

目 次

专论与综述

- 电离辐照技术在废水处理中的研究进展 王建龙,初里冰(653)
餐厨垃圾处置方式及其碳排放分析 郝晓地,周鹏,曹达啓(673)

研究报告

- O_3/ACF 体系降解废水中的三烯丙基异氰脲酸酯 赵泽华,张后虎,许彬,刘茹,张静(683)
2 种启动方式下 CSTR 厌氧甲烷发酵系统的运行特性比较 昌盛,刘枫,李建政(689)
COD、pH 值和运行周期对好氧瞬时补料工艺合成聚羟基脂肪酸酯的影响 刘一平,郭亮,冉依禾,赵阳国,余宗莲,高孟春(695)
沸石/水合氧化锆吸附水中的磷 林丽丹,王哲,顾伟,吴德意(702)
同、异步闭闸调控下污染物的输移扩散特征 龙岩,徐国宾,马超(709)
气升回流一体化中试反应器的污泥减量化 徐军,潘杨,黄勇,刘伟(715)
响应曲面法优化聚硅酸铁混凝剂处理腈纶废水 张潇逸,蒋进元,周岳溪,许吉现(721)
固定化生物活性炭处理糖蜜酒精废水 廖雷,师杰峰,彭娟,魏建文,文熙,贾力强(727)
聚合铝水解形态对混凝效果及絮体特性的影响 柯水洲,涂家勇,朱佳,韦伟(733)
 $ZnIn_2S_4$ 可见光催化降解水中的双氯芬酸 冯奇奇,卜龙利,高波,刘嘉栋,谭娜,孟海龙,何克博(739)
微波辅助 Pb/ZrO_x 光催化降解水中的对硝基苯酚 潘维倩,张广山,郑彤,王鹏(748)
不同阴离子下纳米 TiO_2 催化臭氧化对溴酸盐生成的影响 吴悦,吴纯德(755)
臭氧在柱式反应器中的强化传质过程 王兵,税奕瑜,刘璞真,曾扬,任宏洋(760)
螯合沉淀联合微滤法脱除电镀废水中的低浓度络合金属 严革方,叶茂友,孙水裕,肖晓,林夏君,戴文灿(769)
铁还原菌作用下含镉聚合硫酸铁絮体中铁还原与镉释放规律及其影响因素 李晨晨,曾桃,易筱筠,党志,冯春华,韦朝海(778)
磁性壳聚糖改性硅藻土吸附去除水中的铅离子 施周,袁明洋,杨秀贞,范少蓓(787)
三电极系统处理含藻水 向平,方宇,张亚晴(793)
改性水葫芦粉对水体中 Hg^{2+} 的吸附 黄京晶,陈宏,刘江,何沅洁(798)
冠醚-离子液体体系对水相中铀酰离子的萃取 王慧娟,谢磊,王赛(805)
氢自养脱氮法去除污染地下水硝酸盐氮的模拟研究 李爽,石珍瑜,马会强(811)
改性透辉石对饮用水中余氯的吸附机理 毛彩彩,石林(818)
低接种污泥量强化循环厌氧反应器(SCAR)处理生活污水 杨波,郑凯,李方,田晴,马春燕(827)
次氯酸钠-溴离子体系氧化水中的扑热息痛 潘夏玲,张铭辉,李富华,黄军磊,陈平,张利朋,吕文英,姚琨,刘国光(833)
 UV/H_2O_2 工艺降解典型消炎药布洛芬影响因素和降解机理 李华杰,周婧,彭明国,杜尔登,李冬冬,宋澄杰(839)
亚铁离子活化过硫酸氢钾复合盐降解水溶液中酮洛芬 张利朋,王枫亮,陈平,王盼盼,邓芝,潘夏玲,张铭辉,吕文英,姚琨,刘国光(847)
微波-等离子体作用下催化氧化煤制乙二醇生化尾水 刘浩亮,陆曦,刘志英,徐炎华(852)
电-Fenton 法处理页岩气压裂返排液 林雯杰,王菁,孟宣宇,孙健,郭春梅,陈进富(857)
S/AMBBR 和 DE 氧化沟对低浓度城市污水的处理效果对比 李卫平,张敬朝,杨文焕,朱浩君,敬双怡,邱春梅(862)
反硝化法降解油脂废水中的恶臭物质 许青青,何成达,余梦宇,王丹,高洁(867)
响应曲面法优化微波诱导载铜活性炭处理焦化废水 孟海玲,张回,刘再亮,朱丽莎(872)
EGSB-BF 生物膜-混凝处理天然橡胶胶乳废水 段秀梅,安鹏,马文静,张军,张恺扬,孙兰梅(879)
酸活化凹凸棒黏土对印染废水中亚甲基蓝的吸附性能 雷春生,朱晓峰,高雯,张凤娥(885)
 $Cu(II)$ 和 $Cd(II)$ 在氧化石墨烯/聚酰胺-胺复合材料上的竞争吸附 刘芳,贺盛福,张帆,张晨(892)
改进水热法合成纳米 $Co_xFe_{3-x}O_4$ ($0 \leq x \leq 2$) 及其对刚果红染料的吸附性能 张子元,王寅岗(899)
不同晶型二氧化锰催化臭氧化降解亚甲基蓝废水 王春雨,侯永江,刘璇,李博,王亚权,闫妍,韩佳怡(908)
羧基化杯[6]芳烃磷氧衍生物(HHPC)对 Cu^{2+} 、 Ni^{2+} 的萃取性能 林艳,王劲松,周洁,卢恺,李霞,莫辉艳(915)
2-甲基-4-氯苯氧乙酸及其脱氯产物的光化学降解 冯向文,江芳,陈欢,陈建(921)
渗滤液反渗透浓缩液回灌系统中盐分的迁移转化规律 王东梅,刘丹,李智,陶丽霞(927)
新型钝化剂与秸秆对黄铁矿的氧化抑制效果 舒小华,张倩,张学洪,莫德清,李林,梁英(933)
利用餐厨中水培养钝顶螺旋藻 徐倩,任洪艳,王雪飞,阮文权(938)
深水库藻类功能组演替特征及与其水动力关系 杨喆,卢金锁,赵建超(945)
水葫芦圈养对星云湖富营养化水体水质的影响 王良芬,吴献花,刘东辉,郑艳婷(952)
海河干流天津段氮磷对藻类生长的影响及动力学分析 李付宽,郑剑锋,贾泽宇,孙力平(959)
页岩气压裂返排液处理回用中的问题及对策 吕雷,王梓民,杨志刚(965)
基于时域权重矩阵的模糊综合水质评价法及其应用 高学平,孙博闻,訾天亮,张晨,李跃军(970)

硫酸铵作为人工气溶胶模拟尘源的研究	邓高峰, 李增和, 胡露露, 王智超, 邹津慧 (977)
中位粒径对线管式静电除尘器内 PM _{2.5} 除尘性能影响的数值模拟	张建平, 车鹏, 徐达成, 白云飞 (983)
低温等离子体净化尾气中的颗粒相多环芳烃	马朝臣, 高建兵, 邢世凯, 杨文芳 (988)
ClO ₂ 气相氧化 NO 和 SO ₂ 的特性及反应机理	杨迪, 童华, 李文静, 李秋田 (993)
火电厂周围大气环境中硫化物分布规律的探讨	李志雄, 梁美生, 姜俊杰 (998)
活性焦配方型吸附剂脱除模拟烟气中 Hg ⁰	魏忠秋, 刁永发, 姚跃辉 (1003)
投加优势菌强化降解液相油烟污染物的动力学研究	贾力强, 廖雷, 刘超 (1009)
不同气氛下微粒捕集器的离线再生	徐辉, 蔡忆昔, 施蕴曦, 丁道伟 (1015)
碱性硫酸铝吸收与解吸二氧化硫的机理及性能	张树峰, 温高, 赵爽 (1022)
介孔 (TiO ₂ -M) / 导电碳毡光电极制备及其光电催化性能	李铭, 李佑稷, 徐鹏, 林晓, 李灯亮 (1027)
湿雾抑尘内混式空气雾化喷嘴的选型	李跟宝, 张亚运, 王瑶, 邵超 (1036)
包埋型 SiO ₂ 空心球对轻烃的吸附特性	张齐正, 黄维秋, 王红宁, 徐先阳, 李丽 (1041)
10 种灌木树种滞留大气颗粒物的能力	孙晓丹, 李海梅, 郭霄, 孙丽 (1047)
炼化基地大气特征污染物的管控与减排	魏颖, 詹华斌, 肖雯, 潘峰, 全纪龙 (1055)
百万燃煤机组烟气污染物超低排放改造费效评估	金侃, 张军, 郑成航, 张涌新, 吴学成, 史建勇, 孟炜, 高翔 (1061)
废旧锂电池的机械化学处理方法与机制	王萌萌, 张付申 (1069)
城市垃圾生物质组分混煤燃烧过程积灰结渣的特性及其灰分环境效应	彭娜娜, 刘婷婷, 盖超, 刘振刚, 李益 (1075)
低温等离子体活化胶粉改性沥青的性能	尤凤兵, 田永静, 沈菊男, 成雪君 (1080)
温度对餐厨垃圾自厌氧发酵性能的影响	张永梅, 王晓昌, 程喆 (1087)
废弃脱硝催化剂碱浸提取钒和钨的浸出动力学研究	唐丁玲, 宋浩, 刘丁丁, 吴卫红, 郑成航, 高翔 (1093)
木薯生物质酸解制取还原糖并用于软锰矿的还原浸出工艺	王雪婷, 赵博超, 苑喜男, 黄冠汉, 邓永光, 吴晓丹, 潘涔轩 (1101)
不同施肥处理对番茄秸秆厌氧发酵产沼气的影响	毕金华, 陈广银, 常志州, 杜静, 陈乐, 李云龙 (1106)
半导体存储介质破碎-分选系统的因子优化设计	王策, 许振明 (1111)
不同级配垃圾焚烧底渣固化市政污泥工程特性分析	梁冰, 胡学涛, 陈亿军, 陈德强, 林青瑜 (1117)
新型复合菌种降解餐厨垃圾	段绍君, 金浩, 毛冠华, 詹同宝, 黄婕 (1123)
煤矸石硅铝溶出分析与胶凝活性快速检测	赵亮, 李超, 惠晓梅, 高成伟 (1131)
利用工业锰渣中温固化硫化砷渣	杜颖, 肖红霞, 卢琼, 杜冬云 (1136)
缬草黄酮和多糖的同步提取与分离工艺	谷政伟, 黎继烈, 王卫, 吴耀辉 (1141)
不同有机物添加接种物产甲烷差异分析	武春燕, 卜玉山 (1147)
振动频率与龄期对河道淤泥气泡混合轻质土动力特性影响及机理	刘增祥, 顾欢达, 章培培, 陈冬青 (1153)
赤泥除氟剂的物相组成及其除氟性能	李德贵, 覃铭, 何兵, 邓平平 (1159)
船舶防污漆中污染物分析及处置技术	田亚静, 陈经浩, 黄建新, 陆胜勇 (1164)
煤矸石动态循环淋溶液的特性	赵洪宇, 李玉环, 宋强, 王子民, 张励安, 舒元锋, 曾鸣, 舒新前 (1171)
水可溶性有机物在铅锌废渣生态修复中的应用	付天岭, 吴永贵, 曾艳, 刘桂华, 罗有发, 韩超 (1178)
微生物燃料电池修复石油污染盐碱土壤	李晓晶, 赵倩, 张月勇, 王鑫, 万丽丽, 李永涛 (1185)
多环芳烃降解菌菌群构建及其适宜降解环境条件的确定	苏梦缘, 王红旗, 李艺, 刁硕 (1192)
改良剂对土壤中 Cu 形态变化的影响	王康, 汪莉, 邢奕, 洪晨, 司艳晓, 张莹莹, 沈茜, 赵晓明 (1199)
几种典型土壤对电动修复镉污染效果的影响	肖惠萍, 涂琴韵, 吴龙华, 乐莎, 侯静涛 (1205)
焦磷酸钾对铜污染土壤的淋洗修复	王蒙蒙, 吕文英, 姚琨, 丁玲, 王雅辉, 王盼盼 (1211)
洛阳城市污水处理厂污泥中重金属形态及潜在生态风险评价	刘亚纳, 郭旭明, 周鸣, 朱书法, 苗娟, 赫文莉 (1217)
澎溪河消落带不同植物类型下土壤无机氮及相关微生物特征	王晓锋, 张磊, 袁兴中, 刘红, 岳俊生 (1223)
矿山边坡绿化基质的优化配比	李冰美, 郭晓明, 赵同谦, 马彪 (1233)
不同 Cd 污染特征稻田施用钝化剂对水稻吸收积累 Cd 的影响	谢运河, 纪雄辉, 田发祥, 吴家梅, 刘昭兵, 官迪 (1242)
木糖高温厌氧发酵产氢的影响因素及两相产氢-产甲烷的能量转化效率	郑亚哲, 邱春生, 张丹丹, 王少坡, 石璞玉, 孙力平 (1251)
类产碱假单胞菌 JS45 的硝基苯降解动力学	张迎迎, 迟向群, 王道胜, 王飞华, 梁威 (1257)
剩余污泥微生物燃料电池的产电性能及有机物降解与阳极生物分析	李丹, 梁菲, 付融冰 (1262)
一株异养硝化-好氧反硝化功能菌的分离鉴定及其脱氮特性	田雪雪, 程玉立, 张圆圆, 石先阳 (1269)
不同比例乙酸和丙酸对活性污泥微生物合成聚羟基脂肪酸酯的影响	冉依禾, 郭亮, 刘一平, 赵阳国, 余宗莲, 高孟春 (1276)
淡水养殖底泥净化复合芽孢杆菌的筛选与应用	张翠绵, 贾楠, 胡栋, 彭杰丽, 王占武 (1281)
一株抗生素和重金属交叉抗性菌的筛选及抗性研究	杨芬, 巢波, 杨万红, 张天浩, 杨统一, 唐玉斌 (1287)
GC-ECD 和 LC-MS/MS 测定垃圾焚烧飞灰中氯苯和氯酚的方法	黄建新, 陈经浩, 陆胜勇, 严建华, 倪明江 (1293)
紫外-近红外光谱法测定废水 COD 含量	仲洋, 夏凤毅, 廉继尧 (1300)

CONTENTS

Research progress of ionizing irradiation technology on wastewater treatment	WANG Jianlong, CHU Libing (653)
Analyses of disposal methods and carbon emissions of food wastes	HAO Xiaodi, ZHOU Peng, CAO Daqi (673)
Degradation of TAIC production wastewater by O ₃ /ACF synergistic catalysis	ZHAO Zehua, ZHANG Houhu, XU Bin, LIU Ru, ZHANG Jing (683)
Comparing operational characteristics of anaerobic methanogenic fermentation in CSTR system under two different start-up conditions	CHANG Sheng, LIU Feng, LI Jianzheng (689)
Effects of COD concentration, pH and operation cycle in production of polyhydroxyalkanoates (PHA) by aerobic dynamic feeding (ADF)	LIU Yiping, GUO Liang, RAN Yihe, ZHAO Yangguo, SHE Zonglian, GAO Mengchun (695)
Phosphate adsorption from water by zeolite/hydrous zirconium oxide composite synthesized from coal fly ash	LIN Lidan, WANG Zhe, GU Wei, WU Deyi (702)
Pollutant transport rules under synchronous control and asynchronous control	LONG Yan, XU Guobin, MA Chao (709)
Investigate minimization sludge production for Airlift-Reflux Integrated pilot-scale Reactor	XU Jun, PAN Yang, HUANG Yong, LIU Wei (715)
Optimization on poly-silicic-ferric coagulant treatment of acrylic fiber wastewater using response surface methodology	ZHANG Xiaoyi, JIANG Jinyuan, ZHOU Yuexi, XU Jixian (721)
Molasses wastewater treatment using immobilized biological activated carbon method	LIAO Lei, SHI Jiefeng, PENG Juan, WEI Jianwen, WEN Xi, JIA Liqiang (727)
Effect of PAC hydrolysis species on coagulation efficiency and floc characteristics	KE Shuizhou, TU Jiayong, ZHU Jia, WEI Wei (733)
Photocatalytic degradation of aqueous diclofenac by ZnIn ₂ S ₄ under visible light	FENG Qiqi, BO Longli, GAO Bo, LIU Jiadong, TAN Na, MENG Hailong, HE Kebo (739)
Microwave-assisted photocatalytic degradation of PNP over Pb/ZrO _x	PAN Weiqian, ZHANG Guangshan, ZHENG Tong, WANG Peng (748)
Effects of different anions on bromate formation under the nano-TiO ₂ catalytic ozonation process	WU Yue, [WU Chunde] (755)
Research of enhancement of ozone gas mass transfer in column reactor	WANG Bing, SHUI Yiyu, LIU Puzhen, ZENG Yang, REN Hongyang (760)
Research on low-concentration metals removal simultaneously from electropolating wastewater by the method of chelate precipitation-microfiltration	YAN Pingfang, YE Maoyou, SUN Shuiyu, XIAO Xiao, LIN Xiajun, DAI Wencan (769)
Iron reduction and Cd release from Cd-loaded polyferric sulfate flocs during microbial reduction of Fe (III) in flocs by iron-reducing bacteria	LI Chenchen, ZENG Tao, YI Xiaoyun, DANG Zhi, FENG Chunhua, WEI Chaohai (778)
Adsorptive removal of Pb ²⁺ using magnetic chitosan modified diatomite	SHI Zhou, YUAN Mingyang, YANG Xiuze, FAN Shaobei (787)
Treatment of algae-laden water by three electrodes system	XIANG Ping, FANG Yu, ZHANG Yaqing (793)
Adsorption of Hg ²⁺ from aqueous solution by modified <i>Eichhornia Crassipes</i> Powder	HUANG Jingjing, CHEN Hong, LIU Jiang, HE Yuanjie (798)
Investigation on extraction of uranium ions from aqueous phase using crown ether-ionic liquid systems	WANG Huijuan, XIE Lei, WANG Sai (805)
Simulation studies on removing nitrate-Nitrogen from contaminated groundwater using a hydrogenotrophic denitrification approach	LI Shuang, SHI Zhenyu, MA Huijiang (811)
Removal of residual chlorine from drinking water through adsorption by modified diopside	MAO Caicai, SHI Lin (818)
Characteristics of strength circulation anaerobic reactor for treatment of domestic sewage with low sludge inoculation concentration	YANG Bo, ZHENG Kai, LI Fang, TIAN Qing, MA Chunyan (827)
Study of paracetamol oxidized by the system of sodium hypochlorite-bromide ion	PAN Xialing, ZHANG Minghui, LI Fuhua, HUANG Junlei, CHEN Ping, LYU Wenying, YAO Kun, LIU Guoguang (833)
Influence factors and degradation mechanism of UV/H ₂ O ₂ process for degradation of typical anti-inflammatory drug ibuprofen	LI Huajie, ZHOU Jing, PENG Mingguo, DU Erdeng, LI Dongdong, SONG Chengjie (839)
Degradation of ketoprofen in aqueous by peroxyomonosulfate activated by ferrous ion	ZHANG Lipeng, WANG Fengliang, CHEN Ping, WANG Panpan, DENG Wen, PAN Xialing, ZHANG Minghui, LYU Wenying, YAO Kun, LIU Guoguang (847)
Catalysis oxidation experiments on coal-to-glycol biochemical effluents with microwave plasma technology	LIU Haoliang, LU Xi, LIU Zhiying, XU Yanhua (852)
Treatment of shale gas fracturing flowback fluid by electro-Fenton process	LIN Wenjie, WANG Jing, MENG Xuanyu, SUN Jian, GUO Chunmei, CHEN Jinfu (857)
Comparative study of S/AMBBR and DE oxidation ditch treatment of low concentration sewage	LI Weiping, ZHANG Jingzhao, YANG Wenhuan, ZHU Haojun, JING Shuangyi, QIU Chunmei (862)
Degradation of malodorous gas from oil waste-water by denitrification	XU Qingqing, HE Chengda, YU Mengyu, WANG Dan, GAO Jie (867)
Optimization of microwave induced copper-loaded activated carbon of coking wastewater using response surface methodology	MENG Hailing, ZHANG Hui, LIU Zailiang, ZHU Lisha (872)
Natural latex wastewater treatment with EGSB-shaking bed biofilm-coagulation process	DUAN Xiumei, AN Peng, MA Wenjing, ZHANG Jun, ZHANG Kaiyang, SUN Lanmei (879)
Adsorption characteristics of acidized attapulgite clay for methylene blue	LEI Chunsheng, ZHU Xiaofeng, GAO Wen, ZHANG Fenge (885)
Competitive adsorption of Cu(II) and Cd(II) on GO/PAMAMs composites	LIU Fang, HE Shengfu, ZHANG Fan, ZHANG Chen (892)
Adsorption performance of Congo red on Co _x Fe _{3-x} O ₄ (0 ≤ x ≤ 2) nanoparticles synthesized by improved hydrothermal method	ZHANG Ziyuan, WANG Yinggang (899)
Degradation of methylene blue by catalytic ozonation with different crystalline MnO ₂	WANG Chunyu, HOU Yongjiang, LIU Xuan, LI Bo, WANG Yaquan, YAN Yan, HAN Jiayi (908)
Extraction of Cu ²⁺ and Ni ²⁺ with phosphorate derivates of carboxyl calix[6]arene (HHPHC)	LIN Yan, WANG Jinsong, ZHOU Jie, LI Kai, LI Xia, MO Huiyan (915)
Photodegradation of 2-methyl-4-chlorophenoxyacetic acid and its dechlorination product	FENG Xiangwen, JIANG Fang, CHEN Huan, CHEN Jian (921)
Research on regularity of migration and transformation of salinity in process of leachate reverse osmosis concentrate recirculation	WANG Dongmei, LIU Dan, LI Zhi, TAO Lixia (927)
Inhibitory effect of pyrite oxidation by a new passivator and straw	SHU Xiaohua, ZHANG Qian, ZHANG Xuehong, MO Deqing, LI Lin, LIANG Ying (933)
Feasibility of <i>Spirulina platensis</i> growth in food reclaimed water	XU Qian, REN Hongyan, WANG Xuefei, RUAN Wenquan (938)
Relationship between succession characteristics of algae functional groups and hydrodynamic in deep-water reservoir	YANG Zhe, LU Jinsuo, ZHAO Jianchao (945)
Effects of <i>Eichhornia crassipes</i> on quality of eutrophic water in Lake Xingyun	WANG Liangfen, WU Xianhua, LIU Donghui, ZHENG Yanping (952)
Impact of Nitrogen and Phosphorus on algal growth and kinetics in Haihe River of Tianjin	LI Fukuan, ZHENG Jianfeng, JIA Zeyu, SUN Liping (959)
Problem and solving countermeasures on recycling technology for fracturing flow-back fluid of Shale Gas	LYU Lei, WANG Zimin, YANG Zhigang (965)
Application of improved fuzzy comprehensive water quality assessment based on weight matrix of temporal distribution	GAO Xueping, SUN Bowen, ZI Tianliang, ZHANG Chen, LI Yuejun (970)
Research on ammonium sulfate as artificial aerosol simulated dust source	DENG Gaofeng, LI Zenghe, HU Lulu, WANG Zhichao, GAO Jinhuai (977)
Numerical simulation for influences of median diameter on PM _{2.5} removal performances in wire-pipe ESPs	ZHANG Jianping, CHE Peng, XU Dacheng, BAI Yunfei (983)
Cleaning particle-phase polycyclic aromatic hydrocarbons of exhaust using non-thermal plasma technology	MA Chaochen, CAO Jianbing, XING Shikai, YANG Wenfang (988)

Research on gas-phase oxidation properties of ClO_2 on NO and SO_2	YANG Di, TONG Hua, LI Wenjing, LI Qutian (993)
Investigation of distribution rule of sulfide located in ambient thermal power plant	LI Zhixiong, LIANG Meisheng, JIANG Junjie (998)
Experimental study on Hg^0 removal based on activated coke formula adsorbent	WEI Zhongqiu, DIAO Yongfa, YAO Yuehui (1003)
Study on kinetics for strengthen the degradation of liquid fume pollutant by dosing predominant strains	JIA Liqiang, LIAO Lei, LIU Chao (1009)
DPF offline regeneration under different atmospheres	XU Hui, CAI Yixi, SHI Yunxi, DING Daowei (1015)
Mechanism and characteristics of sulfur dioxide absorption and desorption by alkaline aluminum sulfate	ZHANG Shufeng, WEN Gao, ZHAO Shuang (1022)
Preparation and photoelectrocatalysis performance of metal ions doped mesoporous titanium dioxide/conductive carbon felt electrode	LI Ming, LI Youji, XU Peng, LIN Xiao, LI Dengliang (1027)
Experiment research on selection of internal mixing air blast atomizer used for wet-mist dust depression	LI Genbao, ZHANG Yayun, WANG Yao, SHAO Chao (1036)
Adsorption characteristic of embedded hollow SiO_2 spheres for light hydrocarbons	ZHANG Qizheng, HUANG Weiqin, WANG Hongning, XU Xianyang, LI Li (1041)
Atmospheric particulates-retaining capacity of ten shrubs species	SUN Xiaodan, LI Haimei, GUO Xiao, SUN Li (1047)
Particular air pollutants control and reduction in refining base	WEI Ying, ZHAN Huabin, XIAO Wen, PAN Feng, TONG Jilong (1055)
Economical assessment of ultra-low pollutants emission technology innovation for coal-fired power plants	JIN Kan, ZHANG Jun, ZHENG Chenghang, ZHANG Yongxing, WU Xuecheng, SHI Jiangyong, MENG Wei, GAO Xiang (1061)
Mechanochemical recycling of spent lithium-ion battery and reaction mechanisms clarification	WANG Mengmeng, ZHANG Fushen (1069)
Fouling and slagging issues and environmental impact of blend ash during co-combustion of biomass waste of municipal solid waste with coal	PENG Nana, LIU Tingting, GAI Chao, LIU Zhengang, LI Yi (1075)
Performance study on crumb rubber modified asphalt activated by low temperature plasma	YOU Fengbing, TIAN Yongjing, SHEN Junan, CHENG Xuejun (1080)
Effect of temperature on digestion performance in a short-term free anaerobic fermentation from food waste	ZHANG Yongmei, WANG Xiaochang, CHENG Zhe (1087)
Study on leaching kinetics of extracting vanadium and tungsten by sodium hydroxide from spent SCR catalyst	TANG Dingling, SONG Hao, LIU Dingding, WU Weihong, ZHENG Chenghang, GAO Xiang (1093)
Hydrolysis of cassava biomass with sulfuric acid and its application for reductive leaching of pyrolusite	WANG Xueting, ZHAO Bochao, YUAN Xi'an, HUANG Guanhuan, DENG Yongguang, WU Xiaodan, PAN Cenxuan (1101)
Effect of different fertilizing treatments on biogas production of tomato plants	BI Jinhua, CHEN Guangyin, CHANG Zhizhou, DU Jing, CHEN Le, LI Yunlong (1106)
Factor design of crushing-cyclone-electrostatic separation system for recovery of semiconductor storage medium	WANG Ce, XU Zhenming (1111)
Engineering characteristics analysis of sewage sludge solidified by different gradations municipal solid waste incineration bottom ash	LIANG Bing, HU Xuetao, CHEN Yijun, CHEN Deqiang, LIN Qingyu (1117)
Pilot-scale experiment of new composite bacterial species to dispose restaurant garbage	DUAN Shaojun, JIN Hao, MAO Guanghua, ZHAN Tongbao, HUANG Jie (1123)
Analysis of coal gangue silicon, aluminum dissolution and rapid inspection of pozzolanic activity	ZHAO Liang, LI Chao, HUI Xiaomei, GAO Chengwei (1131)
Using manganese slag to stabilize / solidify arsenic sulfide slag by moderate temperature calcination	DU Ying, XIAO Hongxia, LU Qiong, DU Dongyun (1136)
Extracting flavonoids and polysaccharides synchronously from <i>Valeriana officinalis</i> L. and separating them	GU Zhengwei, LI Jilie, WANG Wei, WU Yaohui (1141)
Methane germination differences of different organic matters add inoculum	WU Chunyan, BU Yushan (1147)
Effects of cyclic loading frequency and curing age on dynamic characteristics and mechanism of FMLSS	LIU Zengxiang, GU Huanda, ZHANG Peipei, CHEN Dongqing (1153)
Phase composition and fluoride removal performance of red mud defluoridator	LI Degui, QIN Ming, HE Bing, DENG Pingping (1159)
Research of ship antifouling paint pollutants analysis and treating technique	TIAN Yajing, CHEN jinghao, HUANG Jianxin, LU Shengyong (1164)
Characteristics of dynamic cyclic percolation solution from coal gangue	ZHAO Hongyu, LI Yuhuan, SONG Qiang, WANG Zimin, ZHANG Li'an, SHU Yuanfeng, ZENG Ming, SHU Xinqian (1171)
Ecological restoration to zinc smelting slag pollution: Applied water-soluble organic matter	FU Tianling, WU Yonggui, ZENG Yan, LIU Guihua, LOU Youfa, HAN Chao (1178)
Microbial fuel cell remediation for saline-alkaline soil contaminated by petroleum hydrocarbons	LI Xiaojing, ZHAO Qian, ZHANG Yueyong, WANG Xin, WAN Lili, LI Yongtao (1185)
Construction of microbial consortia for PAHs degradation and appropriate environmental condition for degradation	SU Mengyuan, WANG Hongqi, LI Yi, DIAO Shuo (1192)
Effect of amendments on morphological changes of Cu in soil	WANG Kang, WANG Li, XING Yi, HONG Chen, SI Yanxiao, ZHANG Yingying, SHEN Qian, ZHAO Xiaoming (1199)
Influence of several typical soils on removal of cadmium contaminants during electrokinetic remediation	XIAO Huijing, TU Qinyun, WU Longhua, LE Sha, HOU Jingtao (1205)
Removal of copper from contaminated soil with potassium pyrophosphate as chelating ligand	WANG Mengmeng, LYU Wenyi, YAO Kun, DING Ling, WANG Yahui, WANG Panpan (1211)
Heavy metal speciation and its potential ecological risk assessment in sewage sludge of Luoyang	LIU Yana, GUO Xuming, ZHOU Ming, ZHU Shufa, MIAO Juan, HE Wenli (1217)
Inorganic nitrogen forms and related biochemical action intensity of soil under Four Typical Plants in the Littoral Zone of Pengxi River	WANG Xiaofeng, ZHANG Lei, YUAN Xingzhong, LIU Hong, YUE Junsheng (1223)
Optimal ratio of greening substrates in mine slope	LI Bingmei, GUO Xiaoming, ZHAO Tongjian, MA Biao (1233)
Effect of passivator on Cd uptake of rice in different Cd pollution characteristics paddy soils	XIE Yunhe, JI Xionghui, TIAN Faxiang, WU Jiaomei, LIU Zhaobing, GUANG Di (1242)
Effects on hydrogen production from thermophilic anaerobic fermentation of xylose and energy conversion efficiency of two-phase hydrogen-methane production	ZHENG Yazhe, QIU Chunsheng, ZHANG Dandan, WANG Shaopo, SHI Puyu, SUN Liping (1251)
Degradation kinetics model of <i>Pseudomonas pseudoalcaligenes</i> JS45 for nitrobenzene	ZHANG Yingying, CHI Xiangqun, WANG Daosheng, WANG Feihua, LIANG Wei (1257)
Electricity generation, oxygenic compound degradation and microbiologic characteristics of microbial fuel cell using excess sludge	LI Dan, LIANG Fei, FU Rongbing (1262)
Isolation, identification and nitrogen removal characteristics of a heterotrophic nitrification-aerobic denitrification bacterium	TIAN Xuexue, CHENG Yuli, ZHANG Yuanyuan, SHI Xianyang (1269)
Effect of different ratios of acetic acid and propionic acid on microbial polyhydroxyalcanoate synthesis with activated sludge	RAN Yihé, GUO Liang, LIU Yiping, ZHAO Yangguo, SHE Zonglian, GAO Menghe (1276)
Screening and application of compound <i>bacillus</i> for purifying freshwater aquaculture sediment	ZHANG Cuimian, JIA Nan, HU Dong, PENG Jieli, WANG Zhanwu (1281)
Screening on resistance strains of antibiotic and heavy metal and its resistance research	YANG Fen, CHAO Bo, YANG Wanrong, ZHANG Tianhao, YANG Tongyi, TANG Yubin (1287)
Measurement of chlorobenzenes and chlorophenols in fly ashes from MSWI using GC-ECD and LC-MS/MS	HUANG Jianxin, CHEN Jinghao, LU Shengyong, YAN Jianhua, NI Mingjiang (1293)
Determination of chemical oxygen demand in wastewater by ultraviolet and near-infrared spectroscopy	ZHONG Yang, XIA Fengyi, LIAN Jiyao (1300)