

Curriculum Vitae

Name: Xing Yang

Position: PhD student

Department of Soil- and Groundwater- Management

Institute of Foundation Engineering, Waste- and Water-
Management

School of Architecture and Civil Engineering

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Research Topic

- The impact of biochar application on remediation of soil contaminated with potentially toxic elements.

Work Experience

- 7/2015--Present. **Research associate**, Key Laboratory of Soil Contamination Bioremediation of Zhejiang Province, Zhejiang A & F University, Hangzhou, China

Educational Background

- **M.Sc.** 2012-2015, Master of Science in Agriculture (Soil Science), Zhejiang A & F University, China
M.Sc. Thesis title: Effect of biochar on the bioavailability and redistribution of heavy metals in soil
- **B.Sc.** 2008-2012, Bachelor of Science (Environment Science and Management of Urban and Rural Planning), Pingdingshan University, China

Publications

1. Nie, C., **Yang, X. (co-first author)**, Niazi, N.K., Xu, X., Wen, Y., Rinklebe, J., Ok, Y.S., Xu S., Wang, H., 2018. Impact of sugarcane bagasse-derived biochar on heavy metal availability and microbial activity: A field study. *Chemosphere* 200: 274-282.
2. **Yang, X.**, Lu, K., McGrouther, K., Che, L., Hu, G., Liu, X., Shen, L., Huang, H., Ye, Z., Wang, H., 2017. Bioavailability of Cd and Zn in soils treated with biochars derived from tobacco stalk and dead pigs. *Journal of Soils and Sediments* 17: 751-762. **(ESI Highly cited paper)**
3. **Yang, X.**, Liu, J., McGrouther, K., Huang, H., Lu, K., Guo, X., He, L., Lin, X., Che, L., Ye, Z., Wang, H. 2016. Effect of biochar on the extractability of heavy metals

(Cd, Cu, Pb and Zn) and enzyme activity in soil. Environmental Science and Pollution Research 23: 974-984. **(ESI Highly cited paper)**

4. **Yang, X.**, Wang, H., Strong, P.J., Xu, S., Liu, S., Lu, K., Sheng, K., Guo, J., Che, L., He, L., Ok, Y.S., Yuan, G., Shen, Y., Chen, X. 2017. Thermal properties of biochars derived from waste biomass generated by agricultural and forestry sectors. Energies 10(4): 469.
5. **Yang, X.**, Huang, H., Wang, L., Shen, Y., Lu, K., Han, X., Wang, H., 2016. Pyrolysis temperature optimization of biochars from tobacco stalk and its physicochemical characterization. Journal of Zhejiang University (Agric. & Life Sci.) 42(2): 245-255.(in Chinese)
6. Qin, P., Wang, H., **Yang, X.**, He, L., Müller, K., Shaheen, S.M., Xu, S., Rinklebe, J., Tsang, D.C.W., Ok, Y.S., Bolan, N., Song, Z., Che, L., Xu, X., 2018. Bamboo- and pig-derived biochars reduce leaching losses of dibutyl phthalate, cadmium, and lead from co-contaminated soils. Chemosphere 198: 450-459.
7. Lu, K., **Yang, X.**, Gielen, G., Bolan, N., Ok, Y.S., Niazi, N.K., Xu, S., Yuan, G., Chen, X., Zhang, X., Liu, D., Song, Z., Liu, X., Wang, H. 2017. Effect of bamboo and rice straw biochars on the mobility and redistribution of heavy metals (Cd, Cu, Pb and Zn) in contaminated soil. Journal of Environmental Management 186: 285-292. **(ESI Highly cited paper)**
8. Lu, K., **Yang, X.**, Shen, J., Robinson, B., Huang, H., Liu, D., Bolan, N.S., Pei, J., Wang, H. 2014. Effect of bamboo and rice straw biochars on the bioavailability of Cd, Cu, Pb and Zn to *Sedum plumbizincicola*. Agriculture, Ecosystems & Environment 191:124-132.
9. Xu, X., **Yang, X.**, Lu, K., He, L., Xu, S., Wang, H., 2018. Effect of different intensive management durations on soil phosphorus fractions in Lei Bamboo (*Phyllostachys praecox*) forest. Journal of Soil and Water Conservation 32(1): 225-231. (in Chinese with English abstract)
10. Zhao, W., **Yang, X.**, He, L., Guo, J., Wang, H., 2018. Effect of pyrolysis temperature on physicochemical properties of biochars derived from typical urban woody green wastes in southern China. Journal of Zhejiang A & F University 35(6): 1007-1016. (in Chinese with English abstract)
11. Wang, Q., **Yang, X.**, He, L., Lu, K., Che, L., Yuan, G., Wang, H., 2018. Effect of acidulated pig biochar on the concentration and fractionation of phosphorous in soil. Journal of Zhejiang A & F University 35(3): 387-397. (in Chinese with English abstract)
12. Chen, X., Hu, G., **Yang, X.**, Ye, Z., Wu, X., Wang, H., 2017. Heavy metal accumulation and physiological response of bamboo-willow plants to Cd and Zn in soils. Acta Scientiae Circumstantiae 37(10): 3968-3976. (in Chinese with English abstract)
13. Ji, G., Guo, M., **Yang, X.**, Lu, K., Wang, H., 2017. Synthesis of sulphhydryl silane-modified multiwall carbon nanotubes and its cadmium adsorption capacity. Acta Scientiae Circumstantiae 37(6): 2171-2180. (in Chinese with English abstract)
14. Lu, K., Guo, X., Hu, G., **Yang, X.**, Che, L., Liu, X., Wang, H., 2017. Effects of bamboo and pig biochars on soil N₂O and CO₂ emissions in *Ipomoea aquatica* Forsk

- *Brassica chinensis* rotation system. *Acta Scientiae Circumstantiae* 4: 1547-1554. (in Chinese with English abstract)
15. Lu, K., Guo, X., Hu, G., **Yang, X.**, Xu, X., Wang, H., 2017. Difference in physiological and biochemical characteristics between pig and bamboo biochars and their effects on ammonia volatilization in greenhouse vegetable production. *Journal of Zhejiang A & F University* 34(4): 647-655. (in Chinese with English abstract)
 16. Guo, X., Lu, K., Hu, G., **Yang, X.**, Yuan, G., Shen, L., Wang, H., 2017. Effects of bamboo biochar and dead pig biochar on *Ipomoea aquatic Forsk* growth and soil nutrient concentrations. *Journal of Zhejiang A & F University* 34(2): 244-252. (in Chinese with English abstract)
 17. Hu, G., **Yang, X.**, Chen, X., Lu, K., He, L., Ye, Z., Wu, X., Wang, H., 2016. Physiological responses of bamboo-willow plants to heavy metal stress. *Acta Scientiae Circumstantiae* 36(10): 3870-3875. (in Chinese with English abstract)
 18. Hu, G., Yu, Y., **Yang, X.**, Lu, K., Zhang, X., He, L., Wang, H., 2016. Uptake, Accumulation and Translocation of Cadmium in Bamboo-willow Plant. *Acta Scientiae Circumstantiae* 36(4): 1508-1514. (in Chinese with English abstract)
 19. Qiu, B., Xu, L., **Yang, X.**, Feng, Y., 2016. Spatial pattern evolvement of villages around the new colleges and universities: a case study of Pingdingshan University. *Journal of Pingdingshan University* 31(5): 79-83. (in Chinese with English abstract)
 20. Fan, S., He, L., Qin, H., **Yang, X.**, Wang, H., 2016. Effect of biochar on diversity of microbial community in soils contaminated with dibutyl phthalate. *Acta Scientiae Circumstantiae* 36(5): 1800-1809. (in Chinese with English abstract)
 21. Liu, J., **Yang, X.**, Lu, K., Zhang, X., Huang, H., Wang, H., 2015. Effect of bamboo and rice straw biochars on the transformation and bioavailability of heavy metals in soil. *Acta Scientiae Circumstantiae* 35(11): 3679-3687. (in Chinese with English abstract)

Book Chapters

22. Wang, H., **Yang, X.**, He, L., Lu, K., Müller, K., McGrouther, K., Xu, S., Zhang, X., Li, J., Huang, H., Yuan, G., Hu, G., Liu, X. 2018. Using Biochar for Remediation of Contaminated Soils. Pp: 763-783. In: Luo, Y., Tu, C. (eds.), *Twenty Years Research and Development on Soil Pollution and Remediation in China*. Science Press & Springer Nature Singapore Pte Ltd.
23. Wang, H., **Yang, X.**, He, L., Lu, K., Müller, K., McGrouther, K., Xu, S., Zhang, X., Li, J., Huang, H., Yuan, G., Hu, G., Liu, X. 2016. Remediation of Contaminated Soils with Biochar. In: Luo, Y., (ed.). *Twenty Years Research and Development on Soil Pollution and Remediation in China*. Science Press, Beijing, China.
24. Wang, H., He, L., Lu, K., Zhang, X., **Yang, X.**, Guo, X. 2015. Chapter 8. Biochar for the remediation of contaminated soil. Pp 349-403. In: *Environmental Effect of Biochar in soil*. Wu, W.X., Sun, X., Dong, D., Wang, H.L. (ed.). Science Press, Beijing, China.

Conference Presentations

- **Yang, X.**, Lu, K., He, L., Wang, H. 2014. Effect of biochar on the extractability of heavy metals (Cd, Cu, Pb and Zn) in soil. Oral presentation at the 2014 Soil Chemistry Annual Conference, Chinese Society of Soil Science, 19-22 April, Changsha, China. (**Obtained the third prize of the postgraduate students' presentations**)

Conferences and Workshops Participated

- International Conference of “The 4th Asia Pacific Biochar Conference”. Foshan, Guangdong, China. 2018.11
- National Conference of “Biochar and its ecological functions”. Wuhan, Hubei, China. 2017.12
- National Conference of “Biochar and sustainable development of agriculture”. Lin'an, Zhejiang, China. 2015.11
- 2014 Soil Chemistry Annual Conference, Chinese Society of Soil Science. Changsha, Hunan, China. 2014.04
- 2nd International Training Course on Biochar Production, Testing and Application. Hangzhou, Zhejiang, China. 2013.11
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