

Guopeng Liang

Education

Department of Soil Science, Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences

Sep.2013-Jun.2016

Degree: Master. in Soil Science

College of Resources and Environment, Shandong Agricultural University, PR China

Sep.2009-Jun.2013

Degree: B.Sc. in Agricultural Resources and Environment

Research Interests

Global change ecology, Ecosystem modelling, Data assimilation, Extreme drought, Soil biology

Professional Employment

2016-pres.: Research Assistant (with Dr. Yiqi Luo), Northern Arizona University

Publications

Master study:

Liang G, Wu H, Houssou A.A, Cai D, Wu X, Gao L, Wang B, Li S. Soil respiration, glomalin content, and enzymatic activity response to straw application in a wheat-maize rotation system. *Journal of Soils and Sediments*, 2017.

Liang G, Houssou A.A, Wu H, Cai D, Wu X, Gao L, Li J, Wang B, Li S. Seasonal patterns of soil respiration and related soil biochemical properties under nitrogen addition in winter wheat field. *Plos one*, 2015, 10(12): e0144115.

Liang G, Houssou A.A, Wu H, Wu X, Cai D, Gao L, Li J, Wang B, Li S. Soil nitrogen content and enzyme activities in rhizosphere and non-rhizosphere of summer maize under different application rates. *Chinese Journal of Applied Ecology*, 2016, 27(6): 1917-1924. (in Chinese with English abstract)

Gao L, Becker, E, **Liang G**, Houssou A.A, Wu H, Wu X, Cai D, Degré A. Effect of different tillage systems on aggregate structure and inner distribution of organic carbon. *Geoderm*, 2017, 288: 97-104.

Houssou A.A, **Liang G**, Gao L, Li J, Wu X, Wu H, Wang X, Cai D. Effect of conservation tillage on soil respiration rate and water content under wheat/maize system in North China Plain. *Journal of Soil Science and Environmental Management*, 2016, 7(2): 10-22.

Wang B, Wu X, Yu W, Yang Y, Wang X, Li J, **Liang G**, Cai D. Effects of different carbon and nitrogen managements on soil respiration of spring maize farmland. *Soil and Fertilizer Sciences in*

China, 2015, 4: 1-7. (in Chinese with English abstract)

Wang B, Cai D, Wu X, Li J, **Liang G**, Yu W, Wang X, Yang Y, Wang X. Effects of long-term conservation tillage on soil organic carbon, corn yield and water utilization. *Plant Nutrition and Fertilizer Science*, 2015, 21(6): 1455-1464. (in Chinese with English abstract)

Li J, Wu H, Wu X, Cai D, Wang B, **Liang G**, Yao Y, Lv J. Effects of 15-year conservation tillage on soil and aggregate organic carbon sequestration in the Loess Hilly region of China. *Scientia Agricultura Sinica*, 2015, 48(23): 4690-4697. (in Chinese with English abstract)

Undergraduate study:

Dou Q, Wang J, Yin B, **Liang G**, Cui X. Alleviating effects of exogenous EBR on tomato seedlings during copper stress. *Plant Physiology Journal*, 2015, 51(3): 287-294. (in Chinese with English abstract)

Yin B, **Liang G**, Jia W, Cui X. Exogenous EBR mediated the plant growth and absorption and accumulation of Cu, Fe and Zn in tomato seedlings under Cu stress. *Chinese Journal of Eco-Agriculture*, 2014, 22(5): 578-584. (in Chinese with English abstract)

Zhang M, **Liang G**, Jiang C, Cui X. Exogenous nitric oxide involved in the accumulation and subcellular distribution of Fe, Zn and Mn in tomato seedlings under copper stress. *Journal of Plant Nutrition and Fertilizer*, 2014, 20(3): 670-680. (in Chinese with English abstract)

Awards

1. Academic Scholarship, 2011-2012

Sponsored by Shandong Agricultural University

2. Outstanding Student in Social Work, 2011-2012

Sponsored by Shandong Agricultural University

3. Academic Scholarship, 2013-2014

Sponsored by Chinese Academy of Agricultural Sciences

4. Monsanto Scholarship, 2016

Sponsored by Monsanto Company

5. IPNI Scholarship, 2016

Sponsored by International Plant Nutrition Institute (IPNI)

Personalities & Skills

- Diligent and team-spirited
- Computer skills: Proficient in SAS, SPSS, SigmaPlot, Origin, R and Canoco
- Ecosystem model and Data assimilation