Xuhui Wang

List of Publications by Year
in descending order

60	7,018	117625	128289
papers	citations	34	60
		h-index	g-index

60	60	60	9516
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Greening of the Earth and its drivers. Nature Climate Change, 2016, 6, 791-795.	18.8	1,675
2	Evaluation of terrestrial carbon cycle models for their response to climate variability and to CO_2 trends. Global Change Biology, 2013, 19, 2117-2132.	9.5	617
3	Spring temperature change and its implication in the change of vegetation growth in North America from 1982 to 2006. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1240-1245.	7.1	432
4	Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. Nature Communications, 2014, 5, 5018.	12.8	414
5	Recent global decline of CO_2 fertilization effects on vegetation photosynthesis. Science, 2020, 370, 1295-1300.	12.6	317
6	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. Nature, 2014, 506, 212-215.	27.8	284
7	Summer soil drying exacerbated by earlier spring greening of northern vegetation. Science Advances, 2020, 6, eaax0255.	10.3	258
8	Black Carbon Emissions in China from 1949 to 2050. Environmental Science & Technology, 2012, 46, 7595-7603.	10.0	252
9	Quantification of Global Primary Emissions of $PM_{2.5}$, PM_{10}, and TSP from Combustion and Industrial Process Sources. Environmental Science & Technology, 2014, 48, 13834-13843.	10.0	219
10	The contribution of China's emissions to global climate forcing. Nature, 2016, 531, 357-361.	27.8	214
11	Significant contribution of combustion-related emissions to the atmospheric phosphorus budget. Nature Geoscience, 2015, 8, 48-54.	12.9	207
12	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. Global Change Biology, 2017, 23, 4854-4872.	9.5	158
13	Deceleration of China's human water use and its key drivers. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7702-7711.	7.1	155
14	Exposure to ambient black carbon derived from a unique inventory and high-resolution model. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2459-2463.	7.1	148
15	Change in winter snow depth and its impacts on vegetation in China. Global Change Biology, 2010, 16, 3004-3013.	9.5	115
16	Trend in Global Black Carbon Emissions from 1960 to 2007. Environmental Science & Technology, 2014, 48, 6780-6787.	10.0	114
17	Global and regional phosphorus budgets in agricultural systems and their implications for phosphorus-use efficiency. Earth System Science Data, 2018, 10, 1-18.	9.9	106
18	A New High-Resolution N_2O Emission Inventory for China in 2008. Environmental Science & Technology, 2014, 48, 8538-8547.	10.0	82

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19	Evidence for the Importance of Atmospheric Nitrogen Deposition to Eutrophic Lake Dianchi, China. Environmental Science & Technology, 2017, 51, 6699-6708.	10.0	80
20	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. National Science Review, 2021, 8, nwaa145.	9.5	70
21	Estimation of global black carbon direct radiative forcing and its uncertainty constrained by observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5948-5971.	3.3	66
22	Global organic carbon emissions from primary sources from 1960 to 2009. Atmospheric Environment, 2015, 122, 505-512.	4.1	60
23	Persistent and widespread long-term phosphorus declines in Boreal lakes in Sweden. Science of the Total Environment, 2018, 613-614, 240-249.	8.0	60
24	Sources and Pathways of Polycyclic Aromatic Hydrocarbons Transported to Alert, the Canadian High Arctic. Environmental Science & Technology, 2010, 44, 1017-1022.	10.0	58
25	Spatially explicit analysis identifies significant potential for bioenergy with carbon capture and storage in China. Nature Communications, 2021, 12, 3159.	12.8	58
26	Sulfatide epigenetically regulates miR-223 and promotes the migration of human hepatocellular carcinoma cells. Journal of Hepatology, 2014, 60, 792-801.	3.7	55
27	Modeling the biogeochemical impact of atmospheric phosphate deposition from desert dust and combustion sources to the Mediterranean Sea. Biogeosciences, 2018, 15, 2499-2524.	3.3	49
28	Benchmarking the seasonal cycle of CO_2 fluxes simulated by terrestrial ecosystem models. Global Biogeochemical Cycles, 2015, 29, 46-64.	4.9	48
29	Modeling the impacts of atmospheric deposition of nitrogen and desert dust-derived phosphorus on nutrients and biological budgets of the Mediterranean Sea. Progress in Oceanography, 2018, 163, 21-39.	3.2	46
30	Global Emission of Black Carbon from Motor Vehicles from 1960 to 2006. Environmental Science & Technology, 2012, 46, 1278-1284.	10.0	43
31	Jury is still out on the radiative forcing by black carbon. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5092-3.	7.1	43
32	New model for capturing the variations of fertilizer‑induced emission factors of N_2O. Global Biogeochemical Cycles, 2015, 29, 885-897.	4.9	42
33	MiR-124 inhibits the migration and invasion of human hepatocellular carcinoma cells by suppressing integrin αV expression. Scientific Reports, 2017, 7, 40733.	3.3	41
34	Influence of anthropogenic aerosol deposition on the relationship between oceanic productivity and warming. Geophysical Research Letters, 2015, 42, 10745-10754.	4.0	40
35	Evaluating China's fossil-fuel CO&lt;sub&gt;2&lt;/sub&gt; emissions from a comprehensive dataset of nine inventories. Atmospheric Chemistry and Physics, 2020, 20, 11371-11385.	4.9	36
36	GOLUM-CNP v1.0: a data-driven modeling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. Geoscientific Model Development, 2018, 11, 3903-3928.	3.6	32

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37	Human activities altered water N:P ratios in the populated regions of China. Chemosphere, 2018, 210, 1070-1081.	8.2	31
38	Daily CO2 Emission Reduction Indicates the Control of Activities to Contain COVID-19 in China. Innovation(China), 2020, 1, 100062.	9.1	25
39	Trace Elements From Ocean‑Going Vessels in East Asia: Vanadium and Nickel Emissions and Their Impacts on Air Quality. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033984.	3.3	25
40	A city-level comparison of fossil-fuel and industry processes-induced CO2 emissions over the Beijing-Tianjin-Hebei region from eight emission inventories. Carbon Balance and Management, 2020, 15, 25.	3.2	22
41	Province-level fossil fuel CO2 emission estimates for China based on seven inventories. Journal of Cleaner Production, 2020, 277, 123377.	9.3	19
42	Spatial Representativeness Error in the Ground‑Level Observation Networks for Black Carbon Radiation Absorption. Geophysical Research Letters, 2018, 45, 2106-2114.	4.0	18
43	Simulating CH&lt;sub&gt;4&lt;/sub&gt; and CO&lt;sub&gt;2&lt;/sub&gt; over South and East Asia using the zoomed chemistry transport model LMDz-INCA. Atmospheric Chemistry and Physics, 2018, 18, 9475-9497.	4.9	18
44	Comment on â€œRecent global decline of CO $_2$ fertilization effects on vegetation photosynthesisâ€. Science, 2021, 373, eabg4420.	12.6	18
45	Potential of European &lt;sup&gt;14&lt;/sup&gt;CO&lt;sub&gt;2&lt;/sub&gt; observation network to estimate the fossil fuel CO&lt;sub&gt;2&lt;/sub&gt; emissions via atmospheric inversions. Atmospheric Chemistry and Physics, 2018, 18, 4229-4250.	4.9	17
46	Estimation of observation errors for large-scale atmospheric inversion of CO2 emissions from fossil fuel combustion. Tellus, Series B: Chemical and Physical Meteorology, 2017, 69, 1325723.	1.6	16
47	Predicting the effect of confinement on the COVID-19 spread using machine learning enriched with satellite air pollution observations. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
48	Response to Comments on â€œRecent global decline of CO $_2$ fertilization effects on vegetation photosynthesisâ€. Science, 2021, 373, eabg7484.	12.6	15
49	BRD1-Mediated Acetylation Promotes Integrin Î±V Gene Expression Via Interaction with Sulfatide. Molecular Cancer Research, 2018, 16, 610-622.	3.4	13
50	SIN3B promotes integrin Î±V subunit gene transcription and cell migration of hepatocellular carcinoma. Journal of Molecular Cell Biology, 2019, 11, 421-432.	3.3	12
51	Induced Energy-Saving Efficiency Improvements Amplify Effectiveness of Climate Change Mitigation. Joule, 2019, 3, 2103-2119.	24.0	11
52	Missed atmospheric organic phosphorus emitted by terrestrial plants, part 2: Experiment of volatile phosphorus. Environmental Pollution, 2020, 258, 113728.	7.5	10
53	The Warming Climate Aggravates Atmospheric Nitrogen Pollution in Australia. Research, 2021, 2021, 9804583.	5.7	9
54	Constrained simulation of aerosol species and sources during pre-monsoon season over the Indian subcontinent. Atmospheric Research, 2018, 214, 91-108.	4.1	8

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55	Drivers of foliar ^{15}N trends in southern China over the last century. Global Change Biology, 2022, 28, 5441-5452.	9.5	7
56	Summertime upper tropospheric nitrous oxide over the Mediterranean as a footprint of Asian emissions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 4746-4759.	3.3	5
57	Roles of galactose 3â€²-O- sulfation in signaling. Glycoconjugate Journal, 2014, 31, 549-554.	2.7	3
58	Impact of the initial hydrophilic ratio on black carbon aerosols in the Arctic. Science of the Total Environment, 2022, 817, 153044.	8.0	3
59	Analysis of slight precipitation in China during the past decades and its relationship with advanced very high radiometric resolution normalized difference vegetation index. International Journal of Climatology, 2018, 38, 5563-5575.	3.5	2
60	Monitoring Compliance in Pandemic Management with Air Pollution Data: A Lesson From COVID-19. Environmental Science & Technology, 2021, 55, 13571-13574.	10.0	1