

CURRICULUM VITAE

Personal Information			
Name	Ming Zhan	Gender	Female
Position Title	Associated Professor		
Working Department	Department of Agronomy		
Email	zhanming@mail.hzau.edu.cn		
Address	No1. Shizishan St. Hongshan District, College of Plant Science and Technology Huazhong Agricultural University Wuhan, Hubei 430070, P.R. China		
Tel	+86-15827226786	Fax	
Research Interest			
<ul style="list-style-type: none"> ➤ Interactions between crops and soil of maize and rice cropping systems ➤ Greenhouse gases emission and soil carbon dynamics under cropping systems and field managements. ➤ Maize eco-physiology and innovation in production techniques in southern China. 			
Education & Working Experience			
Dec, 2010- now			
Associate Professor, College of Plant Science and Technology, Huazhong Agricultural University. Research (60%); Teaching in Agroecology and Crop Production (40%).			
Mar, 2013-Apr, 2014			
A visiting scholar, department of Biological Systems Engineering, University of Nebraska-Lincoln, USA.			
Jul, 2001- Nov, 2010			
Senior Lecturer, College of Plant Science and Technology, Huazhong Agricultural University. Research(50%), Teaching in Agroecology and Crop Production (50%)			
Jul, 1999 – Jul, 2001			
Lecturer, Department of Agronomy, Huazhong Agricultural University. Research (20%); Teaching in Ecology (80%).			
2005-2009			
Ph.D. Agroecology, MOA Key Laboratory of Huazhong Crop Physiology, Ecology and Production; Huazhong Agricultural University, Wuhan, Hubei, P. R. China.			
1996-1999			
M.S. Agronomy, Huazhong Agricultural University, Wuhan, Hubei, P. R. China.			
Publications			



Mingguang Qin, Yanwen Wang, **Ming Zhan***, Meng Sun, Cougui Cao and Tianqi Liu. Preceding crops changed greenhouse gases emission and carbon neutrality under maize-rice and double rice cropping systems. ARCHIVES OF AGRONOMY AND SOIL SCIENCE, 2022, <https://doi.org/10.1080/03650340.2022.2116428>

Tang L.L., **Zhan M.***, Shang C.H., Yuan J.Y., Wan Y.B., Qin M.G. Dynamics of root exuded carbon and its relationships with root traits of rapeseed and wheat. Plant Soil Environ., 2021, 67: 317 – 323.

Yuling Han, Wei Ma, Baoyuan Zhou, Akram Salah, Mingjian Geng, Cougui Cao, **Ming Zhan***, Ming Zhao*. Straw return increases crop grain yields and K-use efficiency under a maize-rice cropping system[J]. The Crop Journal, 2021, 9 (1): 168-180. DOI: <https://doi.org/10.1016/j.cj.2020.04.003>

Yuling Han, Wei Ma, Baoyuan Zhou, Xiaolong Yang, Akram Salah, Congfeng Li, Cougui Cao, **Ming Zhan***, Ming Zhao* Han, Y.; Ma, W.; Zhou, B.; Yang, X.; Salah, A.; Li, C.; Cao, C.; Zhan, M.*; Zhao, M*. Effects of Straw-Return Method for the Maize–Rice Rotation System on Soil Properties and Crop Yields. Agronomy 2020, 10(4) 461. Agronomy 2020, 10(4), 461; <https://doi.org/10.3390/agronomy10040461> (registering DOI)

Meng Sun, **Ming Zhan***, Ming Zhao, Lanlan Tang, Ming Guang Qin, Cougui Cao, Mingli Cai, Yang Jiang, Zhihui Liu. (2019). Maize and rice double cropping benefits carbon footprint and soil carbon budget in paddy field. Field Crops Research, 243, 107620. (IF=4.308)

Akram Salah, Ming Zhan*, Cougui Cao, Yuling Han, Lin Ling, Zhihui Liu, Ping Li, MiaoYe & Yang Jiang (Salah, A., **Zhan, M.***, Cao, C., Han, Y., Ling, L., & Liu, Z., et al. γ -aminobutyric acid promotes chloroplast ultrastructure, antioxidant capacity, and growth of waterlogged maize seedlings. Scientific Reports, 2019, 9(1): 484.

Ming Zhan, Adam J. Liska, Anthony L. Nguy-Robertson, Andrew E. Suyker, Matthew P. Pelton, Haishun Yang (Zhan, M., Liska, A. J., Nguy-Robertson, A. L., Suyker, A. E., Pelton, M. P., & Yang, H. (2019). Modeled and Measured Ecosystem Respiration in Maize–Soybean Systems Over 10 Years. Agronomy Journal, 110: 49-58

Ying Xu, **Ming Zhan***, Cougui Cao, Junzhu Ge, Rongzhong Ye, Shaoyang Tian, Mingli Cai. (Xu, Y., Zhan, M.* , Cao, C., Ge, J., Ye, R., Tian, S., & Cai, M). (2017). Effects of irrigation management during the rice growing season on soil organic carbon pools. Plant and Soil, 421(1-2), 337-351.

Xu, Y., **Zhan, M.***, Cao, C., Tian, S., Ge, J., Li, S., ... & Yuan, G. Improved water management to reduce greenhouse gas emissions in no-till rapeseed–rice rotations in Central China. Agriculture, Ecosystems & Environment, 2016, 221, 87-98.

Xu Ying, Ge Jun-zhu, Tian Shao-yang, Li Shu-ya, Anthony L. Nguy-Robertson, **Zhan Ming***, Cao Cou-gui*. Effects of water-saving irrigation practices and drought resistant rice variety on greenhouse gas emissions from a no-till paddy in the central lowlands of China. Science of the Total Environment, 2015, 505: 1043–1052.

Ibrahim M, Cao Cou-gui, **Zhan Ming***, Li Cheng-fang, Iqbal J. Changes of CO₂ emission and labile organic carbon as influenced by rice straw and different water regimes. International Journal of Environmental Science and Technology, 2015, 12(1): 263-274.2.

Zhan, M., Cao, C., Wang, J., Jiang, Y., Cai, M., Yue, L., & Shahrear, A. (2011). Dynamics of methane emission, active soil organic carbon and their relationships in wetland integrated rice-duck systems in Southern China. Nutrient Cycling in Agroecosystems, 89(1), 1-13.

Shahrear A., Li C.F., Dai G.Z., **Zhan M.**, Wang J.P., Pan S.G., Cao C.G.* (2009) . Greenhouse gas emission from direct seeding paddy field under different rice tillage systems in

central China. *Soil and Tillage Research*, 106:54–61.

Li Cheng-fang, Cao Cou-gui, Wang Jin-ping, **Zhan Ming**, Yuan Wei-ling, Shahrear Ahmad. 2009. Nitrous oxide emissions from wetland rice–duck cultivation systems in southern China. *Archives of Environmental Contamination and Toxicology*, 56(1):21-29.

Li Cheng-fang, Cao Cou-gui, Wang Jin-ping, **Zhan Ming**, Yuan Wei-ling, Shahrear Ahmad. 2008. Nitrogen losses from integrated rice–duck and rice–fish ecosystems in southern China. *Plant and Soil*, 307:207-217.

Additional Information

Research Projects

1. The National Key Research and Development Program of China (2022YFD2300205), 2022-2025.
2. The National Key Research and Development Program of China (2016YFD0300308), 2016/01-2020/12. **PI**
3. The National Natural Science Foundation of China (31871579). Coupling mechanism of soil carbon and nitrogen cycles as affected by upland crop types and straw return in the upland-paddy rotation system and its effects on nitrogen utilization. 2018-2022. **PI**
4. The National Natural Science Foundation of China (31571622). Study on Changes in Soil Organic Carbon and Its Emissions Related to Root-soil Process after Double Rice System Shift to Maize-Rice Rotation, 2016-2019. **PI**
5. The Special Fund for Agro-scientific Research in the Public Interest of China (201503122). Technical innovation in improvement on annual yield and soil fertility of Maize-Rice Rotation, 2015-2019. **PI**
6. 6. The National Natural Science Foundation of China (41101280). Dynamics of soil active organic carbon and carbon emission from rice farming system under different water regime, 2012-2014. **PI**.