



First Name: **Hongbo**

Last Name: **He**

Title:

Institution: **Institute of Applied Ecology, Chinese Academy of Sciences**

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**Education:**

PhD: **Soil Science**

MS: **Analytical Chemistry**

BS: **Analytical Chemistry**

**General Areas of Expertise:**

Her research interests center on understanding the microbial control over biogeochemical cycles of C and N, especially regarding their role in maintaining the sustainability of agricultural soils under the scenario of global change. Studies of the dynamics of microbially derived residues linking to the transformation and sequestration of soil organic C and N have dramatically increased in recent years due to their important role in manipulating global C and N cycle. The development of the novel techniques, i.e., isotope tracing and the memory effect of microbial residues, is urgent to explore the dynamics of underlying mechanisms in C and N turnover.

**Short Bio:**

09/2011-present, Professor, Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China  
06/2005-08/2011, Associate Professor, Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China  
09/2002-05/2005, Institute of Applied Soil Ecology, Chinese Academy of Sciences Soil Science Ph.D.  
1995/06-08/2002, Lecturer, College of Science, Shenyang Ligong University, China  
09/1992-07/1995, Nankai University, China Analytical Chemistry M.S.  
09/1988-07/1992, Nankai University, China Analytical Chemistry B.S.

**Five Representative Publications:**

1. Shao, S., Zhao, Y., Zhang, W., Hu, G.Q., Xie, H.T., Yan, J.H., Han, S.J., He, H.B., Zhang, X.D. 2017. Linkage of microbial residue dynamics with soil organic carbon sequestration during subtropical forest succession. *Soil Biology & Biochemistry*, 114: 114-120.
2. Hu, G.Q., He, H.B., Zhang, W., Zhao, J.S., Cui, J.H., Li, B., Zhang, X.D. 2016. The transformation and renewal of soil amino acids induced by the availability of extraneous C and N. *Soil Biology & Biochemistry*, 96: 86-96.
3. Tian, Q.X., He, H.B., Cheng, W.X., Bai, Z., Wang, Y., Zhang, X.D. 2016. Factors controlling soil organic carbon stability along a temperate forest altitudinal gradient. *Scientific Report*, 6: 18783.
4. Zhang, W., He, H.B., Li, Q., Lu, C.Y., Zhang, X.D., Zhu, J.G. 2014. Soil microbial residue dynamics after 3-year elevated O<sub>3</sub> exposure are plant species-specific. *Plant and Soil*, 376: 139-149.
5. Lü, H.J., He, H.B., Zhao, J.S., Zhang, W., Xie, H.T., Hu, G.Q., Liu, X., Wu, Y.Y., Zhang, X.D. 2013. Dynamics of fertilizer-derived organic nitrogen fractions in an arable soil during a growing season. *Plant and Soil*, 373(01): 595-607.

**FEWESTERN Symposium 2017 Presentation Title and Abstract:**

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