



马煜春

## 基本信息

性别:	女	主页网址:	
出生年月:	1986.04	办公地点:	气象楼804
民族:	满族	工作单位:	应用气象学院
电话:		讲授课程:	农业气象学, 环境化学, 作物施肥原理与技术等
办公时间:		招生方向:	农业资源与环境, 农业
E-mail:	mayc@nuist.edu.cn	学院:	应用气象学院
专业:	农业资源与环境, 土壤生态学	职称:	副教授/副高
职务:			

## 教育与工作经历

### 教育背景:

09/2008 - 06/2013, 博士(土壤学), 南京农业大学

09/2004 - 06/2008, 学士(农业资源与环境学), 沈阳农业大学

### 工作经历:

07/2019 - 至今, 副教授, 南京信息工程大学

03/2014 - 03/2015, 访问学者, 澳大利亚新南威尔士州农业部, 澳大利亚

09/2013 - 06/2019, 讲师, 南京信息工程大学

## 学术与社会兼职

江苏省土壤学会, 委员;

南京市科学学会, 委员

## 研究领域与方向

### 研究领域:

土壤生态学

### 研究方向:

- 1、农田生态系统碳、氮足迹;
- 2、碳氮循环过程模型(温室气体排放及减排模拟);
- 3、面源污染.

## 主要项目、论文、专著和专利

### 主持项目情况:

- 1、国家自然科学基金青年项目（41601233） - “太湖地区蟹塘养殖湿地脱氮量及机制研究”（项目负责人）
- 2、江苏省自然科学基金青年项目（BK20140990） - “不同有机物料腐熟剂对秸秆还田稻田CH<sub>4</sub>和N<sub>2</sub>O排放影响及机理研究”（项目负责人）
- 3、土壤与农业可持续发展国家重点实验室项目（Y20160034） - “太湖地区蟹塘养殖湿地活性氮足迹评估”（项目负责人）

论文发表情况:

第一作者发表论文情况:

- (1) **Yuchun Ma\***, De Li Liu, Graeme Schwenke, Bo Yang. 2019. The global warming potential of straw-return can be reduced by application of straw-decomposing microbial inoculants and biochar in rice-wheat production systems. *Environmental Pollution*, 252: 835-845.
- (2) **Ma Yuchun\***, Graeme Schwenke, Liying Sun, De Li, Liu, Bin Wang, Bo Yang. Modeling the impact of crop rotation with legume on nitrous oxide emissions from rain-fed agricultural systems in Australia under alternative future climate scenarios. *Science of the Total Environment*, 2018, 630:1544-1552.
- (3) **Ma Yuchun\***, Liying Sun, Cuiying Liu, Xiaoya Yang, Wei Zhou, Bo Yang, Graeme Schwenke, De Li, Liu. A comparison of methane and nitrous oxide emissions from inland mixed-fish and crab aquaculture ponds. *Science of the Total Environment*, 2018, 637-638:517-523.
- (4) **Ma Yuchun**, Kong Xianwang, Yang Bo, Zhang Xiaolin, Yan Xiaoyuan, Yang Jianchang, Xiong Zhengqin\*. Net global warming potential and greenhouse gas intensity of annual rice-wheat rotations with integrated soil-crop system management. *Agriculture Ecosystems & Environment*, 2013, 164: 209-219
- (5) **Ma Yuchun**, Sun Liying, Zhang Xiaoxu, Yang Bo, Wang Jinyang, Yin Bin, Yan Xiaoyuan, Xiong Zhengqin\*. 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*, 2013, 49: 627-635
- (6) **Ma Yuchun**, Wang Jinyang, Zhou Wei, Yan Xiaoyuan, Xiong Zhengqin\*. Greenhouse gas emission during the seedling stage of rice agriculture as affected by cultivar type and crop density. *Biology and Fertility of Soils*, 2012, 48: 589-595
- (7) 马煜春#, 孙丽英, 刘翠英, 杨波, 汪方圆, 周伟. 太湖地区两种典型水产养殖系统CH<sub>4</sub>排放研究. *生态环境学报*, 2018, 27(7): 1269-1275.
- (8) 马煜春#, 孙丽英, 孔宪旺, 黄太庆, 熊正琴\*. 太湖地区不同集约化栽培模式下稻田CH<sub>4</sub>排放. *土壤学报*, 2011, 48(6): 1166-1172.
- (9) 马煜春#, 周伟, 刘翠英, 孙丽英\*, 杨波, 郑向群. 秸秆腐熟剂对秸秆还田稻田CH<sub>4</sub>和N<sub>2</sub>O排放的影响. *生态与农村环境学报*, 2017, 33(2):159-165.

合作发表论文情况:

- (1) Yang XY, Li J, Yu Q, **Ma Yuchun**, Tong XJ, Feng Y, Dong YX, 2019, Impact of diffuse radiation fraction on light use efficiency and gross primary production of winter wheat in the North China Plain, *Agricultural and Forest Meteorology*. 275, 233-242.
- (2) Sun Liying, **Ma Yuchun**, Liu YL, Li J, Deng JY, Rao XD, Zhang Y, 2019, The combined effects of nitrogen fertilizer, humic acid, and gypsum on yield-scaled greenhouse gas emissions from a coastal saline rice field. *Environmental Science and Pollution Research*.
- (3) Liying Sun, **Yuchun Ma**, Bo Li, Cheng Xiao, Lixin Fan, Zhengqin Xiong. 2018. Nitrogen fertilizer in combination with an ameliorant mitigated yield-scaled greenhouse gas emissions from a coastal saline rice field in southeastern China. *Environmental Science and Pollution Research*. <http://doi.org/10.1007/s11356-018-1808-6>.
- (4) Liying Sun, Zhen Wu, **Yuchun Ma**, Yinglie Liu, Zhengqin Xiong. 2018. Ammonia volatilization and atmospheric N deposition following straw and urea application from a rice-wheat rotation in southeastern China. *Atmospheric Environment*. 181: 97-105.
- (5) Zhou W, **Ma Yuchun**, Reinhard Well, Xiaoyuan Yan, 2018, Denitrification in shallow groundwater below different arable Land systems in a high nitrogen-loading region. *Journal of Geophysical Research: biogeoscience*.

- (6) Liu DL, Garry J O'Leary **Yuchun Ma**, 2015. Modeling soil organic carbon 2, Changes under a range of cropping and grazing farming systems in eastern Australia. Geoderma.
- (7) Garry J O'Leary, Liu DL, **Yuchun Ma**, 2014, Modeling soil organic carbon 1. Performance of APSIM crop and pasture modules against long-term experimental data. Geoderma.
- (8) Zhang XX, Fan CH, **Ma Yuchun**, Xiong ZQ, 2014, Two approaches for net ecosystems carbon budgets and soil carbon sequestration in a rice-wheat rotation system in China. Nutr CYCL AGROECOSYS

#### 专利情况:

- (1) 一种样品自动采集装置, 中国专利, 授权, ZL 2018 2 0177826.9
- (2) 一种测定自然水面氨挥发的装置, 中国专利, 授权, ZL 2018 2 0176900.5

## 获奖情况

## 其它学术成果