



全国中文核心期刊
中国科技核心期刊

环境工程学报

Chinese Journal of Environmental Engineering



FUTURE

第9卷 第9期

Vol.9 No.9

中国科学院
生态环境研究中心
主办
科学出版社 出版

9
2015

目 次

水污染防治

紫外线消毒对3种大肠杆菌的灭活效果和耐药性影响	张崇森	庄凯	巨欣	王晓昌(4097)		
强化除磷型A/O-MBR工艺运行稳定性	任金柱	李军	王朝朝	刘彬	高金华	常江(4102)
超声波紫外线一体化推流式反应器中试装置用于污水消毒						
Ca ²⁺ 强化短程硝化颗粒污泥培养	郭浩	周琪	周晓琴	李子富	闫圆圆	靳昕(4107)
猪场废水厌氧自电解处理过程中关键参数优化	吕永涛	贾燕妮	鞠恺	赵洁	苗瑞	王磊(4112)
碳纳米管稳定纳米Fe ₃ O ₄ 的制备及降解染料橙II	王云	朱能武	沈伟航	李小虎	吴平霄(4117)	
湿式过氧化氢氧化活性艳蓝KN-R	贺玲	刘红玉	杨春平	邓景衡	李佳喜	谢建国(4125)
草皮缓冲带对洱海流域面源污染的削减效果					曾光明	王鹏(4131)
共培养条件下黄菖蒲和狭叶香蒲对铜绿微囊藻光合系统的影响					胡威	王毅力(4138)
Fenton试剂协同TiO ₂ 光催化降解三氯乙酸及协同机理	王芬	赵宝秀	李想	陈国元	李青松	谢莆尧(4145)
城市大型缓流景观水体流场模拟及人工循环水动力优化					李伟江	杨龙(4153)
短程硝化反硝化工艺处理低C/N餐厨废水	张周	赵明星	阮文权	贾泽宇	郑剑锋	孙力平(4159)
改性天然菱铁矿去除水中六价铬					缪恒锋	于静洁(4165)
2种载体对厌氧同步消化、反硝化的影响	冉春秋	邹学军	周晓倩	周晓倩	任洪艳	郭华明(4171)
基于有效去除铅(II)的中孔炭乙二胺改性与影响因素分析					崔玉波	赵凯(4178)
	杨芙蓉	李坤权	徐恩兵	乔小朵	潘根兴	周集体(4178)
城市污水处理过程中不同形态氮类营养物的转化特性					金鹏康	郑正(4185)
曝气对潜流人工湿地中木本植物的影响	陈永华	吴晓芙	纪智慧	陈国元	宋利	任武昂(4193)
变权组合模型在景观水体水质模拟中的应用					马群	陈明利(4199)
鱼菜共生系统氮素迁移转化的研究与优化	邹艺娜	胡振	张建	李想	赵加斌	彭森(4206)
基于虚拟治理成本法的生态环境损害量化评估	蔡锋	陈刚才	杨清玲	贾泽宇	谢慧君	梁爽(4211)
漂浮型可见光催化剂Fe-N-TiO ₂ /FP-CTS的制备及其对溶解性柴油的降解					赵士波	鲜思淑(4217)
	黄嘉瑜	王学江	卜云洁	张晶	马荣荣	吴飞(4217)
非晶态Co _{0.5} Ni _{0.5} Fe ₂ O ₄ 的制备及对水中五氯苯酚的吸附					崔春月	赵建夫(4223)
pH对同步硝化反硝化生物膜内溶解氧分布的影响					黄胜娟	宋姿蓉(4228)
稻壳制备介孔状二氧化硅的光催化性					荣宏伟	林孟霞(4233)
玉米秆碳源去除地下水硝酸盐					穆浩荣	张玲玲(4239)
提高低C/N值农村生活污水中TN的去除效果					李同燕	白淑琴(4239)
油田聚驱采出液乳化特性及其破乳·絮凝	翁艺斌	阎光绪	李敏	李文奇	胡伟武	冯传平(4245)
西安某人工湖水质时空分布特征及其荧光特性					王翔宇	周其胤(4252)
改性钙基蒙脱石酸性条件下吸附油酸钠	任瑞晨	张乾伟	石倩倩	翟星月	郭绍辉	杨远盛(4252)
天然沸石对海水中氨氮的吸附特性	王文华	赵瑾	张晓青	于佳真	王静	张佩佩(4259)
微孔曝气器脉冲式充氧效果	徐鹏	单继宏	成玉	王晓昌	于江忠	孟媛媛(4273)
厌氧、好氧、厌氧/好氧交替状态对活性污泥性质的影响					孙毅	李陆杨(4281)
城市人工湖的生态治理					李方	张建中(4287)
载钴催化剂的制备及对染料降解	徐后涛	赵风斌	田晴	薛涛	马春燕(4293)	
低温季大型表流湿地对微污染水体脱氮效果及优化运行	李洁冰	李玉龙	Asif Hussain	王玮	王丽卿	郑小燕(4300)
	左倬	仓基俊	朱雪诞	胡伟	李登新(4309)	
沸石负载高锰酸钾去除低浓度氨氮					商志清	卿杰(4314)
2-乙基蒽醌修饰石墨毡催化电极电化学降解土霉素废水二级出水					刘艳芳	李伟(4321)
	李贵霞	岳琳	潘贵芳	刘艳芳	李伟	李再兴(4326)
抗菌剂三氯卡班在水溶液中的光降解					冯振涛	刘大海津(4333)
磁性水滑石快速吸附水体中Cu(II)离子					张嘉超	汪应灵(4339)
零价铁对水中六价铬还原性能及沉淀污泥中铬的固定化	陈忠林	李金春子	沈吉敏	刘武娣	胡伟斌(4339)	
椰壳活性炭对水中N-DBP前体物的吸附					王斌远	樊磊涛(4345)
	李一凡				金腊华	周元(4353)

混凝和活性炭吸附深度处理制药废水中有机物去除特征	崔凤国	杨 鹏	张伟军	王东升(4359)		
Fenton 试剂氧化处理火炸药污染土壤淋洗液	薛江鹏	王建中	赵泉林	王中友	叶正芳(4365)	
微波法对吸附热息痛废水活性炭的再生	吴 坚	夏洪应	彭金辉	张利波	郑照强	张声渊(4371)
ES 稳定重金属污染底泥效果	蒋玉广	袁珊珊	杨 伟	梁静波	巢军委(4376)	
<i>Halothiobacillus neapolitanus</i> 脱硫性能及限制性因素影响			冯守帅	陈金才	杨海麟(4385)	
曝气速率对附加微通道湍流促进器 SMBR 流体动力学性能的影响			解 芳	王建敏	刘进荣(4391)	
H_2O_2/Fe^0 、 H_2O_2/Fe^{2+} 、 H_2O_2/Fe^{3+} 3 种体系处理印染废水			姚 兴	颜幼平	冯 霞(4398)	
以游泳馆污水为处理对象的 SBR 中不同污泥负荷下氨氧化菌群落的演变	薛士琼	孙宝盛	于凤庆	王明圆	李 晷	薛圆圆(4403)
环糊精改性蛭石对水中 Cr(VI) 的吸附			张太亮	吴 凤	阳 萍	欧阳铖(4409)
滤材的表面改性对淤泥脱水过程中渗透性能的影响			浩 婷	王 曦	周 颜	吴 燕(4415)
不同混凝剂处理低温低浊水					洪 云	徐 慧(4421)
SMBBR 工艺不同填料处理生活污水	李卫平	李 杰	朱浩君	杨文焕	敬双怡	殷震育

大气污染防治

煤矿井下高压喷雾化特性研究	王鹏飞	刘荣华	汤 梦	张 文	桂 哲(4433)
露天堆场防风抑尘网遮蔽效果的数值模拟			潘武轩	宋翀芳	何鸿展(4440)
TEPA/TETA 改性 SBA-15 对 CO_2 吸附性能的影响	魏建文		和凯凯	孟令硕	廖 雷(4447)
改性粉煤灰基吸附剂烟气脱汞	郑慧敏	刘清才	王 铸	孟 飞	牛德良(4453)
改性 Fe_2O_3 脱硫剂脱除 H_2S 反应特性	沈洪波	张 辉	刘应书	李皓琰	郝智天(4458)
一株鱼粉加工硫化氢恶臭气体脱除菌株的分离与鉴定			孙佩璇	娄永江	严小军(4465)
北京市近 12 年空气污染变化特征及其与气象要素的相关性分析	谢志英	刘 浩	唐新明	庄荣玉	张文君(4471)
循环灰加湿量对密相塔半干法脱硫效率的影响			韩剑宏	黄永海	李腾腾
折流式反应器空气净化效果			刘 鹏	郑 洁	卢熙宁
					童震松(4479)
					王小艳(4483)

固体废物处置

市政污泥干化动力学研究	范海宏	武亚磊	李斌斌	马 增(4488)	
响应曲面法优化 CO_2 活化制备夏威夷坚果壳基活性炭	程 松	张利波	彭金辉	周朝金(4495)	
胞外聚合物对生物浸出线路板金属粉末中铜的作用			杨 崇	朱能武	张声渊(4503)
微波超声协同处理废弃印刷线路板中非金属			蔡丽楠	殷 进	孔晓露(4509)
水淬钢渣碳酸化固定 CO_2	涂茂霞	雷 泽	吕晓芳	王丽娜	张桐
O_2/CO_2 气氛下市政污泥混煤燃烧及动力学特性			张军玲	陈德胜	齐 涛(4514)
提高硅钙渣胶凝活性的热活化实验			邵志伟	黄亚继	宋文婉
医疗废物处理中生物指示剂湿热灭菌动力学方程			杨志杰	孙俊民	严玉朋
三七渣固态发酵生产康宁木霉生防菌	谭显东	王君君	王 浪	靳登超	张战军
3 种畜禽粪便产气特性差异分析	陈 芬	李 伟	羊依金	李 阳	苗瑞平(4526)
黑曲霉固态发酵三七渣产纤维素酶	黄 凡	谭显东	刘奋武	鲍振博	刘 娜(4531)
常温下好氧颗粒污泥的形成过程及除污性能			胡 伟	孙俊民	覃璐琳(4535)
垃圾填埋场 HDPE 膜漏洞密度及其影响因素的统计分析			姚 力	信 欣	刘长奇(4519)
富集同型产乙酸菌污泥厌氧产酸			徐 亚	能昌信	任晓霞(4547)
			王 晋	李习伟	刘景财
					董 路(4558)
					刘 和(4565)

土壤污染防治

海泡石及其复配原位修复镉污染稻田	梁学峰	韩 君	徐应明	谭适娟	雷 勇	罗文军(4571)
水泥固封镉污染土离子释放规律与微观结构				董伟翠	陆海军	李继祥(4578)

环境生物技术

嗜酸氧化亚铁硫杆菌脱煤矸石中硫影响因素的筛选及条件优化	赵尚明	何 环	于忠琦	黄冠华	冷云伟	陶秀祥(4585)
高岭土固定 GY2B 优化其降解性能			李跃武	吴平霄	李丽萍	党 志(4591)

环境监测

成都市道路细颗粒物污染特征			袁小燕	叶芝祥	杨怀金	张 菊(4598)
基于远程图像色度的点源水质监测方法			隋迎光	彭吉友	罗学科(4603)	
海洋石油工程新型溢油监测系统的研究					刘志明	任 华(4609)

CONTENTS

Inactivation and antibiotic resistance variation of three <i>Escherichia coli</i> under ultraviolet disinfection	Zhang Chongmiao Zhuang Kai Ju Xin Wang Xiaochang(4097)
Running stability in enhanced phosphorus removal A/O-MBR	Ren Jinzhu Li Jun Wang Zhaozhao Liu Bin Gao Jinhua Chang Jiang(4102)
Wastewater disinfection by an integrated plug flow ultrasound/ultraviolet reactor	Guo Hao Zhou Zhen Zhou Xiaoqin Li Zifan Yan Yuanyuan Jin Xin(4107)
Strengthening cultivation of nitritation granular sludge by adding Ca²⁺	Lü Yongtao Jia Yanni Ju Kai Zhao Jie Miao Rui Wang Lei(4112)
Optimization of key parameters on anaerobic self-electrolysis reactor of swine wastewater	Wang Yun Zhu Nengwu Shen Weihang Li Xiaohu Wu Pingxiao(4117)
Synthesis of carbon nanotubes-stabilized nanometer Fe₃O₄ and its degradation of Acid Orange II	Deng Jingheng Li Jiaxi Yu Kanping Xie Jianguo(4125)
Wet peroxide oxidation of Reactive Blue KN-R	He Ling Liu Hongyu Yang Chunping Peng Yanrong Zeng Guangming Wang Peng Liu Fen(4131)
Reduction effect of non-point pollution in Erhai Lake Basin through sward buffer strips	Hu Wei Wang Yili Chu Zhaocheng(4138)
Effect of <i>Iris pseudacorus</i> L. and <i>Typha angustifolia</i> L. on photosynthesis of <i>Microcystis aeruginosa</i> in co-cultivation	Chen Guoyuan Li Qingsong Xie Puyao Chen Yanhong(4145)
Synergistic degradation and mechanism of chloroacetic acid by TiO₂ photocatalytic reaction cooperated with Fenton reagent	Wang Fen Zhao Baoxiu Li Xiang Li Weijiang Yang Long(4153)
Flow field simulation and hydrodynamic optimization of urban large slow-moving water body	Jia Zeyu Zheng Jianfeng Sun Liping Yu Jingjie(4159)
Short-cut nitrification and denitrification process for treating low C/N food wastewater	Zhang Zhou Zhao Mingxing Ruan Wenquan Miao Hengfeng Ren Hongyan Huang Zhenxing(4165)
Removal of hexavalent chromium from water solution by modified natural siderite	Zhou Xiaojian Guo Huaming Zhao Kai(4171)
Effect of two types of carrier on anaerobic simultaneous digestion and denitrification	Ran Chunqiu Zou Xuejun Fan Liming Cui Yubo Zhou Jiti(4178)
Ethylenediamine modification on mesoporous carbons and its influencing factors for removal of lead (II)	Yang Meirong Li Kunquan Xu Enbing Qiao Xiaoduo Pan Genxing Zheng Zheng(4185)
Transformation characteristics of different forms of nitrogen nutrients in process of wastewater treatment	Jin Pengkang Song Li Ren Wuang(4193)
Influence of woody plants on a subsurface-flow constructed wetland system under aerated condition	Chen Yonghua Wu Xiaofu Ji Zhihui Ma Qun Chen Mingli(4199)
Application of combination model of variable weight in landscape water quality simulation	Zhao Jiabin Zhao Xinhua Peng Sen(4206)
Investigation and optimization of nitrogen transformations in aquaponics	Zou Yina Hu Zhen Zhang Jian Xie Huijun Liang Shuang(4211)
Quantitative assessment of eco-environmental damage based on virtual disposal cost approach	Cai Feng Chen Gangcai Peng Feng Yang Qingling Zhao Shibo Xian Sishu Wu Fei(4217)
Preparation of floating visible-light photocatalyst Fe-N-TiO₂/FP-CTS and its application in degradation of dissolved diesel oil	Huang Jiayu Wang Xuejiang Bu Yunjie Zhang Jing Ma Rongrong Zhao Jianfu(4223)
Synthesis of amorphous Co_{0.5}Ni_{0.5}Fe₂O₄ for adsorption of pentachlorophenol in aqueous solution	Sun Mengyuan Cui Chunyue Wu Juan Song Zirong(4228)
Effect of pH value on distribution of dissolved oxygen (DO) during simultaneous nitrification and denitrification (SND) in biofilm	Huang Shengjuan Rong Hongwei Lin Mengxia(4233)
Preparation of mesoporous silica from rice husk and its photocatalysis properties	Mu Haorong Zhang Lingling Bai Shuqin(4239)
Performances of bio-denitrification using maize stalks as carbon source for nitrate-contaminated groundwater in-situ remediation	Li Tongyan Li Wenqi Hu Weiwei Feng Chuaping(4245)
Enhancement of TN removal efficiency of rural sewage with low C/N ratio	Kuang Wu Wang Xiangyu Zhou Qiyin Yang Yuansheng(4252)
Emulsification properties and demulsification flocculation treatment of oilfield polymer flooding produced liquid	Weng Yibin Yan Guangxu Li Min Zhai Xingyu Guo Shaohui Zhang Peipei(4259)
Distribution of water quality in time and space and fluorescence characteristics in an artificial lake of Xi'an	Yu Jiazheng Wang Xiaochang Xue Tao Chen Rong(4265)
Sodium oleate adsorption by modified Ca-montmorillonite under acid condition	Ren Ruichen Zhang Qianwei Shi Qianqian Li Caixia Wang Xiulan Meng Yuanyuan(4273)
Adsorption properties of ammonium nitrogen in seawater by natural zeolite	Wang Wenhua Zhao Jin Zhang Xiaoqing Cheng Yu Wang Jing Zhang Yushan Li Luyang(4281)
Performance of impulse-type fine bubble aerator	Xu Peng Shan Jihong Jin Xiaohang Yu Jiangzhong Sun Yi Zhang Jianzhong(4287)
Impact of anaerobic, aerobic, and alternative anaerobic-aerobic operating conditions on sludge characteristics	Yang Bo Shan Xiaoming Tian Qing Li Fang Ma Chunyan(4293)
Ecological management of urban artificial lake	Xu Houtao Zhao Fengbin Zhang Wei Wang Liqing Zheng Xiaoyan(4300)
Synthesis of graphene-cobalt hydroxide and its performance in degradation of dye	Li Jiebing Li Yulong Asif Hussain Wang Jin Li Dengxin(4309)
Effect of nitrogen removal of a large surface-flow constructed wetland treating micro-polluted water under low temperature seasons and operation optimization	Zuo Zhuo Cang Jijun Zhu Xuedan Cheng Bixin Hu Wei Shang Zhiqing Qing Jie(4314)
Low concentration ammonia nitrogen removal by modified zeolite with potassium permanganate	Guo Hua Wang Junlin Zhang Xiaoyan Wang Na Liu Junliang(4321)
Electrochemical degradation of secondary effluent of oxytetracycline wastewater with graphite-felt electrode modified by 2-ethyleanthraquinone	Li Cuixia Yue Lin Pan Guifang Liu Yanfang Li Wei Li Zaixing(4326)
Photodegradation of antimicrobial triclocarban in aqueous systems	Feng Zhentao Liu Haijin Wang Yingling Feng Jiahao(4333)
Rapid adsorption of Cu (II) ion from water by magnetic hydrotalcite	Zhang Qi Luo Lin Zhang Jiachao Liu Wuchang Hu Weibin(4339)
Reduction of aqueous Cr(VI) by zero-valent iron (ZVI) and solidification of chromium-containing precipitation produced in reduction process	Chen Zhonglin Li Jinchunzi Shen Jimin Wang Binyuan Fan Leitao(4345)

Adsorption of N-DBP precursor substance in water using cocoanut shell activated carbon	Zhang Yifan Jin Lahua Zhou Yuan(4353)
Removal characteristics of organic contaminants of pharmaceutical wastewater in advanced treatment with coagulation and PAC adsorption	Cui Fengguo Yang Peng Zhang Weijun Wang Dongsheng(4359)
Treatment of explosive contaminated soil eluent by Fenton reagent oxidation	Xue Jiangpeng Wang Jianzhong Zhao Quanlin Wang Zhongyou YeZhengfang(4365)
Microwave regeneration of spent activated carbon adsorption paracetamol wastewater	Wu Jian Xia Hongying Peng Jinhui Zhang Libo Zheng Zhaoqiang Zhang Shengzhou(4371)
Effect of ES in heavy metals contaminated sediment	Jiang Yuguang Yuan Shanshan Yang Wei Liang Jingbo Chao Junwei(4376)
Desulfurization performance of <i>Halothiobacillus neapolitanus</i> and effects of restrictive factors	Feng Shoushuai Chen Jincai Yang Hailin(4385)
Effects of aeration rate on hydrodynamic performance of SMBR equipped with micro-channel turbulence promoters	Xie Fang Wang Jianmin Liu Jinrong(4391)
Treatment of printing and dyeing wastewater by three systems of H_2O_2/Fe^0 , H_2O_2/Fe^{2+} and H_2O_2/Fe^{3+}	Yao Xing Yan Youping Feng Xia(4398)
Evolution of ammonia oxidizing bacteria community for swimming pool water treatment object of SBR under different sludge loading	Xue Shiqiong Sun Baosheng Yu Fengqing Wang Mingyuan Li Kai Xue Yuanyuan(4403)
Cr(VI) adsorption from water using vermiculite modified by β -cyclodextrin	Zhang Tailiang Wu Feng Yang Ping Ou Yangcheng(4409)
Effects of modified filter cloth on permeability of dredged sludge in dewatering process	Hao Ting Wang Xi Zhou Yan Wu Yan(4415)
Treatment of raw water with low turbidity and low temperature using different coagulants	Hong Yun Xu Hui(4421)
Treatment of domestic sewage by SMBBR process with different fillers	Li Weiping Li Jie Zhu Haojun Yang Wenhuan Jing Shuangyi Yin Zhenyu Liu Yan(4427)
Study on atomization characteristics of high pressure spray in underground coal mines	Wang Pengfei Liu Ronghua Tang Meng Zhang Wen Gui Zhe(4433)
Numerical simulation of shelter effect of porous fence in open storage piles	Pan Wuxuan Song Chongfang He Hongzhan(4440)
Effects of TEPA/TETA-modified SBA-15 on CO_2 adsorption properties	Wei Jianwen He Kaikai Meng Lingshuo Liao Lei(4447)
Flue gas demercuration by modified fly ash based absorbent	Zheng Huimin Liu Qingcui Wang Zhu Meng Fei Niu Deliang(4453)
Reaction characteristics of removal of H_2S by modified Fe_2O_3 desulfurizer	Shen Hongbo Zhang Hui Liu Yingshu Li Haoyan Zhang He Hao Zhitian(4458)
Isolation and identification of a bacteria strain for desulfurization of hydrogen sulfide from feed-fishmeal processing	Sun Peixuan Lou Yongjiang Zhuang Rongyu Yan Xiaojun(4465)
Air pollution variation characteristics and its correlation with meteorological data in Beijing in recent 12 years	Xie Zhiying Liu Hao Tang Ximming Li Tengteng Zhang Wenjun(4471)
Effect of humidification of circulating ash on desulfurization efficiency in dense flow semidry flue gas absorber	Han Jianhong Huang Yonghai Lu Xining Tong ZhenSong(4479)
Degradation performance of formaldehyde in a baffling air purifier	Liu Peng Zheng Jie Song Xuerui Wang Xiaoyan(4483)
Investigation of drying kinetic of municipal dewater sewage sludge	Fan Haihong Wu Yalei Li Binbin Ma Zeng(4488)
Preparation of activated carbon from Hawaii nut shell via CO_2 activation using response surface methodology	Cheng Song Zhang Libo Xia Hongying Peng Jinhui Zhang Shengzhou Zhou Chaojin(4495)
Extracellular polymeric substances' role in bioleaching copper from metal concentrates of waste printed circuit boards	Yang Chong Zhu Nengwu Cui Jiaying Wu Pingxiao(4503)
Synergistic effects of microwave and ultrasound for treatment of non-metallic waste printed circuit board	Cai Linan Yin Jin Zhang Tong Kong Xiaolu(4509)
Carbon dioxide sequestration using water quenched steel slag	Tu Maoxia Lei Ze Lü Xiaofang Zhao Hongxin Wang Lina Zhang Junling Chen Desheng Song Wenwan Qi Tao(4514)
Co-combustion and kinetic characteristics of municipal sludge waste and coal under O_2/CO_2 atmosphere	Shao Zhiwei Huang Yaji Yan Yupeng Liu Changqi(4519)
Thermal activation experiments on improving cementitious activity of silicate-calcium slag	Yang Zhijie Sun Junmin Zhang Zhanjun Miao Ruiping(4526)
Kinetic equation of biological indicator for moist heat sterilization in medical waste treatment	Jin Dengchao Li Yang Bao Zhenbo Liu Na(4531)
<i>Trichoderma koningii</i> biocontrol agent production from notoginseng residues by solid state fermentation	Tan Xiandong Wang Junjun Wang Lang Yang Yijin Guo Junyuan Peng Lan Qin Lulin(4535)
Gas-producing variance analysis of different animal manures	Chen Fen Li Wei Liu Fenwu Zhang Wuping Li Xiaomei Bu Yushan(4540)
Cellulase production from soild-state fermentation of notoginseng residues by <i>Aspergillus niger</i>	Huang Fan Tan Xiandong Hu Wei Yang Yijin Lin Qiaoyu Ren Xiaoxia(4547)
Formation process of aerobic granular sludge under normal temperature and its decontamination performance	Yao Li Xin Xin Guo Yi Song Huan Li Jiao(4553)
Statistical analysis on density of accidental-hole in landfill liner system	Xu Ya Nai Changxin Liu Yuqiang Liu Jincai Dong Lu(4558)
Optimizing anaerobic acidogenesis from sludge of enrichment homoacetogens	Wang Jin Li Xiwei Fu Bo Yang Yan Liu He(4565)
In-situ remediation of Cd polluted paddy soil using sepiolite and combined amendments	Liang Xuefeng Han Jun Xu Yingming Tan Shiju Lei Yong Luo Wenjun(4571)
Ion release and microstructure of Cd-polluted clay solidified by cement	Dong Yiqie Lu Haijun Li Jixiang(4578)
Factor screening and condition optimization of desulfurization of coal gangue with <i>Acidithiobacillus ferrooxidans</i>	Zhao Shangming He Huan Yu Zhongqi Huang Guanhua Leng Yunwei Tao Xiuxiang(4585)
Optimizing degradation performance of GY2B fixed by kaolinite	Li Yuewu Wu Pingxiao Li Liping Dang Zhi(4591)
Characteristics of fine particles in urban road atmospheric environment in Chengdu	Yuan Xiaoyan Ye Zhixiang Yang Huajing Zhang Ju(4598)
Water quality monitoring method of point source based on colorimetric of remote image	Li Wen Yang Shoubo Luo Xueke(4603)
Research on new oil spill monitoring system of offshore oil engineering	Sui Yingguang Peng Jiyou Liu Zhiming Ren Hua(4609)