

ISSN 0254-6108
CN 11-1844 / X
CODEN HUHDB



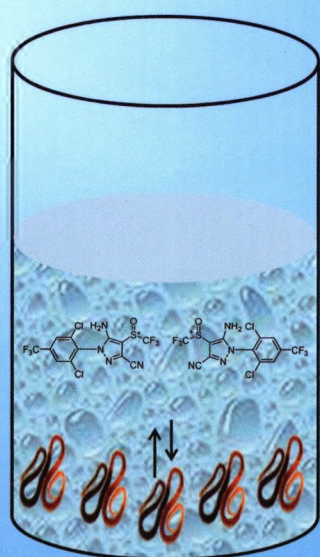
Q K 2 1 2 0 7 6 3

环境化学

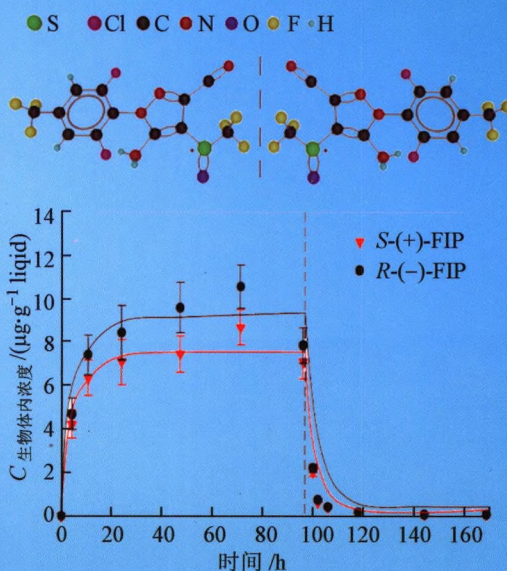
ENVIRONMENTAL CHEMISTRY



2020 Vol.39 No. 01
第39卷 第01期



水相暴露
夹杂
带丝蚓
选择性
积累
R型
氟虫腈



——利用毒代动力学模型研究氟虫腈在夹杂带丝蚓体内的手性选择性积累过程

方知库
Eco-Environmental
Knowledge Web

万方数据

中国科学院生态环境研究中心 主办



科学出版社出版

ISSN 0254-6108



0 1>

9 770254 610201

环境化学

(HUANJING HUAXUE)
第39卷 第1期 2020年1月



环境化学与生态毒理学国家重点实验室
资助出版

目次

前沿

土壤和底泥间隙水中汞-硫-铁纳米颗粒物的形成条件、结构特征及其在甲基汞生物合成中的作用

..... 吉云芸 杨麒弘 张 彤 (1)

评述

环境中纳米塑料的分离与检测 张晓菲 汪 磊 (8)

利用毒代动力学模型研究氟虫腈在夹杂带丝蚓体内的手性选择性积累过程

..... 王顺慧 李慧珍 游 静 (12)

典型羟基化多溴联苯醚(OH-PBDEs)小鼠肝微粒体的体外代谢及关键代谢 CYP450 酶系的研究

..... 张易曦 杨 霞 王 博 张圣虎 (19)

卤代醛/酮消毒副产物的生成潜能及其前驱物的结构特征

..... 余晓敏 赵少远 袁守军 王 伟 胡真虎 (28)

复合二氧化氯对药物及个人护理品的降解效能 ... 葛岳仙 张欣然 甘文慧 陈 锋 杨 欣 (39)

多溴联苯醚对芳香烃受体的激活作用及其介导毒性的研究进展

..... 梅 楠 池 泉 肖华明 王 献 (50)

磷酸改性生物炭-LDHs(Mg-Al-NO₃)复合材料对双酚 A 的吸附

..... 叶益辰 孙雨晴 萨仁格日乐 施乐乐 张 珍 王 涛 刘永红 (61)

丙烯酰胺对水环境中典型微藻的毒性效应 徐文静 张凯奇 付 强 谭丽菊 (71)

功能化金属有机骨架材料对水中痕量磺胺氯哒嗪的吸附行为及其机理

..... 崔 巍 张 卫 刘 淋 温东东 沈根祥 胡双庆 (80)

基于 SI-ATRP 技术制备磁性甲基对硫磷分子印迹聚合物及其吸附性能

..... 焦琳娟 徐先燕 吴晓莹 赵存元 (89)

腐殖酸负载对萘和 1-萘酚在生物炭上吸附动力学的影响

..... 张 萌 吕耀斌 朱一滔 施义渊 杨 庆 王喜龙 李 威 李萍萍 (101)

土壤对三氯乙烯的吸附行为及其影响因素 崔立莉 陈 浩 李 雷 郭旖琪 叶正芳 (110)

近百年来大辽河口潮间带中滴滴涕(DDTs)的沉积记录及其对人类活动的响应

..... 栾晓琳 乔田峰 吕 敏 廖春阳 王东启 刘东艳 陈令新 (119)

汾河上中游流域大型底栖动物群落特征及其多样性评价

..... 王林芳 李 华 党晋华 赵 颖 乔鹏明 (128)

中国主要沿海地区鱼/贝类中 PBDEs 暴露水平现状、特征和发展趋势 李玉芳 宋淑玲 (138)

不同流速下零价铁调控污水管道节点硫转化的影响
..... 卞爱琴 远 野 付 强 张璐璐 周 飞 陈正梁 陈天明 王爱杰 丁 成 (148)

环境中有机污染物的高通量筛查技术研究进展 毛佳迪 于南洋 于红霞 韦 斯 (156)

环境中黑炭测定方法的研究进展 田路萍 李贵弘 梁 妮 阳雄义 (166)

基于两种前处理对苹果叶片中虫酰肼残留的液相分析方法
..... 寇弘儒 刘士峰 孙艳超 杨 柳 王进忠 张志勇 (179)

固相萃取-高效液相色谱-串联质谱法测定地表水中 40 种抗生素
..... 王娅南 彭 洁 谢 双 饶 竹 战 楠 黄心眉 黄合田 郭 峰 杨鸿波 (188)

液液提取-固相萃取-LC-MS/MS 测定人体尿液中有机磷系阻燃剂及其二酯类代谢物
..... 张洛红 秦瑞欣 严 骁 郑 晶 唐 斌 蔡凤珊 庄 僖 (197)

503 种储运过程常见化学品的安全管控浓度的计算——基于化学品对藻类的环境风险评价
..... 周 伟 张跃恒 高 丹 林志芬 印春生 (207)

城市和电子垃圾拆解区室内灰尘中溴代阻燃剂(BFRs)的浓度和生物有效性
..... 郭惠莹 郑晓波 茹淑玲 麦碧娴 (220)

桂林市大气降水的化学组成特征及来源分析 张清华 黎永珊 于 爽 罗专溪 (229)

川东北大气沉降中水溶态重金属季节变化:自然和人为因素的影响
..... 潘晨光 刘粤峰 彭小桃 谢 宇 贺海波 汤 静 周厚云 (240)

大明湖表层沉积物重金属污染特征及生态风险评价
..... 代 静 李 欣 王小燕 赵玉强 刘善军 顾 珊 冯成洪 (249)

内蒙古乌达煤火海绵体的硫酸盐表征 杜 川 梁汉东 李展平 (264)

分析应用快报:

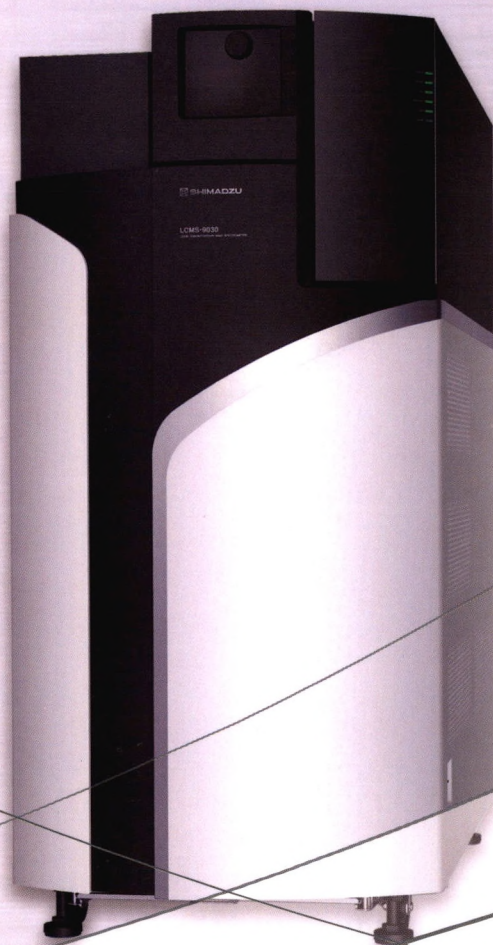
常压硫酸体系 ICP-MS 法测定土壤及沉积物中 16 种稀土元素及 Th 和 U
..... 廖菽欢 赵志南 严 冬 吴建刚 (271)

高效液相色谱-电喷雾串联质谱法测定婴幼儿奶粉中对羟基苯甲酸酯类防腐剂
..... 吴红庆 厉文辉 高立红 刘杰民 (275)

塑胶运动场地面层中短链氯化石蜡含量的测试方法
..... 关红艳 贾 祺 崔伟杰 冯春妍 袁庆丹 田菲菲 郭中宝 (279)

CONTENTS

Formation and structure of mercury-sulfide-iron nanoparticles and their role in the microbial production of methylmercury in soil and sediment porewater	JI Yunyun, YANG Qihong, ZHANG Tong (1)
The separation and detection methods of nanoplastics in the environment	ZHANG Xiaofei, WANG Lei (8)
Enantioselective bioaccumulation of waterborne fipronil in <i>Lumbriculus variegatus</i> with toxicokinetic modeling	WANG Shunhui, LI Huizhen, YOU Jing (12)
Research on in vitro metabolism of typical hydroxylated polybrominated diphenyl ethers (OH-PBDEs) in mouse liver microsomes and the key CYP450 enzyme system	ZHANG Yixi, YANG Xia, WANG Bo, ZHANG Shenghu (19)
Formation potential of halogenated aldehydes and ketones disinfection by-products and structural characteristics of their precursors	YU Xiaomin, ZHAO Shaoyuan, YUAN Shoujun, WANG Wei, HU Zhenhu (28)
Degradation efficiencies of composite chlorine dioxide on pharmaceuticals and personal care products	GE Yuexian, ZHANG Xinran, GAN Wenhui, CHEN Feng, YANG Xin (39)
Review on the study of activation effects of polybrominated diphenyl ethers on aryl hydrocarbon receptors and mediated toxicity	MEI Nan, CHI Quan, XIAO Huaming, WANG Xian (50)
Adsorption of bisphenol a by phosphoric acid modified biochar -LDHs(Mg-Al-NO ₃) composite	YE Yichen, SUN Yuqing, SAREN Gerile, SHI Lele, ZHANG Zhen, WANG Tao, LIU Yonghong (61)
Toxic effects of acrylamide on phytoplankton in natural waters	XU Wenjing, ZHANG Kaiqi, FU Qiang, TAN Liju (71)
Adsorption behavior and mechanism of functional mental organic frameworks for sulfachloropyridazine in water	CUI Wei, ZHANG Wei, LIU Lin, WEN Dongdong, SHEN Genxiang, HU Shuangqing (80)
Synthesis of methyl-parathion molecularly imprinted magnetic nanoparticles via surface-initiated atom transfer radical polymerization (SI-ATRP) and its adsorption properties	JIAO Linjuan, XU Xianyan, WU Xiaoying, ZHAO Cunyuan (89)
Impact of humic acid coating on sorption kinetics of naphthalene and 1-naphthol on biochar	ZHANG Meng, LYU Yaobin, ZHU Yitao, SHI Xiyuan, YANG Qing, WANG Xilong, LI Wei, LI Pingping (101)
Soil adsorption behavior of trichloroethylene and its influencing factors	CUI Lili, CHEN Hao, LI Lei, GUO Yiqi, YE Zhengfang (110)
Sediment records of DDTs in intertidal sediment core of Daliao River Estuary and their responses to anthropogenic activities in the past century	LUAN Xiaolin, QIAO Tianfeng, LYU Min, LIAO Chunyang, WANG Dongqi, LIU Dongyan, CHEN Lingxin (119)
Characteristics and diversity evaluation of macrobenthos in upper and middle reaches of Fen River basin	WANG Linfang, LI Hua, DANG Jinhua, ZHAO Ying, QIAO Pengming (128)
Current status, characteristics and development trend of PBDEs levels in fish/shellfish from major coastal areas of China	LI Yufang, SONG Shuling (138)
Regulation of sulfur transformation of point source in sewage by zero-valent-iron under different flow rates	BIAN Aiqin, YUAN Ye, FU Qiang, ZHANG Lulu, ZHOU Fei, CHEN Zhengliang, CHEN Tianming, WANG Aijie, DING Cheng (148)
Research process of the high-throughput screening for identification of environmental organic pollutants	MAO Jiadi, YU Nanyang, YU Hongxia, WEI Si (156)
Research progress of determination methods for environmental black carbon	TIAN Luping, LI Guihong, LIANG Ni, YANG Xiongyi (166)
Liquid phase analysis of tebufenozide residues in apple leaves based on two pretreatments	KOU Hongru, LIU Shifeng, SUN Yanchao, YANG Liu, WANG Jinzhong, ZHANG Zhiyong (179)
Determination of 40 antibiotics in surface water by solid phase extraction-high performance liquid chromatography-tandem mass spectrometry	WANG Yanan, PENG Jie, XIE Shuang, RAO Zhu, ZHAN Nan, HUANG Xinmei, HUANG Hetian, GUO Feng, YANG Hongbo (188)
Determination of organophosphate flame retardants and their diesters in urine by liquid-liquid extraction and solid-phase extraction coupled with LC-MS/MS	ZHANG Luohong, QIN Ruixin, YAN Xiao, ZHENG Jing, TANG Bin, CAI Fengshan, ZHUANG Xi (197)
Calculation of safety-controlled concentration of 503 common chemicals in storage and transportation process: Based on the environmental risk assessment of algae by chemicals	ZHOU Wei, ZHANG Yueheng, GAO Dan, LIN Zhifen, YIN Chunsheng (207)
Concentrations and bioaccessibility of brominated flame retardants (BFRs) in indoor dust from a megacity and an e-waste recycling site	GUO Huiying, ZHENG Xiaobo, RU Shuling, MAI Bixian (220)
Characteristics and source analysis of chemical composition of atmospheric precipitation in Guilin City, Southwest China	ZHANG Qinghua, LI Yongshan, YU Shi, LUO Zhuanxi (229)
Seasonal variations of water-soluble heavy metals in atmospheric deposition at NE Sichuan, Central China: Natural and anthropogenic effects	PAN Chenguang, LIU Yuefeng, PENG Xiaotao, XIE Yu, HE Haibo, TANG Jing, ZHOU Houyun (240)
Pollution characteristics and ecological risk assessment of heavy metals in the surface sediments of Daming Lake	DAI Jing, LI Xin, WANG Xiaoyan, ZHAO Yuqiang, LIU Shanjun, GU Shan, FENG Chenghong (249)
Characterization of sulfate salts in the coal fire sponge in Wuda coalfield, Inner Mongolia of China	DU Chuan, LIANG Handong, LI Zhanping (264)
Determination of 16 rare earth elements and Th and U in soil and sediment by ICP-MS under atmospheric pressure sulfuric acid system	LIAO Shuhuan, ZHAO Zhinan, YAN Dong, WU Jiangang (271)
Determination of parabens in infant milk powders by high performance liquid chromatography-electrospray ionization tandem mass spectrometry	WU Hongqing, LI Wenhui, GAO Lihong, LIU Jiemin (275)
Determination of short chain chlorinated paraffins in synthetic playground surfaces	GUAN Hongyan, JIA Qi, CUI Weijie, FENG Chunyan, YUAN Qingdan, TIAN Feifei, GUO Zhongbao (279)



LCMS-9030

四极杆飞行时间液质联用仪

- **高灵敏度**:UF离子累积技术及UFgrating 高场离子提取技术
- **高分辨率**:iRefTOF技术
- **高稳定性**:高精度温控单元

