

一、教育经历

2009.09-2015.06 南京农业大学 农学博士。

2005.09-2009.06 淮北师范大学 理学学士。

二、工作经历

2019.12-至今 南京农业大学 副教授；

2017.06-2019.12 英国班戈大学 玛丽居里 COFUND Fellow；

2015.07-2017.06 中国科学院南京土壤研究所 博士后；

2013.10-2015.04 德国哥廷根大学 联合培养博士。

三、获奖情况

2019 年度教育部高等学校科学研究优秀成果奖-自然科学奖一等奖（排名第五）。

四、学术兼职

European Journal of Soil Biology 编委，Frontiers in Environmental Science, Frontiers in Earth Science & Frontiers in Agronomy 审稿编辑。

五、主持项目

1. EXTREMO3: Interaction of extreme tropospheric ozone pollution, heat stress and land management on grassland functioning and resilience, Horizon 2020's Marie Skłodowska-Curie Actions COFUND Fellowships, 2017-2020

2. 土壤反硝化模型建立、验证及全球排放量估算，中国博士后基金会和中国科学院联合资助，2015-2017

3. 土壤反硝化作用的影响因素及全球排放通量估算研究，中国

博士后基金会面上项目，2015–2017

六、发表论文

1.Cheng, Y. et al. Nitrogen deposition differentially affects soil gross nitrogen transformations in organic and mineral horizons. *Earth-Science Rev.* 201, 103033 (2020).

2.Wang, J. et al. Short-term responses of greenhouse gas emissions and ecosystem carbon fluxes to elevated ozone and N fertilization in a temperate grassland. *Atmos. Environ.* 211, 204–213 (2019).

3.Wang, J. et al. Effects of four years of elevated ozone on microbial biomass and extracellular enzyme activities in a semi-natural grassland. *Sci. Total Environ.* 660, 260–268 (2019).

4.Ma, S., Wang, J. & Yan, X. Is Nitrous Oxide Reduction Primarily Regulated by the Fungi-to-Bacteria Abundance Ratio in Fertilized Soils? *Pedosphere* 29, 569–576 (2019).

5.Awad, Y. M. et al. Biochar Effects on Rice Paddy: Meta-analysis. in *Advances in Agronomy* 1–32 (2018).

6.Wang, J., Akiyama, H., Yagi, K. & Yan, X. Controlling variables and emission factors of methane from global rice fields. *Atmos. Chem. Phys.* 18, 10419–10431 (2018).

7.Wang, J., Chadwick, D. R., Cheng, Y. & Yan, X. Global analysis of agricultural soil denitrification in response to fertilizer nitrogen. *Sci. Total Environ.* 616–617, 908–917 (2018).

8.Cheng, Y., Wang, J., Wang, J., Chang, S. X. & Wang, S. The quality and quantity of exogenous organic carbon input control microbial NO_3^- immobilization: A meta-analysis. *Soil Biol. Biochem.* 115, 357–363 (2017).

9.Ma, L., Cheng, Y., Wang, J. & Yan, X. Mechanical insights into the effect of fluctuation in soil moisture on nitrous oxide emissions from paddy soil. *Paddy Water Environ.* 15, 359–369 (2017).

10.Xia, L. et al. Can knowledge-based N management produce more staple grain

with lower greenhouse gas emission and reactive nitrogen pollution? A meta-analysis. *Glob. Chang. Biol.* 23, 1917–1925 (2017).

11.Zang, H., Blagodatskaya, E., Wang, J., Xu, X. & Kuzyakov, Y. Nitrogen fertilization increases rhizodeposit incorporation into microbial biomass and reduces soil organic matter losses. *Biol. Fertil. Soils* 53, 419–429 (2017).

12.Wang, J., Xiong, Z. & Kuzyakov, Y. Biochar stability in soil: Meta-analysis of decomposition and priming effects. *GCB Bioenergy* 8, 512–523 (2016).

13.Wang, J., Xiong, Z., Yan, X. & Kuzyakov, Y. Carbon budget by priming in a biochar-amended soil. *Eur. J. Soil Biol.* 76, 26–34 (2016).

14.Wang, J. & Yan, X. Denitrification in upland of China: Magnitude and influencing factors. *J. Geophys. Res. Biogeosciences* 121, 3060–3071 (2016).

15.Xia, L. et al. Integrating agronomic practices to reduce greenhouse gas emissions while increasing the economic return in a rice-based cropping system. *Agric. Ecosyst. Environ.* 231, 24–33 (2016).

16.Xia, L. et al. Greenhouse gas emissions and reactive nitrogen releases from rice production with simultaneous incorporation of wheat straw and nitrogen fertilizer. *Biogeosciences* 13, 4567–4579 (2016).

17.Zang, H., Wang, J. & Kuzyakov, Y. N fertilization decreases soil organic matter decomposition in the rhizosphere. *Appl. Soil Ecol.* 108, 47–53 (2016).

18.Zhang, X., Xu, X., Liu, Y., Wang, J. & Xiong, Z. Global warming potential and greenhouse gas intensity in rice agriculture driven by high yields and nitrogen use efficiency. *Biogeosciences* 13, 2701–2714 (2016).

19.Zhao, X., Zhao, C., Wang, J., Stahr, K. & Kuzyakov, Y. CaCO₃ recrystallization in saline and alkaline soils. *Geoderma* 282, 1–8 (2016).

20.Wang, J., Dokohely, M. E., Xiong, Z. & Kuzyakov, Y. Contrasting effects of aged and fresh biochars on glucose-induced priming and microbial activities in paddy soil. *J. Soils Sediments* 16, 191–203 (2016).

21.Chen, Z., Wang, B., Wang, J., Pan, G. & Xiong, Z. Contrasting effects of elevated CO₂ and warming on temperature sensitivity of soil organic matter decomposition in a Chinese paddy field. *Environ. Monit. Assess.* 188, 545 (2015).

22. Wang, J. et al. Effects of biochar amendment on greenhouse gas emissions, net ecosystem carbon budget and properties of an acidic soil under intensive vegetable production. *Soil Use Manag.* 31, 375–383 (2015).

23. Wang, J. et al. Response of rice production to elevated [CO₂] and its interaction with rising temperature or nitrogen supply: a meta-analysis. *Clim. Change* 130, 529–543 (2015).

24. Yang, B. et al. Mitigating net global warming potential and greenhouse gas intensities by substituting chemical nitrogen fertilizers with organic fertilization strategies in rice-wheat annual rotation systems in China: A 3-year field experiment. *Ecol. Eng.* 81, 289–297 (2015).

25. Sun, L., Li, L., Chen, Z., Wang, J. & Xiong, Z. Combined effects of nitrogen deposition and biochar application on emissions of N₂O, CO₂ and NH₃ from agricultural and forest soils. *Soil Sci. Plant Nutr.* 60, 254–265 (2014).

26. Sun, L. et al. Atmospheric nitrogen and phosphorus deposition at three sites in Nanjing, China, and possible links to nitrogen deposition sources. *Clean - Soil, Air, Water* 42, 1650–1659 (2014).

27. Ma, Y. et al. Mitigation of nitrous oxide emissions from paddy soil under conventional and no-till practices using nitrification inhibitors during the winter wheat-growing season. *Biol. Fertil. Soils* 49, 627–635 (2013).

28. Sun, L., Li, B., Ma, Y., Wang, J. & Xiong, Z. Year-Round Atmospheric Wet and Dry Deposition of Nitrogen and Phosphorus on Water and Land Surfaces in Nanjing, China. *Water Environ. Res.* 85, 514–521 (2013).

29. Wang, J. et al. Methane and nitrous oxide emissions as affected by organic–inorganic mixed fertilizer from a rice paddy in southeast China. *J. Soils Sediments* 13, 1408–1417 (2013).

30. Ma, Y., Wang, J., Zhou, W., Yan, X. & Xiong, Z. Greenhouse gas emissions during the seedling stage of rice agriculture as affected by cultivar type and crop density. *Biol. Fertil. Soils* 48, 589–595 (2012).

31. Wang, J., Pan, X., Liu, Y., Zhang, X. & Xiong, Z. Effects of biochar amendment in two soils on greenhouse gas emissions and crop production. *Plant Soil* 360, 287–298

(2012).

32. Wang, J. et al. Modeling Impacts of Alternative Practices on Net Global Warming Potential and Greenhouse Gas Intensity from Rice-Wheat Annual Rotation in China. *PLoS One* 7, (2012).

33. Wang, J. et al. Methane emissions from a rice agroecosystem in South China: Effects of water regime, straw incorporation and nitrogen fertilizer. *Nutr. Cycl. Agroecosystems* 93, 103–112 (2012).

34. Wang, J., Jia, J., Xiong, Z., Khalil, M.A.K. & Xing, G. Water regime-nitrogen fertilizer-straw incorporation interaction: Field study on nitrous oxide emissions from a rice agroecosystem in Nanjing, China. *Agric. Ecosyst. Environ.* 141, 437–446 (2011).

35. Wang, J., Xiong, Z. & Yan, X. Fertilizer-induced emission factors and background emissions of N₂O from vegetable fields in China. *Atmos. Environ.* 45, 6923–6929 (2011).

36. Wang, J., Zhang, M., Xiong, Z., Liu, P. & Pan, G. Effects of biochar addition on N₂O and CO₂ emissions from two paddy soils. *Biol. Fertil. Soils* 47, 887–896 (2011).