

# 个人简历

## 基本信息

姓名：刘成  
民族：汉  
籍贯：安徽省六安市  
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性别：男  
出生年月：1993.06  
政治面貌：中共党员  
毕业院校：南京农业大学  
学历：博士研究生



## 教育背景

2019.09-2023.12	南京农业大学	资源与环境科学学院	农业资源与环境（国家双一流学科，博士）
2016.09-2019.06	南京农业大学	资源与环境科学学院	土壤学（硕士）
2012.09-2016.06	安徽科技学院	资源与环境学院	农业资源与环境（本科）

## 研究方向

土壤障碍因子消除与土壤健康提升  
环境数据整合与响应因子挖掘  
农业废弃生物质炭化及环境应用评价

## 科研论文

### 第一作者

- Liu C, Tian J, ..., Pan G. Biochar boosted high oleic peanut production with enhanced root development and biological N fixation by diazotrophs in an alluvic Primisol. *Science of the Total Environment*, 2024, 932: 173061 (中科院一区 Top, IF: 9.8)
- Liu C, Tian J, ..., Pan G. Quantifying topsoil microbial abundance and the biomass C pool across land use types from mainland China. *Soil Science and Environment*, 2023, 2:5.
- Liu C, Liu Y, ..., Pan G. The effect of chamber placement site on N<sub>2</sub>O emission under different fertilizer regimes from maize field. *Agriculture Ecosystem & Environment*, 2023, 341: 108210. (中科院一区 Top, IF: 6.6)
- Liu C, Xia R, ..., Pan G. Improved ginseng production under continuous cropping through reinforcing soil health and rhizosphere microbial manipulation with biochar: A field study of *Panax ginseng* from Northeast China. *Horticulture Research*, 2022, 9: uhac108. (中科院一区 Top, IF: 8.7)
- Liu C, Xia R, ..., Pan G. More microbial manipulation and plant defense than soil fertility for biochar in food production: A field experiment of replanted ginseng with different biochars. *Frontiers in Microbiology*, 2022 13:1065313. (中科院二区 Top, IF: 5.2)

- Liu C, Sun B, Zhang X, ..., Pan G. The Water-soluble pool in biochar dominates maize plant growth promotion under biochar amendment. *J Plant Growth Regul*, 2021, 40: 1466-1476. (中科院二区, IF: 4.8)
- Liu C and Pan G. More microbial manipulation and plant defense than soil fertility for biochar in food production: A field experiment of replanted ginseng with different biochars, EGU General Assembly 2023, Vienna, Austria, 23–28 Apr 2023, EGU23-4105, 2023. (会议论文)
- 刘成, 刘晓雨, ..., 潘根兴. 基于整合分析方法评价我国生物质炭施用的增产与固碳减排效果. *农业环境科学学报*, 2019, 38(3): 696-706. (中文核心期刊)

## 合作论文

- Liu X, Liu C, Pan G, Clarke N. Biochar-based technology in food production, climate change mitigation, and sustainable agricultural soil management: Post Terra Preta Era (Chapter 5, 英文专著)
- Li J, Sun B, Liu C, ..., Pan G. Legacy effect of long-term elevated CO<sub>2</sub> and warming on soil properties controls soil organic matter decomposition. *Agriculture*, 2023, 13(3), 639.
- Liu X, Wang H, Liu C, ..., Pan G. Biochar increases maize yield by promoting root growth in the rainfed region. *Archives of Agronomy and Soil Science*, 2021, 67:10, 1411-1424.
- Liu X, Liu C, Gao W. et al. Impact of biochar amendment on the abundance and structure of diazotrophic community in an alkaline soil. *Science of the Total Environment*, 2019, 688: 944-951.
- 李婕, 周泽源, 刘成, ..., 潘根兴. 大气 CO<sub>2</sub> 浓度增加和升温对不同品种水稻根系形态的影响, *南京农业大学学报*, 2022, 46(01).
- 刘晓雨, 刘成, 王贺东, ..., 潘根兴. 生物质炭不同组分对小白菜产量和品质影响. *南京农业大学学报*, 2018, 41(6): 1070-1077.
- 王贺东, 刘晓雨, 刘成, ..., 潘根兴, 2017. 生物质炭施用对马铃薯产量和品质影响. *土壤*, 2017, 49(5): 888-892.

## 发明专利

- 一种适用于高秆作物土壤温室气体监测的采气箱. 专利号: ZL202123418285.5, 授权时间: 2022.8.12, 排名第二
- 一种高硬度自来水生物质炭柱净化装置. 专利号: ZL201420408469.4, 授权时间 2015.04.01, 排名第四

## 学术报告

- International Workshop on Biochar and Sustainable Agriculture, 2016.10/18-21. Nanjing, China.
- China-ASEAN Workshop on Biochar Production and Application for Green Agriculture, 2017/11/18-21, Nanjing, China.
- 第 16 届中国“青土会”, 2017/7/12-16, 中国 福建, 并作口头报告: 生物质炭对小白菜产量、品质影响及其机制研究. 三等奖
- 2017 年生物质炭与生态功能学术研讨会, 2017/12/1-3, 中国 武汉, 并作口头报告: 基于整合分析方法评价生物质炭施用对我国农作物产量和土壤固碳减排潜力的影响。
- 第 17 届中国青年土壤科学工作者会议, 2018/11/18-20, 中国, 郑州
- The 4th Asia Pacific Biochar Conference, 2018/11/3-8, Guangdong, China. **Oral presentation:** Effects of straw carbonization returning to field on crop growth and N<sub>2</sub>O emissions in two dryland crop rotation systems. Second prize
- The 3rd Online International Conference on Sustainable Technology and Development, 2022/4/11 **Oral presentation:** Improved ginseng production under continuous cropping through reinforcing soil health and rhizosphere microbial manipulation with biochar.

- Sino-Norwegian Workshop on Biochar for Climate-smart Food Production, Green Growth and Soil Health. Nanjing, China, 7-10 June 2023. **Oral presentation:** Biochar drives the peanut productivity and diazotrophic community improvement in Aquic-Alluvic Primisol
- The General Assembly 2023 of the European Geosciences Union. Vienna, Austria, 23-28 April 2023. **Oral presentation:** More microbial manipulation and plant defense than soil fertility for biochar in food production: A field experiment of replanted ginseng with different biochars.

## 科研项目

- 江苏省科研创新项目 (KYCX21\_0613): 生物质炭抑制人参根腐病发生的微生物学机制. **主持**
- 国家级大学生创新训练计划 (201410879002): 高硬度饮用水生物炭处理柱研制. **主持**
- 科技支撑计划子课题 (2015BAC02B01): 生物炭固碳增肥与污染阻控协同技术及示范. 骨干参与
- 国家自然科学基金 (41501310): 生物质炭施用对水稻根系形态及根际土壤性质的影响研究. 参与
- 联合国全球环境基金 (B4SS): 生物质炭与土壤可持续管理, 参与.

## 获奖情况

- 安徽省优秀本科毕业生, 2016.7
- 南京农业大学一等学业奖学金, 2016.9
- 南京农业大学二等学业奖学金, 2017.10
- 第 16 届中国“青土会”口头报告三等奖, 2017.7
- 南京农业大学农业资源与生态环境研究所“Green Power”优秀硕士研究生奖学金, 2018.9
- 南京农业大学一等学业奖学金, 2018.10
- The 4th Asia Pacific Biochar Conference, Second prize in oral presentation, 2018.11
- 南京农业大学优秀硕士毕业生, 2019.6
- 南京农业大学一等学业奖学金, 2019.11
- 南京农业大学农业资源与生态环境研究所“Green Power”奖学金 一等奖, 2021.1
- 南京农业大学黄瑞采奖奖学金, 2022.11
- 南京农业大学优秀博士毕业生, 2023.5

## 社会实践

- 央视 CCTV17 首档大型涉农节目《全国涉农高校强农行动-最炫农科生》嘉宾之一及优秀实践者, 2022. 4
- “厚土强农 服务乡村振兴”, 南京电视台《厚土》纪录片, 2020

## 自我评价

踏实, 奉献, 自强, 感恩