

Name: Xinping Yang

Professor of Environmental engineering

Address: D601 Science Building

Phone Number: +86 (0)25 8439 9055

Email: xpyang@njau.edu.cn

Education:

- Ph.D., Nanjing Agricultural University; Ecology, 2009
- Master, Southeast University; Environmental Engineering, 2002
- Bachelor, Jiangsu Institute of chemical Technology; Water supply and Sewage Engineering, 1994

Research interests and expertise:

- Removal of emerging contaminants in wastewater treatment plant
Dr. Yang investigates how emerging contaminants affect the associated microbial community of activated sludge in wastewater treatment plant. With an emphasis on the specific relation between microbial community structure and emerging contaminants, and the changes of biological performance of activated sludge exposed to different levels of emerging contaminants (PFASs, PPCPs, NPs, etc.) in the wastewater. She also studies the chemical compositions and functions of extracellular polymeric substances of activated sludge microorganisms exposed to contaminants.
- Phytoremediation of contaminated soils and waters
Her research and extension program focuses on water and soil quality monitoring, assessment and remediation. With an emphasis on environmental impacts that non-point sources have on waterways, she conducts research on rural sewage treatment with constructed wetlands and the transformation and removal of contaminants including heavy metal, nutrients (N and P), and dissolved organic carbon in plant-soil-water systems .

Current projects:

- The National Natural Science Foundation of China (31870489), Extracellular polymeric substances and their related mechanisms on response of activated sludge in wastewater treatment system to nanosilver stress, 2019-2022, 600,000 RMB
- The Ministry of Agriculture of China (201403014-5), Optimization of multi-objective crop pattern for the ecological remediation of heavy metal contaminated farmland, 2014-2018, 1,820,000 RMB

Current teaching:

- Environmental Engineering; ENSE3131 (spring term)
- Feedwater and Wastewater Pipe Networks; ENSE4131 (spring term)
- Fluid Mechanics; ENSE3113 (autumn term)
- Feedwater Treatment; ENSE4130 (autumn term)

Selected publications:

- Chen H., **Yang Xinping** *, Wang P., Wang Z., Li Ming, Zhao F. (2018) Dietary cadmium intake from rice and vegetables and potential health risk: A case study in Xiangtan, southern China. *Science of the Total Environment*. 639:271-277.
- **Yang Xinping***, Li Q., Tang Z., Zhang W., Yu G., Shen Q., Zhao F. (2017) Heavy metal concentrations and arsenic speciation in animal manure composts in China. *Waste Management*. 64:333-339.
- **Yang Xinping**, Pan H., Wang P*, Zhao F. (2017). Particle-specific toxicity and bioavailability of cerium oxide (CeO₂) nanoparticles to *Arabidopsis thaliana*. *Journal of Hazardous Materials*. 322:292-300.
- Ye C., **Yang Xinping***, Zhao F., Ren L. (2016). The shift of the microbial community in activated sludge with calcium treatment and its implication to sludge settleability. *Bioresource Technology*. 207:11-18.
- **Yang Xinping**, Ye C., Liu Y., Zhao F.* (2015) Accumulation and phytotoxicity of perfluorooctanoic acid in the model plant species *Arabidopsis thaliana*. *Environmental Pollution*. 206:560-566.

Prizes, awards, honors:

- Excellent Teacher, Nanjing Agricultural University, 2017