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环境科学专业

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教育背景

2007.9-2012.6, 南京大学, 环境科学, 理学博士

2003.9-2007.7, 陕西科技大学, 环境工程, 工学学士

研究经历

2017.3-至今, 南京师范大学, 环境学院, 副教授

2017.10-2018.10, 美国东北大学, 访问学者

2014.12-2017.02, 南京师范大学, 地理学博士后流动站,
博士后

2012.07-2014.10, 南京大学, 环境科学, 助理研究员

主要研究方向

沉积物-水介质硫循环

土-液界面有机污染物迁移转化

承担 (参与) 的主要科研项目

1. 国家自然科学基金青年基金 (21407076) : 自然土壤湿度下粘土矿物催化典型有机农药化学转化过程及转化机理研究, 主持, 2015.01-2017.12

2. 江苏省高等学校自然科学研究面上项目 (18KJB610011) : 富营养化湖泊中 $\Sigma\text{S}2$ -的主要来源及对内源磷释放影响, 主持, 2018.09-2020.08

3. 南京师范大学优秀高层次人才科研启动基金 (184080H202B192) , 主持, 2019.05-2022.05

4. 国家自然科学基金面上项目 (41573061) : 富营养化湖泊藻积层有机碳积累动态及驱动机制研究, 参与, 2016.01-2019.12

5. 水体污染控制与治理科技重大专项 (2017ZX07203-003) : 高藻胁迫下梅梁湾周边河道水环境深度改善和良性生态系统构建技术与工程示范, 参与, 2017-2020

6. 江苏省太湖水环境综合治理科研课题 (TH2015202) : 池塘蟹虾养殖场污染治理技术研究及工程示范, 参与, 2015.11-2017.10



近期发表论文、专利及软件 (*通讯作者)

[1] **Zhao Y.P.***, Qiao R.X., Zhang S.Y., Wang G.X. (2021) Metabolomic profiling reveals the intestinal toxicity of different length of microplastic fibers on zebrafish (*Danio rerio*). **Journal of Hazardous Materials** 403: 123663.

[2] Li X.J.¹, **Zhao Y.P.¹**, Wang G.X.*, Han R.M., Dang X.Y., Li Z.R., Ren J.F., Gao C.X. (2020) Sedimentary nitrogen fractions and source assignment from different inflows to a receiving lake. **Water Science and Technology: Water Supply** 20(5): 1950-1964.

[3] **Zhao Y.P.**, Zhang Z.Q., Wang G.X.*, Li X.J., Ma J., Chen S., Deng H., Annalisa O.H. (2019) High sulfide production induced by algae decomposition and its potential stimulation to phosphorus mobility in sediment. **Science of the Total Environment** 650: 163-172.

[4] Wu S.J.¹, **Zhao Y.P.¹**, Chen Y.Y., Dong X.M., Wang M.Y., Wang G.X. (2019) Sulfur cycling in freshwater sediments: A cryptic driving force of iron deposition and phosphorus mobilization. **Science of the Total Environment** 657: 1294-1303.

[5] **Zhao Y.P.**, Zhang Y., Wang G.X.*, Han R.M., Xie X.C. (2016) Effects of chlorpyrifos on the gut microbiome and urine metabolome in mouse (*Mus musculus*). **Chemosphere** 153: 287-293.

[6] **Zhao Y.P.**, Gu X.Y., Li S.Y., Han R.M., Wang G.X.* (2015) Insights into tetracycline adsorption onto kaolinite and montmorillonite: experiments and modeling. **Environmental Science and Pollution Research** 2: 17031-17040.

[7] **Zhao Y.P.**, Tong F., Gu X.Y.*, Wang X.R., Zhang Y. (2014) Insights into tetracycline adsorption onto goethite: Experiments and modeling. **Science of the Total Environment** 470-471: 19-25.

[8] **Zhao Y.P.**, Tan Y.Y., Guo Y., Gu X.Y.*, Wang X.R., Zhang Y (2013) Interactions of tetracycline with Cd (II), Cu (II) and Pb (II) and their cosorption behavior in soils. **Environmental Pollution** 180: 206-213.

[9] **Zhao Y.P.**, Gu X.Y.*, Gao S.X., Geng J.J., Wang X.R. (2012) Adsorption of tetracycline (TC) onto montmorillonite: Cations and humic acid effects. **Geoderma** 183: 12-18.

[10] **Zhao Y.P.**, Geng J.J., Wang X.R., Gu X.Y.*, Gao S.X.* (2011) Adsorption of tetracycline onto goethite in the presence of metal cations and humic substances. **Journal of Colloid and Interface Science** 361(1): 247-251.

[11] **Zhao Y.P.**, Geng J.J., Wang X.R., Gu X.Y.*, Gao S.X.* (2011) Tetracycline adsorption on kaolinite: pH, metal cations and humic acid effects. **Ecotoxicology** 20(5):1141-1147.

[12] Zhang Y., Wolosker M.B., **Zhao Y.P.**, Ren H.Q., Lemos B.* (2020) Exposure to microplastics cause gut damage, locomotor dysfunction, epigenetic silencing, and aggravate cadmium (Cd) toxicity in Drosophila. **Science of the Total Environment** 744: 140979.

[13] Li Z.C., **Zhao Y.P.**, Xu X.G., Han R.M., Wang M.Y., Wang G.X.* (2018) Migration and transformation of dissolved carbon during accumulated cyanobacteria decomposition in shallow eutrophic lakes: a simulated microcosm study. PeerJ 6:e5922.

[14] Tong F., **Zhao Y.P.**, Gu X.Y.*, Gu C., Lee Charles C.C. (2015) Joint toxicity of tetracycline with copper(II) and cadmium(II) to *Vibrio fischeri*: effect of complexation reaction. **Ecotoxicology** 24: 346-355.

[15] Zhang Y., Deng Y.F., **Zhao Y.P.**, Ren H.Q.* (2014) Using combined bio-omics methods to evaluate the complicated toxic effects of mixed chemical wastewater and its treated effluent. **Journal of Hazardous Materials** 272: 52-58.

[16] Zhang Y., Zhang Z.Y., **Zhao Y.P.**, Cheng S.P.*, Ren H.Q.* (2013) Identifying health effects of exposure to trichloroacetamide using transcriptomics and metabonomics in mice (*Mus musculus*). **Environmental Science & Technology** 47: 2918-2924.

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