

Guangbin Zhang

List of Publications by Year in descending order

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471509

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#	ARTICLE	IF	CITATIONS
1	Dynamic interactions of nitrogen fertilizer and straw application on greenhouse gas emissions and sequestration of soil carbon and nitrogen: A 13-year field study. <i>Agriculture, Ecosystems and Environment</i> , 2022, 325, 107753.	5.3	17
2	Contribution of periphytic biofilm of paddy soils to carbon dioxide fixation and methane emissions. <i>Innovation(China)</i> , 2022, 3, 100192.	9.1	10
3	Anaerobic primed CO ₂ and CH ₄ in paddy soil are driven by Fe reduction and stimulated by biochar. <i>Science of the Total Environment</i> , 2022, 808, 151911.	8.0	15
4	Greenhouse gas emissions from ratoon rice fields among different varieties. <i>Field Crops Research</i> , 2022, 277, 108423.	5.1	11
5	Elevated CO ₂ does not necessarily enhance greenhouse gas emissions from rice paddies. <i>Science of the Total Environment</i> , 2022, 810, 152363.	8.0	17
6	Heavy metal pollution and net greenhouse gas emissions in a rice-wheat rotation system as influenced by partial organic substitution. <i>Journal of Environmental Management</i> , 2022, 307, 114599.	7.8	10
7	Gaseous emissions and grain-heavy metal contents in rice paddies: A three-year partial organic substitution experiment. <i>Science of the Total Environment</i> , 2022, 826, 154106.	8.0	8
8	Effects of elevated CO ₂ concentration on CH ₄ and N ₂ O emissions from paddy fields: A meta-analysis. <i>Science China Earth Sciences</i> , 2022, 65, 96-106.	5.2	7
9	Elevated atmospheric CO ₂ reduces CH ₄ and N ₂ O emissions under two contrasting rice cultivars from a subtropical paddy field in China. <i>Pedosphere</i> , 2022, 32, 707-717.	4.0	8
10	Evaluation of methane and nitrous oxide emissions in a three-year case study on single rice and ratoon rice paddy fields. <i>Journal of Cleaner Production</i> , 2021, 297, 126650.	9.3	29
11	Responses of greenhouse gas emissions and soil carbon and nitrogen sequestration to field management in the winter season: A 6-year measurement in a Chinese double-rice field. <i>Agriculture, Ecosystems and Environment</i> , 2021, 318, 107506.	5.3	22
12	Ecological rice-cropping systems mitigate global warming – A meta-analysis. <i>Science of the Total Environment</i> , 2021, 789, 147900.	8.0	34
13	Responses of the methanogenic pathway and fraction of CH ₄ oxidization in a flooded paddy soil to rice planting. <i>Pedosphere</i> , 2021, 31, 859-871.	4.0	2
14	Methane and nitrous oxide emissions from a ratoon paddy field in Sichuan Province, China. <i>European Journal of Soil Science</i> , 2021, 72, 1478-1491.	3.9	10
15	Integrated rice management simultaneously improves rice yield and nitrogen use efficiency in various paddy fields. <i>Pedosphere</i> , 2020, 30, 863-873.	4.0	8
16	Optimization of nitrogen fertilizer rate under integrated rice management in a hilly area of Southwest China. <i>Pedosphere</i> , 2020, 30, 759-768.	4.0	10
17	Water retention and warming effect of integrated rice management for the hilly areas of southwest China. <i>Agronomy Journal</i> , 2020, 112, 3140-3151.	1.8	3
18	Reducing yield-scaled global warming potential and water use by rice plastic film mulching in a winter flooded paddy field. <i>European Journal of Agronomy</i> , 2020, 114, 126007.	4.1	22

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19	Effects of Straw Incorporation Methods on Nitrous Oxide and Methane Emissions from a Wheat-Rice Rotation System. <i>Pedosphere</i> , 2019, 29, 204-215.	4.0	14
20	Achieving low methane and nitrous oxide emissions with high economic incomes in a rice-based cropping system. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 95-106.	4.8	30
21	Winter tillage with the incorporation of stubble reduces the net global warming potential and greenhouse gas intensity of double-cropping rice fields. <i>Soil and Tillage Research</i> , 2018, 183, 19-27.	5.6	24
22	Variations of Stable Carbon Isotopes of CH ₄ Emission from Three Typical Rice Fields in China. <i>Pedosphere</i> , 2017, 27, 52-64.	4.0	13
23	Combination of wet irrigation and nitrification inhibitor reduced nitrous oxide and methane emissions from a rice cropping system. <i>Environmental Science and Pollution Research</i> , 2016, 23, 17426-17436.	5.3	23
24	Drainage and tillage practices in the winter fallow season mitigate CH ₄ and N ₂ O emissions from a double-rice field in China. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11853-11866.	4.9	34
25	Carbon isotope fractionation reveals distinct process of CH ₄ emission from different compartments of paddy ecosystem. <i>Scientific Reports</i> , 2016, 6, 27065.	3.3	17
26	Fraction of CH ₄ oxidized in paddy field measured by stable carbon isotopes. <i>Plant and Soil</i> , 2015, 389, 349-359.	3.7	5
27	Increase in CH ₄ emission due to weeds incorporation prior to rice transplanting in a rice-wheat rotation system. <i>Atmospheric Environment</i> , 2015, 116, 83-91.	4.1	9
28	Effect of rice straw application on stable carbon isotopes, methanogenic pathway, and fraction of CH ₄ oxidized in a continuously flooded rice field in winter season. <i>Soil Biology and Biochemistry</i> , 2015, 84, 75-82.	8.8	33
29	Carbon isotope fractionation during CH ₄ transport in paddy fields. <i>Science China Earth Sciences</i> , 2014, 57, 1664-1670.	5.2	6
30	Methane and nitrous oxide emissions from irrigated lowland rice paddies after wheat straw application and midseason aeration. <i>Nutrient Cycling in Agroecosystems</i> , 2014, 100, 65-76.	2.2	41
31	Effect of controlled-release fertilizer on mitigation of N ₂ O emission from paddy field in South China: a multi-year field observation. <i>Plant and Soil</i> , 2013, 371, 473-486.	3.7	48
32	Timing of midseason aeration to reduce CH ₄ and N ₂ O emissions from double rice cultivation in China. <i>Soil Science and Plant Nutrition</i> , 2013, 59, 35-45.	1.9	31
33	Pathway of CH ₄ production, fraction of CH ₄ oxidized, and ¹³ C isotope fractionation in a straw-incorporated rice field. <i>Biogeosciences</i> , 2013, 10, 3375-3389.	3.3	24
34	Methanogenic Pathway and Fraction of CH ₄ Oxidized in Paddy Fields: Seasonal Variation and Effect of Water Management in Winter Fallow Season. <i>PLoS ONE</i> , 2013, 8, e73982.	2.5	16
35	Intermittent irrigation changes production, oxidation, and emission of CH ₄ in paddy fields determined with stable carbon isotope technique. <i>Soil Biology and Biochemistry</i> , 2012, 52, 108-116.	8.8	62
36	Carbon isotopic composition, methanogenic pathway, and fraction of CH ₄ oxidized in a rice field flooded year-round. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	14

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37	Effect of drainage in the fallow season on reduction of CH ₄ production and emission from permanently flooded rice fields. <i>Nutrient Cycling in Agroecosystems</i> , 2011, 89, 81-91.	2.2	42
38	Effects of rice straw returning methods on N ₂ O emission during wheat-growing season. <i>Nutrient Cycling in Agroecosystems</i> , 2010, 88, 463-469.	2.2	52
39	Effect of timing of joint application of hydroquinone and dicyandiamide on nitrous oxide emission from irrigated lowland rice paddy field. <i>Chemosphere</i> , 2009, 75, 1417-1422.	8.2	36