Baojing Gu

List of Publications by Citations

79 papers	3,352 citations	32 h-index	57 g-index
98 ext. papers	4,670 ext. citations	10.1 avg, IF	5.53 L-index

#	Paper	IF	Citations
79	Integrated reactive nitrogen budgets and future trends in China. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 8792-7	11.5	283
78	Policy distortions, farm size, and the overuse of agricultural chemicals in China. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 7010-7015	11.5	243
77	Nitrate in groundwater of China: Sources and driving forces. *Global Environmental Change*, **2013**, 23, 1112-1121	10.1	209
76	Atmospheric reactive nitrogen in China: sources, recent trends, and damage costs. *Environmental Science & Technology*, **2012**, 46, 9420-7	10.3	160
75	Reducing China's fertilizer use by increasing farm size. *Global Environmental Change*, **2016**, 41, 26-32	10.1	154
74	PM pollution is substantially affected by ammonia emissions in China. *Environmental Pollution*, **2016**, 218, 86-94	9.3	131
73	Significant accumulation of nitrate in Chinese semi-humid croplands. *Scientific Reports*, **2016**, 6, 25088	4.9	102
72	Ammonia Emissions May Be Substantially Underestimated in China. *Environmental Science & Technology*, **2017**, 51, 12089-12096	10.3	98
71	Nitrogen footprint in China: food, energy, and nonfood goods. *Environmental Science & Technology*, **2013**, 47, 9217-24	10.3	97
70	Agricultural ammonia emissions contribute to China's urban air pollution. *Frontiers in Ecology and the Environment*, **2014**, 12, 265-266	5.5	79
69	Does growing vegetables in plastic greenhouses enhance regional ecosystem services beyond the food supply?. *Frontiers in Ecology and the Environment*, **2013**, 11, 43-49	5.5	77
68	Assessment of net ecosystem services of plastic greenhouse vegetable cultivation in China. *Ecological Economics*, **2011**, 70, 740-748	5.6	76
67	The impact of farm size on agricultural sustainability. *Journal of Cleaner Production*, **2019**, 220, 357-367	10.3	76
66	Constructed wetlands as biofuel production systems. *Nature Climate Change*, **2012**, 2, 190-194	21.4	73
65	Urban rivers as hotspots of regional nitrogen pollution. *Environmental Pollution*, **2015**, 205, 139-44	9.3	70
64	Nitrogen footprints: Regional realities and options to reduce nitrogen loss to the environment. *Ambio*, **2017**, 46, 129-142	6.5	70
63	The long-term impact of urbanization on nitrogen patterns and dynamics in Shanghai, China. *Environmental Pollution*, **2012**, 171, 30-7	9.3	66

62	Ammonia emissions from paddy fields are underestimated in China. *Environmental Pollution*, **2018**, 235, 482-488	9.3	65
61	Rebuilding the linkage between livestock and cropland to mitigate agricultural pollution in China. *Resources, Conservation and Recycling*, **2019**, 144, 65-73	11.9	63
60	A world of co-benefits: Solving the global nitrogen challenge. *Earth's Future*, **2019**, 7, 1-8	7.9	61
59	Plastic pollution in croplands threatens long-term food security. *Global Change Biology*, **2020**, 26, 3356-3367	11.4	59
58	An integrated analysis on source-exposure risk of heavy metals in agricultural soils near intense electronic waste recycling activities. *Environment International*, **2019**, 133, 105239	12.9	51
57	The role of industrial nitrogen in the global nitrogen biogeochemical cycle. *Scientific Reports*, **2013**, 3, 2579	4.9	49
56	Spatial□emporal patterns of inorganic nitrogen air concentrations and deposition in eastern China. *Atmospheric Chemistry and Physics*, **2018**, 18, 10931-10954	6.8	48
55	Four steps to food security for swelling cities. *Nature*, **2019**, 566, 31-33	50.4	47
54	Quantifying carbon storage for tea plantations in China. *Agriculture, Ecosystems and Environment*, **2011**, 141, 390-398	5.7	46
53	Nitrogen use efficiencies in Chinese agricultural systems and implications for food security and environmental protection. *Regional Environmental Change*, **2017**, 17, 1217-1227	4.3	44
52	Chinese cropping systems are a net source of greenhouse gases despite soil carbon sequestration. *Global Change Biology*, **2018**, 24, 5590-5606	11.4	40
51	Beef and coal are key drivers of Australia's high nitrogen footprint. *Scientific Reports*, **2016**, 6, 39644	4.9	39
50	Societal benefits of halving agricultural ammonia emissions in China far exceed the abatement costs. *Nature Communications*, **2020**, 11, 4357	17.4	37
49	Nitrogen application rates need to be reduced for half of the rice paddy fields in China. *Agriculture, Ecosystems and Environment*, **2018**, 265, 8-14	5.7	36
48	Plant species richness enhances nitrous oxide emissions in microcosms of constructed wetlands. *Ecological Engineering*, **2014**, 64, 108-115	3.9	34
47	Anthropogenic modification of the nitrogen cycling within the Greater Hangzhou Area system, China **2009**, 19, 974-88		32
46	Detection and attribution of nitrogen runoff trend in China's croplands. *Environmental Pollution*, **2018**, 234, 270-278	9.3	30
45	Positive effects of plant diversity on nitrogen removal in microcosms of constructed wetlands with high ammonium loading. *Ecological Engineering*, **2015**, 82, 614-623	3.9	30

44	Cleaning up nitrogen pollution may reduce future carbon sinks. *Global Environmental Change*, **2018**, 48, 56-66	10.1	29
43	The effects of plant diversity on nitrous oxide emissions in hydroponic microcosms. *Atmospheric Environment*, **2013**, 77, 544-547	5.3	29
42	Decoupling livestock and crop production at the household level in China. *Nature Sustainability*, **2021**, 4, 48-55	22.1	26
41	The role of technology and policy in mitigating regional nitrogen pollution. *Environmental Research Letters*, **2011**, 6, 014011	6.2	24
40	Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM air pollution. *Science*, **2021**, 374, 758-762	33.3	24
39	Urbanization can benefit agricultural production with large-scale farming in China. *Nature Food*, **2021**, 2, 183-191	14.4	23
38	Decreasing farm number benefits the mitigation of agricultural non-point source pollution in China. *Environmental Science and Pollution Research*, **2019**, 26, 464-472	5.1	22
37	Reactive nitrogen spatial intensity (NrSI): A new indicator for environmental sustainability. *Global Environmental Change*, **2018**, 52, 101-107	10.1	19
36	Assessment of private economic benefits and positive environmental externalities of tea plantation in China. *Environmental Monitoring and Assessment*, **2013**, 185, 8501-16	3.1	19
35	Non-linear increase of respiratory diseases and their costs under severe air pollution. *Environmental Pollution*, **2017**, 224, 631-637	9.3	17
34	Socioeconomic constraints on the technological choices in rural sewage treatment. *Environmental Science and Pollution Research*, **2016**, 23, 20360-20367	5.1	16
33	Quantification of net carbon flux from plastic greenhouse vegetable cultivation: a full carbon cycle analysis. *Environmental Pollution*, **2011**, 159, 1427-34	9.3	15
32	Virtual nitrogen factors and nitrogen footprints associated with nitrogen loss and food wastage of China□ main food crops. *Environmental Research Letters*, **2018**, 13, 014017	6.2	15
31	Role of management strategies and environmental factors in determining the emissions of biogenic volatile organic compounds from urban greenspaces. *Environmental Science & Technology*, **2014**, 48, 6237-46	10.3	14
30	Land use mediates riverine nitrogen export under the dominant influence of human activities. *Environmental Research Letters*, **2017**, 12, 094018	6.2	14
29	Water use efficiency in response to interannual variations in flux-based photosynthetic onset in temperate deciduous broadleaf forests. *Ecological Indicators*, **2017**, 79, 122-127	5.8	13
28	Rapid growth of industrial nitrogen fluxes in China: Driving forces and consequences. *Science China Earth Sciences*, **2013**, 56, 662-670	4.6	13
27	Utilization of waste nitrogen for biofuel production in China. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 4910-4916	16.2	13

26	Toward a Generic Analytical Framework for Sustainable Nitrogen Management: Application for China. *Environmental Science & Technology*, **2019**, 53, 1109-1118	10.3	13
25	Fertilizer overuse in Chinese smallholders due to lack of fixed inputs. *Journal of Environmental Management*, **2021**, 293, 112913	7.9	13
24	The nitrogen footprint for an Australian university: Institutional change for corporate sustainability. *Journal of Cleaner Production*, **2018**, 197, 534-541	10.3	12
23	Characterization of haze episodes and factors contributing to their formation using a panel model. *Chemosphere*, **2016**, 149, 320-7	8.4	12
22	Agricultural carbon flux changes driven by intensive plastic greenhouse cultivation in five climatic regions of China. *Journal of Cleaner Production*, **2015**, 95, 265-272	10.3	11
21	Weak indirect effects inherent to nitrogen biogeochemical cycling within anthropogenic ecosystems: A network environ analysis. *Ecological Modelling*, **2011**, 222, 3277-3284	3	10
20	Consolidation of agricultural land can contribute to agricultural sustainability in China. *Nature Food*, **2021**, 2, 1014-1022	14.4	9
19	NCNA: Integrated platform for constructing, visualizing, analyzing and sharing human-mediated nitrogen biogeochemical networks. *Environmental Modelling and Software*, **2011**, 26, 678-679	5.2	8
18	Overcoming socioeconomic barriers to reduce agricultural ammonia emission in China. *Environmental Science and Pollution Research*, **2020**, 27, 25813-25817	5.1	7
17	Plant diversity improves the effluent quality and stability of floating constructed wetlands under increased ammonium/nitrate ratio in influent. *Journal of Environmental Management*, **2020**, 266, 110607	7.9	4
16	Soil-Food-Environment-Health Nexus for Sustainable Development. *Research*, **2021**, 2021, 9804807	7.8	3
15	An empirical model to estimate ammonia emission from cropland fertilization in China. *Environmental Pollution*, **2021**, 288, 117982	9.3	3
14	A high-resolution map of reactive nitrogen inputs to China. *Scientific Data*, **2020**, 7, 379	8.2	2
13	The Warming Climate Aggravates Atmospheric Nitrogen Pollution in Australia. *Research*, **2021**, 2021, 9804583	7.8	2
12	Reforming smallholder farms to mitigate agricultural pollution. *Environmental Science and Pollution Research*, **2021**, 1	5.1	2
11	Optimizing nitrogen fertilizer use for more grain and less pollution. *Journal of Cleaner Production*, **2022**, 132180	10.3	2
10	Concurrent and lagged effects of spring greening on seasonal carbon gain and water loss across the Northern Hemisphere. *International Journal of Biometeorology*, **2020**, 64, 1343-1354	3.7	1
9	Establishing long-term nitrogen response of global cereals to assess sustainable fertilizer rates. *Nature Food*,	14.4	1

8	Uncertainty of nitrogen budget in China. *Environmental Pollution*, **2021**, 286, 117216	9.3	1
7	Human-caused increases in reactive nitrogen burial in sediment of global lakes. *Innovation(China)*, **2021**, 2, 100158	17.8	1
6	Socioeconomic barriers of nitrogen management for agricultural and environmental sustainability. *Agriculture, Ecosystems and Environment*, **2022**, 333, 107950	5.7	1
5	Pollution controls in Lake Tai with the reduction of the watershed nitrogen footprint. *Journal of Cleaner Production*, **2022**, 332, 130132	10.3	0
4	Integrated livestock sector nitrogen pollution abatement measures could generate net benefits for human and ecosystem health in China. *Nature Food*, **2022**, 3, 161-168	14.4	0
3	Particle toxicity's role in air pollution-Response.. *Science*, **2022**, 375, 506-507	33.3	
2	Reactive Nitrogen Budgets in China **2020**, 87-109		
1	Costs and benefits of ammonia abatement in Australia. *Resources, Conservation and Recycling*, **2022**, 182, 106318	11.9	