

# Xiaotang Ju

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86  
papers

5,557  
citations

33  
h-index

74  
g-index

89  
ext. papers

6,865  
ext. citations

6.7  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
86	Evaluation of the DNDC Model to Estimate Soil Parameters, Crop Yield and Nitrous Oxide Emissions for Alternative Long-Term Multi-Cropping Systems in the North China Plain. <i>Agronomy</i> , <b>2022</b> , 12, 109	3.6	0
85	Soil oxygen depletion and corresponding nitrous oxide production at hot moments in an agricultural soil. <i>Environmental Pollution</i> , <b>2022</b> , 292, 118345	9.3	0
84	Eight years organic amendment application alters NO emission potential by increasing soil O consumption rate. <i>Science of the Total Environment</i> , <b>2022</b> , 806, 150466	10.2	
83	Quantifying biological processes producing nitrous oxide in soil using a mechanistic model. <i>Biogeochemistry</i> , <b>2022</b> , 159, 1	3.8	1
82	Full straw incorporation into a calcareous soil increased N <sub>2</sub> O emission despite more N <sub>2</sub> O being reduced to N <sub>2</sub> in the winter crop season. <i>Agriculture, Ecosystems and Environment</i> , <b>2022</b> , 335, 108007	5.7	0
81	Oxygen-depletion by rapid ammonia oxidation regulates kinetics of N <sub>2</sub> O, NO and N <sub>2</sub> production in an ammonium fertilised agricultural soil. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 163, 108460	7.5	0
80	How nitrification-related NO is associated with soil ammonia oxidizers in two contrasting soils in China?. <i>Science of the Total Environment</i> , <b>2021</b> , 770, 143212	10.2	6
79	Oxygen concentrations regulate NO, N <sub>2</sub> O, and N <sub>2</sub> kinetics and nitrogen transformation in a fluvo-aquic soil using a robotized incubation system. <i>Journal of Soils and Sediments</i> , <b>2021</b> , 21, 1337-1347 <sup>3-4</sup>		1
78	Cropping system design can improve nitrogen use efficiency in intensively managed agriculture. <i>Environmental Pollution</i> , <b>2021</b> , 280, 116967	9.3	5
77	Overcoming socioeconomic barriers to reduce agricultural ammonia emission in China. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 25813-25817	5.1	7
76	Using field-measured soil N <sub>2</sub> O fluxes and laboratory scale parameterization of N <sub>2</sub> O/(N <sub>2</sub> O+N <sub>2</sub> ) ratios to quantify field-scale soil N <sub>2</sub> emissions. <i>Soil Biology and Biochemistry</i> , <b>2020</b> , 148, 107904	7.5	10
75	Dramatic loss of inorganic carbon by nitrogen-induced soil acidification in Chinese croplands. <i>Global Change Biology</i> , <b>2020</b> , 26, 3738-3751	11.4	77
74	Response to Comment on "Oxygen Regulates Nitrous Oxide Production Directly in Agricultural Soils". <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 2556-2557	10.3	2
73	Effects of enhanced efficiency nitrogen fertilizers on NH <sub>3</sub> losses in a calcareous fluvo-aquic soil: a laboratory study. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 1887-1896	3.4	3
72	Mitigating nitrous oxide emissions from agricultural soils by precision management. <i>Frontiers of Agricultural Science and Engineering</i> , <b>2020</b> , 7, 75	1.7	5
71	Effect of carbon rate and type amended with ammonium or nitrate on nitrous oxide emissions in a strong ammonia oxidation soil. <i>Journal of Soils and Sediments</i> , <b>2020</b> , 20, 1253-1263	3.4	3
70	Air warming and CO enrichment increase N use efficiency and decrease N surplus in a Chinese double rice cropping system. <i>Science of the Total Environment</i> , <b>2020</b> , 706, 136063	10.2	6

69	Fertilizer nitrogen loss via N <sub>2</sub> emission from calcareous soil following basal urea application of winter wheat. <i>Atmospheric and Oceanic Science Letters</i> , <b>2019</b> , 12, 91-97	1.4	3
68	Improved Jayaweera-Mikkelsen model to quantify ammonia volatilization from rice paddy fields in China. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 8136-8147	5.1	13
67	Nitrogen Surplus Benchmarks for Controlling N Pollution in the Main Cropping Systems of China. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 6678-6687	10.3	58
66	Effects of the nitrification inhibitor DMPP (3,4-dimethylpyrazole phosphate) on gross N transformation rates and N <sub>2</sub> O emissions. <i>Biology and Fertility of Soils</i> , <b>2019</b> , 55, 603-615	6.1	18
65	Managing nitrogen to restore water quality in China. <i>Nature</i> , <b>2019</b> , 567, 516-520	50.4	314
64	Soil HONO emissions at high moisture content are driven by microbial nitrate reduction to nitrite: tackling the HONO puzzle. <i>ISME Journal</i> , <b>2019</b> , 13, 1688-1699	11.9	34
63	Gross N transformation rates and related NO emissions in Chinese and UK agricultural soils. <i>Science of the Total Environment</i> , <b>2019</b> , 666, 176-186	10.2	21
62	Enhanced efficiency nitrogen fertilizers maintain yields and mitigate global warming potential in an intensified spring wheat system. <i>Field Crops Research</i> , <b>2019</b> , 244, 107624	5.5	9
61	Oxygen Regulates Nitrous Oxide Production Directly in Agricultural Soils. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 12539-12547	10.3	35
60	Toward a Generic Analytical Framework for Sustainable Nitrogen Management: Application for China. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 1109-1118	10.3	13
59	Cleaning up nitrogen pollution may reduce future carbon sinks. <i>Global Environmental Change</i> , <b>2018</b> , 48, 56-66	10.1	29
58	NO emission contributions by different pathways and associated microbial community dynamics in a typical calcareous vegetable soil. <i>Environmental Pollution</i> , <b>2018</b> , 242, 2005-2013	9.3	14
57	Effects of nitrogen management and straw return on soil organic carbon sequestration and aggregate-associated carbon. <i>European Journal of Soil Science</i> , <b>2018</b> , 69, 913-923	3.4	11
56	Chinese cropping systems are a net source of greenhouse gases despite soil carbon sequestration. <i>Global Change Biology</i> , <b>2018</b> , 24, 5590-5606	11.4	40
55	A process-oriented hydro-biogeochemical model enabling simulation of gaseous carbon and nitrogen emissions and hydrologic nitrogen losses from a subtropical catchment. <i>Science of the Total Environment</i> , <b>2018</b> , 616-617, 305-317	10.2	12
54	Direct Measurement of CO <sub>2</sub> Retention in Arable Soils with pH Above 6.5 During Barometric Process Separation Incubation. <i>Pedosphere</i> , <b>2018</b> , 28, 726-738	5	3
53	Nitrous Oxide Emissions Increase Exponentially When Optimum Nitrogen Fertilizer Rates Are Exceeded in the North China Plain. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 12504-12513	10.3	50
52	Improved Nitrogen Management as a Key Mitigation to Net Global Warming Potential and Greenhouse Gas Intensity on the North China Plain. <i>Soil Science Society of America Journal</i> , <b>2018</b> , 82, 1362-146	2.5	10

51	Effect of fertilizer N rates and straw management on yield-scaled nitrous oxide emissions in a maize-wheat double cropping system. <i>Field Crops Research</i> , <b>2017</b> , 204, 1-11	5.5	52
50	Nitrogen use efficiencies in Chinese agricultural systems and implications for food security and environmental protection. <i>Regional Environmental Change</i> , <b>2017</b> , 17, 1217-1227	4.3	44
49	Linkage between NO emission and functional gene abundance in an intensively managed calcareous fluvo-aquic soil. <i>Scientific Reports</i> , <b>2017</b> , 7, 43283	4.9	35
48	Nitrate leaching in a winter wheat-summer maize rotation on a calcareous soil as affected by nitrogen and straw management. <i>Scientific Reports</i> , <b>2017</b> , 7, 42247	4.9	59
47	Nitrous Oxide and Methane Emissions in Spring Maize Field in the Semi-Arid Regions of Loess Plateau. <i>Clean - Soil, Air, Water</i> , <b>2017</b> , 45,	1.6	2
46	Nitrogen cycling and environmental impacts in upland agricultural soils in North China: A review. <i>Journal of Integrative Agriculture</i> , <b>2017</b> , 16, 2848-2862	3.2	77
45	Reducing China's fertilizer use by increasing farm size. <i>Global Environmental Change</i> , <b>2016</b> , 41, 26-32	10.1	154
44	The Influence of Biochar Addition on Chicken Manure Composting and Associated Methane and Carbon Dioxide Emissions. <i>BioResources</i> , <b>2016</b> , 11,	1.3	16
43	Significant accumulation of nitrate in Chinese semi-humid croplands. <i>Scientific Reports</i> , <b>2016</b> , 6, 25088	4.9	102
42	Impacts of reactive nitrogen on climate change in China. <i>Scientific Reports</i> , <b>2015</b> , 5, 8118	4.9	31
41	Environmental costs of China's food security. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 209, 5-14	5.7	113
40	Nitrate Transformation and N <sub>2</sub> O Emission in a Typical Intensively Managed Calcareous Fluvaquent Soil: A 15-Nitrogen Tracer Incubation Study. <i>Communications in Soil Science and Plant Analysis</i> , <b>2015</b> , 46, 1763-1777	1.5	4
39	Integrated reactive nitrogen budgets and future trends in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 8792-7	11.5	283
38	Greenhouse gas intensity of three main crops and implications for low-carbon agriculture in China. <i>Climatic Change</i> , <b>2015</b> , 128, 57-70	4.5	32
37	The impact of alternative cropping systems on global warming potential, grain yield and groundwater use. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 203, 46-54	5.7	60
36	Nitrous oxide and methane emissions from optimized and alternative cereal cropping systems on the North China Plain: a two-year field study. <i>Science of the Total Environment</i> , <b>2014</b> , 472, 112-24	10.2	77
35	Managing Agricultural Nutrients for Food Security in China: Past, Present, and Future. <i>Agronomy Journal</i> , <b>2014</b> , 106, 191-198	2.2	47
34	Direct pathway of nitrate produced from surplus nitrogen inputs to the hydrosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E416	11.5	14

33	Mitigation of nitrous oxide emissions from food production in China. <i>Current Opinion in Environmental Sustainability</i> , <b>2014</b> , 9-10, 82-89	7.2	5
32	Reducing nitrous oxide emissions from the global food system. <i>Current Opinion in Environmental Sustainability</i> , <b>2014</b> , 9-10, 55-64	7.2	27
31	Greenhouse gas mitigation in Chinese agriculture: Distinguishing technical and economic potentials. <i>Global Environmental Change</i> , <b>2014</b> , 26, 53-62	10.1	58
30	Greenhouse gas emissions from a wheat-maize double cropping system with different nitrogen fertilization regimes. <i>Environmental Pollution</i> , <b>2013</b> , 176, 198-207	9.3	121
29	Comparison of soil respiration in typical conventional and new alternative cereal cropping systems on the North China plain. <i>PLoS ONE</i> , <b>2013</b> , 8, e80887	3.7	3
28	Integrated Nutrient Management for Food Security and Environmental Quality in China. <i>Advances in Agronomy</i> , <b>2012</b> , 1-40	7.7	178
27	Improved Nitrogen Management for an Intensive Winter Wheat/Summer Maize Double-cropping System. <i>Soil Science Society of America Journal</i> , <b>2012</b> , 76, 286-297	2.5	23
26	Response of Nitrous Oxide and Corresponding Bacteria to Managements in an Agricultural Soil. <i>Soil Science Society of America Journal</i> , <b>2012</b> , 76, 130-141	2.5	17
25	Processes and factors controlling N <sub>2</sub> O production in an intensively managed low carbon calcareous soil under sub-humid monsoon conditions. <i>Environmental Pollution</i> , <b>2011</b> , 159, 1007-16	9.3	128
24	Calculation of theoretical nitrogen rate for simple nitrogen recommendations in intensive cropping systems: A case study on the North China Plain. <i>Field Crops Research</i> , <b>2011</b> , 124, 450-458	5.5	71
23	N-catch crops affect soil profile nitrate-N accumulation during vegetable cultivation. <i>Frontiers of Agriculture in China</i> , <b>2011</b> , 5, 225-230		0
22	Effects of nitrogen management on methane and nitrous oxide emissions from summer maize soil in North China Plain. <i>Scientia Sinica Chimica</i> , <b>2011</b> , 41, 117-128	1.6	3
21	Simulation of bromide and nitrate leaching under heavy rainfall and high-intensity irrigation rates in North China Plain. <i>Agricultural Water Management</i> , <b>2010</b> , 97, 1646-1654	5.9	100
20	Changes in soil carbon and nitrogen pools after shifting from conventional cereal to greenhouse vegetable production. <i>Soil and Tillage Research</i> , <b>2010</b> , 107, 80-87	6.5	58
19	Reducing environmental risk by improving N management in intensive Chinese agricultural systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 3041-6	11.5	1625
18	Gross Nitrogen Transformations and Related Nitrous Oxide Emissions in an Intensively Used Calcareous Soil. <i>Soil Science Society of America Journal</i> , <b>2009</b> , 73, 102-112	2.5	86
17	Yield and Nicotine Content of Flue-Cured Tobacco as Affected by Soil Nitrogen Mineralization. <i>Pedosphere</i> , <b>2008</b> , 18, 227-235	5	15
16	Shortcomings in the Commercialized Barometric Process Separation Measuring System. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 135-142	2.5	13

15	Recovery of <sup>15</sup> N-Labeled Nitrate Injected into Deep Subsoil by Maize in a Calcareous Alluvial Soil on the North China Plain. <i>Communications in Soil Science and Plant Analysis</i> , <b>2007</b> , 38, 1563-1577	1.5	2
14	Changes in the soil environment from excessive application of fertilizers and manures to two contrasting intensive cropping systems on the North China Plain. <i>Environmental Pollution</i> , <b>2007</b> , 145, 497-506	9.3	289
13	Interception of residual nitrate from a calcareous alluvial soil profile on the North China Plain by deep-rooted crops: a <sup>15</sup> N tracer study. <i>Environmental Pollution</i> , <b>2007</b> , 146, 534-42	9.3	20
12	Effect of Long-Term Fertilization on Organic Nitrogen Forms in a Calcareous Alluvial Soil on the North China Plain. <i>Pedosphere</i> , <b>2006</b> , 16, 224-229	5	19
11	Spatial and temporal variation of atmospheric nitrogen deposition in the North China Plain. <i>Acta Ecologica Sinica</i> , <b>2006</b> , 26, 1633-1638	2.7	47
10	Nitrogen deposition in agroecosystems in the Beijing area. <i>Agriculture, Ecosystems and Environment</i> , <b>2006</b> , 113, 370-377	5.7	124
9	Nitrogen Transformations in a Chinese Aquic Cambisol Applied Urea with Dicyandiamide or Plant Residues. <i>Communications in Soil Science and Plant Analysis</i> , <b>2005</b> , 35, 2397-2416	1.5	1
8	Utilization and management of organic wastes in Chinese agriculture: past, present and perspectives. <i>Science in China Series C: Life Sciences</i> , <b>2005</b> , 48 Suppl 2, 965-79		6
7	Utilization and management of organic wastes in Chinese agriculture: past, present and perspectives. <i>Science in China Series C: Life Sciences</i> , <b>2005</b> , 48 Spec No, 965-79		4
6	Nitrogen fertilization, soil nitrate accumulation, and policy recommendations in several agricultural regions of China. <i>Ambio</i> , <b>2004</b> , 33, 300-5	6.5	204
5	NO and N <sub>2</sub> O fluxes from agricultural soils in Beijing area. <i>Progress in Natural Science: Materials International</i> , <b>2004</b> , 14, 489-494	3.6	9
4	Nitrogen Recommendation for Winter Wheat Using Nmin Test and Rapid Plant Tests in North China Plain. <i>Communications in Soil Science and Plant Analysis</i> , <b>2003</b> , 34, 2539-2551	1.5	22
3	Nitrogen dynamics and budgets in a winter wheat/maize cropping system in the North China Plain. <i>Field Crops Research</i> , <b>2003</b> , 83, 111-124	5.5	260
2	Global mapping of crop-specific emission factors highlights hotspots of nitrous oxide mitigation. <i>Nature Food</i> ,	14.4	3
1	Fate of <sup>15</sup> N-labelled urea when applied to long-term fertilized soils of varying fertility. <i>Nutrient Cycling in Agroecosystems</i> ,1	3.3	0