

# 海洋环境科学

第44卷 第3期

2025年6月

## 目 次

### 【调查与研究】

- 秋季东海海水和大气中挥发性卤代烃的分布与海-气通量 ..... 陈卓, 何真, 杨桂朋 (321)  
春季东海 CO 分布特征及表层源-汇过程研究 ..... 褚礼轩, 侯雯或, 付杰, 吕梦, 张婧, 杨桂朋 (332)  
基于生命周期评价法 (LCA) 的裙带菜栽培加工产业碳足迹分析 ..... 沈玲羽, 巍宁, 白钰, 王长发, 王晓凡, 曲翊, 武筱涵, 邵魁双 (346)  
环境浓度下甲氧苄啶对海洋微藻生长及生化组分的影响 ..... 王辰榆, 李星宇, 王晨, 冯鹏飞, 段伟艳 (352)  
沙埕港泥质海岸潮间带秋季大型底栖动物群落结构特征及环境因素对群落结构的影响 ..... 刘怡君, 郑碧琪, 樊立静, 陈萍贞, 李益云, 余巧艳, 刘溢馨, 张奇伟 (360)  
珠江口表层沉积物有机质碳氮丰度及其同位素组成与来源分析 ..... 黎灿明, 宋之光, 夏嘉, 赵子科 (369)  
基于无人机遥感的岛状盐沼潮沟与植被发育特征研究 ..... 孙家庆, 梁书秀, 孙昭晨, 陈柯欣, 马龙坤 (377)  
养殖贻贝各组织有机氯农药和多氯联苯的污染特征和影响因素 ..... 孙文婧, 王佳曼, 王珂, 徐良, 林明兰, 谢婧倩, 林田 (387)  
中街山列岛海域大型浮游动物优势种生态位与生态分化 ..... 吴媚悦, 张亚洲, 李振华, 印瑞, 周婉婷 (395)  
外源黑炭的添加对沉积物中 3,6-二甲基菲解吸过程的影响 ..... 邓志扬, 田伟君, 陈卓, 邹梦圆, 刘炳琨, 霍冰洁, 张瑞娟 (403)  
复杂海况下海底管道溢油行为特性数值模拟研究 ..... 胡超, 林建国, 于文, 郝燕妮, 王薇 (412)

### 【技术与方法】

- 一种用于模拟饲料污染物在流场输运的粒子追踪模型 ..... 李晓乐, 陈红希 (421)  
用于海上油气田生产水在线监测的水中油近紫外与深紫外传感器比较研究 ..... 刘铭辉, 李亚辉, 杨鹏, 杨敏, 王新乐, 王妮 (434)  
基于 GEE 的山东靖海湾岸线和潮滩逐年提取与形态变化分析 ..... 赵士祺, 魏潇, 孙伟, 刘宁, 徐艳东 (443)  
基于改进 CBR 的海洋观测手段配置智能设计方法研究 ..... 吕晓莹, 王祎, 李垚鑫, 魏连雪 (452)  
固相萃取-超高效液相色谱-三重四极杆质谱法同时测定海水中 8 种新烟碱类农药的残留 ..... 吴艳, 黄丹瑜, 熊曾恒, 杨昕蕊, 程龙, 何书海 (462)

### 【综述】

- 国内外海水养殖尾水排放标准对比分析及建议 ..... 苏洁, 吴雪心, 张金勇, 杨晓龙, 郭皓, 柳圭泽, 樊景凤 (471)

# MARINE ENVIRONMENTAL SCIENCE

Vol. 44, No. 3

June 2025

## Contents

### Investigation and Research

- Distribution characteristics and sea-to-air flux of volatile halocarbons in seawater and atmosphere of the East China Sea in autumn ..... CHEN Zhuo, HE Zhen, YANG Guipeng (321)
- Distribution and surface source-sink process of CO in the East China Sea in spring ..... CHU Lixuan, HOU Wenyu, FU Jie, LYU Meng, ZHANG Jing, YANG Guipeng (332)
- Carbon footprint analysis of *Undaria pinnatifida* culture and processing industry based on the life cycle assessment method ..... SHEN Lingyu, GONG Ning, BAI Yu, WANG Changfa, WANG Xiaofan, QU Yi, WU Xiaohan, SHAO Kuishuang (346)
- Effects of environmental concentrations of trimethoprim on the growth and biochemical components of marine microalgae ..... WANG Chenyu, LI Xingyu, WANG Chen, FENG Pengfei, DUAN Weiyuan (352)
- Community structure characteristics and influencing environmental factors of intertidal macrobenthos in the muddy coast of Shacheng harbour in autumn ..... LIU Yijun, ZHENG Biqi, FAN Lijing, CHEN Pingzhen, LI Yiyun, YU Qiaoyan, LIU Yixin, ZHANG Qiwei (360)
- The carbon/nitrogen abundance of organic matter and their isotope compositions of surface sediments in the Pearl River estuary for source input analyses ..... LI Canming, SONG Zhiguang, XIA Jia, ZHAO Zike (369)
- Study on the development characteristics of tidal creek and vegetation in island salt marsh based on UAV remote sensing ..... SUN Jiaqing, LIANG Shuxiu, SUN Zhaochen, CHEN Kexin, MA Longkun (377)
- Pollution characteristics and factors of OCPs and PCBs in cultured mussels ..... SUN Wenjing, WANG Jiamin, WANG Ke, XU Liang, LIN Minglan, XIE Jingqian, LIN Tian (387)
- Ecological niches and ecological differentiation of dominant macrozooplankton species in the waters of the Zhongjieshan islands ..... WU Meiyue, ZHANG Yazhou, LI Zhenhua, YIN Rui, ZHOU Wanting (395)
- Effect of exogenous black carbon addition on the desorption of 3,6-Dimethylphenanthrene from sediments to seawater ..... LU Zhiyang, TIAN Weijun, CHEN Zhuo, ZOU Mengyuan, LIU Bingkun, HUO Bingjie, ZHANG Ruijuan (403)
- Numerical simulation of spreading characteristics of oil spilled behaviour from submarine pipeline under complex sea conditions ..... HU Chao, LIN Jianguo, YU Wen, HAO Yanni, WANG Wei (412)

### Techniques and Methods

- A particle tracking model for simulating the drift of feed contaminants ..... LI Xiaole, CHEN Hongxi (421)
- Comparative study of near and far-ultraviolet sensors for oil-in-water online monitoring of offshore platform produced water ..... LIU Minghui, LI Yahui, YANG Peng, YANG Min, WANG Xinle, WANG Ni (434)
- GEE-based analysis of year-by-year extraction and shape changes of coastline and tidal flats in Jinghai Bay, Shandong ..... ZHAO Shiqi, WEI Xiao, SUN Wei, LIU Ning, XU Yandong (443)
- Investigation on intelligent design method of ocean observation platforms selection based on improved CBR ..... LYU Xiaoying, WANG Yi, LI Yaoxin, WEI lianxue (452)
- Simultaneous determination of 8 neonicotinoids pesticides in seawater by solid phase extraction-ultra performance liquid chromatography-triple quadrupole mass spectrometry ..... WU Yan, HUANG Danyu, XIONG Zengheng, YANG Xinrui, CHENG Long, HE Shuhai (462)

### Review

- Comparison analysis and suggestions on discharge standards of tailwater for mariculture ..... SU Jie, WU Xuemin, ZHANG Jinyong, YANG Xiaolong, GUO Hao, LIU Guize, FAN Jingfeng (471)