

目次

专论与综述

- 磁分离技术在水处理中的研究与应用进展 郑利兵, 佟娟, 魏源送, 等 (3103)
正渗透技术研究现状及进展 王波, 文湘华, 申博, 等 (3118)

研究报告

- 太湖流域上游河网污染物降解系数研究 冯帅, 李叙勇, 邓建才 (3127)
鄱阳湖流域人为氮磷输入演变及湖泊水环境响应 高伟, 高波, 严长安, 等 (3137)
福岛核泄漏事件对中国海污染的研究 容逸能, 徐瑞, 梁湘三, 等 (3146)
浑河底泥古菌群落结构季节性变化特征 石国强, 彭剑峰, 宋永会, 等 (3160)
富硫沉积生境中微生物群落的垂直分布特征 冯巩, 赵阳国, 申志聪, 等 (3169)
SBR 工艺活性污泥驯化过程中微型动物群落物种多样性及其稳定性研究 胡小兵, 饶强, 钟梅英, 等 (3177)
镰刀菌 (*Fusarium* sp.) 对 2,4,6-三氯苯酚的降解特性及其机制 蔡伟建, 潘俊雅, 李济吾 (3187)
苯酚降解菌 CM-HZX1 菌株的分离、鉴定及降解性能研究 魏霞, 周俊利, 谢柳, 等 (3193)
一株耐盐高效苯酚降解菌的筛选、鉴定、响应面法优化与降解动力学研究 张海涛, 刘文斌, 杨海君, 等 (3200)
水体氨磷浓度对两种沉水植物上附着藻类的影响 宋玉芝, 王宇佳, 王锦旗, 等 (3208)
柠檬酸对核电站低放废液中^{110m}Ag吸附去除性能的影响 赵庆凯, 尉继英, 赵璇 (3213)
淀粉稳定 Fe₃O₄ 纳米粒子对水中 As(V) 的吸附特性研究 李小飞, 李一菲, 钱天伟 (3222)
纳米 Fe₃C/碳纤维非均相电芬顿降解二甲基砷的研究 李建斐, 李一兵, 孙猛, 等 (3230)
PbO₂/TiO₂-NT/Ti 电极的制备及电催化性能研究 段小月, 刘伟, 陆丽, 等 (3237)
均相/异相催化剂光降解垃圾渗滤液效果的研究 王鹤茹, 宋永伟, 徐峙辉, 等 (3243)
N,N-双(二硫代烷基)乙二胺对微量络合镍的深度脱除特性研究 肖晓, 邱伊琴, 孙水裕, 等 (3251)
生物表面活性剂改性对纳米铁/炭去除地下水中 NO₃⁻-N 的影响 高阳阳, 刘国, 陈西亮, 等 (3258)
利用截留数定量表征流速变化时 DANPL 驱替运移行为 廖朋辉, 程洲, 吴鸣, 等 (3266)
盐度变化对厌氧污泥胞外聚合物的影响 王子超, 高孟春, 魏俊峰, 等 (3273)
典型表面活性剂对焦化污泥中富集多环芳烃的解吸 刘雷, 吴海珍, 王鸣, 等 (3282)
废旧 Zn-C 电池-活性污泥炭优化制备的研究 牛志睿, 汤睿, 刘羽, 等 (3292)
不同种类表面活性剂联合离子液体预处理稻秆的物化特性研究 张耿峻, 陈细妹, 王小琴, 等 (3300)
油酸钠对餐厨垃圾两相厌氧发酵中利用乙酸产甲烷过程的影响 王星, 尹小波, 张敏, 等 (3306)
超声辅助生物淋滤废旧 Zn-C 电池锌锰溶出的研究 牛志睿, 江明荣, 李倩, 等 (3313)
淮南市不同功能区叶面尘和地表灰尘中重金属分布特征、来源及健康风险评价 张丹龙, 方凤满, 姚有如, 等 (3322)
典型钢铁厂周边土壤中多氯联苯分布特征研究 陈学斌, 刘文霞, 廖晓, 等 (3333)
纳米碳及其复合材料对油菜生长和土壤氮素保持效应的影响 田艳飞, 黄占斌, 刘丹, 等 (3339)
2,6-二甲基-β-环糊精螯合强化菹草对 Pb 吸收的影响和机理 杨丹丹, 杨丽雯, 张永清, 等 (3346)
长江口潮滩芦苇根表铁膜磁性特征及其环境意义 刘晋嫣, 张卫国, 董艳, 等 (3354)
厦门市环境空气污染时空特征及其与气象因素相关分析 肖建能, 杜国明, 施益强, 等 (3363)
江浙沪春节燃放烟花爆竹对垂直大气的影响 丁明月, 刘海晨, 徐健, 等 (3372)
利用 LUR 模型模拟杭州市 PM_{2.5} 质量浓度空间分布 汉瑞英, 陈健, 王彬 (3379)
华北平原夏收期间气溶胶卫星遥感探测分析 安晓丹, 张佳华, 刘学锋, 等 (3386)
一套民用固体燃料燃烧大气污染物排放测试系统的搭建和评测 张琦, 李庆, 蒋靖坤, 等 (3393)
不同 SAPO 分子筛负载 MnO_x 催化剂的低温 NH₃-SCR 性能研究 杨颖欣, 马杰文, 喻成龙, 等 (3400)
氮掺杂二氧化钛复合催化膜降解甲苯气体研究 何奕明, 王剑斌, 陈洲洋, 等 (3409)
铬改性分子筛催化降解三氯乙烯研究 钱金泽, 李森, 罗勇, 等 (3419)
混合多目标遗传算法求解地下水污染修复管理模型 宋健, 杨蕴, 吴剑锋, 等 (3428)
中国碳排放强度影响因素对区域差异的作用分析 颜艳梅, 王铮, 吴乐英, 等 (3436)
中国城市居民生活能源碳排放的时空格局及影响因素分析 万文玉, 赵雪雁, 王伟军 (3445)
纯电动汽车驱动电机全生命周期评价 刘凯辉, 徐健全 (3456)
焚烧厂周边居民重金属污染物多途径暴露的健康风险 徐亚, 吕凤春, 董路, 等 (3464)
电子拆解区家禽中溴代阻燃剂的污染特征 顾海东, 王俊霞, 高仕谦, 等 (3472)
羟基化多溴联苯醚 (OH-PBDEs) 在小鼠肝脏 S9 中的体外代谢研究 张易曦, 张芹, 吉贵祥, 等 (3480)
细颗粒物 (PM_{2.5}) 可溶性提取液对发光细菌的光抑制与组分浓度的相关性分析 孙成华, 石爱军, 刘保献, 等 (3488)
不同酸雨梯度下 3 种酸雨处理对茶树幼苗叶绿素荧光和光合特性的影响 董莲春, 俞飞, 刘美华, 等 (3495)

CONTENTS

The progress of magnetic separation technology in water treatment	ZHENG Libing, TONG Juan, WEI Yuansong, et al (3103)
The current status and research advances in forward osmosis	WANG Bo, WEN Xianghua, SHEN Bo, et al (3118)
A study on degradation coefficients of pollutants in the upstream river network of the Lake Taihu basin	FENG Shuai, LI Xuyong, DENG Jiancai (3127)
Evolution of anthropogenic nitrogen and phosphorus inputs to Lake Poyang Basin and its' effect on water quality of lake	GAO Wei, GAO Bo, YAN Chang'an, et al (3137)
A study of the possible radioactive contamination in the China Seas from the Fukushima nuclear disaster	RONG Yineng, XU Rui, LIANG Xiangsan, et al (3146)
The temporal changes of archaeal community structure in the sediments of the Hun River	SHI Guoqiang, PENG Jianfeng, SONG Yonghui, et al (3160)
Vertical distribution of microbial community along the sulfide gradient in a sulfide-rich marine sediment model	FENG Gong, ZHAO Yangguo, SHEN Zhicong, et al (3169)
Microbial community diversity and stability of microfauna during the activated sludge acclimation in sequencing batch reactor	HU Xiaobing, RAO Qiang, ZHONG Meiyong, et al (3177)
Biodegradation characteristics and mechanism of 2,4,6-trichlorophenol by <i>Fusarium</i> sp. in solution	CAI Weijian, PAN Junya, LI Jiwu (3187)
Isolation, identification and characterization of phenol-degrading strain CM-HZX1	WEI Xia, ZHOU Junli, XIE Liu, et al (3193)
Isolation, identification, optimization via response surface methodology of a highly-efficient phenol-degrading salt-tolerant strain and its degradation kinetics	ZHANG Haitao, LIU Wenbin, YANG Haijun, et al (3200)
Effects of nitrogen and phosphorus concentration on epiphytic algae living on two types of submerged plants	SONG Yuzhi, WANG Yujia, WANG Jinqi, et al (3208)
Effect of citric acid on the adsorption efficiency of ^{110m} Ag in low-level radioactive wastewaters from nuclear power plant	ZHAO Qingkai, WEI Jiyong, ZHAO Xuan (3213)
Arsenate adsorption by starch-stabilized Fe ₃ O ₄ nanoparticles in water	LI Xiaofei, LI Yifei, QIAN Tianwei (3222)
Fe ₃ C loaded carbon nanofibers as heterogeneous catalysts for the electro-fenton degradation of dimethyl arsenic	LI Jianfei, LI Yibing, SUN Meng, et al (3230)
Preparation and electro-catalytic properties of PbO ₂ /TiO ₂ -NT/Ti electrode	DUAN Xiaoyue, LIU Wei, LU Li, et al (3237)
Photochemical degradation of landfill leachate by homogeneous/heterogeneous catalyst combinations	WANG Heru, SONG Yongwei, XU Zhihui, et al (3243)
Characterizing the deep removal of trace complex nickel ions by N, N'-bis-(dithiocarboxy) ethylenediamine	XIAO Xiao, QIU Yiqin, SUN Shuiyu, et al (3251)
Effect of biological surfactant on the reduction of NO ₃ ⁻ -N in groundwater using nano iron /carbon	GAO Yangyang, LIU Guo, CHEN Xiliang, et al (3258)
The quantitative prediction of DNAPL mobilization under different flow velocity using total trapping number	LIAO Penghui, CHENG Zhou, WU Ming, et al (3266)
Effect of salinity on extracellular polymeric substances of anaerobic sludge	WANG Zichao, GAO Mengchun, WEI Junfeng, et al (3273)
Enhanced desorption of enriched polycyclic aromatic hydrocarbons from coking sludge using typical surfactants	LIU Lei, WU Haizhen, WANG Ming, et al (3282)
The optimization in preparing the used Zn-C batteries- sludge-based absorbent	NIU Zhirui, TANG Rui, LIU Yu, et al (3292)
The physico-chemical properties of rice straw after different surfactants- assisted ionic liquid pretreatment	CHANG Kenlin, CHEN Ximei, WANG Xiaoqin, et al (3300)
The effect of sodium oleate on acetate methanation in two-phase food waste anaerobic digestion	WANG Xing, YIN Xiaobo, ZHANG Min, et al (3306)
The release of Zn and Mn from spent Zn-C batteries by using ultrasound-assisted bioleaching	NIU Zhirui, JIANG Mingrong, LI Qian, et al (3313)
Distribution, sources and health risk assessment of heavy metals in foliar and surface dust of different functional areas of Huainan City	ZHANG Danlong, FANG Fengman, YAO Youru, et al (3322)
Concentrations and profiles of PCBs in the surrounding soil of a typical steel plant	CHEN Xuebin, LIU Wenxia, LIAO Xiao, et al (3333)
Effect of nano-carbon and its composites on rape growth and soil nitrogen-holding efficiency	TIAN Yanfei, HUANG Zhanbin, LIU Dan, et al (3339)
Effect and mechanism of 2,6-Demethyl-β-Cyclodextrin on chelate-induced humulus towards lead accumulation	YANG Dandan, YANG Liwen, ZHANG Yongqing, et al (3346)
Magnetic properties of iron plaque on roots of <i>Phragmites Australis</i> in tidal flat of the Yangtze Estuary	LIU Jinyan, ZHANG Weiguo, DONG Yan, et al (3354)
Spatiotemporal distribution pattern of ambient air pollution and its correlation with meteorological factors in Xiamen City	XIAO Jianneng, DU Guoming, SHI Yiqiang, et al (3363)
Effect of fireworks on vertical atmosphere over Jiangsu, Zhejiang and Shanghai during the Spring Festival	DING Mingyue, LIU Haichen, XU Jian, et al (3372)
Application of LUR models for simulating the spatial distribution of PM _{2.5} concentration in Hangzhou, China	HAN Ruiying, CHEN Jian, WANG Bin (3379)
Aerosol detection analysis from satellite during the harvest season over North China Plain	AN Xiaodan, ZHANG Jiahua, LIU Xuefeng, et al (3386)
A measurement system to characterize air pollutant emissions from residential solid fuel combustion	ZHANG Qi, LI Qing, JIANG Jingkun, et al (3393)
Low-temperature NH ₃ -SCR activity of manganese oxides supported on different SAPO molecular sieves catalysts	YANG Yingxin, MA Jiewen, YU Chenglong, et al (3400)
Photocatalytic degradation of toluene by nitrogen-doped titanium dioxide composite film	HE Yiming, WANG Jianbin, CHEN Zhouyang, et al (3409)
Catalytic degradation of trichloroethylene over Cr/zeolite catalysts	QIAN Jinze, LI Sen, LUO Yong, et al (3419)
A new hybrid multi-objective genetic algorithm for optimal design of groundwater remediation systems	SONG Jian, YANG Yun, WU Jianfeng, et al (3428)
Analysis of the determinants of carbon emission intensity on regional differences	YAN Yanmei, WANG Zheng, WU Leying, et al (3436)
Spatial-temporal patterns and impact factors analysis on carbon emissions from energy consumption of urban residents in China	WAN Wenyu, ZHAO Xueyan, WANG Weijun (3445)
Life cycle assessment of driving motor on electric vehicle	LIU Kaihui, XU Jianquan (3456)
Human health effects of heavy metals around an incineration plant through multi-media exposure	XU Ya, LÜ Fengchun, DONG Lu, et al (3464)
Contamination characteristics of brominated flame retardants in free-range chicken from an e-waste recycling site	GU Haidong, WANG Junxia, GAO Shiqian, et al (3472)
In vitro metabolism of Hydroxylation polybrominated diphenyl ethers in mice liver	ZHANG Yixi, ZHANG Qin, JI Guixiang, et al (3480)
Correlation between luminous inhibition rate of water-soluble constituents and composition of PM _{2.5}	SUN Chenghua, SHI Aijun, LIU Baoxian, et al (3488)
Effects of three kinds of acid rain treatments on chlorophyll fluorescence and photosynthetic characteristics of <i>Camellia sinensis</i> under different acid rain gradients	DONG Lianchun, YU Fei, LIU Meihua, et al (3495)