

# Xuhui Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

7,018  
citations

117625

34  
h-index

128289

60  
g-index

60  
all docs

60  
docs citations

60  
times ranked

9516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of the initial hydrophilic ratio on black carbon aerosols in the Arctic. <i>Science of the Total Environment</i> , 2022, 817, 153044.	8.0	3
2	Drivers of foliar $^{15}\text{N}$ trends in southern China over the last century. <i>Global Change Biology</i> , 2022, 28, 5441-5452.	9.5	7
3	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. <i>National Science Review</i> , 2021, 8, nwaal45.	9.5	70
4	Trace Elements From Ocean-Going Vessels in East Asia: Vanadium and Nickel Emissions and Their Impacts on Air Quality. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033984.	3.3	25
5	Spatially explicit analysis identifies significant potential for bioenergy with carbon capture and storage in China. <i>Nature Communications</i> , 2021, 12, 3159.	12.8	58
6	The Warming Climate Aggravates Atmospheric Nitrogen Pollution in Australia. <i>Research</i> , 2021, 2021, 9804583.	5.7	9
7	Predicting the effect of confinement on the COVID-19 spread using machine learning enriched with satellite air pollution observations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	16
8	Response to Comments on "Recent global decline of $\text{CO}_2$ fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021, 373, eabg7484.	12.6	15
9	Comment on "Recent global decline of $\text{CO}_2$ fertilization effects on vegetation photosynthesis". <i>Science</i> , 2021, 373, eabg4420.	12.6	18
10	Monitoring Compliance in Pandemic Management with Air Pollution Data: A Lesson From COVID-19. <i>Environmental Science &amp; Technology</i> , 2021, 55, 13571-13574.	10.0	1
11	Summer soil drying exacerbated by earlier spring greening of northern vegetation. <i>Science Advances</i> , 2020, 6, eaax0255.	10.3	258
12	Missed atmospheric organic phosphorus emitted by terrestrial plants, part 2: Experiment of volatile phosphorus. <i>Environmental Pollution</i> , 2020, 258, 113728.	7.5	10
13	Daily CO <sub>2</sub> Emission Reduction Indicates the Control of Activities to Contain COVID-19 in China. <i>Innovation(China)</i> , 2020, 1, 100062.	9.1	25
14	Province-level fossil fuel CO <sub>2</sub> emission estimates for China based on seven inventories. <i>Journal of Cleaner Production</i> , 2020, 277, 123377.	9.3	19
15	A city-level comparison of fossil-fuel and industry processes-induced CO <sub>2</sub> emissions over the Beijing-Tianjin-Hebei region from eight emission inventories. <i>Carbon Balance and Management</i> , 2020, 15, 25.	3.2	22
16	Recent global decline of $\text{CO}_2$ fertilization effects on vegetation photosynthesis. <i>Science</i> , 2020, 370, 1295-1300.	12.6	317
17	Deceleration of China's human water use and its key drivers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7702-7711.	7.1	155
18	Evaluating China's fossil-fuel CO <sub>2</sub> emissions from a comprehensive dataset of nine inventories. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11371-11385.	4.9	36

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19	Induced Energy-Saving Efficiency Improvements Amplify Effectiveness of Climate Change Mitigation. <i>Joule</i> , 2019, 3, 2103-2119.	24.0	11
20	SIN3B promotes integrin $\beta$ 1 subunit gene transcription and cell migration of hepatocellular carcinoma. <i>Journal of Molecular Cell Biology</i> , 2019, 11, 421-432.	3.3	12
21	BRD1-Mediated Acetylation Promotes Integrin $\beta$ 1 Gene Expression Via Interaction with Sulfatide. <i>Molecular Cancer Research</i> , 2018, 16, 610-622.	3.4	13
22	Spatial Representativeness Error in the Ground-Level Observation Networks for Black Carbon Radiation Absorption. <i>Geophysical Research Letters</i> , 2018, 45, 2106-2114.	4.0	18
23	Potential of European $\beta$ 1 observation network to estimate the fossil fuel CO <sub>2</sub> emissions via atmospheric inversions. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4229-4250.	4.9	17
24	Modeling the impacts of atmospheric deposition of nitrogen and desert dust-derived phosphorus on nutrients and biological budgets of the Mediterranean Sea. <i>Progress in Oceanography</i> , 2018, 163, 21-39.	3.2	46
25	Persistent and widespread long-term phosphorus declines in Boreal lakes in Sweden. <i>Science of the Total Environment</i> , 2018, 613-614, 240-249.	8.0	60
26	Modeling the biogeochemical impact of atmospheric phosphate deposition from desert dust and combustion sources to the Mediterranean Sea. <i>Biogeosciences</i> , 2018, 15, 2499-2524.	3.3	49
27	Analysis of slight precipitation in China during the past decades and its relationship with advanced very high radiometric resolution normalized difference vegetation index. <i>International Journal of Climatology</i> , 2018, 38, 5563-5575.	3.5	2
28	GOLUM-CNP v1.0: a data-driven modeling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. <i>Geoscientific Model Development</i> , 2018, 11, 3903-3928.	3.6	32
29	Constrained simulation of aerosol species and sources during pre-monsoon season over the Indian subcontinent. <i>Atmospheric Research</i> , 2018, 214, 91-108.	4.1	8
30	Human activities altered water N:P ratios in the populated regions of China. <i>Chemosphere</i> , 2018, 210, 1070-1081.	8.2	31
31	Simulating CH <sub>4</sub> and CO <sub>2</sub> over South and East Asia using the zoomed chemistry transport model LMDz-INCA. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9475-9497.	4.9	18
32	Global and regional phosphorus budgets in agricultural systems and their implications for phosphorus-use efficiency. <i>Earth System Science Data</i> , 2018, 10, 1-18.	9.9	106
33	MiR-124 inhibits the migration and invasion of human hepatocellular carcinoma cells by suppressing integrin $\beta$ 1 expression. <i>Scientific Reports</i> , 2017, 7, 40733.	3.3	41
34	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. <i>Global Change Biology</i> , 2017, 23, 4854-4872.	9.5	158
35	Evidence for the Importance of Atmospheric Nitrogen Deposition to Eutrophic Lake Dianchi, China. <i>Environmental Science &amp; Technology</i> , 2017, 51, 6699-6708.	10.0	80
36	Estimation of observation errors for large-scale atmospheric inversion of CO <sub>2</sub> emissions from fossil fuel combustion. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2017, 69, 1325723.	1.6	16

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37	Summertime upper tropospheric nitrous oxide over the Mediterranean as a footprint of Asian emissions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4746-4759.	3.3	5
38	Estimation of global black carbon direct radiative forcing and its uncertainty constrained by observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5948-5971.	3.3	66
39	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016, 6, 791-795.	18.8	1,675
40	Jury is still out on the radiative forcing by black carbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5092-3.	7.1	43
41	The contribution of China's emissions to global climate forcing. <i>Nature</i> , 2016, 531, 357-361.	27.8	214
42	Influence of anthropogenic aerosol deposition on the relationship between oceanic productivity and warming. <i>Geophysical Research Letters</i> , 2015, 42, 10745-10754.	4.0	40
43	New model for capturing the variations of fertilizer-induced emission factors of N <sub>2</sub> O. <i>Global Biogeochemical Cycles</i> , 2015, 29, 885-897.	4.9	42
44	Global organic carbon emissions from primary sources from 1960 to 2009. <i>Atmospheric Environment</i> , 2015, 122, 505-512.	4.1	60
45	Benchmarking the seasonal cycle of CO <sub>2</sub> fluxes simulated by terrestrial ecosystem models. <i>Global Biogeochemical Cycles</i> , 2015, 29, 46-64.	4.9	48
46	Significant contribution of combustion-related emissions to the atmospheric phosphorus budget. <i>Nature Geoscience</i> , 2015, 8, 48-54.	12.9	207
47	Roles of galactose 3-O- sulfation in signaling. <i>Glycoconjugate Journal</i> , 2014, 31, 549-554.	2.7	3
48	Exposure to ambient black carbon derived from a unique inventory and high-resolution model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2459-2463.	7.1	148
49	Sulfatide epigenetically regulates miR-223 and promotes the migration of human hepatocellular carcinoma cells. <i>Journal of Hepatology</i> , 2014, 60, 792-801.	3.7	55
50	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014, 506, 212-215.	27.8	284
51	Quantification of Global Primary Emissions of PM <sub>2.5</sub> , PM <sub>10</sub> , and TSP from Combustion and Industrial Process Sources. <i>Environmental Science &amp; Technology</i> , 2014, 48, 13834-13843.	10.0	219
52	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. <i>Nature Communications</i> , 2014, 5, 5018.	12.8	414
53	Trend in Global Black Carbon Emissions from 1960 to 2007. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6780-6787.	10.0	114
54	A New High-Resolution N <sub>2</sub> O Emission Inventory for China in 2008. <i>Environmental Science &amp; Technology</i> , 2014, 48, 8538-8547.	10.0	82

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55	Evaluation of terrestrial carbon cycle models for their response to climate variability and to $\text{CO}_2$ trends. <i>Global Change Biology</i> , 2013, 19, 2117-2132.	9.5	617
56	Global Emission of Black Carbon from Motor Vehicles from 1960 to 2006. <i>Environmental Science &amp; Technology</i> , 2012, 46, 1278-1284.	10.0	43
57	Black Carbon Emissions in China from 1949 to 2050. <i>Environmental Science &amp; Technology</i> , 2012, 46, 7595-7603.	10.0	252
58	Spring temperature change and its implication in the change of vegetation growth in North America from 1982 to 2006. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1240-1245.	7.1	432
59	Change in winter snow depth and its impacts on vegetation in China. <i>Global Change Biology</i> , 2010, 16, 3004-3013.	9.5	115
60	Sources and Pathways of Polycyclic Aromatic Hydrocarbons Transported to Alert, the Canadian High Arctic. <i>Environmental Science &amp; Technology</i> , 2010, 44, 1017-1022.	10.0	58