



F5000

ISSN 1000-6923
CODEN ZHKEEI

中国环境科学

(ZHONGGUO HUANJING KEXUE)

CHINA ENVIRONMENTAL SCIENCE

第38卷

Vol.38

第4期

No.4

4

2018



中国环境科学学会

CHINESE SOCIETY FOR ENVIRONMENTAL SCIENCES

CHINA ENVIRONMENTAL SCIENCE

(monthly)

Volume 38 Number 4

April 20, 2018

CONTENTS

Air Pollution Control

- Sensitivity analysis of ozone in Beijing-Tianjin-Hebei (BTH) and its surrounding area using OMI satellite remote sensing data WU Wei-ling et al. (1201)
- Study on typical heavy pollution process and feedback effect in Beijing-Tianjin-Hebei region ZHANG Han-yu et al. (1209)
- Impact of sulfate and nitrate on black carbon aerosols at Nanjing in winter and summer YANG Yi-fan et al. (1221)
- The trend of persistent regional haze in Anhui Province and corresponding characteristics of aerosol pollution Shi Chun-e et al. (1231)
- Forecast of air quality pollutants' concentrations based on BP neural network multi-model ensemble method ZHANG Heng-de et al. (1243)
- Pollution characteristics and sources of metal elements in indoor and outdoor PM_{2.5} XU Yue et al. (1257)
- Study on the deposition law of indoor particulate matters based on dynamic mass equilibrium CONG Xiao-chun et al. (1265)
- The influences of template dodecylamine on CO₂ adsorption to Amine-modified HMS REN Jie et al. (1274)
- Experimental study of enhancement of demercuration from flue gas by calcium-based composite sorbent with non-thermal plasma treated BAI Li-yi et al. (1280)
- Influence of metal cations on catalytic oxidation of NO over high-silica zeolites ZHOU Fei-xiang et al. (1287)

Water Pollution Control

- Study on Fe(III) doped Mg/Al-LDO as nitrogen and phosphorus adsorbent WAN Jing-jing et al. (1295)
- Utilizing three step feed A/O process to treat comprehensive wastewater from hair product production cluster area XIAO Cai-lin et al. (1304)
- Classification analysis and biodegradability of dissolved organic matter in acrylic wastewater WANG Ya-e et al. (1312)
- Enhanced chromium removal by zerovalent iron with the presence of sulfate anion HU Yi-hong et al. (1318)
- The study on granular activated carbon to promote thermophilic anaerobic digestion PAN Yi-ran et al. (1324)
- The influence of bicarbonate and nitrate on the photolysis of diclofenac under UV irradiation LIU Yi-qing et al. (1329)
- Electrochemical adsorption of Zn²⁺ in wastewater by modified activated carbon felt LIANG Hong-xu et al. (1336)
- Photocatalytic degradation kinetics and mechanism of Norfloxacin using mesoporous g-C₃N₄ under visible-light irradiation WANG Ying-fei et al. (1346)
- Start-up and operation performance of anammox process enhanced by ultrasound irradiation ZHANG Dian-dian et al. (1356)
- Adsorption properties of magnetic chitosan hydrogel microspheres to Pb(II) from aqueous solutions PU Sheng-yan et al. (1364)
- Effects of ultrasound on the released amount of nitrogen and phosphorus and changes of water quality during blooms control TAN Xiao et al. (1371)
- Advanced treatment of bio-treated coking wastewater by coupling of ferrous-activated persulfate oxidation and activated carbon adsorption LIU Mei-qin et al. (1377)
- EDDS activated persulfate process enhanced by hydroxylamine hydrochloride for treatment of trichloroethylene in aqueous solution GU Xiao-gang (1385)

Solid Waste

- Effects of high temperature thermal hydrolysis process on changes of phosphorus forms in high-solid sewage sludge ZHOU Si-qi et al. (1391)
- Slope stability simulation of dry sludge pile in high-dimensional landfill operation MI Qiong et al. (1397)
- Adsorption of chlorinated hydrocarbons in landfill cover soil ZHAO Tian-tao et al. (1403)
- Leaching characteristics of heavy metals by landfill leachate from stabilized MSWI fly ash ZHAO You-jie et al. (1411)

Soil Pollution Control

- Remediation performance of constructed specific bacteria on petroleum hydrocarbon contaminated soil WANG Li-ping et al. (1417)
- The characteristic sorption of bisphenol A on sandy soil in northwest Sichuan YANG Hui-min et al. (1424)

Environmental Microbiology

- The pollution of MCR-1 and MCR-1 hosting bacteria in municipal wastewater treatment plants MA Ben et al. (1433)
- Study on the trans-membrane transport process of fluoranthene by *Rhodococcus* sp. BAP-1 LI Yi et al. (1441)
- Effects of artificial forest and grass on soil fungal community at southern Ningxia mountain ZHANG Shu-meng et al. (1449)
- Study on the anaerobic co-metabolic biodegradation of tetrabromobisphenol A CHEN Ying-wen et al. (1459)
- Isolation and identification of quinalofop-p-ethyl-degrading strain *Bacillus subtilis* H and its degradation characteristics HOU Ying et al. (1466)
- Screening of a chlorimuron-ethyl-degrading strain and chlorimuron-ethyl-contaminated soil bioremediation WANG Hai-lan et al. (1473)
- Bacterial communities in the estuarine sediment of Poyang Lake WANG Peng et al. (1481)

Environmental Ecology

- Distribution of volatile sulfur compounds in the East China Sea during spring SUN Ming-xin et al. (1490)
- Speciation and bioavailability of phosphorus in sediments (autumn) of Haizhou Bay GAO Chun-mei et al. (1499)
- The influence of the single benzo[a]pyrene pollution or combined pollution with cadmium on the distribution and accumulation of benzo[a]pyrene in subcellular fractions of *Eisenia fetida* ZHOU Li-na et al. (1510)
- The quantitative relation of aquatic parameters and phytoplankton biomass in the process of algal blooms—the case of Meiliang Bay in Taihu Lake GUO Wen-jing et al. (1517)
- The survival of *Microcystis* under the dark/anoxic condition and its secretion CHEN Gui-qin et al. (1526)
- The underground migration and distribution of petroleum contamination at a gas station ZHANG Hong-kai et al. (1532)

Environmental Toxicology and Health

- Health risk of PM_{2.5}-bound heavy metals for different age population in Beijing, China LIU Jian-wei et al. (1540)
- Assessment of human health risks of heavy metals in the typical sewage irrigation areas WANG Shi-yu et al. (1550)

Environmental Impact Assessment and Management

- Analysis on industry emission reduction of air pollutants based on HEM and price transmission influence coefficient MAO Guo-zhu et al. (1561)
- Life cycle inventory analysis of clean alternatives to scattered coal heating WU Juan-ni et al. (1570)
- Effect of ammonia emission from agriculture in Beijing-Tianjin-Hebei on PM_{2.5} CHENG Long et al. (1579)
- Methods and prospects of index of biological integrity used for China river ecological health assessment CHEN Kai et al. (1589)

《中国环境科学》第六届编辑委员会

主 编：王文兴

副 主 编：魏复盛 郝吉明

编 委：（按姓氏笔画为序）

马 中	孔海南	王文兴	王晓蓉	王树义	王金南
仇荣亮	白郁华	宁 平	汤鸿霄	汤 博	任阵海
任文堂	任南琪	全 燮	李毓湘	李广贺	李少萌
刘永定	朱利中	朱 坦	朱建平	许振成	张 懿
张 阳	張時禹	何兴舟	何品晶	吴启堂	吴德生
陈家宜	陈同斌	陈建民	周宜开	洪钟祥	胡洪营
赵进才	赵勇胜	赵建夫	郝吉明	郝芳华	骆永明
郭新彪	徐開欽	高宝玉	蔡道基	潘 纲	潘家华
魏复盛					

中国环境科学

ZHONGGUO HUANJING KEXUE

CHINA ENVIRONMENTAL SCIENCE

(月刊,1981年创刊)

2018年4月 第38卷 第4期

(Monthly, Founded in 1981)

Vol.38, No.4, April 2018

主 管 中国科学技术协会
主 办 中国环境科学学会
编辑出版 《中国环境科学》编辑委员会
北京市海淀区红联南村54号
邮编 100082
电话、传真 (010)62215145
主 编 王文兴
印刷装订 北京建筑工业印刷厂
国外发行 中国出版对外贸易总公司
(北京782信箱)
中国国际图书贸易总公司
(北京399信箱)

Responsible institution China Association for Science and Technology
Sponsored by Chinese Society for Environmental Sciences
Edited and Published by the Editorial Board of China Environmental Science (No.54, Hongliannancun, Haidian District, Beijing 100082, China)
Tel(Fax) 8610-62215145
Editor-in-chief Wang Wen-xing
Distributed by China National Publishing Industry Trading Corporation, P.O.Box 782 Beijing, China, Cable: CNPITC; China International Book Trading Corporation, P.O.Box 399 Beijing, China

刊 号 ISSN 1000-6923 国内邮发代号 2-572

CN11-2201/X

总 发 行 处 北京市报刊发行局

国外发行代号 BM6923T
BM5748

订 购 处 全国各地邮局
定 价 115.00元

ISSN 1000-6923

