

- ◆ 全国中文核心期刊
- ◆ 中国科学引文数据库
- ◆ 中文科技期刊数据库收录期刊
- ◆ 中国期刊全文数据库全文收录期刊
- ◆ 中国生物医学文献数据库 (CBM)
- ◆ 中国学术期刊综合评价数据库统计源期刊
- ◆ 中国科技论文统计源期刊 (中国科技核心期刊)
- ◆ 万方数据—数字化期刊群 (中国核心期刊遴选数据库)

- ◆ RCCSE中国核心学术期刊
- ◆ 美国化学文摘 (CA) 收录期刊
- ◆ 波兰哥白尼索引 (IC) 收录期刊
- ◆ 美国乌利希期刊指南 (Ulrich PD) 收录期刊
- ◆ 美国《剑桥科学文摘 (自然科学)》(CSAI) 收录期刊
- ◆ 日本科学技术振兴机构中国文献数据库 (JST) 收录期刊
- ◆ 英国国际农业与生物科学研究中心数据库 (CABI) 收录期刊



环境科学与技术

Huanjing Kexue yu Jishu

ISSN1003—6504

Vol. 40 No. 6

2017



Environmental Science & Technology

ISSN 1003-6504



湖北省环境保护厅 主管
湖北省环境科学研究院 主办

目 次

紫外降解双酚 A 的因素敏感性分析及机理探讨
..... 李红娜, 郭萍, 汪煜, 叶婧, 朱昌雄(1)

2 种温度下营养盐添加对东湖浮游藻类的影响
..... 赵先富, 马沛明, 刘国祥, 胡征宇(7)

花生壳生物炭的制备、表征及其吸附性能
..... 饶潇潇, 方昭, 王建超, 周震峰(14)

氯化锌造孔壳炭的制备及其吸附性能研究
..... 鲁秀国, 段建菊, 杨凌焱, 黄林长(19)

硅钙肥对水稻吸收铅、镉的影响研究
..... 贾倩, 胡敏, 张洋洋, 孟远夺, 李小坤, 丛日环, 任涛(24)

土壤特征对 Cr(VI)修复的动态土柱研究
..... 曹荣莉, 张弛, 李平, 吉晋兰(31)

氰乙基化废纸降解菌的筛选鉴定和复配初探
..... 孙永凡, 张春红, 李琴, 陈秋玲(37)

结构可控磁性 $\text{Co}_x\text{Cu}_{1-x}\text{Fe}_2\text{O}_4$ 对水中五氯苯酚的吸附研究
..... 孙梦圆, 崔春月, 吴娟, 王婧(43)

零价铝/酸/氧体系 H_2O_2 积累对降解活性黑 5 效果的研究
..... 吴倩云, 谢明阳, 杨怡, 朱荣, 韩秀茹, 邹华(49)

再生水补给型城市河流水质改善效果模拟
..... 王永刚, 王旭, 孙长虹, 李明蔚, 李焕利, 伍娟丽(54)

一体化 OCO 工艺脱氮除磷效果优化的 ORP 调控策略
..... 周慧芳, 刘正辉, 李德豪, 殷旭东, 毛玉凤(61)

柚皮改性吸附剂制备及对水中 Ni^{2+} 的吸附效果
..... 胡鸣鸣, 安燕, 徐萌飞(66)

相内循环厌氧反应器内颗粒污泥特性分析
..... 郑心愿, 董黎明, 汪革, 张艳萍, 李影影, 唐文涛(73)

再生水管壁菌株胞外聚合物提取及腐蚀性研究
..... 靳军涛, 管运涛(78)

基于烷烃指纹的混合油数字化鉴别研究
..... 王巧敏, 玛莎, 严志宇, 孙冰, 刘慧(83)

油泥气化资源化利用研究

..... 杨东元, 扈广法, 齐永红, 王燕, 姚彬(89)

高温改性凹凸棒土钝化城市污泥中重金属研究

..... 殷萌, 刘红, 刘梦佳, 汪茜, 张惠灵(93)

粉煤灰固化处理生活垃圾焚烧飞灰效果研究

..... 齐一谨, 徐中慧, 徐亚红, 蒋灶, 李萍, 李娜, 何志, 刘义梅(98)

Ru/TiO₂ 催化湿式氧化废离子交换树脂技术研究

..... 习成成, 桑培伦, 姜玲, 陈晓谋, 庞敏(104)

建筑垃圾和有机垃圾的海绵特征与生态应用

..... 曹林涛, 李玉奇, 余海忠, 梁英(110)

高分子有机膜亲水改性及光催化改性的研究进展

..... 詹巍, 张军, 左薇, 李宁, 孙志才, 田禹(114)

分子生态学技术用于反硝化微生物群落研究的进展

..... 张盛博, 何小娟, 吴海露, 王欣泽(120)

城市化、能源消费与中国二氧化硫排放的时空变化分析

..... 杨丹, 张辉国, 胡锡健(127)

典型背景区大气颗粒物中元素粒径分布特征

..... 王申博, 余飞, 燕启社, 王群, 姜楠, 尹沙沙, 张瑞芹(133)

基于 OMI 数据太原市 NO₂ 时空变化及影响因素分析

..... 赵瑞东, 刘旻霞, 李瑞, 张灿, 邵鹏(141)

北京近年地表风速和大气混合层厚度变化特征研究

..... 杜吴鹏, 房小怡, 黄宏涛, 程宸, 党冰, 邢佩(149)

基于聚类分析与偏最小二乘法的支持向量机 PM_{2.5} 预测

..... 喻其炳, 李勇, 白云, 姚行艳, 成志伟, 李川(157)

沙尘天气过程对呼和浩特市空气质量的影响

..... 张宝林, 张璟霞, 郭帅(165)

不同气象场对核电厂核素大气扩散的影响

..... 郭瑞萍, 杨春林, 张琼, 王博, 张春明(171)

基于卫片的限行对车辆密度及排放的影响研究

..... 孙改红, 樊守彬, 郭津津(179)

重庆市主城区成人人群环境暴露行为模式研究

..... 蔡锋, 周欢, 肖入峰, 陈刚才, 张晟, 王俭(184)

区域可持续发展能力综合评估方法与应用研究: 基于网络结构 DEA 模型

..... 朱卫未, 王海静(192)

中国台湾地区排污许可制度及其借鉴意义

..... 李丽平, 徐欣, 李瑞娟, 肖俊霞(201)

期刊基本参数: CN 42-1245/X*1978*m*A4*210*zh*P*¥25*5000*33*2017-06

本期责任编辑: 刘慕凡

CONTENTS

- Factor Sensitivity Analysis and Mechanisms Investigation of Bisphenol A Photodegradation in Water by UV Irradiation.....
.....LI Hongna, GUO Ping, WANG Yu, YE Jing, ZHU Changxiong(1)
- The Response of Phytoplankton to Nutrient Enrichment under Two Temperature in East Lake.....
.....ZHAO Xianfu, MA Peiming, LIU Guoxiang, HU Zhengyu(7)
- Preparation, Characterization and Adsorption Properties of Peanut-shells-derived Biochar.....
.....RAO Xiaoxiao, FANG Zhao, WANG Jianchao, ZHOU Zhenfeng(14)
- Preparation of Zinc Chloride Pore-forming Shell Carbon and Its Adsorption Performance.....
.....LU Xiuguo, DUAN Jianju, YANG Lingyan, HUANG Linzhang(19)
- Effect of Silicon-Calcium Fertilizer on Pb and Cd Absorption by Rice in Heavy Metal Polluted Farmland.....
.....JIA Qian, HU Min, ZHANG Yangyang, MENG Yuanduo, LI Xiaokun, CONG Rihuan, REN Tao(24)
- Dynamic Soil Column Research on the Influence of Soil Characteristics to Cr(VI) Remediation.....
.....CAO Rongli, ZHANG Chi, LI Ping, JI Jinlan(31)
- Screening, Identification and Mixed Culture of Cyanoethylated Wastepaper -decomposing Microorganisms.....
.....SUN Yongfan, ZHANG Chunhong, LI Qin, CHEN Qiuling(37)
- Synthesis and Characterization of Structure Controllable of Magnetic $\text{Co}_x\text{Cu}_{1-x}\text{Fe}_2\text{O}_4$ for Adsorption of Pentachlorophenol.....
.....SUN Mengyuan, CUI Chunyue, WU Juan, WANG Jing(43)
- Study of Hydrogen Peroxide Accumulation for Degradation of Reactive Black 5 in the Zero-valent Aluminum/Acid/Oxygen System.....
.....WU Qianyun, XIE Mingyang, YANG Yi, ZHU Rong, HAN Xiuru, ZOU Hua(49)
- Assessment of Water Environmental Control on Reclaimed Water Supply-type River.....
.....WANG Yonggang, WANG Xu, SUN Changhong, LI Mingwei, LI Huanli, WU Juanli(54)
- ORP Strategies for Optimizing Removals of Nitrogen and Phosphorus in Integral OCO Process.....
.....ZHOU Huifang, LIU Zhenghui, LI Dehao, YIN Xudong, MAO Yufeng(61)
- Preparation of Granulated Absorbent Modified by Pomelo Peel and Adsorption of Ni^{2+} in Water.....
.....HU Mingming, AN Yan, XU Mengfei(66)
- Physicochemical and Microbial Properties of Citric Acid Wastewater Anaerobic Granular Sludge in Multi-phase Internal Circulating
Anaerobic Reactor.....ZHENG Xinyuan, DONG Liming, WANG Ping, ZHANG Yanping, LI Yingying, TANG Wentao(73)
- Extraction Methods and Corrosion Characterization of Extracellular Polymeric Substances from Strain Attached on the Reclaimed
Wastewater Pipelines.....JIN Juntao, GUAN Yuntao(78)
- Digitization Identification Study of Mixed Oils Based on Alkane Fingerprints.....
.....WANG Qiaomin, MA Sha, YAN Zhiyu, SUN Bing, LIU Hui(83)
- Study on Treatment of Oil Sludge by Mixing with Coal Water Slurry.....
.....YANG Dongyuan, HU Guangfa, QI Yonghong, WANG Yan, YAO Bin(89)

Study on the Passivation of Heavy Metals in Municipal Sludge by Attapulgite Modified at High Temperature.....	.....YIN Meng, LIU Hong, LIU Mengjia, WANG Qian, ZHANG Huiling(93)
The Effect on Immobilization of MSWI Fly Ash with Coal Fly Ash.....	.....QI Yijin, XU Zhonghui, XU Yahong, JIANG Zao, LI Ping, LI Na, HE Zhi, LIU Yimei(98)
Catalytic Wet Air Oxidation with Ru/TiO ₂ Catalyst for Treating Spent Ion-exchange Resin.....	.....XI Chengcheng, SANG Peilun, JIANG Ling, CHEN Xiaomou, PANG Min(104)
Sponge Characteristics and Ecological Application of Construction Waste and Organic Waste.....	.....CAO Lintao, LI Yuqi, YU Haizhong, LIANG Ying(110)
Research Progress in Hydrophilic and Photocatalytic Modification of Organic Polymer Membrane.....	.....ZHAN Wei, ZHANG Jun, ZUO Wei, LI Ning, SUN Zhicai, TIAN Yu(114)
Advances in Molecular Ecology Technologies for the Study of Denitrifier Communities.....	.....ZHANG Shengbo, HE Xiaojuan, WU Hailu, WANG Xinze(120)
Analysis of Spatio-temporal Change in Urbanization, Energy Consumption and China's Sulfur Dioxide Emission.....	.....YANG Dan, ZHANG Huiguo, HU Xijian(127)
Size Distributions of Elements in Atmospheric Particulates of the Typical Background Region.....	.....WANG Shenbo, YU Fei, YAN Qishe, WANG Qun, JIANG Nan, YIN Shasha, ZHANG Ruiqin(133)
Spatio-temporal Variation of NO ₂ in Concentrated Taiyuan and Analysis of Influencing Factors Based on OMI Remote Sensing Data.....	.....ZHAO Ruidong, LIU Minxia, LI Rui, ZHANG Can, SHAO Peng(141)
Variation Characteristics of Surface Wind Speed and Atmospheric Mixing Layer Height in Recent Years in Beijing.....	.....DU Wupeng, FANG Xiaoyi, HUANG Hongtao, CHENG Chen, DANG Bing, XING Pei(149)
Support Vector Machine PM _{2.5} Concentration Prediction Based on K-means Clustering and Partial Least Square.....	.....YU Qibing, LI Yong, BAI Yun, YAO Xingyan, CHENG Zhiwei, LI Chuan(157)
Effects of Aeolian Dust on Air Quality in Hohhot.....	.....ZHANG Baolin, ZHANG Jingxia, GUO Shuai(165)
Impact of Different Meteorology Drive on Atmosphere Dispersion Prediction of Radionuclide from Nuclear Power Plant.....	.....GUO Ruiping, YANG Chunlin, ZHANG Qiong, WANG Bo, ZHANG Chunming(171)
The Influence of Traffic Restriction on Vehicle Density and Exhaust Emission Based on Satellite Images.....	.....SUN Gaihong, FAN Shoubin, GUO Jinjin(179)
Research on Environmental Exposure-related Activity Patterns of Adults in Urban Areas of Chongqing City.....	.....CAI Feng, ZHOU Huan, XIAO Rufeng, CHEN Gangcai, ZHANG Sheng, WANG Jian (184)
Comprehensive Evaluation Method and Application of Regional Sustainable Development Capacity: Perspective of Slack Based Network DEA.....	.....ZHU Weiwei, WANG Haijing(192)
Discussions on the Pollutant Discharge Permit System in Chinese Taipei and Its References.....	.....LI Liping, XU Xin, LI Ruijuan, XIAO Junxia(201)



加速淘汰含氢氯氟烃 HCFC ACCELERATED PHASEOUT

2009-2010

基线水平
2009-2010平均值
Baseline
Average of 2009 and
2010 levels

2013

冻结在基线水平
Freeze at baseline

2015

削减基线水平10%
10% reduction of baseline

2020

削减基线水平35%
35% reduction of baseline

2025

削减基线水平67.5%
67.5% reduction of baseline

HCFCs的生产和使用涉及化工、制冷空调、建筑保温、泡沫塑料以及医疗器械等行业的相关产品。加速淘汰HCFCs不仅对保护臭氧层意义重大，也会为减缓全球气候变化带来好处。

HCFC production and consumption involve products in a number of sectors, such as chemical production, refrigeration and air conditioning, building insulation, foam production and medical devices. By accelerating the phaseout of HCFCs, there are potentials for doubling benefits to the ozone and climate.

2030

削减基线水平97.5%
97.5% reduction of baseline

2040

2030-2040年间
允许保留年均2.5%的维修用途

Annual average of 2.5% of baseline
for servicing during 2030-2040

