# Guangbin Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7013814/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 39 papers | 817 citations | 471509 17 h-index | 526287 27 g-index |
| 44 all docs | 44 docs citations | 44 times ranked | 690 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Intermittent irrigation changes production, oxidation, and emission of CH4 in paddy fields determined with stable carbon isotope technique. Soil Biology and Biochemistry, 2012, 52, 108-116. | 8.8 | 62 |
| 2 | Effects of rice straw returning methods on N2O emission during wheat-growing season. Nutrient Cycling in Agroecosystems, 2010, 88, 463-469. | 2.2 | 52 |
| 3 | Effect of controlled-release fertilizer on mitigation of N2O emission from paddy field in South China: a multi-year field observation. Plant and Soil, 2013, 371, 473-486. | 3.7 | 48 |
| 4 | Effect of drainage in the fallow season on reduction of CH4 production and emission from permanently flooded rice fields. Nutrient Cycling in Agroecosystems, 2011, 89, 81-91. | 2.2 | 42 |
| 5 | Methane and nitrous oxide emissions from irrigated lowland rice paddies after wheat straw application and midseason aeration. Nutrient Cycling in Agroecosystems, 2014, 100, 65-76. | 2.2 | 41 |
| 6 | Effect of timing of joint application of hydroquinone and dicyandiamide on nitrous oxide emission from irrigated lowland rice paddy field. Chemosphere, 2009, 75, 1417-1422. | 8.2 | 36 |
| 7 | Drainage and tillage practices in the winter fallow season mitigate CH<sub>4</sub> and N<sub>2</sub>O emissions from a double-rice field in China. Atmospheric Chemistry and Physics, 2016, 16, 11853-11866. | 4.9 | 34 |
| 8 | Ecological rice-cropping systems mitigate global warming â€“ A meta-analysis. Science of the Total Environment, 2021, 789, 147900. | 8.0 | 34 |
| 9 | Effect of rice straw application on stable carbon isotopes, methanogenic pathway, and fraction of CH4 oxidized in a continuously flooded rice field in winter season. Soil Biology and Biochemistry, 2015, 84, 75-82. | 8.8 | 33 |
| 10 | Timing of midseason aeration to reduce CH<sub>4</sub>and N<sub>2</sub>O emissions from double rice cultivation in China. Soil Science and Plant Nutrition, 2013, 59, 35-45. | 1.9 | 31 |
| 11 | Achieving low methane and nitrous oxide emissions with high economic incomes in a rice-based cropping system. Agricultural and Forest Meteorology, 2018, 259, 95-106. | 4.8 | 30 |
| 12 | Evaluation of methane and nitrous oxide emissions in a three-year case study on single rice and ratoon rice paddy fields. Journal of Cleaner Production, 2021, 297, 126650. | 9.3 | 29 |
| 13 | Pathway of CH<sub>4</sub> production, fraction of CH<sub>4</sub> oxidized, and <sup>13</sup>C isotope fractionation in a straw-incorporated rice field. Biogeosciences, 2013, 10, 3375-3389. | 3.3 | 24 |
| 14 | Winter tillage with the incorporation of stubble reduces the net global warming potential and greenhouse gas intensity of double-cropping rice fields. Soil and Tillage Research, 2018, 183, 19-27. | 5.6 | 24 |
| 15 | Combination of wet irrigation and nitrification inhibitor reduced nitrous oxide and methane emissions from a rice cropping system. Environmental Science and Pollution Research, 2016, 23, 17426-17436. | 5.3 | 23 |
| 16 | Reducing yield-scaled global warming potential and water use by rice plastic film mulching in a winter flooded paddy field. European Journal of Agronomy, 2020, 114, 126007. | 4.1 | 22 |
| 17 | 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. Agriculture, Ecosystems and Environment, 2021, 318, 107506. | 5.3 | 22 |
| 18 | Carbon isotope fractionation reveals distinct process of CH4 emission from different compartments of paddy ecosystem. Scientific Reports, 2016, 6, 27065. | 3.3 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Dynamic interactions of nitrogen fertilizer and straw application on greenhouse gas emissions and sequestration of soil carbon and nitrogen: A 13-year field study. Agriculture, Ecosystems and Environment, 2022, 325, 107753. | 5.3 | 17 |
| 20 | Elevated CO2 does not necessarily enhance greenhouse gas emissions from rice paddies. Science of the Total Environment, 2022, 810, 152363. | 8.0 | 17 |
| 21 | Methanogenic Pathway and Fraction of CH4 Oxidized in Paddy Fields: Seasonal Variation and Effect of Water Management in Winter Fallow Season. PLoS ONE, 2013, 8, e73982. | 2.5 | 16 |
| 22 | Anaerobic primed CO2 and CH4 in paddy soil are driven by Fe reduction and stimulated by biochar. Science of the Total Environment, 2022, 808, 151911. | 8.0 | 15 |
| 23 | Carbon isotopic composition, methanogenic pathway, and fraction of CH<sub>4</sub>oxidized in a rice field flooded year-round. Journal of Geophysical Research, 2011, 116, . | 3.3 | 14 |
| 24 | Effects of Straw Incorporation Methods on Nitrous Oxide and Methane Emissions from a Wheat-Rice Rotation System. Pedosphere, 2019, 29, 204-215. | 4.0 | 14 |
| 25 | Variations of Stable Carbon Isotopes of CH4 Emission from Three Typical Rice Fields in China. Pedosphere, 2017, 27, 52-64. | 4.0 | 13 |
| 26 | Greenhouse gas emissions from ratoon rice fields among different varieties. Field Crops Research, 2022, 277, 108423. | 5.1 | 11 |
| 27 | Optimization of nitrogen fertilizer rate under integrated rice management in a hilly area of Southwest China. Pedosphere, 2020, 30, 759-768. | 4.0 | 10 |
| 28 | Methane and nitrous oxide emissions from a ratoon paddy field in Sichuan Province, China. European Journal of Soil Science, 2021, 72, 1478-1491. | 3.9 | 10 |
| 29 | Contribution of periphytic biofilm of paddy soils to carbon dioxide fixation and methane emissions. Innovation(China), 2022, 3, 100192. | 9.1 | 10 |
| 30 | Heavy metal pollution and net greenhouse gas emissions in a rice-wheat rotation system as influenced by partial organic substitution. Journal of Environmental Management, 2022, 307, 114599. | 7.8 | 10 |
| 31 | Increase in CH4 emission due to weeds incorporation prior to rice transplanting in a rice-wheat rotation system. Atmospheric Environment, 2015, 116, 83-91. | 4.1 | 9 |
| 32 | Integrated rice management simultaneously improves rice yield and nitrogen use efficiency in various paddy fields. Pedosphere, 2020, 30, 863-873. | 4.0 | 8 |
| 33 | Gaseous emissions and grain-heavy metal contents in rice paddies: A three-year partial organic substitution experiment. Science of the Total Environment, 2022, 826, 154106. | 8.0 | 8 |
| 34 | Elevated atmospheric CO2 reduces CH4 and N2O emissions under two contrasting rice cultivars from a subtropical paddy field in China. Pedosphere, 2022, 32, 707-717. | 4.0 | 8 |
| 35 | Effects of elevated CO2 concentration on CH4 and N2O emissions from paddy fields: A meta-analysis. Science China Earth Sciences, 2022, 65, 96-106. | 5.2 | 7 |
| 36 | Carbon isotope fractionation during CH4 transport in paddy fields. Science China Earth Sciences, 2014, 57, 1664-1670. | 5.2 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Fraction of CH4 oxidized in paddy field measured by stable carbon isotopes. Plant and Soil, 2015, 389, 349-359. | 3.7 | 5 |
| 38 | Water retention and warming effect of integrated rice management for the hilly areas of southwest China. Agronomy Journal, 2020, 112, 3140-3151. | 1.8 | 3 |
| 39 | Responses of the methanogenic pathway and fraction of CH4 oxidization in a flooded paddy soil to rice planting. Pedosphere, 2021, 31, 859-871. | 4.0 | 2 |