**侯静**，女，1986年11月，汉族，副教授，博士生导师，剑桥大学访问学者。2015年毕业于北京师范大学，获工学博士学位。主要从事环境毒理与健康风险方面的研究工作。以第一/通讯作者在Environmental Science & Technology等环境科学与工程领域期刊发表SCI论文40余篇（高被引论文4篇）；出版专著3部；授权专利3项；主持国家自然科学基金项目等15项。中国毒理学会环境与生态毒理学专业委员会委员，中国环境科学学会生态环境修复专业委员会委员，Toxics期刊客座编辑，CCTV-10《科学动物园》科普栏目主讲嘉宾。主讲本科生课程《环境生物学》《环境科学概论》和研究生课程《环境生物技术》。

主要科研项目：

国家自然科学基金面上项目：微塑料对典型疏水性有机污染物在斑马鱼体内毒性效应的影响机制（2023-2026），主持；

国家自然科学基金青年基金：纳米银对大型蚤的多世代毒性效应及其致毒机理研究（2016-2019），主持；

国家重点实验室开放基金：不同粒径微塑料对海洋青鳉的毒性效应研究（2021-2022），主持；

中央高校基本科研项目：核电站废水中核素对微生物的毒性作用机制研究（2019-2021），主持；

国家重点实验室开放基金：水质污染驱动潮白河浮游动物群落分布的机制研究（2017-2019），主持；

中央高校重点科研项目：雾霾与光化学烟雾演变特征成因（2016-2018），主持。

代表性研究成果：

Jing Hou, Haiqiang Liu, Luyao Wang, *et al*. Molecular Toxicity of Metal Oxide Nanoparticles in *Danio rerio*, ***Environmental Science & Technology***, 2018, 52(14): 7996-8004. (ESI高被引论文)

Jing Hou, Yue Zhou, Chunjie Wang, *et al*. Toxic Effects and Molecular Mechanism of Different Types of Silver Nanoparticles to the Aquatic Crustacean *Daphnia magna*, ***Environmental Science & Technology***, 2017, 51(21): 12868-12878.

Jing Hou, Xinhui Liu, Juan Wang, *et al*. Microarray-Based Analysis of Gene Expression in *Lycopersicon esculentum* Seedling Roots in Response to Cadmium, Chromium, Mercury, and Lead, ***Environmental Science & Technology***, 2015, 49(3): 1834-1841.

Yuqiong Sun, Yanli Xu, Haodi Wu, Jing Hou\*. A Critical Review on BDE-209: Source, Distribution, Influencing Factors, Toxicity, and Degradation. ***Environment International***, 2024, 183:108410.

Xinao Li, Yuanyuan Zhao, Qikun Pu, Wei He, Hao Yang, Jing Hou\*, Microplastics in Cultivated Soil Environment: Construction of Toxicity Grading Evaluation System, Development of Priority Control Checklist, and Toxicity Mechanism Analysis. ***Journal of Hazardous Materials***, 2023, 459: 132046.

Jing Hou, Lili Bai, Yujia Xie, *et al*. Biomarker Discovery and Gene Expression Responses in *Lycopersicon esculentum* Root Exposed to Lead, ***Journal of Hazardous Materials***, 2015, 299: 495-503.

Yanli Xu, Qi Zhou, Jian Luan, Jing Hou\*. Recoverability of zebrafish from decabromodiphenyl ether exposure: The persisted interference with extracellular matrix production and collagen synthesis and the enhancement of arrhythmias. ***Science of The Total Environment***, 2024, 954, 176349.

Yanli Xu, Yuqiong Sun, Ming Lei, Jing Hou\*. Phthalates contamination in sediments: A review of sources, influencing factors, benthic toxicity, and removal strategies. ***Environmental Pollution***, 2024, 344:123389.

Jing Hou, Xiangxue Wang, Tasawar Hayat, et al. Ecotoxicological Effects and Mechanism of CuO Nanoparticles to Individual Organisms, ***Environmental Pollution***, 2017, 221: 209-217

Haiqiang Liu, Xinxin Wang, Yazhou Wu, Jing Hou\*. Toxicity Responses of Different Organs of Zebrafish (*Danio rerio*) to Silver Nanoparticles with Different Particle Sizes and Surface Coatings, ***Environmental Pollution***, 2019, 246: 414-422. (ESI高被引论文)

Haodi Wu, Jing Hou\* *et al*. A review of microplastic pollution in aquaculture: Sources, effects, removal strategies and prospects. ***Ecotoxicology and Environmental Safety***, 2023, 252: 114567. (ESI高被引论文)

Jing Hou, Luyao Wang, Chunjie Wang, et al. Toxicity and Mechanisms of Action of Titanium Dioxide Nanoparticles in Living Organisms, ***Journal of Environmental Sciences***, 2018, 75: 40-53. (ESI高被引论文)

Jing Hou, Yazhou Wu, Xin Li, et al. Toxic Effects of Different Types of Zinc Oxide Nanoparticles on Algae, Plants, Invertebrates, Vertebrates and Microorganisms, ***Chemosphere***, 2017, 193: 852-860

Jing Hou, Haiqiang Liu, Siyi Zhang, et al. Mechanism of toxic effects of Nano-ZnO on cell cycle of zebrafish (*Danio rerio*),***Chemosphere***,2019, 229: 206-213

Ning Gao, Zhihui Huang, Haiqiang Liu, Jing Hou\* *et al*. [Advances on the toxicity of uranium to different organisms](https://www.sciencedirect.com/science/article/pii/S0045653519317722), ***Chemosphere***, 2019, 237: 124548.

主要研究方向：

环境毒理与健康风险、环境化学与生态污染、水污染控制及其风险评估。

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