



师资队伍

环境科学系

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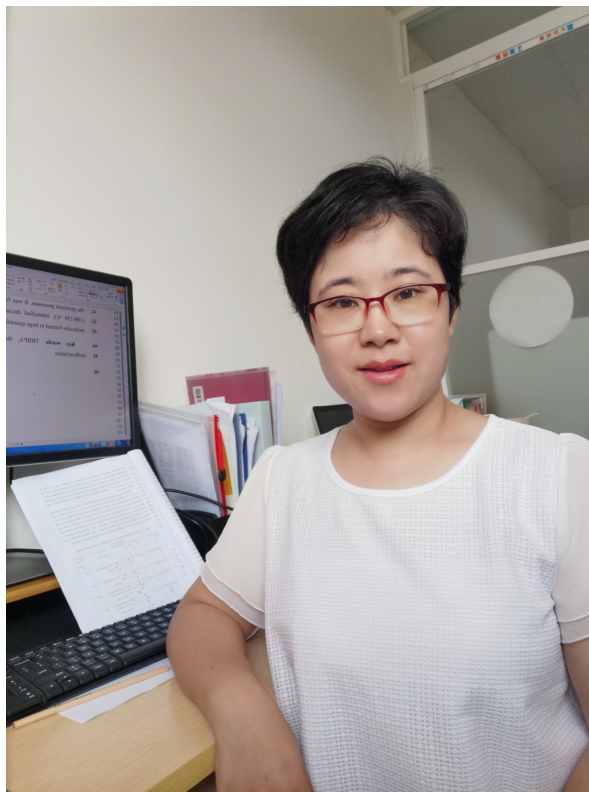
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刘爱风

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刘爱风，女，博士，副教授（硕导），2020年入职青岛大学环境科学与工程学院。

电子邮箱：liuairfeng2007@163.com

教育经历：

2011/09-2016/07，中科院生态环境研究中心，环境科学，博士

2007/09-2010/07，山东大学药学院，药物化学，硕士

2002/09-2007/07，山东大学化学与化工学院，化学(理)与化工(工)双学位 本科

科研与学术工作经历：

2020/06-至今 青岛大学环境科学与工程学院，副教授

2018/12-2020/06 中科院青岛生物能源与过程研究所，副研究员

2018/10-2018/12 中科院青岛生物能源与过程研究所，助理研究员

2016/07-2018/10 中科院青岛生物能源与过程研究所，博士后

#### 研究方向：

主要从事环境领域相关的分析和检测技术开发，环境介质中新型污染物的分析方法开发，以及环境中持久性有机污染物(POPs)的迁移转化研究。

#### 科研概况：

目前已发表科研论文六十余篇，其中第一/通讯作者SCI论文17篇，其中在环境科学领域一区期刊Environmental Science & Technology, Environmental Pollution, TrAC-Trends in Analytical Chemistry, Food Chemistry等期刊发表6篇学术论文。主持包括国家自然科学基金青年项目和博士后特别资助项目等7项。

#### 获奖情况：

2017年中国分析测试协会科学技术奖(CAIA奖)特等奖，排名6/8

#### 主持项目：

1. 国家自然科学基金青年项目-环境中四溴双酚A/S副产物及降解产物的非靶向识别与鉴定(21407148)，25万(直接经费)，2018-2020
2. 中科院青岛能源所优秀博士后基金-化工制品和环境样品中溴代双酚A类化合物的分析方法研究，20万，2018-2019
3. 中国博士后科学基金特别资助项目-环境中新型溴代双酚A类污染物的分析方法研究(2018T110719)，15万，2018
4. 中国博士后科学基金-环境中未知溴代双酚A类污染物的非靶向识别与直接纯化(2016M602210)，5万，2016-2018
5. 农业部重点实验室开放课题-农田土壤和农作物中TBBPA环境行为的研究，7万，2018-2019
6. 青岛市博士后应用研究项目资助-新型溴代双酚A类污染物的分析方法研究，5万，2017-2018
7. 环境化学与生态毒理学国家重点实验室开放基金(KF2016-12)，5万，2017-2018

#### 第一作者/通讯作者论文：

1. Liu, A., Shi, J., Shen, Z., et al. Identification of Unknown Brominated Bisphenol S Congeners in Contaminated Soils as the Transformation Products of Tetrabromobisphenol S Derivatives. *Environmental Science & Technology*, 2018, 52, 10480-10489.
2. Liu A., Shi J., Qu G., et al. Identification of Emerging Brominated Chemicals as the Transformation Products of Tetrabromobisphenol A (TBBPA) Derivatives in Soil. *Environmental Science & Technology*, 2017, 51, 5434 - 5444.
3. Liu A., Qu G., Yu M., et al. Tetrabromobisphenol-A/S and Nine Novel Analogs in Biological Samples from the Chinese Bohai Sea: Implications for Trophic Transfer. *Environmental Science & Technology*, 2016, 50, 4203-4211.
4. Liu, A., Zhao, Z., Qu, G., et al. Identification of transformation/degradation products of tetrabromobisphenol A and its derivatives. *TrAC-trends in Analytical Chemistry*, 2019, 111, 85-89.
5. Liu, A., Jia, J., Lan, J., et al. Distribution, composition, and ecological risk of surface sedimental polychlorinated naphthalenes in the East China Sea. *Marine Pollution Bulletin*, 2018, 135, 90-94.
6. Liu, A., Wang, Y., Xian, M., et al. Characterization of polychlorinated biphenyl congeners in surface sediments of the Changjiang Estuary and adjacent shelf by high-resolution sampling and high-resolution mass spectrometry. *Marine Pollution Bulletin*, 2017, 124, 496-501.
7. Lan, J., Shen, Z., Gao, W., Liu, A\*. Occurrence of bisphenol-A and its brominated derivatives in tributary and estuary of Xiaoqing River adjacent to Bohai Sea, China. *Marine Pollution Bulletin*, 2019, 149: 110551.
8. Zhang, Y., Zheng, M., Zheng, L., Liu, A\*, et al. Polyhalogenated carbazoles in sediments from intertidal zone of the New River Estuary, China: Distribution, inventory and ecological risks. *Marine Pollution Bulletin*, 2019:110632.

9. Liu, A., Zhao, Z., Qu, G., et al. Transformation/degradation of tetrabromobisphenol A and its derivatives: A review of the metabolism and metabolites. *Environmental Pollution*, 2018,243, 1141-1153.
10. Liu, A., Shen, Z., Tian, Y., et al. Thin-layer chromatography coupled with high performance liquid chromatography for determining tetrabromobisphenol A/S and their derivatives in soils. *Journal of Chromatography A*, 2017, 1526, 151-156.
11. Liu, A., Liang, J., Shi, R., et al. Ultrasensitive sensor based on nano-Cu/polyaniline/nickel foam for monitoring H2O2 in exhaled breath. *Journal of Breath Research*, 2018, 12: 036001.
12. Liu, A., Shen, Z., et al. High-performance thin-layer chromatography coupled with HPLC-DAD/HPLC-MS/MS for simultaneous determination of bisphenol A and nine brominated analogs in biological samples. *Analytical and Bioanalytical Chemistry*, 2019, 411, 725-734.
13. Liu, A., Tian, Y., Yin N., et al. Characterization of three tetrabromobisphenol-S derivatives in mollusks from chinese Bohai Sea: A strategy for novel brominated contaminants identification. *Scientific Reports*, 2015,5: 11741.
14. Liu, A., Qu, G., Zhang C., et al. Identification of two novel brominated contaminants in water samples by ultra-high performance liquid chromatography-Orbitrap Fusion Tribrid mass spectrometer. *Journal of Chromatography A*, 2015, 1377, 92-99.
15. Liu, A., Zhou, H., Su G., et al. Microwave-Assisted Fluorous Synthesis of a 1,4-Benzodiazepine-2,5-dione Library. *Journal of Combinatorial Chemistry*, 2009, 11, 1083 - 1093.
16. Zhao, Z., H. Liu, W. Gao, Y. Tian, Y. Fa, G.\* Li, A. Liu,\* Y. Cai, X. Chen and Z. Wang. Screening of brominated pyrolysis products of tetrabromobisphenol a by integrating controllable heating device with ambient mass spectrometry. *Journal of Analytical and Applied Pyrolysis*, 2020, 150: 104896.

17. Xu, H., M. Zheng, L. Wang, W. Zhao, Y. Hua, L. Fang, A. Liu\* and Z. Zhao. High throughput extraction strategy for simultaneous analysis of 19 tetrabromobisphenol A and halogenated carbazole analogs in seafood. Food Chemistry, 2021, 350: 129214.

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