理工实验平台人员介绍

理工实验平台 文武

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简介

文武博士，主要从事持久性有机污染物环境行为、全球变化对水土环境质量影响等方向的研究。目前，已在 Nature Geoscience、Environmental Science & Technology、Environmental Pollution 等期刊发表学术论文 16 篇；参编专著 1 部；研制国家二级标准物质 1 项；参与起草水利部水利行业有机污染物测定标准 3 项；获得博士研究生国家奖学金 1 次。。

最高学历

2014.09~2020.01，北京师范大学大学环境学院，博士;

近期科研成果

项目经历

1. 2021-2023 年，主持国家基金委青年项目“长链全氟烷基酸及其替代品在浅型湖泊水生食物网的分馏效应及机制研究”（24 万）;
2. 2017-2022 年，参与国家重点研发计划项目“全球变化对区域水土资源与环境质量的影响研究”（692 万）;
3. 2016-2019 年，参与国家自然科学基金重点项目“黄河长江源区河水含氮化合物的来源及水-沙界面过程”（422 万）;
4. 2014-2017 年，参与国家杰出青年科学基金项目“多泥沙河流的水环境过程和效应”（200 万）;
5. 2013-2016 年，参与国家自然科学基金项目“水体不同形态和组成有机质对典型全氟化合物生物富集作用的影响”（79 万）。

发表论文,专利及著作

1. **Wen, W.**; Xia, X. H.*; Hu, D. X.; Zhou, D.; Wang, H. T.; Zhai, Y. W.; Lin, H., Long-chain perfluoroalkyl acids (pfaas) affect the bioconcentration and tissue distribution of short-chain PFASs in zebrafish (*Danio rerio*). ***Environmental Science & Technology*** 2017, 51, (21), 12358-12368. DOI: 10.1021/acs.est.7b03647.
2. **Wen, W.**; Xia, X. H.*; Zhou, D.; Wang, H. T.; Zhai, Y. W.; Lin, H.; Chen, J.; Hu, D. X., Bioconcentration and tissue distribution of shorter and longer chain perfluoroalkyl acids (PFAAs) in zebrafish (Danio rerio): Effects of perfluorinated carbon chain length and

zebrafish protein content. ***Environmental Pollution*** 2019, 249, 277-285. DOI: 10.1016/j.envpol.2019.03.003.

3. **Wen, W.**; Xia, X.*; Chen, X.; Wang, H.; Zhu, B.; Li, H.; Li, Y., Bioconcentration of perfluoroalkyl substances by Chironomus plumosus larvae in water with different types of dissolved organic matters. ***Environmental Pollution*** 2016, 213, 299-307. DOI: 10.1016/j.envpol.2016.02.018.
4. Zhang, L.; Xia, X.*; Liu, S.; Zhang, S.; Li, S.; Wang, J.; Wang, G.; Gao, H.; Zhang, Z.; Wang, Q.; **Wen, W.**; Liu, R.; Yang, Z.; Stanley, E. H.; Raymond, P. A., Significant methane ebullition from alpine permafrost rivers on the East Qinghai–Tibet Plateau. ***Nature Geoscience*** 13, 349-354. DOI: 10.1038/s41561-020-0571-8.
5. **文武**; 夏星辉*; 陈曦; 翟亚威; 林慧, 碳质材料和溶解性有机质对沉积物中全氟化合物在摇蚊幼虫体内富集的影响. ***生态毒理学报*** 2016, 11, (2), 283-291.
6. **文武**; 曾敏*; 罗岳平; 毕军平; 周航; 廖柏寒, 含铁材料和稀土材料对矿区土壤 As 的固定效果. ***水土保持学报*** 2011, 025, (5), 200-202,208.
7. 姜晓满*; **文武**; 俞盈, 结合高分辨质谱法、荧光光谱法及分子对接研究全氟化合物与白蛋白的相互作用. ***环境化学*** 2020, (6): 1634-1641. DOI: 10.7524/j.issn.0254-6108.2019041102
8. Wang, H. T.; Xia, X. H.*; Liu, R.; Wang, Z. X.; Zhai, Y. W.; Lin, H.; **Wen, W.**; Li, Y.; Wang, D. H.; Yang, Z. F.; Muir, D. C. G.; Crittenden, J. C., Dietary uptake patterns affect bioaccumulation and biomagnification of hydrophobic organic compounds in fish. ***Environmental Science & Technology*** 2019, 53, (8), 4274-4284. DOI: 10.1021/acs.est.9b00106.
9. Chen, J.; Xia, X.*; Wang, H.; Zhai, Y.; Xi, N.; Lin, H.; **Wen, W.**, Uptake pathway and accumulation of polycyclic aromatic hydrocarbons in spinach affected by warming in enclosed soil/water-air-plant microcosms. ***Journal of Hazardous Materials*** 2019, 379, 120831. DOI：10.1016/j.jhazmat.2019.120831.
10. Lin, H.; Xia, X.*; Jiang, X.; Bi, S.; Wang, H.; Zhai, Y.; **Wen, W.**; Guo, X., Bioavailability of pyrene associated with different types of protein compounds: Direct evidence for its uptake by Daphnia magna. Environmental Science & Technology 2018, 52, (17), 9851-9860. DOI：10.1021/acs.est.8b03349.
11. Lin, H.; Xia, X. H.*; Bi, S. Q.; Jiang, X. M.; Wang, H. T.; Zhai, Y. W.; **Wen, W.**, Quantifying bioavailability of pyrene associated with dissolved organic matter of various molecular weights to *Daphnia magna*. ***Environmental Science & Technology*** 2018, 52, (2), 644-653. DOI: 10.1021/acs.est.7b05520.
12. Li, Y.; Wang, H.; Xia, X.*; Zhai, Y.; Lin, H.; **Wen, W.**; Wang, Z., Dissolved organic matter affects both bioconcentration kinetics and steady-state concentrations of polycyclic aromatic hydrocarbons in zebrafish *(Danio rerio*). ***Science of the Total Environment*** 2018, 639, 648-656. DOI：10.1016/j.scitotenv.2018.05.067.

13. Ding, X. *; Liu, J.; **Wen, W.**, Brominated flame retardants in edible fishes from Three Gorges Reservoir, China. ***Tecnología y ciencias del agua*** 2019, 10, (4), 46-65. DOI: 10.24850/j-tyca-2019-04-03.
14. Yu, L. Q.; Zhao, G. F.; Feng, M.; Wen, W.; Li, K.; Zhang, P. W.; Peng, X.; Huo, W. J.; Zhou, H. D., Chronic exposure to pentachlorophenol alters thyroid hormones and thyroid hormone pathway mRNAs in zebrafish. ***Environmental Toxicology and Chemistry*** 2014, 33, (1), 170-176. DOI: 10.1002/etc.2408.
15. Zhao, G.; Li, K.; Zhou, H.; Liu, X.; Zhang, P.; Wen, W.; Yu, Y.; Yuan, H., Polyhalogenated aromatic hydrocarbons in surface sediments from Three Gorges Reservoir. ***Journal of Environmental Science and Health, Part A*** 2013, 48, (2), 136-144. DOI: 10.1080/03601234.2012.716737.
16. Zhao, G.; Zhou, H.; Liu, X.; Li, K.; Zhang, P.; Wen, W.; Yu, Y., PHAHs in 14 principal river sediments from Hai River basin, China. ***Science of the Total Environment*** 2012, 427, 139-145. DOI：10.1016/j.scitotenv.2012.04.001.

仪器管理

主要负责色谱和质谱类仪器运行维护和管理及其相关分析方法的开发。