目 次

环境工程学科基础研究领域亮点成果系列专稿	(1.452)
电子废弃物解构再生技术原理及装备研发取得重要进展	(14/3)
特邀专稿 油田生产过程污染物源头协同治理的思考与建议,以聚驱采出水处理过程控制油泥产生为例 ····································	
王庆吉,杨雪莹,李炯,王庆宏,桂雨飞,裴茂辰,史权,陈春茂	(1475)
水污染防治	
多壁碳纳米管和十二烷基苯磺酸钠对 SBR 运行性能及微生物种群结构的影响	
·····································	(1480)
好氧颗粒污泥工艺处理低浓度市政污水实现高效脱氮除磷 ····································	
模拟太阳光下高碘酸钠/ TiO_2 协同降解水体抗生素 ····································	(1489)
催化剂填料表面微生物对微污染物胁迫的响应。高靖雨,蔡武,梁昊,史国贵,陈友怡,吕来,邢学辞,胡春	
大治湖沉积物-上覆水界面氮磷交换通量的冬夏对比 左韧,李海波,刘芜,董浩,程艳,王临风,杨定炜,徐银	(1520)
PS 缓释处理岩溶水石油污染过程中电子受体的利用 邓旭,陈余道,邓日添,李炜轩,刘圣荣	
番石榴树叶/镁铝类水滑石复合材料对镉的吸附性能及机制 ········· 朱玉祺,尹涓涓,钟凯,卢定添,顾心怡,张超兰长距离调水水源中溶解性有机物特征及消毒副产物生成势的变化解析 ······	(1541)
氧化镁掺杂改性活性炭的制备及其对彩板印刷 VOCs 废气的吸附性能及机理 ······	
	(1559)
老龄垃圾渗滤液 PND-SdAD 耦合工艺深度脱氮 ·····	
梁慧宇, 殷万成, 潘杨锐, 周子轩, 陈奔, 赵晴, 孙连鹏, 赵欣, 徐兴泉, 廖嘉俊, 郭五珍, 吕慧基于耦合电氧化-还原的反应性电化学膜工艺处理高含氯难处理工业废水 张璧洁, 杨奎, 张众	
签丁柄音电氧化-	
李淑而,张璧洁,李梓韶,王樟新,张众	(1593)
粉态硫自养反硝化膜生物反应器 (p-SMBR) 的优化调控:水力停留时间和膜通量的影响	
定岗湖湿地水动力及水体交换特性分析李正阳,刘俊国,张晓雷,鞠俊彦,户东东	
环境生物技术	(1011)
外加氮源对细菌群落及其降解油基钻屑中石油烃的影响 张雪梅,李斌,严海源,张贵磊,马树奎,郭晓轩,刘旭	
菌丝球强化耐盐好氧颗粒污泥构建、性能及其微生物群落特性 陆青青, 刘勇弟, 厉巍, 高会杰, 王纲	(1638)
大气污染防治	
塑烧滤筒除尘器脉冲喷吹清灰性能 ····································	
	(1662)
土壤与地下水污染治理 基于超声波原位增渗的地下水中苯酚污染的高效降解 ····································	
·························李思源,赵艳,耿振坤,吉明秀,杨胜科,MOHAMED Elouaaziki,霍心媛,张平,马瑞	(1673)
垃圾填埋场地下水环境定量风险评估方法与案例分析	
	(1681)
固体废物处理与资源化	
超声波预处理对污泥热对流干燥影响及热力学分析 ····································	
安徽省医疗废物产生量的时空变化趋势及其影响因素 孙明珍,杨婷,孟晶晶,李依依	
电化学脱嵌强化废旧锂电材料冶金石墨废渣高效除杂 刘子孟, 丁立鑫, 姜涛, 袁雪, 张光文	
工程创新与实践	
基于新型智能控制系统的污水智慧管理:创新与实践 张璐晶,张伟,谭澄,黄小林	
江苏典型城镇污水处理厂提标扩容改造重难点分析及建议	(1738)
相关研究 关中地区一次典型沙尘天气对空气质量的影响及沙尘来源····································	
天中地区一次典型沙尘大气对空气质量的影响及沙尘米源 ····································	
基于全生命周期理论的半钢子午线轮胎环境影响	
	(1754)

CONTENTS

Thoughts and suggestions on collaborative treatment of pollutant sources in oilfield production processes: An example taking the inhibition of oil mud formation in the treatment process of polymer flooding produced water

WANG Qingji, YANG Xueying, LI Jiong, WANG Qinghong, GUI Yufei, PEI Maochen, SHI Quan, CHEN Chunmao

1480 Effects of multi-walled carbon nanotubes and sodium dodecylbenzenesulfonate on the performance and microbial community of

FENG Chuxian, LI Mei, WEN Hui, YANG Xiaohui, LIN Jinrong, LU Weizhuo, SUN Jiayang, LI Yize, PEI Jianchuan

1489 Achieving high efficiency phosphorus and nitrogen removal in low-strength municipal wastewater treatment with aerobic granular sludge process

MA Lin, WANG Xianglian, JIA Chunfang, PENG Yunqing, XU Wei, YAO Baobao, CHEN Kai, HU Qing, ZHANG Xiongfei Synergetic degradation of antibiotics in water by periodate/TiO₂ under stimulated solar irradiation

HUANG Yuyue, WANG Da, LIU Shuo, HAN Song, XIE Qingjie, WANG Huijuan 1510 Response of catalyst microorganisms to the stress effects of micropollutants

GAO Jingyu, CAI Wu, LIANG Hao, SHI Guogui, CHEN Youyi, LYU Lai, XING Xueci, HU Chun

1520 Comparison of nitrogen and phosphorus exchange fluxes at the sediment-overlying water interfaces of Daye Lake between winter

ZUO Ren, LI Haibo, LIU Yuan, DONG Hao, CHENG Yan, WANG Linfeng, YANG Dingwei, XU Yin

- 1531 Availability of electron acceptors in the persulfate slow-release treatment of petroleum pollution in karst groundwater DENG Xu, CHEN Yudao, DENG Ritian, LI Weixuan, LIU Shengrong
- 1541 Adsorption performance and mechanism of cadmium by guava leaf/MgAl-LDH composites

ZHU Yuqi, YIN Juanjuan, ZHONG Kai, LU Dingtian, GU Xinyi, ZHANG Chaolan

- 1550 Characteristics of dissolved organic matter in the long-distance water diversion source and analysis of changes in disinfection byproducts formation potential
 - FU Wei, LIANG Jiankui, WU Shengnian, Li Juechun, JI Wenxiang, DONG Huiyu, YU Jianwei, ZHANG Honggang, ZHANG Ying, MIAO Qinkui, QIANG Zhimin
- Preparation of magnesium oxide doped modified activated carbon and its adsorption properties and mechanism toward color plates printing VOCs

- KOU Yongkang, DANG Xiaoqing, CAO Li, QU Jiaxin, REN Yitong, DONG Jing
 1570 Advanced nitrogen removal from mature landfill leachate by coupled pilot PND-SdAD process LIANG Huiyu, YIN Wancheng, PAN Yangrui, ZHOU Zixuan, CHEN Ben, ZHAO Qing, SUN Lianpeng, Zhao Xin, XU Xingquan,
- LIAO Jiajun, GUO Wuzhen, LV Hui 1582 Treatment of high chlorine-containing refractory industrial wastewater using reactive electrochemical membrane coupled with electro-oxidation and reduction processes.
- ZHANG Bijie, YANG Kui, ZHANG Zhong 1593 The influencing mechanism of molecular composition of dissolved organic matter on the formation of disinfection byproducts mediated by reactive chlorine species

LI Shuer, ZHANG Bijie, LI Zishao, WANG Zhangxin, ZHANG Zhong

Optimal regulation of powder sulfur autotrophic denitrification membrane bioreactor (p-SMBR): effect of hydraulic retention time/membrane flux

GAO Shanshan, XIE Binghan, GENG Mingyue, TIAN Jiayu

1614 Analysis of hydrodynamic forces and water exchange characteristics in Dinggang Lake Wetland

LI Zhengyang, LIU Junguo, ZHANG Xiaolei, JU Junyan, HU Dongdong

- Effects of nitrogen sources addition on bacterial communities and their degradation of petroleum hydrocarbons in oil-based drilling cuttings
- ZHANG Xuemei, LI Bin, YAN Haiyuan, ZHANG Guilei, MA Shukui, GUO Xiaoxuan, LIU Xu Mycelial pellets enhance the construction, performance and microbial community characteristics of salt-tolerant aerobic granular

LU Qingqing, LIU Yongdi, LI Wei, GAO Huijie, WANG Gang

- Pulse-jet cleaning performance of sintered filter cartridge dust collector
 - WANG Yunduan, JING Jie, MAO Wenhao, LI Yang, PENG Yuyan, HUANG Wanlan, ZHANG Mingxing
- Preparation of NiO modified ZnO gas sensing material and its gas sensing properties for ethyl acetate

- REN Yitong, DANG Xiaoqing, WANG Gen, WANG He, KOU Yongkang, YAN Zimeng
 1673 Efficient degradation of phenol contamination in groundwater based on in-situ infiltration enhancement with ultrasound treatment
 - LI Siyuan, ZHAO Yan, GENG Zhenkun, JI Mingxiu, YANG Shengke, MOHAMED Elouaaziki, HUO Xinyuan, ZHANG Ping, MA Rui
- 1681 Methodology of quantitative groundwater environmental risk assessment and a case analysis of a landfill site

HOU Shaolin, LI Jing, CHEN Mengfang, LI Yilian, HAN Lu, WU Wenwei, WU Wenpei, ZHOU Yuan, LI Lina

- Ultrasonic pretreatment on the influence of sludge convective drying and thermodynamic analysis JIN Zhihao, LIU Zaihan, YI Jing, ZHANG Kai
- 1703 A case analysis of the application of alkali white mud to the deacidification of flue gas in semi-dry waste incineration system WU Liang, LI Qingwu, FAN Jiarong, XIE Bing, LU Jiawei
- 1713 The spatial-temporal variation trend and influencing factors of medical waste generation in Anhui Province SUN Mingzhen, YANG Ting, MENG Jingjing, LI Yiyi
- Study on electrochemical deintercalation to enhance the high-efficiency purification of metallurgical graphite residue from spent lithium battery materials

LIU Zimeng, DING Lixin, JIANG Tao, YUAN Xue, ZHANG Guangwen

- 1732 Smart wastewater management based on new intelligent control system: Innovation and practice ZHANG Lujing, ZHANG Wei, TAN Cheng, HUANG Xiaolin
- 1738 Analysis and suggestions on the key and difficult points of upgrading and expansing of typical urban sewage treatment plant in Jiangsu Province

ZHOU Liang, SHEN Xiaohui, GUO Fangzheng, ZHANG Yaohui, JIANG Yongwei

- 1744 The impact of a typical dust weather on air quality and the source of the dust in Guanzhong region WANG Lei, LIU Xiao, CHEN Hao, YAN Dongjie, WANG Yongping, CAI Huan, ZHANG Jiayin, ZHANG Qinming, HE Ying
- 1754 Environmental impact of semi-steel radial tires based on life cycle assessment theory

XIN Chunlin, JIANG Bowen, ZHANG Yuemeng, LIU Shixiong, LI Yan, HAN Dongli, QI Xuezhi, YANG Jianliang