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发布者：刘桐 发布时间：2020-05-18 浏览次数： 7554

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教育与研究经历

1988 - 1992, 曲阜师范大学化学专业, 获学士学位

1992 - 1995, 南开大学物理化学专业, 获硕士学位

1995 - 1998, 南开大学无机化学专业, 获博士学位

2000 - 2001, 韩国首尔国立大学工程学院博士后

2016—2017: 美国特拉华大学海洋地球与环境学院, 访问学者

1998 - 2002, 中国海洋大学化学化工学院讲师

2003 - 2012, 中国海洋大学化学化工学院副教授

2013 - 今, 中国海洋大学化学化工学院教授

研究领域与兴趣

(1) 界面化学

沉积物组成及性质研究

生源要素及污染物在沉积物界面上的迁移转化及对环境的影响

(2) 电化学

微电极电化学传感器研究

海水及沉积物中氧化还原元素形态分布及迁移行为

生物化学过程中氧化还原元素的转化及指征意义

近年主持和参与的科研项目

(1) 环境压力胁迫下我国典型海区沉积物上磷的迁移转化行为 (41676064), 国家自然科学基金面上项目, 2017.01-2020.12, 主持。

(2) 中国东海和黄海挥发性卤代烃的源与汇及其对环境的影响 (41830534), 国家自然科学基金重点项目, 2019.1-2023.12, 参与。

(3) 中国东部陆架海域生源活性气体的海-气通量及变化趋势 (2016YFA0601301), 国家重点研发计划, 2017.6-2021.6, 参与。

(4) 近海养殖区沉积物上磷的迁移转化机理研究 (ZR2013DM018), 山东省自然科学基金面上项目, 2013.10-2016.10, 主持。

(5) 微纳结构球形软碳锂离子储能电池系统技术及示范 (2014AA052303), 863计划, 2014.1-2016.12, 参与。

(6) 营养元素循环的关键过程对多重压力的响应与反馈 (2011CB409802), 国家重点基础研究发展规划(973)项目, 2011.01-2015.08, 参与。

代表性成果 (论文、专利、奖励)

1. Hong-Hai Zhang, **Xiao-Yan Cao***, He Wang, Zhun Ma, Jing Li, Li-Min Zhou, Gui-Peng Yang*. Effect of black carbon on sorption and desorption of phosphorus onto sediments. *Marine Pollution Bulletin* 2019, 146: 435–441.
2. **Xiaoyan Cao***, Jiamei Zhu, Min Lu, Chengfeng Ge, Limin Zhou, Guipeng Yang*. Phosphorus sorption behavior on sediments in Sanggou Bay related with their compositions by sequential fractionation. *Ecotoxicology and Environmental Safety* 2019, 169: 144-149.
3. **Xiaoyan Cao***, He Wang, Min Lu, Chengfeng Ge, Limin Zhou and Guipeng Yang*. Evaluation study for phosphorus mobilisation-release behaviour on different marine sediments: focus on phosphate sorption characteristics. *Environ. Chem.* 2019, 16, 179–186.
4. **Xiaoyan Cao***, Xiaoyue Liu, Jiamei Zhu, Lisha Wang, Sumei Liu, Guipeng Yang. Characterization of phosphorus sorption on the sediments of Yangtze River Estuary and its adjacent areas. *Marine Pollution Bulletin* 2017, 114, 1: 277-284.
5. Han, Xiaoqi, Pengxian Han, Jianhua Yao, Shu Zhang, **Xiaoyan Cao***, Junwei Xiong, Junnan Zhang, Guanglei Cui*. Nitrogen-doped carbonized polyimide microsphere as a novel anode material for high performance lithium ion capacitors. *Electrochimica Acta* 2016, 196: 603-610.
6. **Xiaoyan Cao**, Huiling Pang, Guipeng Yang*, Sorption Behavior of Norfloxacin on Marine Sediments. *Journal of Soils and Sediments* 2015, 7: 1635-1643.
7. **Xiao-Yan Cao**, Hui Han, Gui-Peng Yang*, Hai-Bing Ding, Hong-Hai Zhang. A Study on the Release of Oil from Oil-Contaminated Sediment through Laboratory Experiments. *Water Air and Soil Pollution* 2013, 224:1611.
8. **Xiaoyan Cao**, Guipeng Yang, Shuwei Wei, Hui Han. Sorption of heavy oil onto Jiaozhou Bay sediment. *Marine Pollution Bulletin* 2011, 62: 741-746.
9. **Xiaoyan Cao**, Huayu Han, Guipeng Yang, Xiaofei Gong, Jianning Jing. The sorption behavior of DDT onto sediment in the presence of surfactant cetyl-trimethylammonium bromide. *Marine Pollution Bulletin* 2011, 62: 2370-2376.
10. **Xiaoyan Cao**, Guipeng Yang, Shuwei Wei, Chunling Li. The electrochemical behavior of expanded graphite electrode in simulated sea water containing oil. *J. Applied Electrochim.* 2008, 38: 1571-75.
11. **Xiaoyan Cao**, Ji Hyun Kim, Seung Mo Oh. The effects of oxidation on the surface properties of MCMB-6-28. *Electrochimica Acta*, 2002, 47/25: 4085-4089.
12. **Cao Xiaoyan**, Kim Jihyun Oh Seungmo. The effect of mild oxidation on the electrochemical behaviour of graphitized MCMB. *Carbon*, 2002, 40

(12): 2270-2272.

13.**Xiaoyan Cao***, Jinping Wei, Yunjing Luo, Zuoxiang Zhou, Yunshi Zhang, Spherical nickel hydroxide composite electrode. ***International Journal of Hydrogen Energy*** 2000, 25: 643-647.

14.Yunshi Zhang, **Xiaoyan Cao**, Huatang Yuan, Wenhui Zhang, Zuoxiang Zhou. Oxygen evolution reaction on Ni hydroxide film electrode containing various content of Co. (Eng) ***Int. J. Hydrogen Energy***, 1999, 24, 529-536

15.朱佳美, **曹晓燕***, 刘素美, 王丽莎, 杨桂朋, 葛成凤, 路敏, 桑沟湾表层沉积物性质及对磷的吸附特征, 环境科学, 2016, 37 (2) : 558-564

16.路敏, 葛成凤, 郭君乐, 朱佳美, **曹晓燕***, 沉积物表面酸碱性质测定方法研究中国海洋大学学报, 2015, 45 (9) : 78-85

17.**曹晓燕***, 韩辉, 杨桂朋, SDBS对重油在胶州湾沉积物上吸附行为的影响, 环境科学, 2011, 32 (10) , 196-201

18.**曹晓燕***, 景建宁, 杨桂朋, 表面活性剂对DDT在胶州湾沉积物上吸附行为的影响, 环境科学, 2011, 32 (11) , 176-183

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