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Fate, accumulation and impact of metallic nanomaterials in the terrestrial environment

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“满怀希望就会所向披靡”

Juan Wu

September 2021, Leiden

Curriculum Vitae

Juan Wu was born on November 07th, 1991 in Yingtan, Jiangxi Province, China. She graduated from No.1 High School of Guixi in 2010. She started her Bachelor study in Environmental Science in Yan'an University from 2010 to 2014. Her Bachelor thesis was entitled "The Release of Zn and Mn from spent Zn-C Batteries by Using Ultrasound-assisted bioleaching". She continued her Master study in Environmental Science and Engineering in South China Normal University from 2014 to 2017 and was awarded the National Scholarship (1 %). During this period, she was supervised by Prof. Zhanqiang Fang. Her Master thesis was focused on "The effects of biochar-supported Ni/Fe particles on removal mechanism and bioavailability of PBDEs in contaminated soil and the related phytotoxicity". During her master study, she presented her research findings in the 11th and 12th International Symposium on POPs in Xi'an and Wuhan, and registered a patent named "The prepared methods of biochar-supported Ni/Fe composite particles and its in situ application to remedy polybrominated diphenyl ether contaminated soil". After her Master study, she was granted a scholarship by the Chinese Scholarship Council for a PhD study project, and started her PhD study in the Institute of Environmental Sciences in Leiden University in 2017 under the supervision of Prof. dr. Willie Peijnenburg, Prof. dr. Martina Vijver and Dr. Thijs Bosker. Her PhD research focused on the ecotoxicological impacts of metallic nanoparticles, with specific aims on the fate, accumulation and impact of nanoparticles in plants and the follow-up food chain transfer. During her PhD study, she presented her research in the Anniversary symposium of MilieuChemTox in Utrecht and supervised MSc student.

Publication list

1. **Wu, J.**; Bosker, T.; Vijver, M. G.; Peijnenburg, W. J. G. M (2021). Trophic transfer and toxicity of (mixtures of) Ag and TiO₂ nanoparticles in the lettuce - terrestrial snails food chain. *Environmental Science & Technology*. In revision.
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