

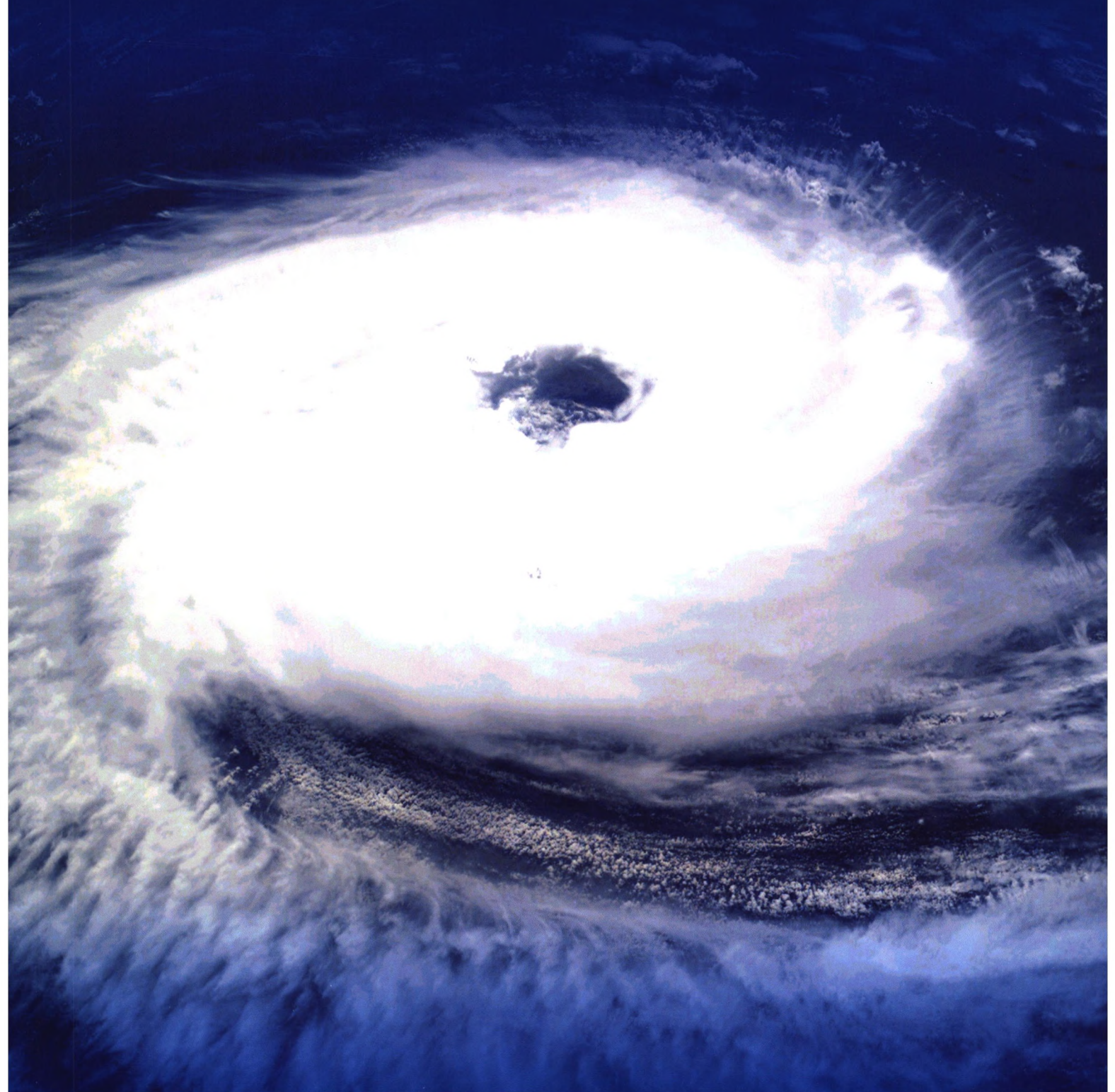


ACTA SCIENTIAE CIRCUMSTANTIALIA

万方知库
Eco-Environmental
Knowledge Web

环境科学学报

2019 Vol.39 No.11 第39卷 第11期



科学出版社
Science Press



中国科学院生态环境研究中心 主办



目 次

青岛沿海地区一次臭氧重污染过程的特征及成因分析 杨帆,王体健,束蕾,等 (3565)

基于 OMI 卫星数据和 MODIS 土地覆盖类型数据研究珠江三角洲臭氧敏感性 庄立跃,陈瑜萍,范丽雅,等 (3581)

一个沿海城市大气臭氧的本地生成过程及其对前体物的敏感性 马伟,王章玮,郭佳,等 (3593)

深圳市秋季大气 OH 自由基总反应性测量及其构成分析 刘硕英,李歆,沈翔森,等 (3600)

沿海地区不同来向气团中非甲烷挥发性有机物的组成特征研究 马伟,王章玮,郭佳,等 (3611)

北京市春季交通干道移动源非甲烷总烃的在线跟踪观测与特征分析 杜玥萱,曾立民,陈仕意,等 (3618)

安徽寿县黑碳气溶胶浓度观测分析研究 魏夏潞,王成刚,凌新锋,等 (3630)

“2+26”城市 2017 年冬防减排效果及其潜在原因分析——以衡水市为例 王海波,杨婷,王自发,等 (3639)

2013—2017 年成都冬季空气质量状况改善评估 王碧茵,廖婷婷,欧阳正午,等 (3648)

南京北郊秋冬季大气 PM_{2.5} 中水溶性有机碳的研究 曾兆荷,张海潇,赵云卿,等 (3659)

基于多采样点的南京市 PM_{2.5} 中的水溶性砷分析 刘欣,杨孟,李凤英,等 (3668)

上海不同功能区夏季 PM_{2.5} 中生物质燃烧贡献的解析 冯加良,毛文文,荆亮,等 (3677)

典型藻类生物质燃烧 PM_{2.5} 的排放特性及机制 刘建建,赵兵涛,费灵子,等 (3685)

方位聚散因子及其在 PM_{2.5} 浓度预报中的应用 蔺旭东,耿世刚,单磊敬,等 (3692)

超低排放燃煤电站二氧化硫的迁移和排放特征 赵毅,韩立鹏 (3702)

成都市典型非道路工程机械排气烟度分析 陈秋宇,周子航,邓也,等 (3709)

民用固体燃料燃烧大气污染物排放稀释采样器的研制与应用 谢岩,李兴华,杨凯强,等 (3716)

铜前驱体对 Cu/SSZ-13 催化剂选择性催化氧化 NH₃ 性能的影响 郭晶晶,李俊华,彭悦,等 (3724)

电厂烟气中 SO₂ 对活性炭吸附单质铅 (Pb⁰) 的影响机理 高正阳,刘晓硕,李昂,等 (3732)

基于硅酮母粒的两相分配气升式生物反应器处理氯苯废气的研究 阮静雯,黄瑾璟,罗宾,等 (3740)

燃烧温度对柴油固体颗粒物形貌及氧化特性影响的试验研究 王忠,贾茹,李瑞娜,等 (3748)

嗜根寡养单胞菌 DSM 14405^T 对高浓度 Cr(VI) 的抗性及其还原特性分析 吴诗敏,高婕,刘颖,等 (3755)

聚磷生物膜反应器磷负荷提升过程中微生物种群分析 章豪,冯鑫,单捷,等 (3764)

厌氧颗粒污泥合成纳米钡及强化降解双氯芬酸性能 王昕睿,郑宇,张昕,等 (3772)

污水生化出水有机物对氯贝酸臭氧降解的影响研究 韩月,任逸,翟姝,等 (3779)

活性炭的表面性质对 CeO₂/AC 催化臭氧氧化水中苯甲酸的影响机制 秦航道,肖榕,王勇,等 (3786)

纳米级 Pd/Fe@SiO₂ 复合颗粒对 2,4-DCP 的还原脱氯研究 杨鑫宇,吴杰,解帅,等 (3794)

TiO₂-PW₆ 复合催化剂光催化降解游离氰 吴晓飞,赵桑,龚焱,等 (3802)

微波辅助合成 γ-Fe₂O₃/花生壳磁性生物炭对水体中环丙沙星吸附的研究 张学良,徐建,占新华,等 (3811)

热活化过硫酸盐氧化降解水溶液中的抗生素卡巴多司和奥喹多司 李轶涵,姜恬,周旭,等 (3821)

水处理光电催化反应器内部结构优化布设机理探讨 李科程,李梦凯, JENSEN M. B., 等 (3832)

碳纳米管径向尺寸对碳纳米管自支撑膜孔隙结构及通量的影响 祝学东,董丹,马燕林,等 (3839)

相对速率法测量氯原子与几种酮类物质的反应速率常数 张永灏,俞辉,林晓晓,等 (3849)

千岛湖有色可溶性有机物光谱学特征及环境指示意义 李元鹏,石玉,张柳青,等 (3856)

不同离子条件对提取沉积物中水溶性有机质光谱特性的影响 晏彩霞,文鑫梅,杨雪,等 (3866)

城市河道沉积物中残留医用抗生素对反硝化潜势的抑制作用及机制 朱晓萌,代彬彬,严亚 (3877)

白洋淀喹诺酮类抗生素污染特征及其与环境因子相关性研究 申立娜,张璐璐,秦珊,等 (3888)

溶解性有机物对冰相中蒽和芘光降解的影响 薛爽,孙吉俊,关雪峰,等 (3898)

干化-干湿转化对鄱阳湖湿地土壤氮矿化的影响 王鹏,余小芳,熊小英,等 (3906)

京津冀及周边地区区域贸易隐含二氧化硫排放 索成,赵红艳,王鑫,等 (3916)

上海市典型地区环境空气可吸入颗粒物中重金属污染水平及健康风险评价 田俊杰,黄成,赵秀阁,等 (3924)

基于 DALYs 的北京市大气 PM_{2.5} 携带苯并[a]芘疾病负担研究 陈艳姣,晁思宏,刘建伟,等 (3932)

CONTENTS

Characteristics and mechanisms for a heavy O₃ pollution episode in Qingdao coastal area YANG Fan, WANG Tijian, SHU Lei, et al (3565)

Study on the ozone formation sensitivity in the Pearl River Delta based on OMI satellite data and MODIS land cover type products ZHUANG Liyue, CHEN Yuping, FAN Liya, et al (3581)

Sensitivity of ambient atmospheric ozone to precursor species and local formation process in a coastal city MA Wei, WANG Zhangwei, GUO Jia, et al (3593)

Measurement and partition analysis of atmospheric OH reactivity in autumn in Shenzhen LIU Shuoying, LI Xin, SHEN Xiangsen, et al (3600)

Characteristics of non-methane volatile organic compounds in coastal area from different air masses MA Wei, WANG Zhangwei, GUO Jia, et al (3611)

Mobile online-monitoring and characteristic analysis of non-methane hydrocarbon on main traffic road in Beijing in spring DU Yuexuan, ZENG Limin, CHEN Shiyi, et al (3618)

Observational study of black carbon at Shouxian in Anhui Province WEI Xialu, WANG Chenggang, LING Xinfeng, et al (3630)

Analysis of the effect of winter air pollution prevention and control in the “2+26” Cities in 2017 and its potential reasons: Taking Hengshui City as an example WANG Haibo, YANG Ting, WANG Zijia, et al (3639)

Assessment of the improvement of air quality situation in the winter of Chengdu from 2013 to 2017 WANG Bihan, LIAO Tingting, OUYANG Zhengwu, et al (3648)

The study of water-soluble organic carbon in PM_{2.5} during winter and summer in the northern suburb of Nanjing ZENG Zhaohe, ZHANG Haixiao, ZHAO Yunqing, et al (3659)

Analysis of water extractable arsenic species in PM_{2.5} in Nanjing based on multiple sampling sites LIU Xin, YANG Meng, LI Fengying, et al (3668)

Interpretation on biomass burning contributions to the summer PM_{2.5} at different sites in Shanghai FENG Jialiang, MAO Wenwen, JING Liang, et al (3677)

Emission characteristics and mechanism of PM_{2.5} from typical algae biomass combustion LIU Jianjian, ZHAO Bingtao, FEI Lingzi, et al (3685)

Azimuth convergence-diffusion factor and its application in PM_{2.5} concentration forecasting LIN Xudong, GENG Shigang, SHAN Leijing, et al (3692)

Migration and emission of sulfur trioxide in ultra-low emission coal-fired power plant ZHAO Yi, HAN Lipeng (3702)

Exhaust smoke analysis of typical non-road engineering machinery in Chengdu CHEN Qiuyu, ZHOU Zihang, DENG Ye, et al (3709)

Development and application of a dilution sampler for measuring air pollutants from residential solid fuel combustion XIE Yan, LI Xinghua, YANG Kaiqiang, et al (3716)

Effect of copper precursors on the catalytic performance of Cu/SSZ-13 catalysts for the selective catalytic oxidation of ammonia GUO Jingjing, LI Junhua, PENG Yue, et al (3724)

The effect of SO₂ on adsorption of element lead (Pb⁰) toward activated carbon in coal-fired power plants GAO Zhengyang, LIU Xiaoshuo, LI Ang, et al (3732)

Effect of silicone masterbatch on the removal of gaseous chlorobenzene in a two-phase partitioning airlift bioreactor RUAN Jingwen, HUANG Jinjing, POUDEL Rabin, et al (3740)

Experimental study on effects of combustion temperature on morphology and oxidation characteristics of diesel particles WANG Zhong, JIA Ru, LI Ruina, et al (3748)

The resistance of *Stenotrophomonas rhizophila* DSM 14405^T to high concentration of Cr(VI) and its reduction traits WU Shimin, GAO Jie, LIU Ying, et al (3755)

Microbial community analysis in a phosphorus biofilm reactor during enhanced phosphorus loading ZHANG Hao, FENG Xin, SHAN Jie, et al (3764)

In-situ formation and immobilization of biogenic nanopalladium into anaerobic granular sludge enhances diclofenac degradation WANG Xinrui, ZHENG Yu, ZHANG Xin, et al (3772)

Effect of effluent organic matter on ozonation for clofibric acid degradation HAN Yue, REN Yi, ZHAI Shu, et al (3779)

Effect of activated carbon surface properties on catalytic ozonation of benzoic acid in water with CeO₂/AC catalysts QIN Hangdao, XIAO Rong, WANG Yong, et al (3786)

Reductive dechlorination of 2,4-DCP by Pd/Fe@SiO₂ nanocomposites YANG Xinyu, WU Jie, XIE Shuai, et al (3794)

Photocatalytic degradation of free cyanide by TiO₂-PW₆ composite catalyst WU Xiaofei, ZHAO Shen, GONG Yan, et al (3802)

Adsorption of ciprofloxacin on magnetic γ-Fe₂O₃/peanut shell biochar prepared by microwave-assisted synthesis method ZHANG Xueliang, XU Jian, ZHAN Xinhua, et al (3811)

Thermally activated persulfate oxidation of antibiotics carbadox and olaquinox in aqueous solution LI Yihan, JIANG Tian, ZHOU Xu, et al (3821)

Mechanism study on the optimal layout of the internal structure of a photoelectrocatalytic reactor for water treatment LI Kecheng, LI Mengkai, JENSEN M. B., et al (3832)

Effect of radial diameter on pore structure and water flux of CNT self-supporting membrane ZHU Xuedong, DONG Dan, MA Yanlin, et al (3839)

Rate constants for gas-phase reactions of Cl atoms with a series of ketones by relative rate method ZHANG Yonghao, YU Hui, LIN Xiaoxiao, et al (3849)

Spectral characteristics and environmental significance of chromophoric dissolved organic matter in Lake Qiandao, a large drinking water reservoir LI Yuanpeng, SHI Yu, ZHANG Liuqing, et al (3856)

Effect of chemical ions on the spectral characteristics of water-soluble organic matter in sediment YAN Caixia, WEN Xinmei, YANG Xue, et al (3866)

The inhibition effects of residual antibiotics on denitrification in the urban river sediments ZHU Xiaomeng, DAI Binbin, YAN Ya (3877)

The occurrence and distribution of quinolones (QNs) and correlation analysis between QNs and physical-chemical parameters in Baiyangdian Lake, North China SHEN Lina, ZHANG Lulu, QIN Shan, et al (3888)

Effect of dissolved organic matter on the photodegradation of anthracene and pyrene in ice XUE Shuang, SUN Jijun, GUAN Xuefeng, et al (3898)

Effect of drying-rewetting on soil nitrogen mineralization in Poyang Lake Wetland WANG Peng, YU Xiaofang, XIONG Xiaoying, et al (3906)

Sulfur dioxide emission embodied in interregional trade among Beijing-Tianjin-Hebei and surrounding areas SUO Cheng, ZHAO Hongyan, WANG Xin, et al (3916)

Pollution and health risk assessment of heavy metals in the inhalable particulate matter in the typical areas, Shanghai TIAN Junjie, HUANG Cheng, ZHAO Xiuge, et al (3924)

Study on burden of disease attributable to ambient PM_{2.5}-bound BaP in Beijing based on DALYs CHEN Yanjiao, CHAO Sihong, LIU Jianwei, et al (3932)

《环境科学学报》第六届编委会名单

主 编: 曲久辉

副 主 编: 刘文清 杨志峰 彭永臻 袁志国 俞汉青 朱 彤 毕 军
王书肖

学术顾问: 汤鸿霄 郝吉明 陶 澍 江桂斌 傅伯杰 赵进才 贺克斌
张远航 彭平安

编 委: (按姓氏笔画排)

| | | | | | | |
|-----|-----|-----|-----|------|-----|-----|
| 马 军 | 王书肖 | 王金南 | 王学军 | 王建龙 | 王晓昌 | 王爱杰 |
| 文湘华 | 尹大强 | 毕 军 | 曲久辉 | 朱 彤 | 朱利中 | 全 燮 |
| 刘 永 | 刘文清 | 刘会娟 | 麦碧娴 | 杨 敏 | 杨志峰 | 吴丰昌 |
| 何晶晶 | 余 刚 | 张利田 | 陈同斌 | 欧阳志云 | 周启星 | 郑 华 |
| 郑君瑜 | 郑明辉 | 胡 春 | 胡勇有 | 俞汉青 | 袁志国 | 贾晓珊 |
| 黄 霞 | 崔宝山 | 彭永臻 | 潘 纲 | | | |

编辑部主任: 杨桂华

责任编辑: 卜庆杰 王 虎

环 境 科 学 学 报

(Huanjing Kexue Xuebao)

(月刊, 1981年创刊)

2019年11月 第39卷 第11期

ACTA SCIENTIAE CIRCUMSTANTIAE

(Monthly, Started in 1981)

Vol.39, No.11, November 2019

主 管 中国科学院
主 办 中国科学院生态环境研究中心
协 办 环境水质学国家重点实验室
北京师范大学环境学院
编 辑 《环境科学学报》编辑委员会
北京 2871 信箱 邮政编码 100085
电话: (010) 62941073
E-mail: hjkxxb@rcees.ac.cn
网址: www.actasc.cn
主 编 曲 久 辉
出 版 科 学 出 版 社
北京东黄城根北街 16 号
(邮政编码 100717)
印刷装订 北京宝昌彩色印刷有限公司
发 行 处 科学出版社
电话: 010-64017032, 64017539
国外总发行 中国国际图书贸易总公司
(北京 399 信箱, 100044)
出 版 日 期 每 月 26 日

Sponsored by Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences,
State key Laboratory of Environmental Aquatic Chemistry,
School of Environmental Sciences, Beijing Normal University
Edited by the Editorial Board of Acta Scientiae Circumstantiae
(P.O.Box 2871, Beijing 100085, China)
Editor-in-Chief Qu Jiuhui
Published by Science Press (16 Donghuangchenggen North Street Beijing 100717, China)
Distributed by Science Press Tel: 010-64034563, E-mail: journal@cspg.net
International distributed by China International Book Trading Corporation (Guoji Shudian)
(P.O.Box 399, Beijing 100044, China)

中国标准刊号: ISSN 0253-2468
CN 11-1843/X

CODEN: HKXUDL

国内邮发代号: 82-625

国外发行代号: M410

订购处: 全国各地邮政局

定价: 140.00 元

网上购买请扫以下二维码



ISSN 0253-2468

