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RESEARCH INTERESTS

Soil Nutrients Cycling and Climate Change

1. Soil GHGs mitigation approaches, estimation and related mechanisms;
2. Climatic role of terrestrial ecosystem-response and feedback;
3. Meta-analysis on soil C and N cycling linking to biotic and abiotic drivers.

RESEARCH EXPERIENCE

2012/09-2014/12: Lecturer, College of Resources and Environmental Sciences, Nanjing Agricultural University, China;

2015/01-present: Associate Professor, College of Resources and Environmental Sciences, Nanjing Agricultural University, China.

HONORS & AWARDS

Associate director of Academic Committee of Jiangsu Society of Soil Science
Zhongshan Talent Training Program of Nanjing Agricultural University
The "333 Project-Academic Leader" Talent Training Program of Jiangsu Province

RESEARCH PROJECTS

- The National Natural Science Foundation of China (Grant No: 41301244), finished, PI;
- The National Natural Science Foundation of China (Grant No: 41771268), in progress, PI;
- The National Key Research and Development Program of China (2016YFD0201200), in progress, PI;
- The National Basic Research Program of China (Grant No: 2015CB150502), finished, participate;
- The Fundamental Research Funds for the Central Universities (Grant No: KYZ201621), in progress, PI;
- The Natural Science Foundation of Jiangsu Province (Grant No: BK20130695), finished, PI.

KEY PUBLICATIONS

First Author

1. **Shuwei Liu**, Cheng Ji, Cong Wang, Jie Chen, Yaguo Jin, Shuqing Li, Shuli Niu and Jianwen Zou*. **2018**. Climatic role of terrestrial ecosystem under elevated CO₂: A bottom-up greenhouse gases budget. **Ecology Letters**, doi:10.1111/ele.13078. **IF_{-5yr}/13.327**
2. **Shuwei Liu**, Feng Lin, Shuang Wu, Cheng Ji, Yi Sun, Yaguo Jin, Shuqing Li and Jianwen Zou*. **2017**. A meta-analysis of fertilizer-induced soil NO and combined with N₂O emissions. **Global Change Biology**, 23 (6), 2520-2532. **IF_{-5yr}/9.455**
3. **Shuwei Liu**, Zhiqiang Hu, Shuang Wu, Shuqing Li, Zhaofu, Li and Jianwen Zou*. **2016**. Methane and nitrous oxide emissions reduced following conversion of rice paddies to inland crab-fish aquaculture in southeast China. **Environmental Science & Technology**, 50 (2), 633-642. **IF_{-5yr}/6.960**
4. **Shuwei Liu**, Yaojun Zhang, Yajie Zong, Zhiqiang Hu, Shuang Wu, Jie Zhou, Yaguo Jin and Jianwen Zou*. **2016**.

- Response of soil carbon dioxide fluxes, soil organic carbon and microbial biomass carbon to biochar amendment: a meta-analysis. **GCB Bioenergy**, 8 (2), 392-406. **IF_{-5yr}/5.434**
5. **Shuwei Liu**, Chun Zhao, Yaojun Zhang, Zhiqiang Hu, Cong Wang, Yajie Zong, Ling Zhang and Jianwen Zou*. **2015**. Annual net greenhouse gas balance in a halophyte (*Helianthus tuberosus*) bioenergy cropping system under various soil practices in southeast China. **GCB Bioenergy**, 7 (4), 690-703. **IF_{-5yr}/5.434**
 6. **Shuwei Liu**, Yaojun Zhang, Feng Lin, Ling Zhang and Jianwen Zou*. **2014**. Methane and nitrous oxide emissions from direct-seeded and seedling-transplanted rice paddies in southeast China. **Plant and Soil**, 374 (1), 285-297. **IF_{-5yr}/3.736**
 7. **Shuwei Liu**, Ling Zhang, Qiaohui Liu and Jianwen Zou*. **2012**. Fe (III) fertilization mitigating net global warming potential and greenhouse gas intensity in paddy rice-wheat rotation systems in China. **Environmental pollution**, 164: 73-80. **IF_{-5yr}/5.552**
 8. **Shuwei Liu**, Ling Zhang, Jingyan Jiang, Nannan Chen, Xiaomei Yang, Zhengqin Xiong and Jianwen Zou*. **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. **IF_{-5yr}/5.102**
 9. **Shuwei Liu**, Yanmei Qin, Jianwen Zou* and Qiaohui Liu. **2010**. Effects of water regime during rice-growing season on annual direct N₂O emission in a paddy rice-winter wheat rotation system in southeast China. **Science of the Total Environment**, 408 (4), 906-913. **IF_{-5yr}/5.102**

Corresponding Author*

10. Shuang Wu, Zhiqiang Hu, Tao Hu, Jie Chen, Kai Yu, Jianwen Zou and **Shuwei Liu***. **2018**. Annual methane and nitrous oxide emissions from rice paddies and inland fish aquaculture wetlands in southeast China. **Atmospheric Environment**, 175, 135-144. **IF_{-5yr}/3.948**
11. Cheng Ji, Yaguo Jin, Chen Li, Jie Chen, Delei Kong, Kai Yu, **Shuwei Liu*** and Jianwen Zou*. **2018**. Variation in soil methane release or uptake responses to biochar amendment: A separate meta-analysis. **Ecosystems**, doi:10.1007/s10021-018-0248-y. **IF_{-5yr}/4.777**
12. Xiaofei Wang, Ling Zhang, Jianwen Zou and **Shuwei Liu***. **2015**. Optimizing net greenhouse gas balance of a bioenergy cropping system in southeast China with urease and nitrification inhibitors. **Ecological Engineering**, 83, 191-198. **IF_{-5yr}/3.422**
13. Zhiqiang Hu, Shuang Wu, Cheng Ji, Jianwen Zou, Quansuo Zhou and **Shuwei Liu***. **2016**. A comparison of methane emissions following rice paddies conversion to crab-fish farming wetlands in southeast China. **Environmental Science and Pollution Research**, 23 (2), 1505-1515. **IF_{-5yr}/3.023**
14. Yaojun Zhang, Xiang Gao, Shuang Wu, Jianwen Zou and **Shuwei Liu***. **2016**. Annual accounting of net greenhouse gas balance response to biochar addition in a coastal saline bioenergy cropping system in China. **Soil and Tillage Research**, 158, 39-48. **IF_{-5yr}/3.856**

Co-authored Publications

15. Jianwen Zou, **Shuwei Liu**, Yanmei Qin, Genxing Pan, Dawei Zhu. **2009**. Sewage irrigation increased methane and nitrous oxide emissions from rice paddies in southeast China. **Agriculture, Ecosystems and Environment**, 129, 516-522.
16. Yanmei Qin, **Shuwei Liu**, Yanqin Guo, Qiaohui Liu, Jianwen Zou. **2012**. Methane and nitrous oxide emissions from organic and conventional rice cropping systems in Southeast China. **Biology and Fertility of Soils**, 46 (8), 825-834.
17. Jianwen Zou, Yao Huang, Yanmei Qin, **Shuwei Liu**, Qirong Shen, Genxing Pan, Yanyu Lu, Qiaohui Liu. **2009**. Changes in fertilizer-induced direct N₂O emissions from paddy fields during rice-growing season in China between 1950s and 1990s. **Global Change Biology**, 15, 229-242.