pacific ozone transport. <i>National Science Review</i> , 2021, 8, nwaa132.	4.6	28
77	Searching for New Spin- and Velocity-Dependent Interactions by Spin Relaxation of Polarized ^3He Gas. <i>Physical Review Letters</i> , 2015, 115, 182001.	2.9	27
78	New evidence for effects of land cover in China on summer climate. <i>Science Bulletin</i> , 2003, 48, 401-405.	1.7	26
79	Regional integrated environmental model system and its simulation of East Asia summer monsoon. <i>Science Bulletin</i> , 2009, 54, 4253-4261.	1.7	25
80	Climatic changes in the Twenty-four Solar Terms during 1960–2008. <i>Science Bulletin</i> , 2012, 57, 276-286.	1.7	23
81	Evaluation of the ERS Scatterometer-Derived Soil Water Index to Monitor Water Availability and Precipitation Distribution at Three Different Scales in China. <i>Journal of Hydrometeorology</i> , 2008, 9, 549-562.	0.7	22
82	Change of precipitation intensity spectra at different spatial scales under warming conditions. <i>Science Bulletin</i> , 2013, 58, 1385-1394.	1.7	22
83	Assimilation of Remotely Sensed LAI Into CLM4CN Using DART. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2768-2786.	1.3	20
84	Impact of future land use and land cover change on temperature projections over East Asia. <i>Climate Dynamics</i> , 2019, 52, 6475-6490.	1.7	20
85	Projection of global mean surface air temperature changes in next 40 years: Uncertainties of climate models and an alternative approach. <i>Science China Earth Sciences</i> , 2011, 54, 1400-1406.	2.3	19
86	On the ability of the regional climate model RIEMS to simulate the present climate over Asia. <i>Advances in Atmospheric Sciences</i> , 2006, 23, 784-791.	1.9	18
87	On the sensitivity of seasonal and diurnal precipitation to cumulus parameterization over CORDEX-EA-II. <i>Climate Dynamics</i> , 2020, 54, 373-393.	1.7	17
88	The performance of CORDEX-EA-II simulations in simulating seasonal temperature and elevation-dependent warming over the Tibetan Plateau. <i>Climate Dynamics</i> , 2021, 57, 1135-1153.	1.7	17
89	Testing the ability of RIEMS2.0 to simulate multi-year precipitation and air temperature in China. <i>Science Bulletin</i> , 2009, 54, 3101-3111.	1.7	16
90	The role of land-sea distribution and orography in the Asian monsoon. Part II: Orography. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 528-542.	1.9	16

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91	Impacts of black carbon on the formation of advection-radiation fog during a haze pollution episode in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7759-7774.	1.9	16
92	Evaluation of the effects of a multiphysics ensemble on the simulation of an extremely hot summer in 2003 over the CORDEX-EA region. <i>International Journal of Climatology</i> , 2019, 39, 3413-3430.	1.5	16
93	Transitional Climate Zones and Biome Boundaries: A Case Study from China. <i>Ecological Studies</i> , 1992, , 394-402.	0.4	16
94	Simulation of the direct effects of dust aerosol on climate in East Asia. <i>Particuology</i> , 2010, 8, 301-307.	2.0	15
95	Composite analysis of impacts of dust aerosols on surface atmospheric variables and energy budgets in a semiarid region of China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3107-3123.	1.2	15
96	Regional integrated environmental modeling system: development and application. <i>Climatic Change</i> , 2015, 129, 499-510.	1.7	15
97	The earth system: regional-global linkages. <i>Regional Environmental Change</i> , 2001, 2, 128-140.	1.4	14
98	Relative Roles of Land-Sea Distribution and Orography in Asian Monsoon Intensity. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 2714-2729.	0.6	14
99	Long-term trend of temperature derived by statistical downscaling based on EOF analysis. <i>Journal of Meteorological Research</i> , 2011, 25, 327-339.	1.0	14
100	Do Uncertainties in the Reconstruction of Land Cover Affect the Simulation of Air Temperature and Rainfall in the CORDEX Region of East Asia?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3647-3670.	1.2	14
101	Correlations between North Atlantic Oscillation Index in winter and eastern China Flood/Drought Index in summer in the last 530 years. <i>Science Bulletin</i> , 2005, 50, 2505-2516.	1.7	13
102	Comparison between two statistical downscaling methods for summer daily rainfall in Chongqing, China. <i>International Journal of Climatology</i> , 2015, 35, 3781-3797.	1.5	13
103	Multivariable integrated evaluation of model performance with the vector field evaluation diagram. <i>Geoscientific Model Development</i> , 2017, 10, 3805-3820.	1.3	11
104	Effects of total aerosol on temperature and precipitation in East Asia. <i>Climate Research</i> , 2009, 40, 75-87.	0.4	11
105	A Modeling Study of a Typical Winter PM2.5 Pollution Episode in a City in Eastern China. <i>Aerosol and Air Quality Research</i> , 2014, 14, 311-322.	0.9	11
106	Comparison of simulating mineral dust aerosols in east asia by two emission schemes. <i>Particuology: Science and Technology of Particles</i> , 2006, 4, 293-299.	0.4	10
107	Intercomparison of the summertime subtropical high from the ERA-40 and NCEP/NCAR reanalysis over East Eurasia and the western North Pacific. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 119-131.	1.9	9
108	El Nino/Southern oscillation signals in the global tropical ocean. <i>Advances in Atmospheric Sciences</i> , 1988, 5, 35-45.	1.9	8

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109	The role of land-sea distribution and orography in the asian monsoon. Part I: Land-sea distribution. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 403-420.	1.9	8
110	Regional-Global Interactions in East Asia. , 2002, , 109-149.		8
111	Streamflow simulation for the Yellow River basin using RIEMS and LRM. <i>Advances in Atmospheric Sciences</i> , 2003, 20, 415-424.	1.9	7
112	A new approach for parameter optimization in land surface model. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 1056-1066.	1.9	7
113	An integrated evaluation of land surface energy fluxes over China in seven reanalysis/modeling products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8543-8566.	1.2	7
114	Change of extreme snow events shaped the roof of traditional Chinese architecture in the past millennium. <i>Science Advances</i> , 2021, 7, eabh2601.	4.7	7
115	Global pattern of historical and future changes in rapid temperature variability. <i>Environmental Research Letters</i> , 2020, 15, 124073.	2.2	7
116	Future trends of climatic belts and seasons in China. <i>International Journal of Climatology</i> , 2008, 28, 1483-1491.	1.5	6
117	Study on response of ecosystem to the East Asian monsoon in eastern China using LAI data derived from remote sensing information*. <i>Progress in Natural Science: Materials International</i> , 2004, 14, 279-282.	1.8	5
118	A Frequency Determination Method for Digitized NMR Signals. <i>Communications in Computational Physics</i> , 2014, 15, 1343-1351.	0.7	5
119	From climate to global change: Following the footprint of Prof. Duzheng YE's research. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1159-1168.	1.9	5
120	Evaluating CEOP model performance in semi-arid region of China. <i>Environmental Research Letters</i> , 2012, 7, 025202.	2.2	4
121	Effects of extrusion and supplementation of exogenous enzymes to diets containing Chinese storage brown rice on the carbohydrase activity in the digestive tract of piglets. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2010, 94, 146-153.	1.0	3
122	Review on Studies of Air Pollution and Climate Change Interactions in Monsoon Asia. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2017, , 315-326.	0.2	3
123	Aridity Trend in Northern China. , 2008, , 155-217.		3
124	A new index to describe the tropical Asian summer monsoon. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 843-854.	0.9	2
125	Stress fields in granular material and implications for performance of robot locomotion over granular media. <i>Journal of Advances in Physics</i> , 2015, 8, 2005-2009.	0.2	1
126	Simulating canopy stomatal conductance of winter wheat and its distribution using remote sensing information. <i>Journal of Environmental Sciences</i> , 2001, 13, 439-43.	3.2	1

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127	Introducing a new international program: monsoon asia integrated regional study (MAIRS). Particuology: Science and Technology of Particles, 2006, 4, 352-355.	0.4	0
128	LAND USE AND LAND COVER CHANGE IN EAST ASIA AND ITS POTENTIAL IMPACTS ON MONSOON CLIMATE. Monsoon Asia Integrated Regional Study on Global Change, 2008, , 149-161.	0.0	0