

个人简历



熊正琴

个人信息:

1973年6月生于中国重庆市涪陵区，汉族，2008年1月作为留学引进人才被南京农业大学特聘为资源与环境科学学院土壤学（国家重点学科）教授，美国波特兰州立大学物理系兼职研究教授，主要研究领域为碳氮循环与生态环境。

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南京农业大学，资源与环境科学学院，教授（三级）

教育经历:

1999/9 - 2002/6, 中国科学院, 植物营养学, 博士, 导师: 朱兆良院士

1996/9 - 1999/8, 南京农业大学, 蔬菜学, 硕士, 导师: 李式军教授

1992/9 - 1996/7, 南京农业大学, 园艺, 学士

工作经历:

2008/1 - 至今, 南京农业大学, 资源与环境科学学院, 教授, 博士生导师

2007/6 - 2007/12, 美国波特兰州立大学, 物理系, 助理研究教授

2004/1 - 2007/12, 美国波特兰州立大学, 物理系, 高级访问学者、博士后

2002/7 - 2004/1, 中国科学院南京土壤研究所, 助理研究员

主要学术任职:

2012/05 - 至今, 江苏省土壤学会理事、江苏省土壤学会副秘书长、

江苏省土壤学会青年工作委员会 主任

2011/12 - 至今, 南京农业大学第六届学术规范委员会委员

2010/12 - 至今, 江苏省低碳农业与温室气体减排重点实验室 副主任

2010/01 - 2011/11 南京农业大学第九届学位委员会委员

主持或参加科研项目及人才计划项目情况:

(1) 主持人才计划项目情况:

- ① 教育部新世纪优秀人才计划, NCET-10-0475, 农田生态系统温室气体排放规律研究, 2010/01-2012/12, 50 万元, 已结题, 主持。
- ② 南京农业大学引进杰出人才基金, 030804094, 氮素循环与生态环境, 2008/01-2010/12, 50 万元, 已结题, 主持。

(2) 主持国家自然科学基金项目情况:

- ① 国家自然科学基金面上项目, 41471192, 生物炭对菜地土壤 N_2O 产生过程的影响机理研究, 2015/01-2018/12, 90 万元, 在研, 主持。
- ② 国家自然科学基金面上项目, 41171238, 农业生物质循环利用减缓稻田综合净温室效应潜力观测与评估, 2012/01-2015/12, 70 万元, 在研, 主持。
- ③ 国家自然科学基金面上项目, 40971139, 水旱轮作体系中土壤剖面 N_2O 行为过程及机理研究, 2010/01-2012/12, 40 万元, 已结题, 主持。

(3) 主持其他科研项目情况:

- ① 公益性行业(农业)科研专项, 201503106, “化肥面源污染农田综合治理技术方案”课题-气态损失过程阻控研究与集成示范, 2015/01-2019/12, 138 万元, 在研, 课题主持。
- ② 公益性行业(农业)科研专项, 200903003, “气候变化对农业生产的影响及应对技术研究”课题—气候变化对稻麦轮作系统养分管理的影响及应对技术研究, 2009/01-2013/12, 71.4 万元, 已结题, 课题主持。
- ③ 国家科技支撑计划, 2013BAD11B01, 子课题菜地氧化亚氮减排技术研发, 2013/01-2016/12, 78 万元, 在研, 子课题主持。

- ④ 国家科技部 973 计划，2009CB118603，“主要粮食作物高产栽培与资源高效利用的基础研究”子课题—南方高产高效稻田体系综合温室效应观测研究，2009/01-2013/12，15 万元，已结题，子课题主持。
- ⑤ 高等学校博士学科点专项科研基金博导类资助课题，20110097110001，集约化种植模式下蔬菜地生态系统碳收支及净温室效应的观测与评估，2012/01-2014/12，12 万元，在研，主持。
- ⑥ 国际合作项目，DE-FG02-08ER64515，甲烷和氧化亚氮收支缺口研究，2008/01-2010/12，55 万元，已结题，主持。
- ⑦ 国际合作项目，DE-FG02-04ER63913，稻田温室气体排放，2005/04-2007/09，83 万元，已结题，主持。

(4) 参与科研项目情况：

- ① 高等学校学科创新引智计划，B12009，农业资源与环境学科生物学研究创新引智基地，2012/01-2016/12，450 万元，在研，骨干参与。
- ② 国家自然科学基金重点项目，40830528，稻田土壤有机碳固定与稳定化过程及机制:土壤-作物-微生物相互作用研究，2009/01-2012/12，175 万元，已结题，骨干参与。
- ③ 国家自然科学基金“十·五”重大项目，30390080，主要农田生态系统氮素行为与氮肥高效利用的基础研究，2003/01-2006/12，800 万元，已结题，骨干参与。

熊正琴(Xiong Z.Q.)发表SCI文章 (*通讯作者)：

1. **Xiong Z.Q.***, Xing G.X., Tsuruta H., Shen G.Y., Shi S.L., Du L.J. (2002) Measurement of nitrous oxide emissions from two rice-based cropping systems in China. *Nutrient Cycling in Agroecosystems* 64: 125–133.
2. **Xiong Z.***, Xing G., Tsuruta H., Shen G., Shi S., Du L. (2002) Field study on nitrous oxide emissions from upland cropping systems in China. *Soil Science and Plant Nutrition* 48: 539–546.
3. Xing G.X.*, Shi S.L., Shen G.Y., Du L.J., **Xiong Z.Q.** (2002) Nitrous oxide emissions from paddy soil in three rice-based cropping systems in China. *Nutrient Cycling in Agroecosystems* 64: 135–143.
4. Xing G.*, Zhu J., **Xiong Z.***, and Yamasaki S. (2004) Ag, Ta, Ru and Ir enrichment in surface soil: Evidence for land pollution of heavy metal from atmospheric deposition. *Global Biogeochemical Cycles* 18(1): GB1046, doi: 10.1029/2003GB002123.
5. Zhu Z.*, **Xiong Z.**, Xing G. (2005) Impacts of population growth and economic development on the nitrogen cycle in Asia. *Science in China (Series C, Life*

- Sciences) 48 (special issue): 729–737.
6. **Xiong Z.Q.***, Xing G.X., Zhu Z.L. (2006) Water dissolved nitrous oxide from paddy agroecosystem in China. *Geoderma* 136: 524–532. DOI: 10.1016/j.geoderma.2006.04.010
 7. **Xiong Z.***, Xie Y., Xing G., Zhu Z. and Butenhoff C. (2006) Measurements of nitrous oxide emissions from vegetable production in China. *Atmospheric Environment* 40: 2225–2234. doi: 10.1016/j.atmosenv.2005.12.008.
 8. **Xiong Z.Q.***, Xing G.X., and Zhu Z.L. (2007) Nitrous oxide and methane emissions as affected by water, soil and nitrogen. *Pedosphere* 17(2): 146–155.
 9. Xie Y.X., **Xiong Z.Q.**, Xing G.X. *, Sun G.Q., Zhu Z.L. (2007) Assessment of nitrogen pollutant sources in surface waters of Taihu lake region. *Pedosphere* 17(2): 200–208.
 10. **Xiong Z.Q.**, Freney J.R., Mosier A.R.*, Zhu Z.L., Lee Y. and Yagi K. (2008) Impacts of population growth, changing food preferences and agricultural practices on the nitrogen cycle in East Asia. *Nutrient Cycling in Agroecosystems* 80:189–198 DOI: 10.1007/s10705-007-9132-4.
 11. Xie Y., **Xiong Z.***, Xing G., Yan X., Shi S., Sun G., Zhu Z. (2008) Source of nitrogen in wet deposition to a rice agroecosystem at Tai lake region. *Atmospheric Environment* 42: 5182–5192. doi:10.1016/j.atmosenv.2008.03.008.
 12. **Xiong Z.Q.***, Khalil M.A.K.*, Xing G., Shearer M.J., Butenhoff C. (2009) Isotopic signatures and concentration profiles of nitrous oxide in a rice-based ecosystem during the drained crop-growing season. *J. Geophys. Res.* 114, G02012.
 13. Zhao X., Xie Y.X., **Xiong Z.Q.**, Yan X.Y., Xing G.X.*, Zhu Z.L. (2009) Nitrogen fate and environmental consequence in paddy soil under rice-wheat rotation in the Taihu lake region, China. *Plant Soil* 319: 225–234. DOI 10.1007/s11104-008-9865-0
 14. Zhao X., Yan X., **Xiong Z.**, Xie Y., Xing G. *, Shi S., Zhu Z. (2009) Spatial and temporal variation of inorganic nitrogen wet deposition to the Yangtze river delta region, China. *Water Air Soil Pollut* 203:277–289. DOI 10.1007/s11270-009-0011-2
 15. Yang X., Shang Q., Wu P., Liu J., Shen Q., Guo S.*, **Xiong Z*.**(2010) Methane emissions from double rice agriculture under long-term fertilizing systems in Hunan, China. *Agriculture, Ecosystems and Environment* 137: 308-316. doi:10.1016/j.agee.2010.03.001

16. **Xiong Z.Q***, Huang T.Q., Ma Y.C., Xing G.X. and Zhu Z.L. (2010) Nitrate and ammonium leaching in variable- and permanent-charge paddy soils. *Pedosphere* **20**(2): 209–216
17. Wang J.Y., Jia J.X., **Xiong Z.Q.***, Khalil M.A.K.*, Xing G.X. (2011) Water regime-nitrogen fertilizer-straw incorporation interaction: field study on nitrous oxide emissions from a rice agroecosystem in Nanjing, China. *Agriculture, Ecosystems and Environment* **141**: 437–446. doi:10.1016/j.agee.2011.04.009
18. Wang J., Zhang M., **Xiong Z.***, Liu P., Pan G. (2011) Effects of biochar addition on N₂O and CO₂ emissions from two paddy soils. *Biology and Fertility of Soils* **47**: 887–896. DOI: 10.1007/s00374-011-0595-8
19. Wang J., **Xiong Z.***, Yan X. (2011) Fertilizer-induced emission factors and background emissions of N₂O from vegetable fields in China. *Atmospheric Environment* **45**:6923–6929. doi: 10.1016/j.atmosenv.2011.09.045.
20. Xia W., Zhang C., Zeng X., Feng Y., Weng J., Lin X., Zhu J., **Xiong Z.**, Xu J., Cai Z. and Jia Z.* (2011) Autotrophic growth of nitrifying community in an agricultural soil. *The ISME Journal* 1–11. doi:10.1038/ismej.2011.5
21. Wang J., Zhang X., **Xiong Z.***, Khalil M.A.K., Zhao X., Xie Y., Xing G. (2012) Methane emissions from a rice agroecosystem in South China: Effects of water regime, straw incorporation and nitrogen fertilizer. *Nutr Cycl Agroecosyst* **93**:103-112. DOI 10.1007/s10705-012-9503-3
22. Wang J., Zhang X., Liu Y., Pan X., Liu P., Chen Z., Huang T., **Xiong Z.*** (2012) Modeling impacts of alternative practices on net global warming potential and greenhouse gas intensity from rice–wheat annual rotation in China. *PLoS ONE* **7**(9): e45668
23. Wang J., Pan X., Liu Y., Zhang X., **Xiong Z.*** (2012) Effects of biochar amendment in two soils on greenhouse gas emissions and crop production. *Plant Soil* **360**(1): 287–298. DOI 10.1007/s11104-012-1250-3
24. Ma Y., Wang J., Zhou W., Yan X., **Xiong Z.*** (2012) Greenhouse gas emissions during the seedling stage of rice agriculture as affected by cultivar type and crop density. *Biology and Fertility of Soils* **48**: 489–595. DOI: 10.1007/s00374-011-0656-z
25. Jia J., Sun L., Kong X., Yan X., **Xiong Z.*** (2012) Annual N₂O and CH₄ emissions from intensively managed vegetable fields in Nanjing, China. *Soil Science and Plant Nutrition* **58**: 91–103.doi.org/10.1080/00380768.2011.644510.
26. Jia J.X., Ma Y.C., **Xiong Z.Q.*** (2012) Net ecosystem carbon budget, net global warming potential and greenhouse gas intensity in intensive vegetable ecosystems in China. *Agriculture, Ecosystems and Environment* **150**: 27– 37.

27. Jia J., Li B., Chen Z., Xie Z. and **Xiong Z.*** (2012) Effects of biochar application on vegetable production and emissions of N₂O and CH₄. *Soil Science and Plant Nutrition* 58: 503–509. DOI:10.1080/00380768.2012.686436
28. Liu S., Zhang L., Jiang J., Chen N., Yang X., **Xiong Z.**, Zou J.* (2012) Methane and nitrous oxide emissions from rice seedling nurseries under flooding and moist irrigation regimes in Southeast China. *Science of the Total Environment* 426: 166–171.
29. Wang B., Zhang C., Liu J., Zeng X., Li F., Wu Y., Lin X., **Xiong Z.**, Xu J., Jia Z.* (2012) Microbial community changes along a land-use gradient of desert soil origin. *Pedosphere* 22(5): 593–603.
30. Sun L., Li B., Ma Y., Wang J., **Xiong Z.*** (2013) 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. doi:10.2175/106143012X13560205144614
31. Ma Y.C., Kong X.W., Yang B., Zhang X.L., Yan X.Y., Yang J.C., **Xiong Z.Q.*** (2013) Net global warming potential and greenhouse gas intensity of annual rice-wheat rotations with integrated soil-crop system management. *Agriculture, Ecosystems and Environment*. 164: 209– 219. DOI:10.1016/j.agee.2012.11.003
32. Ma Y., Sun L., Zhang X., Yang B., Wang J., Yin B., Yan X., **Xiong Z.*** (2013) Mitigation of nitrous oxide emissions from paddy soil under conventional and no-till practices using nitrification inhibitors during the winter wheat growing season. *Biology and Fertility of Soils* 49(6): 627–635. DOI: 10.1007/s00374-012-0753-7
33. Wang J., Chen Z., Ma Y., Sun L., **Xiong Z. ***, Huang Q.*, Shen Q. (2013) 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. DOI 10.1007/s11368-013-0731-1
34. Sun L., Liu Y., Wang J., Khalil M.A.K., Zou J., **Xiong Z.*** (2014) Atmospheric nitrogen and phosphorus deposition at three sites in Nanjing, China, and possible links to nitrogen deposition sources. *CLEAN -Soil, Air, Water* 42 (11): 1650–1659. DOI:10.1002/clen.201300692
35. Sun L., li L., Chen Z., Wang J., **Xiong Z.*** (2014) Combined effects of nitrogen deposition and biochar application on emissions of N₂O, CO₂, and NH₃ from agricultural and forest soils. *Soil Science and Plant Nutrition* 60 (2): 254–265. DOI:10.1080/00380768.2014.885386
36. Zhang X., Fan C., Ma Y., Liu Y., Li L., Zhou Q., **Xiong Z. *** (2014) Two approaches for net ecosystem carbon budgets and soil carbon sequestration in a rice-wheat rotation system in China. *Nutrient Cycling in Agroecosystems* 100: 301–313. DOI: 10.1007/s10705-014-9651-8

37. Li Z.*, Liu H., Luo C., Li P., Li H. and **Xiong Z.** (2014) Industrial wastewater discharge retrieval based on stable nighttime light imagery in China from 1992 to 2010. *Remote Sens.* 6 : 7566–7579; doi:10.3390/rs6087566
38. Zhang M., Chen Z.Z., Li Q.L., Fan C.H., **Xiong Z.Q.*** (2015). Quantitative relationship between nitrous oxide emissions and nitrogen application rate for a typical intensive vegetable cropping system in Southeastern China. *CLEAN -Soil, Air, Water* DOI: 10.1002/clen.201400266
39. Zhang M., Fan C.H., Li Q.L., Li B., Zhu Y.Y., **Xiong Z.Q.*** (2015) A 2-yr field assessment of the effects of chemical and biological nitrification inhibitors on nitrous oxide emissions and nitrogen use efficiency in an intensively managed vegetable cropping system. *Agriculture, Ecosystems and Environment* 201: 43–50. DOI: 10.1016/j.agee.2014.12.003
40. Liu Y.L., Dokohely M. E., Fan C.H., Li Q.L., Zhang X.X., Zhao H.Y., **Xiong Z.Q.*** (2015). Influences of different seedling-nursing methods on methane and nitrous oxide emissions in the double rice cropping system of South China. *CLEAN -Soil, Air, Water* DOI: 10.1002/clen.201400479
41. Yang B., **Xiong Z.***, Wang J., Xu X., Huang Q.*, Shen Q. (2015). 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. *Ecological Engineering* 289–297. 10.1016/j.ecoleng.2015.04.071
42. Yang B., Chen Z., Zhang M., Zhang H., Zhang X., Pan G., Zou J., **Xiong Z.*** (2015) Effects of elevated atmospheric CO₂ concentration and temperature on the soil profile methane distribution and diffusion in rice-wheat rotation system. *Journal of Environmental Sciences* 32: 62–71. DOI:10.1016/j.jes.2014.11.010
43. Li B., Fan C.H., **Xiong Z.Q.***, Li Q.L., Zhang M. (2015) The combined effects of nitrification inhibitor and biochar incorporation on yield-scaled N₂O emissions from an intensively managed vegetable field in southeastern China. *Biogeosciences* 12: 2003–2017. doi:10.5194/bg-12-2003-2015
44. Li B., Fan C.H., Zhang H., Chen Z.Z., Sun L.Y., **Xiong Z.Q.*** (2015) Combined effects of nitrogen fertilization and biochar on the net global warming potential, greenhouse gas intensity and net ecosystem economic budget in intensive vegetable agriculture in southeastern China. *Atmospheric Environment* 100: 10–19. DOI: 10.1016/j.atmosenv.2014.10.034
45. Liu Y.L., Zhou Z., Zhang X., Xu X., Chen H., **Xiong Z.*** (2015). Net global warming potential and greenhouse gas intensity from the double rice system with integrated soil-crop system management: A three-year field study. *Atmospheric Environment*. 116:92–101. DOI:10.1016/j.atmosenv.2015.06.018

46. Wang J.Y., Dokohely M.E., **Xiong Z.Q.***, Kuzyakov Y. (2016) Contrasting effects of aged and fresh biochars on glucose-induced priming and microbial activities in paddy soil. *J Soils Sediments*. 16 (1): 191-203. DOI: 10.1007/s11368-015-1189-0
47. Wang J., Chen Z., **Xiong Z.***, Chen C., Xu X., Zhou Q., Kuzyakov Y. (2015) Effects of biochar amendment on greenhouse gas emissions, net ecosystem carbon budget and properties of an acidic soil under intensive vegetable production. *Soil Use and Management*. 31: 375–383. DOI: 10.1111/sum.12202
48. Wang J.Y.*, **Xiong Z.Q.**, & Kuzyakov Y. (2015) Biochar stability in soil: meta-analysis of decomposition and priming effects. *GCB Bioenergy*. DOI: 10.1111/gcbb.12266.
49. Li Z.*, Liu H., Luo C., Li Y., Li H., Pan J., Jiang X., Zhou Q., **Xiong Z.** (2015) Simulation of runoff and nutrient export from a typical small watershed in China using the Hydrological Simulation Program–Fortran. *Environ Sci Pollut Res*. 22:7954-7966. DOI 10.1007/s11356-014-3960-y.
50. Wang J., Wang C., Chen N., **Xiong Z.**, Wolfe D., Zou J.* (2015) Response of rice production to elevated [CO₂] and its interaction with rising temperature or nitrogen supply: a meta-analysis. *Climatic Change* doi:10.1007/s10584-015-1374-6
51. Li Z.*, Luo C., Xi Q., Li H., Pan J., Zhou Q., **Xiong Z.** (2015) Assessment of the AnnAGNPS model in simulating runoff and nutrient in a typical small watershed in the Taihu Lake basin, China. *Catena* 133: 349–361. DOI : 10.1016/j.catena.2015.06.007
52. Zhao M., Tian Y., Ma Y., Zhang M., Yao Y., **Xiong Z.**, Yin B.*, Zhu Z.(2015) Mitigating gaseous nitrogen emissions intensity from a Chinese rice cropping system through an improved management practice aimed to close the yield gap. *Agriculture, Ecosystems & Environment* 203: 36–45.
53. Xu W., Luo X. S., Pan Y. P., Zhang L., Tang A. H., Shen J. L., Zhang Y., Li K. H., Wu Q. H., Yang D. W., Zhang Y. Y., Xue J., Li W. Q., Li Q. Q., Tang L., Lu S. H., Liang T., Tong Y. A., Liu P., Zhang Q., **Xiong Z. Q.**, Shi X. J., Wu L. H., Shi W. Q., Tian K., Zhong X. H., Shi K., Tang Q. Y., Zhang L. J., Huang J. L., He C. E., Kuang F. H., Zhu B., Liu H., Jin X., Xin Y. J., Shi X. K., Du E. Z., Dore A. J., Tang S., Collett Jr. J. L., Goulding K., Sun Y. X., Ren J., Zhang F. S., and Liu X. J. (2015) Quantifying atmospheric nitrogen deposition through a nationwide monitoring network across China. *Atmos. Chem. Phys.*, 15, 12345-12360. doi:10.5194/acp-15-12345-2015
54. **Xiong Z.***, Liu Y., Wu Z., Zhang X., Liu P., Huang T. (2015) Differences in net global warming potential and greenhouse gas intensity between major rice-based cropping systems in China. *Scientific Report* 5, 17774. doi:10.1038/srep17774
55. Chen Z., Zhang J., **Xiong Z.***, Pan G., Müller C. (2016) Enhanced gross nitrogen transformation rates and nitrogen supply in paddy fields under elevated

atmospheric carbon dioxide and temperature. *Soil Biology and Biochemistry* 94: 80-87. DOI:10.1016/j.soilbio.2015.11.025

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熊正琴(Xiong Z.Q.)发表中文及非SCI文章 (*通讯作者) :

1. 熊正琴,李式军,周燮,刘高琼,黄保健.茉莉酸甲酯和水杨酸促进大蒜试管鳞茎的形成. *园艺学报*. 1999,26(6): 408-409.
2. 熊正琴,刘高琼,李式军.大蒜鳞茎发芽抑制物质对几种作物发芽及生长的影响. *南京师大学报*,1999,22(3):139-141,146.
3. 王广东,周素平,吴镇,熊正琴,李式军.稀有香辛植物山葵的离体培养与快速繁殖研究. *南京师大学报*,1999,22(3)167-170.
4. 熊正琴,李式军,刘高琼,黄保健.大蒜花序轴离体培养的研究. *南京农业大学学报*,2000,23(3):25-28.
5. **Xiong Z.Q.**, Xing G.X., Tsuruta H., Shi S.L., Shen G.Y., Du L.J., Qian W. Nitrous oxide emissions from upland farmland as affected by summer legume crop cultivation. *Agricultural Sciences in China* 2002, 1: 977-981.
6. 熊正琴,邢光熹,沈光裕,孙德玲.太湖地区湖、河和井水中氮污染状况的研究. *农村生态环境*,2002,(2):29-33.
7. 熊正琴,邢光熹,沈光裕,施书莲,杜丽娟.太湖地区湖水与河水中溶解 N₂O 及其排放. *环境科学*,2002, 23(6):26-30.
8. 熊正琴,邢光熹,鹤田治雄,施书莲,沈光裕,杜丽娟,钱薇.种植夏季豆科作物对旱地 N₂O 排放贡献的研究. *中国农业科学*,2002, 35(9):1104-1108.
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