

环境化学

(HUANJING HUAXUE)
第38卷 第5期 2019年5月



环境化学与生态毒理学国家重点实验室
资助出版

目次

应用污水流行病学方法调查辽宁省主要城市咖啡因消费量	
..... 冯佳铭 王思玉 刘春叶 谭冬芹 王德高 (971)	
一种席夫碱铜配合物催化过氧化氢氧化降解三氯生	
..... 彭建彪 张耀宗 张亚陈 敏 张慧 李静华 刘海津 高士祥 (977)	
铁碳微电解降解磺胺甲恶唑和卡马西平	马嘉敏 宋伟 张小磊 李继 (985)
SnO ₂ -Sb/碳纳米管复合电极的制备及催化降解低浓度头孢他啶	段平洲 黄鸽黎 胡翔 (991)
高锰酸钾/亚硫酸氢钠氧化噻草酮后消毒副产物的生成趋势及毒性研究	
..... 杨海燕 柳婷 董慧峪 强志民 叶桂洪 李翼 孙晓博 (999)	
芳香族化合物与水合电子水相反应速率常数的 QSAR 模型研究	
..... 郑珊珊 李田田 王晶 胡雅君 张会霞 赵淑娴 赵元慧 李超 (1005)	
利用靶器官毒性剂量法 (TTD) 和证据权重分析法 (WOE) 评估固化飞灰中重金属非致癌健康风险	
..... 刘丽君 韩静磊 钱益斌 张宗尧 郭庶 (1014)	
绿藻胞外聚合物对无机砷生物累积特征的影响	黄飞 周昉 姜舒扬 张建英 (1021)
3,3',4,4',5-五氯联苯 (PCB126) 在食用罗非鱼不同组织中的蓄积、净化、迁移规律的动力学研究	
..... 石磊 鲍彦 张欣 朱莉飞 李敬光 赵云峰 吴永宁 (1028)	
邻苯二甲酸酯类毒性及检测方法研究进展	
..... 张悦 袁骐 蒋玫 郑亮 隋延鸣 王云龙 王翠华 (1035)	
HS-SPME-GC/MS 同时测定污废水中多种 VOCs 异味物质	
..... 宋荣娜 杨晓芳 吕明晗 赵珊 廖桂英 王东升 (1047)	
高效液相色谱串联质谱法检测蚯蚓体内硒代氨基酸	
..... 邵秀清 秦文友 张梦 王煜 史雅娟 张红 孔祥宇 韩国祥 (1057)	
固相萃取-超高效液相色谱-四极杆-飞行时间质谱法分析地表水中 26 种农药	
..... 赖国银 林立毅 丁亦男 曹淑瑞 袁文莹 徐敦明 严丽娟 吴敏 吕美玲 (1065)	
弱磁场强化零价铁去除水中砷的效果	胡一帆 王文兵 仵彦卿 (1074)
有色金属冶炼渣脱硫脱硝研究进展	
..... 王夏玲 孙鑫 孙丽娜 刘娜 肖荷露 李凯 王驰 (1082)	
活性橙 7 在亚临界/超临界水中的结焦反应试验研究	
..... 张洁 张华民 李鹏 卢金玲 陈森林 南海鹏 (1091)	
TPU/PAN 电纺复合膜的制备及空气过滤性能 ... 籍静 王娇娜 李秀艳 张俊 李从举 (1098)	

改性纳米二氧化硅对 Cd 污染农田土壤的钝化修复
..... 王帝伟 刘祎丹 易春辉 张红岩 邱坤艳 王洋洋 (1106)
多壁碳纳米管与镉复合污染对水稻生长的影响 杨思楠 刘 玲 郑刘根 (1113)
物理扰动对铅改性沸石改良底泥磷吸附和移动的影响 吴小龙 林建伟
张宏华 詹艳慧 张志斌 何思琪 俞 阳 王 艳 侯雨苇 韩星雨 陈海洋 (1119)
广东省信宜-廉江地区地热水中氟的富集过程 欧 浩 卢国平 胡晓农 王贝贝 (1128)
呼和浩特市城区大气污染物浓度变化特征分析 邢雅婷 王 帅 赵 玲 (1139)
粤西深大断裂温泉水化学分析 王贝贝 卢国平 胡晓农 欧 浩 (1150)
东南沿海某水源地水质健康风险评价
..... 陈 汉 王振峰 梅 琨 夏 芳 纪晓亮 黄 宏 张明华 (1161)
污水处理厂进出水中环状挥发性甲基硅氧烷(cVMS)浓度季节性变化
..... 兰永超 李娇敏 钱 程 宫福强 耿 红 刘忠一 吴婧娴 李清波 (1171)
呼伦湖冰封期 N、P 时空分布及富营养化特征
..... 郭子扬 李畅游 史小红 赵胜男 孙 标 韩知明 (1180)
新疆若羌县土壤质量地球化学评价 范 薇 曾妍妍 周金龙 王松涛 杜江岩 (1190)

分析应用快报:

全自动固相萃取-气相色谱-串联质谱法测定水质中 N-亚硝胺类化合物
..... 何书海 曹小聪 李腾崖 张鸣珊 梁 焱 陈表娟 庄 健 (1197)
在线固相萃取-高效液相色谱法同时测定眩晕停胶囊中的葛根素和芍药苷
..... 安 明 薄彧坤 杨 丹 郭晓文 张耀升 邬国栋 (1201)
GC/MS/MS 法测定水果中 10 种甲氧基丙烯酸酯类杀菌剂残留量
..... 张 瑶 孙 谦 马桂娟 龚 慧 高 琳 (1204)

ENVIRONMENTAL CHEMISTRY

(Monthly)

Volume 38

Number 5

May

2019

CONTENTS

Investigation on caffeine consumption in Liaoning Province using sewage epidemiology	
..... FENG Jiaming, WANG Siyu, LIU Chunye, TAN Dongqin, WANG Degao (971)	
Oxidative removal of triclosan with hydrogen peroxide catalyzed by a Schiff base Cu(II)-complex	
... PENG Jianbiao, ZHANG Yaozong, ZHANG Ya, CHEN Min, ZHANG Hui, LI Jinghua, LIU Haijin, GAO Shixiang (977)	
Degradation of sulfamethoxazole and carbamazepine by iron-carbon microelectrolysis	
..... MA Jiamin, SONG Wei, ZHANG Xiaolei, LI Ji (985)	
Fabrication of SnO ₂ -Sb/MWCNTs composite electrode and the anodic degradation of low concentration cefprozil	
..... DUAN Pingzhou, HUANG Geli, HU Xiang (991)	
Effects of PM and PM/BS on the degradation of metribuzin and the formation potential of disinfection by-products	
..... YANG Haiyan, LIU Ting, DONG Huiyu, QIANG Zhimin, YE Guihong, LI Yi, SUN Xiaobo (999)	
QSAR models for predicting the aqueous reaction rate constants of aromatic compounds with hydrated electrons	
..... ZHENG Shanshan, LI Tiantian, WANG Jing, HU Yajun, ZHANG Huixia, ZHAO Shuxian, ZHAO Yuanhui, LI Chao (1005)	
Assessment of heavy metal non-carcinogenic health risk in solidified fly ash using TTD and WOE methods	
..... LIU Lijun, HAN Jinglei, QIAN Yibin, ZHANG Zongyao, GUO Shu (1014)	
Effects of extracellular polymeric substances on the bioaccumulation of inorganic arsenic by green microalgae	
..... HUANG Fei, ZHOU Fang, JIANG Shuyang, ZHANG Jianying (1021)	
Kinetic study of bioaccumulation, depuration, and transfer for 3,3',4,4'-pentachlorobiphenyl (PCB126) in different tissues of tilapia <i>Oreochromis nilotica</i>	
..... SHI Lei, BAO Yan, ZHANG Xin, ZHU Lifen, LI Jingguang, ZHAO Yunfeng, WU Yongning (1028)	
Research progress in toxicity and detection methods of phthalic acid esters	
..... ZHANG Yue, YUAN Qi, JIANG Mei, ZHENG Liang, SUI Yanming, WANG Yunlong, WANG Cuihua (1035)	
Simultaneous determination of various odorous VOC substances in sewage wastewater by HS-SPME-GC/MS	
..... SONG Rongna, YANG Xiaofang, LYU Minghan, ZHAO Shan, LIAO Guiying, WANG Dongsheng (1047)	
Determination of seleno amino acids in earthworms by high performance liquid chromatography-electrospray ionization-mass spectrometry	
..... QIN Wenyue, ZHANG Meng, WANG Yu, SHI Yajuan, ZHANG Hong, KONG Xiangyu, HAN Guoxiang (1057)	
Determination of 26 pesticides in surface water by solid phase extraction-ultra high performance liquid chromatography-quadrupole time-of-flight mass spectrometry	
..... LAI Guoyin, LIN Liyi, DING Yinan, CAO Shurui, YUAN Wenxuan, XU Dunming, YAN Lijuan, WU Min, LYU Meiling (1065)	
The role of weak magnetic field in accelerating the removal of arsenic by zero-valent iron	
..... HU Yifan, WANG Wenbing, WU Yanqing (1074)	
Research progress in desulfurization and denitrification of non-ferrous metal smelting slag	
..... WANG Xialing, SUN Xin, SUN Lina, LIU Na, XIAO Helu, LI Kai, WANG Chi (1082)	
The experimental study on the coking reaction of Reactive Orange 7 in sub/supercritical water	
..... ZHANG Jie, ZHANG Huamin, LI Peng, LU Jinling, CHEN Senlin, NAN Haipeng (1091)	
Preparation of electrospun TPU/PAN composite nanofiber membrane and air filtration performance	
..... JI Jing, WANG Jiaona, LI Xiuyan, ZHANG Jun, LI Congju (1098)	
Stabilization of Cd-contaminated agricultural soils by modified nano-silica	
..... WANG Diwei, LIU Yidan, YI Chunhui, ZHANG Hongyan, QIU Kunyan, WANG Yangyang (1106)	
Effects of combined contamination of multi-walled carbon nanotubes and cadmium on the growth of rice	
..... YANG Sinan, LIU Ling, ZHENG Liugen (1113)	
Effect of physical disturbance on phosphorus sorption and immobilization onto/in zirconium-modified zeolite-amended sediments	
..... WU Xiaolong, LIN Jianwei, ZHANG Honghua, ZHAN Yanhui, ZHANG Zhibin, HE Siqu, YU Yang, WANG Yan, HOU Yuwei, HANG Xingyu, CHEN Haiyang (1119)	
Fluoride enrichment in geothermal waters in Xinyi-Lianjiang region, Guangdong	
..... OU Hao, LU Guoping, HU Xiaonong, WANG Beibei (1128)	
Variation characteristics of atmospheric pollutants in the urban area of Hohhot	
..... XING Yating, WANG Shuai, ZHAO Ling (1139)	
Hydrochemical characterization of thermal spring waters in the deep fault region in western Guangdong	
..... WANG Beibei, LU Guoping, HU Xiaonong, OU Hao (1150)	
Water quality health risk assessment in a drinking water source in southeast coastal area of China	
..... CHEN Han, WANG Zhenfeng, MEI Kun, XIA Fang, JI Xiaoliang, HUANG Hong, ZHANG Minghua (1161)	
Seasonal variation of cVMS concentrations in the influents and effluents of wastewater treatment plants	
... LAN Yongchao, LI Jiaomin, QIAN Cheng, GONG Fuqiang, GENG Hong, LIU Zhongyi, WU Jingxian, LI Qingbo (1171)	
Temporal and spatial distributions and eutrophication of nutrients in the ice-cold period of Hulun Lake, China	
..... GUO Ziyang, LI Changyou, SHI Xiaohong, ZHAO Shengnan, SUN Biao, HAN Zhiming (1180)	
Geochemical evaluation of soil quality in Ruoqiang County, Xinjiang	
..... FAN Wei, ZENG Yanyan, ZHOU Jinlong, WANG Songtao, DU Jiangyan (1190)	
Determination of nine N-nitrosamines in water by gas chromatography-tandem mass spectrometry with auto-solid phase extraction	
..... HE Shuhai, CAO Xiaocong, LI Tengya, ZHANG Mingshan, LIAN Yan, CHEN Biaojuan, ZHUANG Jian (1197)	
Simultaneous determination of puerarin and paeoniflorin in XuanYunTingCapsules by online solidphase extraction coupled with HPLC	
..... AN Ming, BO Yukun, YANG Dan, GUO Xiaowen, ZHANG Yaosheng, WU Guodong (1201)	
Determination of 10 strobilurin fungicide residues in fruit by GC/MS/MS	
..... ZHANG Yao, SUN Qian, MA Guijuan, GONG Hui, GAO Lin (1204)	