



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



第8卷 第9期

Vol.8 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
2014

目 次

水 污 染 防 治

西北典型村镇集雨窖水水质变化及特性	武福平	夏 传	王艳琴	刘 双	张国珍	杨 浩(3541)	
铁铝复配混凝剂处理低温低浊水	谢 菁	陈有军	毕 哲	王东升	段晋明(3546)		
利用微藻同步实现 CO ₂ 生物固定与养殖废水脱氮除磷	赵 云	陈家城	沈 英	王 鶯	徐新苗(3553)		
氯化铁混凝剂中亚铁含量对混凝效果的影响	谢经良	张艳文	李常芳	彭 忠	王福浩(3559)		
流态对活性污泥硝化性能及菌群结构的影响	于莉芳	潘瑞玲	彭党聪	裴立影	郭 瑜	王彬斌(3563)	
矿渣制备的无机复合絮凝剂在城市污水深度除磷中的应用	章文琴	李 眇	李柏林	赵建博	宋梦婷(3567)		
UASB 处理硫酸盐有机废水的启动	蒋永荣	刘可慧	刘成良	王春锋	韦添尹	伍耀婵(3572)	
辉光放电等离子体氧化降解水中邻苯二甲酸二丁酯	王 蕾	李国新	李岱霖	杨夏伟	林碧玲(3577)		
鸟粪石法回收制肥工业废水中氨氮的中试研究			平 倩	陈静霞	李咏梅(3585)		
发酵类抗生素废水处理工艺及运行效果	左陆坤	姚 宏	李华宇	田 盛	刘苗苗(3591)		
排口比对污泥淤砂分离器分离效能的影响	晏 鹏	吉芳英	王 静	范剑平	颜达超(3596)		
絮凝-Fenton 试剂氧化处理印染废水	薛 懂	李长波	张洪林	刘邓超	姜虎生		
温度对阶段培养法建立高盐生物系统的影响				傅金祥	李 夏(3601)		
污泥基活性炭催化臭氧氧化对氯苯甲酸效能				李 璐	张立秋(3613)		
表面活性剂改性 4A 分子筛对 Cr(VI) 的吸附行为				吴文炳	陈建华(3620)		
研石基 X 型分子筛对水中 Co ²⁺ 、Cu ²⁺ 、Cd ²⁺ 和 Cr ³⁺ 的去除	陈建龙	卢新卫	张萌萌	徐 雪	赵 妮(3625)		
微氧折流反应器中产甲烷菌的分布与群落结构分析	叶 飞	王 雨	张 红	宋立岩	吴胜军(3633)		
电絮凝过程处理含铬废水的工艺及机理	刘玉玲	陆 君	马晓云	李 艳	林生岭(3640)		
好氧颗粒污泥降解苯酚				李 军	李 佟(3645)		
可见光光电-Fenton 体系中 TiO ₂ 薄膜电极的制备及应用				王昌稳			
次级河流水污染事件应急处置程序及环境损害评估技术路线	彭振波	喻泽斌	孙玲芳	王 莉	蒋茜茜	文 航(3651)	
臭氧/活性炭联合工艺深度处理焦化废水	蔡 锋	李新宇	陈刚才	杨清玲	周贤杰	王 俭(3658)	
活性污泥法处理高钙废水中污泥特性的变化				杨德敏	袁建梅	夏 宏(3665)	
麦秆黄原酸酯对水中 Cu(II) 的吸附	陈俊豪	李远瞩	李彦明	张 涛	樊艳丽	孔秀琴	牛佳雪(3670)
混凝沉淀法处理含砷选矿废水	严 群	桂勇刚	周娜娜	李国学	高茹英	刁剑雄	孙 英(3675)
非溶解态物质对苏州市景观水体表观污染的影响				徐 晶	余 洋	罗仙平(3683)	
Fenton 氧化与铁炭微电解组合预处理 DMF 废水				陈 鸣	潘 杨	黄 勇(3689)	
合肥市南淝河不同排口表层沉积物磷形态分布特征				杜海霞	王亚娥	李 杰(3695)	
Fenton 法处理垃圾渗滤液 MBR-NF 浓缩液				沈 烨	杨长明	杨殿海(3704)	
人工湿地净化造纸废水尾水及优势植物筛选	张水丽	范立维	陈嫩清	许玉东	范良鑫	黄友福(3711)	
好氧颗粒污泥对膜生物反应器污泥性能的影响				黄晓芬	赵 煒	海热提(3718)	
城市污水再生氯消毒过程中 HAAs 生成及迁移转化	宋志伟			曹雯雯	王秋旭	王丽燕(3725)	
基于人工神经网络和遗传算法研究锰过氧化酶脱色甲基橙	成嘉蕾			韩 芸	王冬梅	赵 凯(3731)	
内源电子受体产生及其在抑制富磷剩余污泥释磷行为中的应用				李慧星	张建华	毛忠贵(3737)	
长纤维过滤器过滤过程的数值模拟	柳忠彬	王 欢	曾 涛	李 维	杨永哲(3743)		
改性松针对水体中铅(II) 的吸附		李红萍	刘利娥	张 杰(3749)			
掺 Al-TiO ₂ 改性膨润土去除微污染水中 COD 和 NH ₄ -N			吴光锋	刘国际(3755)			
Fe ²⁺ 活化过硫酸钠降解 1,2-二氯苯	王继鹏	胡林潮	虞敏达	聂锦旭	陈仕稳(3761)		
低污泥产量印染废水处理工艺与运行条件			李定龙	尹 勇	刘 宇(3767)		
花生壳活性炭对水溶液中 Cr(VI) 的吸附性能	李章良	崔芳芳	杨苗麟	王学华	王 浩(3773)		
冬季生态浮床对浮游藻类数量及生物多样性的影响	王端超	何淑琼	赫三毛	黄 勇	李佳议(3778)		
包埋氨氧化细菌处理合成氨工业废水			王 娟	张秋卓	徐亚同(3785)		
负载铁分子筛催化 H ₂ O ₂ 对活性艳蓝的脱色	李辉军		吴亚杰	戴 昕	安立超(3791)		
红枫湖底泥磷负荷释放	黄 威	刘定富	王正芳	徐 杰	吴慧芳	刘翠云(3797)	
适宜处理分散性生活污水的人工湿地除磷填料的筛选及改性	陆爽君	王家齐	张建华	张继彪	郑 正(3802)		
			吴 鹏	陈重军	沈耀良(3807)		

酸改性泥炭对含亚甲基蓝废水的吸附净化作用	张纯	汪爱河	张伟	汪彩文(3813)			
好氧颗粒污泥自生动态膜生物反应器处理碱减量印染废水	金诚	杨波	李方	田晴(3819)			
气封壁高浓度有机污染物超临界水氧化处理系统	陈忠	王光伟	陈鸿珍	殷逢俊	徐愿坚(3825)		
MBR 处理低浓度稠油废水	全坤	蔺爱国	宋启辉	魏新华	刘国庆	孙晓霞	刘国廷(3832)
越南伯克霍尔德菌降解水中微囊藻毒素-LR			王菲凤	吴衍	高滢	陈祖亮(3837)	
铁碳微电解预处理汽车电泳涂装废水				吴傲立	鲍建国	龚珞军(3843)	
离子液体负载型分子筛的制备及对染料的吸附			李贞玉	唐存国	胡爽	王成静(3848)	
柚子皮制备生物炭吸附苯酚的特性和动力学					何秋香	陈祖亮(3853)	

大气污染防治

一种新型吸收剂吸收油气效果与影响因素分析	王文捷	黄维秋	石莉	郑宗能(3860)			
柴油机微粒中可溶性有机成分的真空干燥条件	闫妍	孟忠伟	干平	陈鹏(3865)			
黑麦草根际强化微生物净化甲苯			武朦	徐仲均(3871)			
二氧化钛脱除高温烟气中的氯化氢	刘惠	孔丝纺	刘阳生	曾辉	李占宇	郭彦蓉(3875)	
基于指标规范值的室内空气客观评价的概率神经网络模型				张小丽	李祚泳	汪嘉杨(3881)	
湿法烟气脱硫系统的脱汞性能现场实验		高正阳	吴培昕	陈嵩涛	范元周	殷立宝(3887)	
氨基咪唑类甲醛捕获剂去除人造板中游离甲醛			李霄	牛茂斐	曲文英	牛美菊(3893)	
基于正交实验的颗粒移动床烟气脱硫工艺参数优化	闫东杰	柳青	黄学敏	刘党生	杨全	马超杰(3899)	
酸性洗涤塔-生物滤塔-生物曝气池组合工艺处理恶臭气体 NH ₃ 和 H ₂ S	田凤蓉	张彬彬	杨志林	王开春	胡聪	王克云	袁丽娟(3905)

固体废物处置

高含固厌氧消化污泥流变特性		戴晓虎	盖鑫	董滨(3912)			
垂序商陆茎叶收获物“水热液化”脱除重金属及生物质转化	邓自祥	杨建广	李竣源	张绪亮(3919)			
碱解+低温水热预处理改善剩余污泥中温厌氧消化性能工艺	宜慧	韩芸	李玉友	卓杨	彭党聪(3927)		
不同粒径炉渣对磷的静态吸附	吴丽萍	徐晓瑛	文科军	古金霞	曹文	李庆波(3933)	
PAM 对制药污泥脱水性能改善及毒性削减	裴晋	于晓华	姚宏	王辉	马岚茜娅(3939)		
废弃印刷线路板非金属热解动力学	殷进	李光明	贺文智	阮菊俊	朱曙光(3946)		
铁镁质尾矿中的钙镁浸取效果优化	张丽君	袁旭音	王兵	韩磊	陈海龙(3951)		
准好氧填埋工艺陈腐垃圾的理化特性变化规律	张志彬	岳波	王宁	孙英杰	李海玲(3959)		
流化床中污泥干燥特性	邵志伟	黄亚继	严玉朋	杨高强	伏启让(3965)		
不同调理剂对微生物降解餐厨垃圾的影响	邵晨	于鑫	蒋平	田兴军(3971)			
猪粪堆肥中铜锌与腐殖质组分的结合竞争	黄红丽	罗琳	王寒	袁宇	张嘉超(3978)		
3 种含铁材料对重金属和砷复合污染底泥稳定化处理	雷鸣	曾敏	胡立琼	周航	廖柏寒	唐彬	龙水波(3983)
高铝粉煤灰提取氧化铝后硅钙渣用作水泥混合材		杨志杰	孙俊民	张战军	叶家元	苗瑞平(3989)	
NID 半干法脱硫灰生产蒸压砖中试实验研究	苏清发	蒋亚兵	吴慕正	赵忠仁	孙海林	马付明(3996)	
船舶塑料垃圾热解特性及动力学分析			曾广博	马晓茜	吴婕	陈新恩(4001)	
筛分法和显微镜法对矿化垃圾粒径分布的比较				刘辉	史学峰	李丽珍(4007)	
电镀污泥的热处理特性以及对金属回收的影响			陈娴	陆金	殷燕	程洁红(4012)	
磷石膏中杂质及预处理对 α 半水石膏性能的影响				丁萌	李建锡	李兵兵(4017)	

土壤污染防治

2 种分步浸提方法对土壤中 Cr 形态提取效果的比较			陈东东	童士唐(4022)
Cd、Ni 单一及复合污染对土壤酶活性的影响	王学锋	尚菲	刘修和	苏霄雨(4027)

环境监测与评价

微生物降解前后 COD 差值法快速测定 BOD	韩严和	翟跃华	阮修莉	陈家庆	王建宏(4035)
化学物质对发光菌的联合毒性评价方法			王娜	王晓昌	马晓妍(4040)

相关研究

抗侵蚀型生态沟渠构建及其稻田应用效果	王振旗	沈根祥	钱晓雍	陈伟	翁丹龙	陈龙娟(4047)
--------------------	-----	-----	-----	----	-----	-----------

CONTENTS

Quality and its variation of water in rainwater collection cellar of rural areas of northwest China	Wu Fuping Xia Chuan Wang Yanqin Liu Shuang Zhang Guozhen Yang Hao(3541)
Coagulation of a low temperature and turbidity raw source water by Fe-Al composite coagulants	Xie Jing Chen Youjun Bi Zhe Wang Dongsheng Duan Jimming(3546)
Microalgal culture for CO₂ fixation and manure wastewater treatment	Zhao Yun Chen Jiacheng Shen Ying Wang Lu Xu Ximiao(3553)
Effect of ferrous iron content in ferric chloride on coagulation efficiency	Xie Jingliang Zhang Yanwen Li Changfang Peng Zhong Wang Fuhsao(3559)
Effect of flow pattern on nitrifiers community and nitrification rates of nitrifying activated sludge process	Yu Lifang Pan Ruijing Peng Dangcong Pei Liying Guo Yu Wang Binbin(3563)
Inorganic composite flocculant prepared from slag and its application in advanced phosphorus removal of municipal sewage	Zhang Wenqin Li Ye Li Bolin Zhao Jianbo Song Mengting(3567)
Start-up of UASB in treatment of sulfate organic wastewater	Jiang Yongrong Liu Kehui Liu Chengliang Huang Anna Wang Chunfeng Wei Tianyin Wu Yaochan(3572)
Oxidative degradation of dibutyl phthalate induced by glow discharge plasma in aqueous solution	Wang Lei Li Guoxin Li Dailin Yang Xiawei Lin Biling(3577)
A pilot-scale study on ammonia-nitrogen recovery from fertilizer industry wastewater using struvite precipitation	Ping Qian Chen Jingxia Li Yongmei(3585)
Process design and operation efficiency of an antibiotic wastewater treatment plant	Zuo Lushen Yao Hong Li Huayu Tian Sheng Liu Miaomiao(3591)
Effect of outlet ratio on separation performance of grit separation module	Yan Peng Ji Fangying Wang Jing Fan Jianping Yan Dachao(3596)
Oxidation treatment of printing and dyeing wastewater by flocculation-Fenton reagent	Xue Dong Li Changbo Zhang Honglin Liu Dengchao Jiang Husheng Li Xia(3601)
Influence of temperature on establishment of high-salt biological system by phase culture method	Fu Jinxiang Kang Zhonghui Yu Pengfei(3607)
Ozonation degradation of para-chlorobenzoic acid by sludge-corn cob activated carbon	Li Lu Feng Li Zhang Lili(3613)
Adsorption behavior of surfactant-modified molecular sieve 4A for Cr(VI)	Wu Wenbing Lin Yabin Chen Jianhua(3620)
Removal of Co⁺, Cu²⁺, Cd²⁺ and Cr³⁺ from aqueous solution by zeolite X prepared from coal gangue	Chen Jianlong Lu Xinwei Zhang Mengmeng Xu Xue Zhao Ni(3625)
Distribution and community structures of methanogens in a microaerobic baffled reactor	Ye Fei Wang Yu Zhang Hong Song Liyan Wu Shengjun(3633)
Technique and mechanism of electrocoagulation process for treatment of wastewater containing chromium	Liu Yuling Lu Jun Ma Xiaoyun Li Yan Lin Shengling(3640)
Phenol degradation by aerobic granular sludge	Liu Guoyang Zhao Baihang Li Jun Wang Changwen Li Tong(3645)
Preparation and application of TiO₂ thin film electrode in photoelectro-Fenton system under visible light	Peng Zhenbo Yu Zebin Sun Lingfang Wang Li Qian Liwei Jiang Qianqian Wen Hang(3651)
Emergency response procedures and technique route for environmental damage assessment in sudden tributaries pollution incidents	Cai Feng Li Xinyu Chen Gangeai Yang Qingling Zhou Xianjie Wang Jian(3658)
Advanced treatment of coking wastewater by ozone combined with activated carbon	Yang Demin Yuan Jianmei Xia Hong(3665)
Change of sludge characteristics in high calcium wastewater by activated sludge process	Fan Yanli Kong Xiuqin Niu Jiaxue(3670)
Adsorption of Cu(II) in water by straw xanthate	Chen Junhao Li Yuanzhu Li Yanming Zhang Tao Li Guoxue Gao Ruying Diao Jianxiang Sun Ying(3675)
Treatment of arsenic-containing mineral processing wastewater by coagulation and sedimentation process	Yan Qun Gui Yonggang Zhou Nana Xu Jing Yu Yang Luo Xianping(3683)
Effect of non-dissolved substances on landscape water's apparent pollution of Suzhou	Chen Ming Pan Yang Huang Yong(3689)
Pretreatment of DMF wastewater by Fenton oxidation combined with iron-carbon micro-electrolysis	Du Haixia Wang Yao Li Jie(3695)
Distribution characteristics of phosphorus forms in the surface sediment from different discharging points along the Nanfei River in Hefei City, Anhui Province	Shen Shuo Yang Changming Yang Dianhai(3704)
Treatment of MBR-NF concentrate of landfill leachate by Fenton process	Xu Yudong Fan Liangxin Huang Youfu(3711)
Purification of papermaking tail-water by constructed wetlands and the screening of dominant wetland plants	Zhang Shuili Fan Liwei Chen Nenqing Huang Xiaofen Zhao Ye Hai Reti(3718)
Influence of aerobic granular sludge on sludge property in membrane bioreactor during phenolic wastewater treatment	Song Zhiwei Cao Wenwen Wang Qiuxu Wang Liyan(3725)
HAAs transformation in municipal wastewater reclamation process during chlorine disinfection	Cheng Jialei Han Yun Wang Dongmei Zhao Kai(3731)
Coupling of artificial neural network and genetic algorithms for methyl orange decolorization with manganese peroxidase	Li Huixing Zhang Jianhua Mao Zhonggui(3737)
In-stream electron acceptor generation and its application in inhibiting P-release behavior of P-rich excess activated sludge	Li Wei Yang Yongzhe(3743)
Numerical simulation of filtration process of long fiber filter	Liu Zhongbin Wang Huan Zeng Tao Tang Juan Zhang Jie(3749)
Adsorption of Pb(II) from aqueous solution by modified pine needles	Li Hongping Liu Lie Han Xiuli Liu Guoji(3755)
Removal of COD and NH₄-N from micro-polluted water by aluminum-doped TiO₂ modified bentonite	Wu Guangfeng Nie Jinxu Chen Shiwen(3761)
Sodium persulfate activation by Fe²⁺ for degradation of 1,2-dichlorobenzene	Wang Jipeng Hu Linchao Yang Yan Yu Minda Li Dinglong Yin Yong Liu Yu(3767)
Treatment process and operating conditions for low sludge production of printing and dyeing wastewater	Wang Xuehua Huang Yong Wang Hao(3773)

Adsorption performance of Cr (VI) from aqueous solution by peanut shell activated carbon	Li Zhangliang Cui Fangfang Yang Qianlin He Sanmao Tu Linchang Li Jiayi(3778)
Influence of ecological floating bed on density and biodiversity of planktonic algae in winter	Wang Duanchao He Shuqiong Wang Juan Zhang Qizhuo Xu Yatong(3785)
Ammonia industrial wastewater treatment using immobilized ammonium oxidizing bacteria	Li Huijun Wu Yajie Dai Xin An Lichao(3791)
Decolorization of Reactive Brilliant Blue catalyzed by molecular sieve loaded with iron and H₂O₂	Xu Jie Wu Huifang Liu Cuiyun(3797)
Release load of phosphorus in sediments of Hongfenghu Lake	Huang Wei Liu Dingfu Wang Zhengfang Wang Jiaqi Zhang Jianhua Zhang Jibiao Zheng Zheng(3802)
Screening and modifying of suitable substrates to improve phosphorus removal capability of constructed wetlands for decentralized sewage treatment	Lu Shuangjun Wu Peng Chen Chongjun Xu Lezhong Shen Yaoliang(3807)
Adsorption removal of methylene blue dye wastewater from aqueous solution using acid modified peat	Zhang Chun Wang Aihe Zhang Wei Wang Caiwen(3813)
Self-forming dynamic membrane bio-reactor treating of alkali-decrement and dyeing-printing wastewater by aerobic granular sludge	Jin Cheng Yang Bo Li Fang Tian Qing(3819)
Gas seal supercritical water oxidation system for treatment of concentrated organic wastes	Chen Zhong Wang Guangwei Chen Hongzhen Yang Shu Yin Fengjun Xu Yuanjian(3825)
Treatment of low concentration heavy oily wastewater by membrane bioreactors	Tong Kun Lin Aiguo Song Qihui Wei Xinhua Liu Guoqing Sun Xiaoxia Liu Guotong(3832)
Biodegradation of microcystin-LR by <i>Burkholderia vietnamiensis</i>	Wang Feifeng Wu Yan Gao Ying Chen Zuliang(3837)
Pretreatment of auto electrocoating wastewater by Fe-C micro-electrolysis	Wu Aoli Bao Jianguo Gong Luojun(3843)
Preparation and dye-adsorption of ionic liquid loading molecular sieve	Li Zhenyu Tang Cunguo Hu Shuang Wang Chengjing(3848)
Characterization and kinetics of biochar prepared from pomelo peel for adsorption of phenol	He Qixiang Chen Zuliang(3853)
Analysis of recovery results and influential factors of a novel absorbent	Wang Wenjie Huang Weiqiu Shi Li Zheng Zongpeng(3860)
Vacuum drying conditions for analyzing SOF of diesel PM	Yan Yan Meng Zhongwei Gan Ping Chen Peng(3865)
Purification of toluene by enhanced microorganisms in ryegrass rhizosphere	Wu Meng Xu Zhongjun(3871)
Removal of HCl from high-temperature flue gas by titanium dioxide	Liu Hui Kong Sifang Liu Yangsheng Zeng Hui Li Zhanyu Guo Yanrong(3875)
Model of objective indoor air quality evaluation with normalized indices values based on probabilistic neural network	Zhang Xiaoli Li Zuoyong Wang Jiayang(3881)
Mercury removal performance of wet flue gas desulfurization system in field test	Gao Zhengyang Wu Peixin Chen Songtao Fan Yuanzhou Yin Libao(3887)
Acquisition of free formaldehyde in wood-based panels using amino-imidazole scavenger	Li Xiao Niu Maofei Qu Wenyi Niu Meiju(3893)
Desulfurization process parameters optimization of a moving granular bed of limestone particles based on orthogonal test	Yan Dongjie Liu Qing Huang Xuemin Liu Dangsheng Yang Quan Ma Chaojie(3899)
Treatment of odors mixed with hydrogen sulfide and ammonia by combined biofilter	Tian Fengrong Zhang Binbin Yang Zhilin Wang Kaichun Hu Cong Wang Keyun Yuan Lijuan(3905)
Rheological characteristics of sludge in high-solids anaerobic digestion	Dai Xiaohu Gai Xin Dong Bin(3912)
Removal of heavy metals and upgrading crude bio-oil from <i>Phytolacca Americana L.</i> harvest using hydrothermal upgrading process	Deng Zixiang Yang Jianguang Li Junyuan Zhang Xuliang(3919)
Enhancement of mesophilic anaerobic digestion of waste activated sludge using alkaline-low temperature thermal pretreatment	Yi Hui Han Yun Li Yuyou Zhuo Yang Peng Dangcong(3927)
Static phosphorus adsorption of clinkers with different particle sizes	Wu Liping Xu Xiaoying Wen Kejun Gu Jinxia Cao Wen Li Qingbo(3933)
Dewaterability improvement and toxicity reduction of pharmaceutical sludge using PAM	Pei Jin Yu Xiaohua Yao Hong Wang Hui Ma Lanqianya(3939)
Pyrolysis kinetics of non-metallic in waste printed circuit boards	Yin Jin Li Guangming He Wenzhi Ruan Jujun Zhu Shuguang(3946)
Optimization of calcium and magnesium leaching from mafic tailings	Zhang Lijun Yuan Xuyin Wang Bing Han Lei Chen Hailong(3951)
Physico-chemical properties variations of aged refuse in semi-aerobic landfills	Zhang Zhibin Yue Bo Wang Ning Sun Yingjie Li Hailing(3959)
Drying characteristics of sludge in a fluidized bed	Shao Zhiwei Huang Yaji Yan Yupeng Yang Gaoqiang Fu Qirang(3965)
Effect of padding dosage on microbiological decomposition of kitchen garbage	Shao Chen Yu Xin Jiang Ping Tian Xingjun(3971)
Competitive binding of copper and zinc with humus fraction during pig manure composting	Huang Hongli Luo Lin Wang Han Yuan Yu Zhang Jiachao(3978)
Stabilization of multi-metals and arsenic in combined contaminated sediment by three iron-based materials	Lei Ming Zeng Min Hu Liqiong Zhang Hang Liao Bohan Tang Bin Long Shuibao(3983)
Using silicate-calcium slag generated in process of extracting alumina from fly ash as cement admixture	Yang Zhijie Sun Junmin Zhang Zhanjun Ye Jiayuan Miao Ruiping(3989)
Pilot study of autoclaved brick production with semi-dry FGD byproduct	Su Qingfa Jiang Yabing Wu Muzheng Zhao Zhongren Sun Hailin Ma Fuming(3996)
Pyrolysis characteristics and kinetic analysis of plastic waste from ships	Zeng Guangbo Ma Xiaolian Wu Jie Chen Xinen(4001)
Comparative between sieving method and microscope in particle size distribution of aged refuse	Liu Hui Shi Xuefeng Li Lizhen(4007)
Thermal disposal behavior of electroplating sludge and its effect on metals recovery	Chen Xian Lu Jin Yin Yan Cheng Jiehong(4012)
Effects of impurities in phosphogypsum and pre-treatment on properties of α hemihydrates	Ding Meng Li Jianxi Li Bingbing(4017)
Comparative assessment of two sequential chemical extraction schemes for fractionation of chromium in polluted soil	Chen Dongdong Tong Shitang(4022)
Effects of single and combined pollution of cadmium, nickel on soil enzyme activity	Wang Xuefeng Shang Fei Liu Xiuhu Su Xiaoyu(4027)
Rapid detection of BOD with difference of COD before and after activated sludge aeration	Han Yanhe Zhai Yuchua Ruan Xiali Chen Jiaqing Wang Jianhong(4035)
Method of joint toxicity evaluation of chemicals on luminous bacteria	Wang Na Wang Xiaochang Ma Xiaoyan(4040)
Construction of anti-erosion ecological ditch and its application effect in paddy field	Wang Zhenqi Shen Genxiang Qian Xiaoyong Chen Wei Weng Danlong Chen Longjuan(4047)