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职称职务: 副教授、硕导

研究领域: 新型污染物的环境行为与人体健康效应研究

研究手段: (高分辨) 质谱分析, 环境和流行病学调查, 样品采集和前处理技术优化, 模型计算

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教育背景

2011.09—2016.06: 南开大学, 环境科学专业, 获理学博士学位

2010.09—2011.06: 瑞典隆德大学, 水资源管理专业, 硕士班交换生

2007.09—2011.06: 厦门大学, 环境科学专业, 获理学学士学位

科研教学经历

2021.01至今, 南开大学, 环境科学与工程学院, 副教授

2016.07—2020.12, 南开大学, 环境科学与工程学院, 讲师

2017.02—2017.05, 比利时安特卫普大学毒理学中心, 访问研究

2012.10—2012.11, 日本国立产业技术综合研究所, 培训生

在孙红文教授长江学者研究团队工作, 主讲本科生《环境安全》公共选修课和研究生《毒理化学》全英文课程, 是本科生课程《环境化学》(国家级精品课、精品资源共享课、慕课)的课程组成员, 参与讲授《环境与健康》慕课。指导本科生国创项目发表SCI论文1篇, 中文核心期刊1篇, 申请发明专利1项。指导本科生毕业论文发表SCI论文1篇。

2017年作为“风险评估与污染修复创新团队”成员入选天津市创新人才推进计划重点领域创新团队(16/16)

2016年作为“新兴污染物创新团队”成员入选天津市“131”创新型人才团队(10/10)

科研项目

1. 国家十三五重点研发计划项目子课题“典型场地土壤复合污染生态风险评估方法及适用性验证”, 2020-01至2023-12, 主持

2. 国家自然科学基金青年项目“油田区域新型全(多)氟化合物的识别、源汇机制及转化行为研究”, 2019-01至2021-12, 主持

3. 天津市自然科学基金青年项目“有机磷酸酯阻燃剂在土壤植物系统中的迁移和转化机理研究”, 2019-04至2022-03, 主持

4. 国家自然科学基金国际(地区)合作与交流项目“高风险区新型卤代有机污染物人群暴露特征与健康风险识别”, 2022-01-01至2024-12-31, 参与(PI: 祝凌燕; Adrian Covaci)

5. 国家自然科学基金重点项目“典型传统和新型全/多氟烷基化合物微生物厌氧还原技术与原理”, 2021-01-01至2025-12-31, 参与(PI: 孙红文)

6. 国家自然科学基金面上项目“石墨烯在沉积物-水界面迁移释放及其诱发底栖生物响应的机制研究”, 2018-01-01至2021-12-31, 参与(PI: 胡献刚)

7. 国家自然科学基金面上项目“短链(C2-C6)全氟羧酸及其共通前体物在大气-土壤-植物体系迁移转化”, 2016-01至2019-12, 参加(PI: 孙红文)

8. 高等学校博士学科点专项科研基金“氟调醇在大气中污染特征与异相光化学转化机制研究”, 2014-01至2016-12, 参加(PI: 孙红文)

学术论著

发表期刊论文69篇, SCI摘引期刊论文60篇, h-index 21。参加编写专著2部, 获得发明专利授权2项。

作为第一作者或通讯作者的SCI论文21篇:

1. **Yiming Yao**, Hongkai Zhu, Bing Li, Hongwei Hu, Tao Zhang, Eriko Yamazaki, Sachi Taniyasu, Nobuyoshi Yamashita, Hongwen Sun*. Distribution and primary source analysis of per- and poly-fluoroalkyl substances with different chain lengths in surface and groundwater in two cities, North China. *Ecotoxicology and Environmental Safety*, 2014, 108: 318-328.
2. **Yiming Yao**, Shuai Chang, Hongwen Sun*, Zhiwei Gan, Hongwei Hu, Yangyang Zhao, Yufen Zhang. Neutral and ionic per- and polyfluoroalkyl substances (PFASs) in atmospheric and dry deposition samples over a source region (Tianjin, China). *Environmental Pollution*, 2016, 212: 449-456.
3. **Yiming Yao**, Hongwen Sun*, Zhiwei Gan, Hongwei Hu, Yangyang Zhao, Shuai Chang, Qixing Zhou. Nationwide distribution of per- and polyfluoroalkyl substances in outdoor dust in mainland China From eastern to western areas. *Environmental Science & Technology*, 2016, 50: 3676-3685.
4. **Yiming Yao**#, Shuai Chang#, Yangyang Zhao, Jianhui Tang*, Hongwen Sun*, Zhiyong Xie. Per- and poly-fluoroalkyl substances (PFASs) in the urban, industrial, and background atmosphere of Northeastern China coast around the Bohai Sea: Occurrence, partitioning, and seasonal variation. *Atmospheric Environment*, 2017, 167: 150-158.
5. **Yiming Yao**#, Yangyang Zhao#, Hongwen Sun*, Shuai Chang, Lingyan Zhu, Alfredo C. Alder, and Kurunthachalam Kannan. Per- and Polyfluoroalkyl Substances (PFASs) in Indoor Air and Dust from Homes and Various Microenvironments in China: Implications for Human Exposure. *Environmental Science & Technology*, 2018, 52: 3156-3166.
6. Hao Chen, Lu Zhang, Mengqi Li, **Yiming Yao***, Zhen Zhao, Gabriel Munoz, Hongwen Sun*. Per- and polyfluoroalkyl substances (PFASs) in precipitation from mainland China: Contributions of unknown precursors and short-chain (C2-C3) perfluoroalkyl carboxylic acids. *Water Research*, 2019, 153: 169-177.
7. Yan Ji, Yu Wang, **Yiming Yao***, Chao Ren, Zhonghui Lan, Xiangguang Fang, Kai Zhang, Weijie Sun, Alfredo C. Alder, Hongwen Sun. Occurrence of organophosphate flame retardants in farmland soils from Northern China: Primary source analysis and risk assessment. *Environmental Pollution*, 2019, 24: 832-838.
8. Mengqi Li, **Yiming Yao***, Yu Wang, Michiel Bastiaensen, Adrian Covaci, Hongwen Sun. Organophosphate ester flame retardants and plasticizers in a Chinese population: Significance of hydroxylated metabolites and implication for human exposure. *Environmental Pollution*, 2020, 257, 11363.
9. Bin Wang, **Yiming Yao***, Hao Chen, Shuai Chang, Ying Tian, Hongwen Sun. Per- and polyfluoroalkyl substances and the contribution of unknown precursors and short-chain (C2-C3) perfluoroalkyl carboxylic acids at solid waste disposal facilities. *Science of the Total Environment*, 2020, 705, 135823.
10. Zhonghui Lan, **Yiming Yao***, JiaYao Xu, Hao Chen, Chao Ren, Xiangguang Fang, Kai Zhang, Litao Jin, Xia Hua, Alfredo C. Alder, Fengchang Wu, Hongwen Sun. Novel and legacy per- and polyfluoroalkyl substances (PFASs) in a farmland environment: Soil distribution and biomonitoring with plant leaves and locusts. *Environmental Pollution*, 2020, 263, 114487.
11. Bin Wang, Xiaolei Qin, Nan Xiao, **Yiming Yao***, Yishuang Duan, Xianfeng Cui, Shuai Zhang, Haining Luo, Hongwen Sun. Phthalate exposure and semen quality in infertile male population from Tianjin, China: Associations and potential mediation by reproductive hormones. *Science of the Total Environment*, 2020, 140673.
12. **Yiming Yao**, Mengqi Li, Liyang Pan*, Yishuang Duan, Xiaoyu Duan, Yongcheng Li, Hongwen Sun*. Exposure to organophosphate ester flame retardants and plasticizers during pregnancy: Thyroid endocrine disruption and mediation role of oxidative stress. *Environment International*, 2020, 146, 106215
13. Yan Ji, **Yiming Yao***, Yishuang Duan, Hongzhi Zhao, Yanjun Hong, Zongwei Cai, Hongwen Sun. Association between urinary organophosphate flame retardant diesters and steroid hormones: A metabolomic study on type 2 diabetes mellitus cases and controls. *Science of the Total Environment*, 2020, 143836.
14. Yongyue Wang#, Xiaomeng Yang#, Yuzhe Liu, Qing Zhang, Hongyan Xiao, Yu Wang, **Yiming Yao***, Hongwen Sun. A low-volume air sampling method for legacy and novel brominated flame retardants in indoor environment using a newly developed sorbent mixture. *Ecotoxicology and Environmental Safety*, 2021, 210, 111837.
15. Yue Meng, **Yiming Yao***, Hao Chen, Qi Li, Hongwen Sun. Legacy and emerging per- and polyfluoroalkyl Substances (PFASs) in Dagang Oilfield: Multimedia distribution and contributions of unknown precursors. *Journal of Hazardous Materials*, 2021, 125177.
16. Lu Zhang, Qi Wang, Hao Chen, **Yiming Yao***, Hongwen Sun. Uptake and translocation of perfluoroalkyl acids with different carbon chain lengths (C2-C8) in wheat (*Triticum aestivum* L.) under the effect of copper exposure. *Environmental Pollution*, 2021, 274, 116550.
17. Dandan Li, **Yiming Yao***, Hongwen Sun*. Emission and Mass Load of Artificial Sweeteners from a Pig Farm to Its Surrounding Environment: Contribution of Airborne Pathway and Biomonitoring Potential. *Environmental Science & Technology*, 2021, 55 (4): 2307-2315.
18. Bin Wang, **Yiming Yao***, Yu Wang, Hao Chen, Hongwen Sun*. Per- and Polyfluoroalkyl Substances in Outdoor and Indoor Dust from Mainland China: Contributions of Unknown Precursors and Implications for Human Exposure. *Environmental Science & Technology*, 2021, available online.
19. **Yiming Yao**, Yue Meng, Hongwen Sun*. Heterogeneous photooxidation of 6:2 polyfluoroalkyl phosphoric acid diester on dust mineral components under simulated sunlight and the influence of relative humidity and oxygen. *Chemosphere*, 2021, 130713.
20. Qing Zhang, **Yiming Yao***, Yu Wang, Qiuyue Zhang, Zhipeng Cheng, Yongcheng Li, Xiaomeng Yang, Lei Wang, Hongwen Sun. Plant accumulation and transformation of brominated and organophosphate flame retardants: A review. *Environmental Pollution*, 2021, 288: 117742.
21. **Yiming Yao**, Zhonghui Lan, Hongkai Zhu, Jiayao Xu, Hongwen Sun*. Foliar uptake overweighs root uptake for 8:2 fluorotelomer alcohol in ryegrass (*Lolium Perenne* L.): A closed exposure chamber study. *Science of the Total Environment*, 2022, 829, 154660.

作为第一作者或通讯作者的中文论文2篇:

1. 姚义鸣, 赵洋洋, 孙红文*. 天津市大气中全氟化合物挥发性前体物的分布和季节变化. *环境化学*, 2016, 07期
2. 王永越, 杨晓萌, 刘昱喆, 张清, 肖鸿雁, 姚义鸣*, 孙红文. 室内环境中传统与新型溴代阻燃剂的采样方法研究进展. *环境化学*, 2020, 39卷, 11期.
3. 李程, 姚义鸣*, 李逍逍, 成杰民, 孙红文. 多环芳烃和镉土壤复合暴露条件下黑麦草的氧化应激指标变化. *农业环境科学学报*, 2022, 录用.

专著:

1. 参编《生物炭与环境》第四章, 孙红文*, 化学工业出版社, 2013年9月1日.
2. 参编《有机磷酸酯的暴露、毒性机制及环境风险评估》第四章、第六章和第十三章, 许宜平*, 王子健*, 科学出版社, 2019年11月1日.

专利:

1. 孙红文, 赵洋洋, 姚义鸣. 一种室内空气全(多)氟烷基化合物的采样器及其使用方法, ZL201610464093.2, 2020年12月18日
2. 姚义鸣, 王永越, 杨晓萌, 张清, 刘昱喆, 肖鸿雁, 孙红文. 一种室内空气中溴代阻燃剂的采样器及其采样和测定方法, ZL202010759313.0, 2021年05月07

