

目 次

特别报道

关于印发《全国环境宣传教育行动纲要(2011—2015年)》的通知 环发[2011]49号 (I)
大气环境

田间原位开顶式臭氧熏蒸系统研究 ... 耿春梅, 杨文, 殷宝辉, 王宗爽, 刘红杰, 王效科, 王玮 (593)

机动车排放细微/超细颗粒物消光特性的 Mie 理论研究 朱春, 张旭 (601)

北京交通环境 PM_{10} 分布特征及重金属形态分析 钱枫, 杨仪方, 张慧峰 (608)

SHEDS-PM 模型模拟杭州市人群 PM_{10} 暴露水平 姜磊, 田伟利, 张清宇, 何一夫, 范良千, 虞波, 曹燕春 (615)

实验室发生纳米气溶胶吸湿性表征 ... 王轩, 陈建华, 陈建民, 叶兴南, 刘红杰, 王玮, 邓建国 (621)

运用单颗粒气溶胶质谱技术初步研究广州大气矿尘污染

..... 李梅, 李磊, 黄正旭, 董俊国, 傅忠, 周振 (632)

沈阳冬季灰霾日大气颗粒物元素粒径分布特征

..... 洪也, 马雁军, 李潮流, 刘宁微, 高少鹏, 张云海 (637)

珠三角一次重空气污染过程特征分析及数值模拟

..... 余纬, 罗羽, 范绍佳, 刘洁, 冯业荣, 樊琦 (645)

兰州市大气 PM_{10} 健康影响效应的可预报性探讨 肖正辉, 邵龙义, 张宁, 宋晓焱, 王静 (654)

洗涤法净化油烟污染物 廖雷, 魏建文, 覃爱苗, 赵非超, 张帮鸾, 刘慧婷 (659)

水环境

基于 RVI 分区的淀山湖蓝藻暴发期叶绿素 a 遥感估测 ... 顾万花, 马蔚纯, 周立国, 汤琳, 怀红燕 (666)

九龍江口湿地表层沉积物氮的形态分布特征 潘齐坤, 罗专溪, 邱昭政, 颜昌宙 (673)

土壤环境

万州老城区楼顶菜地土壤重金属污染特征 林俊杰, 王云智, 陈国祥, 付川, 李廷真, 李守军 (679)

环境污染与健康

燃煤 $PM_{2.5}$ 不同组分对血管内皮细胞的毒性 刘芳盈, 丁明玉, 王菲菲, 李杰 (684)

污染治理技术

复合制剂对富营养化水体中氮磷的去除效果 柏学凯, 王慧, 王文兴 (691)

不同 SBR 系统 N_2O 排放及微生物群落比较 朴哲, 陈新兵, 赵秀锦, 刘艳萍, 何成达, 殷士学 (698)

污泥与煤共热解制备吸附剂及其对活性艳红 X-3B 的吸附性能

..... 刘汉湖, 张双圣, 张双全, 罗鹏, 邱超 (704)

动态与信息

声明 (697)

Research of Environmental Sciences

Vol. 24 No. 6

June 2011

Contents

Study on an In-Situ Open-Top Fumigation Chamber System for Ozone Exposure in Field

... GENG Chun-mei, YANG Wen, YIN Bao-hui, WANG Zong-shuang, LIU Hong-jie, WANG Xiao-ke, WANG Wei(593)

Light Extinction Characteristics of Fine and Ultrafine Particles from Vehicle Exhaust Using Mie Theory

..... ZHU Chun, ZHANG Xu(601)

Distribution Characteristics and Speciation of Heavy Metals in PM₁₀ near Urban Road and Surrounding Areas of Beijing

..... QIAN Feng, YANG Yi-fang, ZHANG Hui-feng(608)

Modeling PM₁₀ Population Exposure in Hangzhou Using the Stochastic Human Exposure and Dose Simulation Model

..... JIANG Lei, TIAN Wei-li, ZHANG Qing-yu, HE Yi-fu, FAN Liang-qian, YU Bo, CAO Yan-chun(615)

Characterization of Hygroscopic Properties of Laboratory-Generated Nanometer Aerosols

..... WANG Xuan, CHEN Jian-hua, CHEN Jian-min, YE Xing-nan, LIU Hong-jie, WANG Wei, DENG Jian-guo(621)

Preliminary Study of Mineral Dust Particle Pollution Using a Single Particle Aerosol Mass Spectrometer (SPAMS) in

Guangzhou LI Mei, LI Lei, HUANG Zheng-xu, DONG Jun-guo, FU Zhong, ZHOU Zhen(632)

Elemental Size Distribution Characteristics of Atmospheric Particles on Hazy Days during Winter in Shenyang

..... HONG Ye, MA Yan-jun, LI Chao-liu, LIU Ning-wei, GAO Shao-peng, ZHANG Yun-hai(637)

Characteristics Analysis and Numerical Simulation Study of a Severe Air Pollution Episode over the Pearl River Delta

..... YU Wei, LUO Xu-yu, FAN Shao-jia, LIU Jie, FENG Ye-rong, FAN Qi(645)

Discussion of Predictability of the Impact on Human Health of Airborne PM₁₀ in Lanzhou City

..... XIAO Zheng-hui, SHAO Long-yi, ZHANG Ning, SONG Xiao-yan, WANG Jing(654)

Purification of Pollutants from Cooking Fumes by Washing

..... LIAO Lei, WEI Jian-wen, QIN Ai-miao, ZHAO Fei-chao, ZHANG Bang-luan, LIU Hui-ting(659)

RS Estimation of Chlorophyll-a Concentration Based on RVI Regionalization during Algae Blooming Period in

Dianshan Lake GU Wan-hua, MA Wei-chun, ZHOU Li-guo, TANG Lin, HUAI Hong-yan(666)

Distribution Characteristics of Nitrogen Forms in Surface Sediments of Jiulongjiang Estuary Wetland

..... PAN Qi-kun, LUO Zhuan-xi, QIU Zhao-zheng, YAN Chang-zhou(673)

Pollution Characteristics of Heavy Metals in Vegetable Garden Soils on the Roof of Buildings in the Old District of

Wanzhou City LIN Jun-jie, WANG Yun-zhi, CHEN Guo-xiang, FU Chuan, LI Ting-zhen, LAI Shou-jun(679)

Cytotoxicity of Different Compositions of Coal-Fired PM_{2.5} on Vascular Endothelial Cells

..... LIU Fang-ying, DING Ming-Yu, WANG Fei-fei, LI Jie(684)

Removal of Nitrogen and Phosphorus from Eutrophic Water by Complex Preparation

..... BAI Xue-kai, WANG Hui, WANG Wen-xing(691)

Comparative Analysis of N₂O Emissions and Microbial Communities from Different Sequencing Batch Reactor Systems

..... PIAO Zhe, CHEN Xin-bing, ZHAO Xiu-jin, LIU Yan-ping, HE Cheng-da, YIN Shi-xue(698)

Adsorptive Properties of an Adsorbent to Reactive Brilliant Red X-3B Prepared from Sludge and Coal by Co-Pyrolysis

..... LIU Han-hu, ZHANG Shuang-sheng, ZHANG Shuang-quan, LUO Peng, QIU Chao(704)