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Research Interests

- **Soil fertility evolution and improvement**
- **Soil organic carbon and nitrogen cycling and modelling based on long-term experiments**

Publication

Spatial changes and driving variables of topsoil organic carbon stocks in Chinese croplands under different fertilization strategies, *Science of the Total Environment*, 2021, DOI: 10.1016/j.scitotenv.2020.144350

Changes in soil microbial biomass with manure application in cropping, *Soil & Tillage Research*, 2019, DOI: 10.1016/j.still.2019.06.008

Modeling crop yield and nitrogen use efficiency in wheat and maize production systems under future climate change, *Nutrient Cycling in Agroecosystems*, 2019, DOI: 10.1007/s10705-019-10013-4

Response of crop yield and nitrogen use efficiency for wheat-maize cropping system to future climate change in northern China, *Agricultural and Forest Meteorology*, 2018, DOI: 10.1016/j.agrformet.2018.07.019

A synthetic analysis of livestock manure substitution effects on organic carbon changes in China's arable topsoil, *Catena*, 2018, DOI: 10.1016/j.catena.2018.06.036



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Effects of enhancing soil organic carbon sequestration in the topsoil by fertilization on crop productivity and stability: Evidence from long-term experiments with wheat-maize cropping systems in China, Science of the Total Environment, 2016, DOI: 10.1016/j.scitotenv.2016.03.193

Soil CO₂ and N₂O emissions in maize growing season under different fertilizer regimes in an upland red soil region of south china, Journal of Integrative Agriculture, 2014, DOI: 10.1016/S2095-3119(13)60718-2

100 Questions and Answers for arable land quality improvement(CN), Beijing/China Agriculture Publishing & Media Ltd. 2020, ISBN: 978-7-109-27582-9

National long-term soil fertility experiment network in arable land of China(CN), Beijing/China Dadi Publishing & Media Ltd. 2015, ISBN: 978-7-80246-783-5

Study on the trend of cultivated land quality evolution(CN), Beijing/China Agricultural Science and Technology Publishing & Media Ltd. 2008, 978-7-80233-623-0