



First Name: **Xudong**

Last Name: **Zhang**

Title:

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

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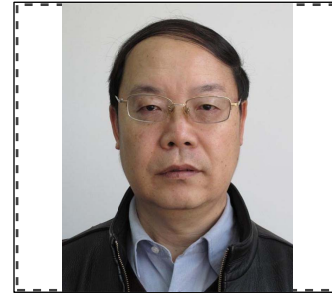
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Education:

PhD: **Soil Science**

MS: **Soil Science**

BS: **Soil Science**

General Areas of Expertise:

His research has concentrated on understanding the microbial control over biogeochemical cycles of carbon and nitrogen in agro-ecosystems, especially regarding their role in maintaining the sustainability of agricultural soils. In research on the soil C and N cycle, Dr. Zhang proposed a theoretical concept "transitional pool of available nitrogen", which provide a new perspective on understanding the mechanism of nitrogen turnover, and on researching and developing the efficient use of nitrogen fertilizer. His research also involves the development of soil and bio-energy crop management practices which improve soil, water and air quality and maintain or improve crop productivity. Dr. Zhang is the lead principal investigator of several national key projects in soil research. He has produced large and important contributions to those research fields.

Short Bio:

2000- Professor of Soil Science, Institute of Applied Ecology, Chinese Academy of Sciences, Shenyang, China
2001-02 Visiting Professor, Institute of Soil Science, University of Bayreuth, Germany
1996-99 Research Scientist, Institute of Soil Science, University of Bayreuth, Germany
1993-95 Associate Professor, Department of Soil Science and Agrochemistry, Shenyang Agricultural University, China
1989-92 Lecturer, Department of Soil Science and Agrochemistry, Shenyang Agricultural University, China
1989 Ph.D., Soil Science, Shenyang Agricultural University, China
1986 M.S., Soil Science, Shenyang Agricultural University, China
1982 B.S., Agronomy, Jilin Agricultural University, China

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. Zhang, W., Cui, Y.H., Lu, X.K., Bai, E., He, H.B., Xie, H.T., Liang, C., Zhang, X.D. 2016. High nitrogen deposition decreases the contribution of fungal residues to soil carbon pools in a tropical forest ecosystem. *Soil Biology & Biochemistry*, 97: 211-214.
4. Liu, X., Hu, G.Q., He, H.B., Liang, C., Zhang, W., Bai, Z., Wu, Y.Y., Lin, G.F., Zhang, X.D. 2016. Linking microbial immobilization of fertilizer nitrogen to in situ turnover of soil microbial residues in an agro-ecosystem. *Agriculture, Ecosystems and Environment*, 229: 40-47.
5. 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.

FEWESTERN Symposium 2017 Presentation Title and Abstract:

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