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### 教育背景

1980-1984 中山大学地理系自然地理专业（环境地学方向）本科毕业，获理学学士学位  
1996-2000 南京农业大学土壤学博士毕业，获农学博士学位

### 工作经历

1984 年-2016 年 南京农业大学自然资源与环境科学学院，助教、副研究员、研究员、博士生导师。

### 正在进行的科研项目

- [1] 2014.1- 2017.12 主持国家自然科学基金面上项目“施肥对旱地红壤根际沉积物与粘土矿物的插层反应的影响”（41371299）
- [2] 2013.1-2017.8 参加“973 计划项目课题“畜禽有机肥氮磷生物转化与促效机制”（2013CB127403），正在研究，课题学术骨干
- [3] 2013.1- 2017.12 参加“十二五”农村领域国家科技计划项目课题“土壤肥力培育机械化关键技术研究示范”（2013BAD08B04），正在研究，课题学术骨干
- [4] 2011.01-2015.12，利用有机（类）肥料调控我国土壤微生物区系关键技术研究，农业部农业公益性行业科研专项，201103004，课题学术骨干

### 已结题的科研项目

- [5] 2011.1~2015.8 主持国家“973 计划”项目课题“土壤有机质转化累积机制与提高途径”（2011CB100503），正在研究，课题组长
- [6] 2008.5-2010.12 参加农业部农业公益性行业科研专项“有机（类）肥料产业发展的技术体系研究”（200803031），参加，已结题
- [7] 2005.11 – 2010.11 农业部重大国际合作项目（948 项目）“固体有机废弃物高附加值资源化技术引进、创新研究和产业化开发”（2006-G62），参加，已结题
- [8] 2007.01-2009.12 主持国家自然科学基金面上项目“湿地土壤多环芳烃生物降解代谢物与腐殖质结合机制研究”（20677027），主持，已结题

[9] 2000~2004 年参加国家“973 计划”项目课题“土水间物质交换及其环境效应”(G1999011806), 子课题负责人, 已结题

[10] 2003.1-2005.12 主持国家自然科学基金面上项目“环境胁迫导致土壤硝化-反硝化过程中亚硝酸盐累积的研究”(40271098), 主持, 已结题

## 学术成就

### 最近

已发表的论文 SCI 论文 45 篇 (\*表示通讯作者), 中文核心期刊论文 40 篇, 专利 12 篇。

### 2016 年

1. Ping Wang, Yucui Ma, Xihe Wang, Hong Jiang, Hua Liu, **WEI RAN**(\*), Qirong Shen, Spectral Exploration of Calcium Accumulation in Organic Matter in Gray Desert Soil from Northwest China, PLoS ONE, 2016, 11 (1): e0145054.

### 2015 年

2. Jian Xiao, Yongli Wena, Huan Li, Jialong Hao, Qirong Shen, Wei Ran, Xin lan Mei, Xinhua He, Guanghui Yu, In situ visualisation and characterisation of the capacity of highly reactive minerals to preserve soil organic matter (SOM) in colloids at submicron scale, Chemosphere, 2015, 138: 225-232.

### 2014 年

3. Zhang F, Meng X, Yang X, Ran W\*, Shen Q: Quantification and role of organic acids in cucumber root exudates in Trichoderma harzianum T-E5 colonization. *Plant Physiol Biochem* 2014, 83:250-257.
4. Zhang F, Yang X, **Ran W**\*, Shen Q: Fusarium oxysporum induces the production of proteins and volatile organic compounds by Trichoderma harzianum T-E5. *FEMS Microbiol Lett* 2014.
5. Zhu Z, Sun L, Huang X, **Ran W**\*, Shen Q: Comparison of the kinetics of lipopeptide production by Bacillus amyloliquefaciens XZ-173 in solid-state fermentation under isothermal and non-isothermal conditions. *World J Microbiol Biotechnol* 2014, 30(5):1615-1623.
6. Wen Y, Li H, Xiao J, Wang C, Shen Q, **Ran W**, He X, Zhou Q, Yu G: Insights into complexation of dissolved organic matter and Al(III) and nanominerals formation in soils under contrasting fertilizations using two-dimensional correlation spectroscopy and high resolution-transmission electron microscopy techniques. *Chemosphere* 2014, 111:441-449.
7. Wang C, Huang C, Qian J, Xiao J, Li H, Wen Y, He X, **Ran W**, Shen Q, Yu G: Rapid and accurate evaluation of the quality of commercial organic fertilizers using near infrared spectroscopy. *PLoS One* 2014, 9(2):e88279.
8. Zhao J, Ni T, Li Y, Xiong W, **Ran W**, Shen B, Shen Q, Zhang R: Responses of bacterial communities in arable soils in a rice-wheat cropping system to different fertilizer regimes and sampling times. *PLoS One* 2014, 9(1):e85301.
9. Ling N, Sun YM, Ma JH, Guo JJ, Zhu P, Peng C, Yu GH, **Ran W**, Guo SW, Shen QR: Response of the bacterial diversity and soil enzyme activity in particle-size fractions of Mollisol after different fertilization in a long-term experiment. *Biology and Fertility of Soils* 2014, 50(6):901-911.

## 2013 年

10. Zhu, Z. Gao, C. Wu, Y. Sun, L. Huang, X. **Ran, W\***. Shen, Q. Removal of heavy metals from aqueous solution by lipopeptides and lipopeptides modified Na-montmorillonite. *Bioresour Technol* 2013, 147: 378-386.
11. Zhang, J. C. , L. Zhang, P. Wang, Q. W. Huang, G. H. Yu, D. C. Li, Q. R. Shen & **W. Ran\***. The role of non-crystalline Fe in the increase of SOC after long-term organic manure application to the red soil of southern China. *European Journal of Soil Science*, 2013, 64, 797–804
12. Yi Luo, Lifei Sun, Zhen Zhu, **Wei Ran\***, Qirong Shen. Identification and characterization of an anti-fungi *Fusarium oxysporum* f. sp. *cucumerium* protease from the *Bacillus subtilis* strain N7. *Journal of Microbiology*, 2013, 51(3): 359-366
13. Fengge Zhang, Zhen Zhu, Beibei Wang, Ping Wang, Guanghui Yu, Minjie Wu, Wei Chen, **Wei Ran\***, Qirong Shen. Optimization of *Trichoderma harzianum* T-E5 biomass and determining the degradation sequence of biopolymers by FTIR in solid-state fermentation. *Industrial Crops and Products*, 2013, 49: 619–627
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15. XIAO Tong-Jian, CHEN Fang, GAO Chao, ZHAO Qing-Yun, SHEN Qi-Rong and **RAN Wei\***. *Bacillus cereus* X<sub>5</sub> enhanced bio-organic fertilizers effectively control root-knot nematodes (*Meloidogyne* sp.). *Pedosphere*, 2013, 23(2): 160-168
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18. Zhu, Z. Zhang, J. Wu, Y. **Ran, W.\*** Shen, Q. Comparative study on the properties of lipopeptide products and expression of biosynthetic genes from *Bacillus amyloliquefaciens* XZ-173 in liquid fermentation and solid-state fermentation. *World J Microbiol Biotechnol*. 2013, 29(11):2105-14
19. Zhen Zhu, Fengge Zhang, Chen Wang, **Wei Ran\***, Qirong Shen. Treating fermentative residues as liquid fertilizer and its efficacy on the tomato growth. *Scientia Horticulturae*, 2013, 164, 492 - 498
20. Qingyun Zhao, **Wei Ran**, Hui Wang, Xiang Li, Qirong Shen, Shengyuan Shen & Yangchun Xu. Biocontrol of *Fusarium* wilt disease in muskmelon with *Bacillus subtilis* Y-IVI. *BioControl* 2013, 58: 283-292
21. Fengge Zhang, Jun Yuan, Xingming Yang, Yaqing Cui, Lihua Chen, **Wei Ran**, Qirong Shen. Putative *Trichoderma harzianum* mutant promotes cucumber growth by enhanced production of indole acetic acid and plant colonization. *Plant Soil* (2013) 368:433–444

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22. Zhen Zhu, Guo-Yi Zhang, Yi Luo, **Wei Ran\***, Qirong Shen. Production of lipopeptides by *Bacillus amyloliquefaciens* XZ-173 in solid state fermentation using soybean flour and rice straw as the substrate. *Bioresource Technology* 2012, 112: 254–260.
23. Guoyi Zhang, Wasim Raza, Xiaohui Wang, **Wei Ran\***, Qirong Shen. Systemic modification of cotton root exudates induced by arbuscular mycorrhizal fungi and *Bacillus vallismortis* HJ-5 and their effects on *Verticillium* wilt disease. *Applied Soil Ecology* 2012, 61 (2012) 85– 91 .

24. Qiujun Wang, Qiwei Huang, Li Zhang, Jianchao Zhang, Qirong Shen & **Wei Ran\***. The effects of compost in a rice–wheat cropping system on aggregate size, carbon and nitrogen content of the size–density fraction and chemical composition of soil organic matter, as shown by <sup>13</sup>C CP NMR spectroscopy. *Soil Use and Management*, 2012, 28, 337–346
25. Qiujun Wang, Li Zhang, Jianchao Zhang, Qirong Shen, **Wei Ran**, Qiwei Huang\*. Effects of compost on the chemical composition of SOM in density and aggregate fractions from rice–wheat cropping systems as shown by solid-state <sup>13</sup>C-NMR spectroscopy. *Journal of Plant Nutrition and Soil Science*, online DOI: 10.1002/jpln.201100350.
26. Tong-Jian XIAO, Shi-Yong TAN, Qi-Rong SHEN and **Wei RAN\*** *Bacillus cereus* X5 suppresses root-knot nematode of tomato by colonizing in roots and soil. *African Journal of Microbiology Research* 2012. 6(10): 2321-2327
27. Yu Guang–hui, Wu Min–jie, Wei Guan–ran, Luo Yi–hong, **Ran Wei**, Wang Bo–ren, Zhang Jian–chao, and Shen Qi–rong\*. Binding of organic ligands with Al(III) in dissolved organic matter from soil: implications for soil organic carbon storage. *Environmental Science and Technology*, 2012, 46(11): 6102–6109.
28. Wang Li–ping, Shen Qi–rong, Yu Guang–hui\*, **Ran Wei**, Xu Yang–chun. Fate of biopolymers during rapeseed meal and wheat bran composting as studied by two-dimensional correlation spectroscopy in combination with multiple fluorescence labeling techniques. *Bioresource Technology*, 2012, 105: 88–94.

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31. Xiaoyu Yong, Yaqing Cui, Lihua Chen, **Wei Ran**, Qirong Shen, Xingming Yang\*, 2011, Dynamics of bacterial communities during solid-state fermentation using agro-industrial wastes to produce poly-γ-glutamic acid, revealed by real-time PCR and denaturing gradient gel electrophoresis (DGGE), *Appl Microbiol Biotechnol*, 92(4): 717-725.
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33. Qingyun ZHAO, Qirong SHEN, **Wei RAN**, Tongjian XIAO, Dabing XU, Yangchun XU\*, 2011, Inoculation of soil by *Bacillus subtilis* Y-IVI improves plant growth and colonization of the rhizosphere and interior tissues of muskmelon (*Cucumis melo* L.) *Biology and Fertility of Soils*, 2011, 47 (5):507-514.
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35. Xinqi HUANG, Lihua Chen, **Wei RAN**, Qirong SHEN, Xinming YANG\*, 2011, *Trichoderma* sp. strain SQR-T37 and its bio-organic fertilize could control *Rhizoctonia solani* damping-off disease in cucumber seedlings mainly by the mycoparasitism, *Applied Microbiology and Biotechnology*, 91: 741-755

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36. Xiao Tong-jian, Yang Qing-song, **Ran Wei\***, Xu Guo-hua, Shen Qi-rong. 2010. Effect of Inoculation with

- Arbuscular Mycorrhizal Fungus on Nitrogen and Phosphorus Utilization in Upland Rice-Mungbean Intercropping System. *Agricultural Sciences in China*, 9(4), 528-528.
37. Luo Jia, **Ran Wei**, Hu Jiang, Yang Xingming, Xu Yangchun, Shen Qirong\*. 2010. Application of Bio-Organic Fertilizer Significantly Affected Fungal Diversity of Soils. *Soil Science Society of America Journal*, 74(6), 2039-2039.
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  39. Li Yuefeng, **Ran Wei**, Zhang Ruiping, Sun Shubin, Xu Guohua\*. 2009. Facilitated legume nodulation, phosphate uptake and nitrogen transfer by arbuscular inoculation in an upland rice and mung bean intercropping system. *Plant and Soil*, 315(1-2), 285-285.
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48. 王小慧, 张国漪, 李蕊, 卢颖林, 冉炜\*, 沈其荣. 2013. 拮抗菌强化的生物有机肥对西瓜枯萎病的防治作用, *植物营养与肥料学报*, 19(1): 231-239.
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