

段艳平简历

教育经历:

2008/9-2011/9, 同济大学, 环境科学与工程学院, 博士

2009/9-2010/9, 柏林工业大学, 环境过程工程系, 联合培养博士

2005/9-2008/6, 郑州大学, 环境与水利学院, 硕士

2001/9-2005/6, 河南工业大学, 化学化工学院, 学士

工作经历:

2015/12-至今, 上海师范大学环境与地理科学学院, 副研究员。

2014/6-2015/6, 上海市水产研究所, 渔业检验监测中心, 助理研究员。

2011/12-2014/5, 同济大学土木工程博士后流动站, 博士后;

研究方向:

新兴污染物(药物与个人护理品 PPCPs)及持久性有机污染物(POPs)的迁移转化、风险评估及污染控制理论与技术研究。

主持科研项目:

1. 国家自然科学基金, 城市湖泊沉积物中典型PhACs的迁移转化机制及风险评估(41601514), 2017/01-2019/12。
2. 上海高校青年教师培养资助计划, 湖泊沉积物中药物与个人护理品的迁移机制研究, 2017/01-2018/12。
3. 上海师范大学理工科校级科研项目, 城市河流中典型 PPCPs 的迁移特征及归趋研究(SK201615), 2016/1-2017/12。
4. 上海市自然科学基金, 渔业环境中典型PPCPs的分布特征、迁移转化及生物累积效应(15ZR1437800)、2015/01-2017/12。
5. 上海市农委青年人才成长计划项目, 养殖鱼塘底泥中典型PPCPs的赋存特征及风险评估研究, 2015/01-2016/12。
6. 中国博士后基金, 长江水体中典型PPCPs的对映体特征及迁移转化机制(2013M531217), 中国博士后基金, 2012/01-2014/06。
7. 上海市博士后基金, 电子垃圾回收处理中BFRs的释放机制(13R21416000), 2012/01-2014/06。

参与科研项目:

1. 国家自然科学基金面上项目, 羰基化生物炭@MIP 活化过氧乙酸靶向修复地下水中的典型 PhACs 污染的机理研究(42077175), 2021/01-2024/12。

2. 科技部国家重点研发计划、长三角城市群生态安全保障关键技术与集成示范 (2016YFC0502706)、2016/09-2020/8。
3. 国家社会科学基金重大项目、长江经济带发展中的生态安全与环境健康风险管理及防控体系研究 (17ZDA058)、2017年09月至2022年12月。
4. 上海市自然科学基金, 黄浦江沉积物重金属的多元同位素源解析研究 (17ZR1420700), 2017/04-2020/03。 .
5. 上海师范大学理工科校级科研项目, 高效能稀土元素吸附剂的制备与技术开发(SK201614), 2016/1-2017/12。
6. 国家自然科学基金, 海滩地下水中重金属污染物在近岸水动力作用下的迁移机理研究(41372240), 2014/01-2017/12。
7. 国家自然科学基金, 加油站油污土的工程性质及其机理 (41202192)、2013/01-2015/12。
8. 十二五国家科技支撑计划项目, 村镇环境监测适宜关键技术研究 (2012BAJ24B01), 2011/01-2015/12。
9. 国家自然科学基金, 典型溴代阻燃剂在废水处理中的迁移转化及对映体选择性 (40901251), 2010/01-2012/12。

代表性论文 (*通讯作者):

1. ZB Zhang, **YP Duan***, ZJ Zhang, PC Luo, YJ Tu, J Gao, CM Dai, L Zhou. Multimedia fate model and risk assessment of typical antibiotics in the integrated demonstration zone of the Yangtze River Delta, China. *Science of the Total Environment*, 2021, 10.1016/j.scitotenv.2021.150258.
2. CM Dai, H Shen, **YP Duan***, XJ You, XY Lai, SG Liu, YL Zhang, KH Leong, K Baek, YJ Tu, L Zhou, D Xu. Transport of TiO₂ and CeO₂ nanoparticles in saturated porous media in the presence of surfactants with environmentally relevant concentrations. *Environmental Science and Pollution Research*, 2021, 10.1007/s11356-021-16266-3.
3. CM Dai, S Li, **YP Duan***, KH Leong, YJ Tu, L Zhou. Human health risk assessment of selected pharmaceuticals in the five major river basins, China. *Science of the Total Environment*, 2021, 801, 149730
4. XJ You, SG Liu, CM Dai*, GH Zhong, **YP Duan***, YP Guo, Y Tu, KH Leong, F Zhou. Effects of EDTA on adsorption of Cd(II) and Pb(II) by soil minerals in

- low-permeability layers: batch experiments and microscopic characterization. *Environmental Science and Pollution Research*, 2020, 27(33), 41623-41638.
5. XJ You, SG Liu, CM Dai*, YP Guo, GH Zhong, **YP Duan***. Contaminant occurrence and migration between high- and low-permeability zones in groundwater systems: A review. *Science of the Total Environment*, 2020, 743: 140703.
 6. YR Zheng, SG Liu, CM Dai*, **YP Duan***, AN Makhinov, LK Hon; JTA Júnior. Study on the influence mechanism of underground mineral element Fe(II) on Cr(VI) transformation under subsurface and groundwater interaction zones, *Environmental Sciences Europe*, 2020, 32: 62.
 7. SS Cao, **YP Duan***, YJTU, Y Tang, J Liu, WD Zhi, CM Dai*. Pharmaceuticals and personal care products in a drinking water resource of Yangtze River Delta Ecology and Greenery Integration Development Demonstration Zone in China: occurrence and human health risk assessment. *Science of the Total Environment*, 2020, 721: 137624.
 8. CM Dai, H Zhou, XJ You, **YP Duan***, Y Tu, SG Liu, F Zhou, LK Hon. Silica colloids as non-carriers facilitate Pb²⁺ transport in saturated porous media under a weak adsorption condition: effects of Pb²⁺ concentrations, *Environmental Science and Pollution Research*, 2020, 27 (13): 15188-15197.
 9. XJ You, SG Liu, CM Dai*, GH Zhong, **YP Duan***, Y Tu. Acceleration and centralization of a back-diffusion process: Effects of EDTA-2Na on cadmium migration in high- and low-permeability systems. *The Science of the total environment*, 2020, 706: 135708.
 10. CM Dai , H Shen, **YP Duan***, SG Liu, F Zhou, DL Wu, GH Zhong, A Javadi, Y Tu. TiO₂ and SiO₂ Nanoparticles Combined with Surfactants Mitigate the Toxicity of Cd²⁺ to Wheat Seedlings. *Water Air and Soil Pollution*, 2019, 230:232.
 11. Yue Li, Ling Chen, Duong Minh Ngoc, **Yan-Ping Duan***, Zhi-Bo Lu, Zhi-Hao Wen, Xiang-Zhou Meng. Polybrominated diphenyl ethers (PBDEs) in PM_{2.5}, PM₁₀, TSP and gas phase in office environment in Shanghai, China: occurrence and human exposure. *PLoS One*, 10 (3) :e0119144 ,2015.

12. Yue Li, **Yan-Ping Duan***, Fan Huang, Jing Yang, Nan Xiang, Xiang-Zhou Meng, Ling Chen. Polybrominated diphenyl ethers in e-waste: level and transfer in a typical e-waste recycling site in Shanghai, Eastern China. *Waste management*. 34(6):1059-1065, 2014.
13. **Yan-Ping Duan**, Chao-meng Dai, Ya-Lei Zhang, Ling Chen. Selective trace enrichment of acidic pharmaceuticals in real water and sediment samples based on solid-phase extraction using multi-templates molecularly imprinted polymers, *Analytica Chimica Acta*, 758:93-100, 2013.
14. **Yan-Ping Duan**, Xiang-Zhou Meng, Zhi-Hao Wen, Run-Hui Ke, Ling Chen. Multi-phase partitioning, ecological risk and fate of acidic pharmaceuticals in a wastewater receiving river: the role of colloids. *Science of the Total Environment*. 447:267-273, 2013.
15. **Yan-Ping Duan**, Xiang-Zhou Meng, Zhi-Hao Wen, Ling Chen. Acidic pharmaceuticals in domestic wastewater and receiving water from hyper-urbanization city of China (Shanghai): environmental release and ecological risk. *Environmental Science and Pollution Research*. 20(1):108-116, 2013.
16. **Yan-Ping Duan**, Xiang-Zhou Meng, Chao Yang, Zhao-Yu Pan, Ling Chen, Ran-Yu, Feng-ting Li. Polybrominated diphenyl ethers in background surface soils from the Yangtze River Delta (YRD), China: occurrence, sources, and inventory. *Environmental Science and Pollution Research*, 17:948-956, 2010.
17. Xiang-Zhou Meng, **Yan-Ping Duan**, Chao Yang, Zhao-Yu Pan, Zhi-Hao Wen and Ling Chen. Occurrence, Sources, and Inventory of Hexabromocyclododecanes in Soils from Chongming Island, the Yangtze River Delta (YRD). *Chemosphere*, 82:725-731, 2011.
18. **Yan-Ping Duan**, Sven-Geissen, Ling Chen. Influence parameters in the ozonation of clofibric acid using a cascade bubble column. *Advanced Materials Research*, 573-574:538-541, 2012.
19. **Yan-Ping Duan**, Zhi-hao Wen, Xiang-zhou Meng, Ling Chen. Occurrence and removal of selected pharmaceuticals in a wastewater treatment plant. *Advanced Materials Research*, 573-574:534-537, 2012.

20. Jing Yang, Xiang-Zhou Meng, **Yan-Ping Duan**, Li-Zao Liu, Ling Chen, He-Fa Cheng. Spatial distributions and sources of heavy metals in sediment from public park in Shanghai, the Yangtze River Delta. *Applied Geochemistry*. 44:54–60,2014.
21. Xiang-Zhou Meng, Nan Xiang, **Yan-Ping Duan**, Ling Chen, Eddy Y. Zeng. Hexabromocyclododecane (HBCD) in consumer fish from South China: implications for human exposure via dietary exposure. *Environmental Toxicology and Chemistry*, 31:1424-1430,2012.
22. Yue Li, Ling Chen, Zhi-Hao Wen, **Yan-Ping Duan**, Zhi-Bo Lu, Xiang-Zhou Meng, Wen Zhang. Characterizing distribution, sources, and potential health risk of polybrominated diphenyl ethers (PBDEs) in office environment. *Environmental Pollution*. 198:25-31, 2015.
23. Zhi-Hao Wen, Ling Chen, Xiang-Zhou Meng, **Yan-Ping Duan**, Zeng-Sheng Zhang, Eddy Y. Zeng. Occurrence and human health risk of wastewater-derived pharmaceuticals in a drinking water source for Shanghai, East China. *Science of the Total Environment*. 490:987-993,2014.
24. Yao-Jen Tu, Chen-Feng You, Mei-Hsuan Chen, **Yan-Ping Duan**. Efficient removal/recovery of Pb onto environmentally friendly fabricated copper ferrite nanoparticles, *Journal of the Taiwan Institute of Chemical Engineers*, 71: 197–205, 2017.
25. Duong Minh Ngoc, Yue Li, **Yan-Ping Duan**, Ling Chen. Transfer of PBDEs from TV housing plastics to aqueous media. *Advanced Materials Research*, 864-867:1997-2000,2014.
26. Chao-Meng Dai, Juan Zhang, Ya-Lei Zhang, Xue-Fei Zhou, **Yan-Ping Duan**, Shu-Guang Liu. Selective removal of acidic pharmaceuticals from contaminated lake water using multi-templates molecularly imprinted polymer. *Chemical Engineering Journal*, 211-212:302-309, 2012.
27. Chao-Meng Dai, Juan Zhang, Ya-Lei Zhang, Xue-Fei Zhou, **Yan-Ping Duan**, Shu-Guang Liu. Removal of carbamazepine and clofibric acid from water using double templates-molecularly imprinted polymers. *Environmental Science and Pollution Research*, 20:5492-5501, 2013.

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29. 张智博, **段艳平***, 沈嘉豪, 俞文韬, 罗鹏程, 涂耀仁, 高峻.长三角一体化示范区青浦区水环境中22种PPCPs的多介质分布特征及风险评估, *环境科学*. 2021,10.13227/j.hjkk.202105121
30. 唐钰, **段艳平***, 涂耀仁, 智伟迪, 刘靳, 张浩, 张智博, 罗鹏程, 林彤. 重金属对药物和个人护理品在土壤/沉积物中吸附的影响机制: 现状与展望, *环境化学*, 2021, 40 (1) : 164-173.
31. 曹双双, **段艳平***, 涂耀仁, 蒲雅丽. 铁氧磁体纳米颗粒去除水体中新型污染物双氯芬酸的研究. *环境化学*, 2018, 37 (4) : 761-767.
32. 蒲亚丽, 涂耀仁, 游镇峰, **段艳平**, 曹双双, Pb-Zn 同位素在沉积物重金属污染源解析方面的应用:综述与展望, *环境化学*,36 (3): 581-590. 2017.
33. 温智皓, **段艳平**, 孟祥周, 陈玲. 城市污水处理厂及其受纳水体中 5 种典型 PPCPs 的赋存特征和生态风险.*环境科学*, 34(3):927-93,2013.
34. 张吉营, 孟祥周, **段艳平**, 陈玲. Tenax 提取法表征有机污染物生物有效性的研究进展.*安徽农业科学*, 20:10573-10576, 2012.
35. 代朝猛, 周雪飞, 张亚雷, **段艳平**. 环境介质中药物和个人护理品的潜在风险研究进展. *环境污染与防治*, 31(2):77-80, 2009.
36. **段艳平**, 代朝猛, 曾科, 李亚萍.含脂类废水处理研究进展.*工业水处理*, 28(2):16-19, 2008.

申请专利:

1. **段艳平**, 涂耀仁, 曹双双, 蒲雅丽. 一种铁氧磁体纳米颗粒去除水中双氯芬酸的方法. 授权号: 201710901192.7
2. 涂耀仁, 罗鹏程, 孙婷婷, **段艳平**, 张智博, 林彤, 钱紫嫣.一种高效除铊用磁性纳米矿石复合材料及其制备方法和应用, 中国发明专利, 申请号: 202110131043.3.
3. 涂耀仁, 张浩, **段艳平**, 刘靳, 智伟迪, 唐钰, 一种污泥/落叶生物炭的资源化及高效去除双氯芬酸的方法, 中国发明专利, 申请号: 201910595066.2.
4. **段艳平**, 陈玲, 温智皓, 孟祥周, 张吉营, 赵梦.一种水中痕量非甾体抗炎药的检测方法, CN201210484173.6。
5. 陈玲, 周磊, 梁钰, 邬言, **段艳平**, 孟祥周. 室内空气中易溶解有机污染物

分析方法, ZL201010179350。

6. 李继香, 代朝猛, 何淑英, **段艳平**, 谭曙光, 何健。一种应用磁生物强化膜生物反应器的水处理方法, ZL201310172378.5.
7. 李继香, 代朝猛, 郑晓峰, **段艳平**, 王倩, 何健, 何淑芳, 周焱, 谭曙光, 范文钦. 一种低污染生物强化膜生物反应器, 2013.12, 中国, CN201320439036.0.
8. 李继香, 何淑英, 代朝猛, 郑晓峰, **段艳平**, 王倩, 何健, 何淑芳, 周焱, 谭曙光, 范文钦. 一种改进的生物强化膜生物反应器, ZL201320439024.8.

专著与教材:

1. 主编《新兴污染物的分析、迁移转化与控制技术: 以药物活性化合物为例》, 科学出版社, 2017年11月。
2. 主编《滨海区域地下水中重金属污染物的迁移与转化》。科学出版社, 2021年6月。
3. 参编《环境监测》(第二版), 化学工业出版社, 2014年8月。
4. 参编《现代环境分析技术》(第二版), 科学出版社, 2013年6月。

社会兼职:

上海市地理学会会员

美国化学协会会员

国际水协协会会员

中国环境科学学会会员