

# Congbin Fu

## List of Publications by Year in descending order

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128  
papers

8,415  
citations

50276

46  
h-index

49909

87  
g-index

132  
all docs

132  
docs citations

132  
times ranked

7982  
citing authors

#	ARTICLE	IF	CITATIONS
1	ENSO and Southeast Asian biomass burning modulate subtropical trans-Pacific ozone transport. National Science Review, 2021, 8, nwa132.	9.5	28
2	The performance of CORDEX-EA-II simulations in simulating seasonal temperature and elevation-dependent warming over the Tibetan Plateau. Climate Dynamics, 2021, 57, 1135-1153.	3.8	17
3	Change of extreme snow events shaped the roof of traditional Chinese architecture in the past millennium. Science Advances, 2021, 7, eab2601.	10.3	7
4	Aerosol-boundary-layer-monsoon interactions amplify semi-direct effect of biomass smoke on low cloud formation in Southeast Asia. Nature Communications, 2021, 12, 6416.	12.8	53
5	On the sensitivity of seasonal and diurnal precipitation to cumulus parameterization over CORDEX-EA-II. Climate Dynamics, 2020, 54, 373-393.	3.8	17
6	Impact of revegetation of the Loess Plateau of China on the regional growing season water balance. Hydrology and Earth System Sciences, 2020, 24, 515-533.	4.9	88
7	Amplified transboundary transport of haze by aerosol-boundary layer interaction in China. Nature Geoscience, 2020, 13, 428-434.	12.9	178
8	Changing rapid weather variability increases influenza epidemic risk in a warming climate. Environmental Research Letters, 2020, 15, 044004.	5.2	40
9	Global pattern of historical and future changes in rapid temperature variability. Environmental Research Letters, 2020, 15, 124073.	5.2	7
10	Assimilation of Remotely Sensed LAI Into CLM4CN Using DART. Journal of Advances in Modeling Earth Systems, 2019, 11, 2768-2786.	3.8	20
11	Significant reduction of PM <sub>2.5</sub> in eastern China due to regional-scale emission control: evidence from SORPES in 2011-2018. Atmospheric Chemistry and Physics, 2019, 19, 11791-11801.	4.9	148
12	Impacts of black carbon on the formation of advection-radiation fog during a haze pollution episode in eastern China. Atmospheric Chemistry and Physics, 2019, 19, 7759-7774.	4.9	16
13	The Nonradiative Effect Dominates Local Surface Temperature Change Caused by Afforestation in China. Journal of Climate, 2019, 32, 4445-4471.	3.2	42
14	Evaluation of the effects of a multiphysics ensemble on the simulation of an extremely hot summer in 2003 over the CORDEX-EA-II region. International Journal of Climatology, 2019, 39, 3413-3430.	3.5	16
15	Do Uncertainties in the Reconstruction of Land Cover Affect the Simulation of Air Temperature and Rainfall in the CORDEX Region of East Asia?. Journal of Geophysical Research D: Atmospheres, 2019, 124, 3647-3670.	3.3	14
16	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.	3.2	64
17	Impact of future land use and land cover change on temperature projections over East Asia. Climate Dynamics, 2019, 52, 6475-6490.	3.8	20
18	Spring Land Surface and Subsurface Temperature Anomalies and Subsequent Downstream Late Spring-Summer Droughts/Floods in North America and East Asia. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5001-5019.	3.3	65

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19	Ensemble evaluation and projection of climate extremes in China using RMIP models. <i>International Journal of Climatology</i> , 2018, 38, 2039-2055.	3.5	36
20	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.	4.9	36
21	Aerosol optical properties at SORPES in Nanjing, east China. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5265-5292.	4.9	33
22	High-frequency daily temperature variability in China and its relationship to large-scale circulation. <i>International Journal of Climatology</i> , 2017, 37, 570-582.	3.5	31
23	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
24	Anthropogenic aerosol effects on East Asian winter monsoon: The role of black carbon-induced Tibetan Plateau warming. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5883-5902.	3.3	47
25	From climate to global change: Following the footprint of Prof. Duzheng YE's research. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1159-1168.	4.3	5
26	Observation-based estimation of aerosol-induced reduction of planetary boundary layer height. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1057-1068.	4.3	28
27	Dryland climate change: Recent progress and challenges. <i>Reviews of Geophysics</i> , 2017, 55, 719-778.	23.0	507
28	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.	3.3	7
29	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.	4.9	34
30	Multivariable integrated evaluation of model performance with the vector field evaluation diagram. <i>Geoscientific Model Development</i> , 2017, 10, 3805-3820.	3.6	11
31	Enhanced haze pollution by black carbon in megacities in China. <i>Geophysical Research Letters</i> , 2016, 43, 2873-2879.	4.0	590
32	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.	6.0	75
33	Enhanced air pollution via aerosol-boundary layer feedback in China. <i>Scientific Reports</i> , 2016, 6, 18998.	3.3	285
34	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.	4.9	67
35	Effects of aerosol-radiation interaction on precipitation during biomass-burning season in East China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10063-10082.	4.9	108
36	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14421-14461.	4.9	57

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37	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.	3.8	34
38	Advances in studying interactions between aerosols and monsoon in China. <i>Science China Earth Sciences</i> , 2016, 59, 1-16.	5.2	153
39	Impact of synoptic weather patterns and inter-decadal climate variability on air quality in the North China Plain during 1980â€“2013. <i>Atmospheric Environment</i> , 2016, 124, 119-128.	4.1	160
40	Investigating diurnal and seasonal climatic response to land use and land cover change over monsoon Asia with the Community Earth System Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1137-1152.	3.3	57
41	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.	3.3	122
42	Searching for New Spin- and Velocity-Dependent Interactions by Spin Relaxation of Polarized $\frac{d\langle S_x \rangle}{dt} = \langle S_x \rangle \left( \frac{1}{T_1} - \gamma \right) + \langle S_y \rangle \left( \frac{1}{T_2} - \gamma \right) + \langle S_z \rangle \left( \frac{1}{T_3} - \gamma \right) + \langle S_x \rangle \langle S_y \rangle \left( \frac{1}{T_4} - \gamma \right) + \langle S_x \rangle \langle S_z \rangle \left( \frac{1}{T_5} - \gamma \right) + \langle S_y \rangle \langle S_z \rangle \left( \frac{1}{T_6} - \gamma \right) + \langle S_x \rangle \langle S_y \rangle \langle S_z \rangle \left( \frac{1}{T_7} - \gamma \right)$ Physical Review Letters, 2015, 115, 182001.	7.8	27
43	Influence of biomass burning plumes on HONO chemistry in eastern China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1147-1159.	4.9	96
44	Absorption coefficient of urban aerosol in Nanjing, west Yangtze River Delta, China. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13633-13646.	4.9	29
45	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.	4.9	112
46	Comparison between two statistical downscaling methods for summer daily rainfall in Chongqing, China. <i>International Journal of Climatology</i> , 2015, 35, 3781-3797.	3.5	13
47	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.	4.3	40
48	Regional integrated environmental modeling system: development and application. <i>Climatic Change</i> , 2015, 129, 499-510.	3.6	15
49	Temporal characteristics of atmospheric CO <sub>2</sub> in urban Nanjing, China. <i>Atmospheric Research</i> , 2015, 153, 437-450.	4.1	28
50	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
51	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.	3.3	15
52	A Frequency Determination Method for Digitized NMR Signals. <i>Communications in Computational Physics</i> , 2014, 15, 1343-1351.	1.7	5
53	Aerosols and nucleation in eastern China: first insights from the new SORPES-NJU station. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2169-2183.	4.9	72
54	A Modeling Study of a Typical Winter PM <sub>2.5</sub> Pollution Episode in a City in Eastern China. <i>Aerosol and Air Quality Research</i> , 2014, 14, 311-322.	2.1	11

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55	Statistical downscaling of summer temperature extremes in northern China. <i>Advances in Atmospheric Sciences</i> , 2013, 30, 1085-1095.	4.3	38
56	Change of precipitation intensity spectra at different spatial scales under warming conditions. <i>Science Bulletin</i> , 2013, 58, 1385-1394.	1.7	22
57	$P < \text{Odd Interaction from Axionlike Particles Using Dual-Species Nuclear Magnetic Resonance with Polarized}$	7.8	140
58	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.	4.9	286
59	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.	4.9	352
60	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.	3.3	98
61	Evaluating CEOP model performance in semi-arid region of China. <i>Environmental Research Letters</i> , 2012, 7, 025202.	5.2	4
62	Developed and developing world responsibilities for historical climate change and CO <sub>2</sub> mitigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12911-12915.	7.1	115
63	Friedel-Like Oscillations from Interstitial Iron in Superconducting $\text{Fe}_{1-x}\text{Co}_x\text{Se}$ . <i>Physical Review Letters</i> , 2012, 108, 107002.	7.8	51
64	How much do precipitation extremes change in a warming climate?. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	91
65	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.	2.7	39
66	Climatic changes in the Twenty-four Solar Terms during 1960–2008. <i>Science Bulletin</i> , 2012, 57, 276-286.	1.7	23
67	Aerosol Optical Properties Observed at a Semi-Arid Rural Site in Northeastern China. <i>Aerosol and Air Quality Research</i> , 2012, 12, 503-514.	2.1	39
68	Comparison of four ensemble methods combining regional climate simulations over Asia. <i>Meteorology and Atmospheric Physics</i> , 2011, 111, 41-53.	2.0	46
69	Assessment of GEWEX/SRB version 3.0 monthly global radiation dataset over China. <i>Meteorology and Atmospheric Physics</i> , 2011, 112, 155-166.	2.0	29
70	A new approach for parameter optimization in land surface model. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 1056-1066.	4.3	7
71	The role of changes in the annual cycle in earlier onset of climatic spring in northern China. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 284-296.	4.3	45
72	Trends in temperature extremes in association with weather-intraseasonal fluctuations in eastern China. <i>Advances in Atmospheric Sciences</i> , 2011, 28, 297-309.	4.3	44

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73	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
74	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.	5.2	19
75	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.	3.2	65
76	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.	3.2	67
77	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.	4.3	8
78	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.	4.3	16
79	On multi-timescale variability of temperature in China in modulated annual cycle reference frame. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 1169-1182.	4.3	43
80	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.	11.0	83
81	Simulation of the direct effects of dust aerosol on climate in East Asia. <i>Particuology</i> , 2010, 8, 301-307.	3.6	15
82	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.	2.2	3
83	Relative Roles of Land-Sea Distribution and Orography in Asian Monsoon Intensity. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 2714-2729.	1.7	14
84	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
85	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
86	Regional integrated environmental model system and its simulation of East Asia summer monsoon. <i>Science Bulletin</i> , 2009, 54, 4253-4261.	1.7	25
87	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.	4.3	9
88	On the secular change of spring onset at Stockholm. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	58
89	Temperature dependence of global precipitation extremes. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	182
90	Mudslide-caused ecosystem degradation following Wenchuan earthquake 2008. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	32

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91	Effects of total aerosol on temperature and precipitation in East Asia. <i>Climate Research</i> , 2009, 40, 75-87.	1.1	11
92	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.	4.3	72
93	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.	4.3	252
94	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.	4.3	33
95	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.	4.3	32
96	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.	2.0	35
97	Future trends of climatic belts and seasons in China. <i>International Journal of Climatology</i> , 2008, 28, 1483-1491.	3.5	6
98	Calibrating and Evaluating Reanalysis Surface Temperature Error by Topographic Correction. <i>Journal of Climate</i> , 2008, 21, 1440-1446.	3.2	84
99	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.	1.9	22
100	Aridity Trend in Northern China. , 2008, , 155-217.		3
101	LAND USE AND LAND COVER CHANGE IN EAST ASIA AND ITS POTENTIAL IMPACTS ON MONSOON CLIMATE. <i>Monsoon Asia Integrated Regional Study on Global Change</i> , 2008, , 149-161.	0.0	0
102	Global aridification in the second half of the 20th century and its relationship to large-scale climate background. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 776-788.	0.9	60
103	Steady decline of east Asian monsoon winds, 1969â€“2000: Evidence from direct ground measurements of wind speed. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	397
104	Comparison of simulating mineral dust aerosols in east asia by two emission schemes. <i>Particology: Science and Technology of Particles</i> , 2006, 4, 293-299.	0.4	10
105	Introducing a new international program: monsoon asia integrated regional study (MAIRS). <i>Particology: Science and Technology of Particles</i> , 2006, 4, 352-355.	0.4	0
106	Inter-comparison of 10-year precipitation simulated by several RCMs for Asia. <i>Advances in Atmospheric Sciences</i> , 2006, 23, 531-542.	4.3	42
107	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.	4.3	73
108	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.	4.3	18

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109	Some evidence of drying trend over northern China from 1951 to 2004. <i>Science Bulletin</i> , 2006, 51, 2913-2925.	1.7	193
110	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
111	Regional Climate Model Intercomparison Project for Asia. <i>Bulletin of the American Meteorological Society</i> , 2005, 86, 257-266.	3.3	248
112	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.	4.3	40
113	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.	4.4	5
114	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.	1.1	80
115	Streamflow simulation for the Yellow River basin using RIEMS and LRM. <i>Advances in Atmospheric Sciences</i> , 2003, 20, 415-424.	4.3	7
116	New evidence for effects of land cover in China on summer climate. <i>Science Bulletin</i> , 2003, 48, 401-405.	1.7	26
117	Interannual characteristics of the surface hydrological variables over the arid and semi-arid areas of northern China. <i>Global and Planetary Change</i> , 2003, 37, 189-189.	3.5	60
118	Potential impacts of human-induced land cover change on East Asia monsoon. <i>Global and Planetary Change</i> , 2003, 37, 219-219.	3.5	161
119	The Asian Nitrogen Cycle Case Study. <i>Ambio</i> , 2002, 31, 79-87.	5.5	151
120	Regional-Global Interactions in East Asia. , 2002, , 109-149.		8
121	The earth system: regionalâ€“global linkages. <i>Regional Environmental Change</i> , 2001, 2, 128-140.	2.9	14
122	An virtual numerical experiment to understand the impacts of recovering natural vegetation on the summer climate and environmental conditions in East Asia. <i>Science Bulletin</i> , 2001, 46, 1199-1203.	1.7	48
123	Simulating canopy stomatal conductance of winter wheat and its distribution using remote sensing information. <i>Journal of Environmental Sciences</i> , 2001, 13, 439-43.	6.1	1
124	Title is missing!. <i>Climatic Change</i> , 1999, 43, 477-494.	3.6	57
125	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.	2.6	32
126	Transitional Climate Zones and Biome Boundaries: A Case Study from China. <i>Ecological Studies</i> , 1992, , 394-402.	1.2	16



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127	El Nino/Southern oscillation signals in the global tropical ocean. <i>Advances in Atmospheric Sciences</i> , 1988, 5, 35-45.	4.3	8
128	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.	1.4	160