



环境卫生工程

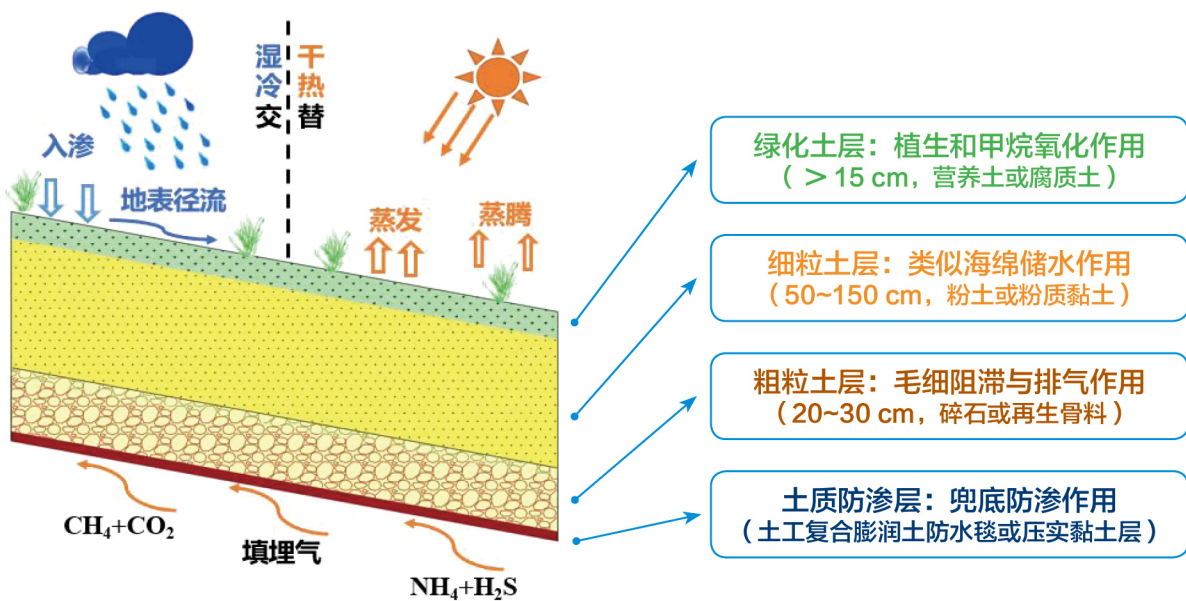
ENVIRONMENTAL SANITATION ENGINEERING

封面
文章

生态型土质覆盖层工作原理及其在垃圾填埋场封场治理中的应用

詹良通, 冯嵩, 李光耀, 吴涛, 丰田

导语 生态型土质覆盖层一般由绿化土层、细粒土层、粗粒土层与土质防渗层组成, 通过土体孔隙储水、毛细阻滞、水气相互阻滞、甲烷菌氧化等作用, 实现防渗、闭气、植生与碳减排多种功能。受益于我国雨热植生同期气候特征与生活垃圾填埋结束后产气速率快速衰减特点, 生态型土质覆盖层在我国生活垃圾填埋场封场治理及生态修复中具有天生的适用性, 建设成本仅为传统含土工膜的复合覆盖层的 50%, 其推广应用具有显著的生态、环境与经济效益。



绿化土层: 植生和甲烷氧化作用
(> 15 cm, 营养土或腐质土)

细粒土层: 类似海绵储水作用
(50~150 cm, 粉土或粉质黏土)

粗粒土层: 毛细阻滞与排气作用
(20~30 cm, 碎石或再生骨料)

土质防渗层: 兜底防渗作用
(土工复合膨润土防水毯或压实黏土层)

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目次

城乡生活垃圾填埋与二次污染控制

- 1 生态型土质覆盖层工作原理及其在垃圾填埋场封场治理中的应用 詹良通, 冯嵩, 李光耀, 吴涛, 丰田
21 垃圾填埋场中汞和甲基汞环境行为研究展望 安俞炜, 张睿, 杨舒, 王洋清, 赵由才, 宋立岩

有机固废生物处理与高值化利用

- 30 污泥厌氧消化产沼性能强化的工程措施研究 申世峰, 郭兴芳, 顾森, 李劭, 熊会斌
35 机械分选制浆的餐厨垃圾制备生物炭的探究 满丽萍, 郭虎, 吴元, 朱丽可, 张力, 郑云锋
41 市政污泥协同农林废物好氧发酵中试研究 黄庆, 刘惠琼, 郑恒, 汤婷, 刘同庆, 周耀渝

热化学处理与烟气污染控制

- 48 高参数垃圾焚烧余热锅炉受热面的防腐措施与实践 龙吉生, 高峰, 刘亚成
55 危险废物焚烧系统CO排放控制与技术改造实践 毛威, 郑先强, 王凡, 范丽君
60 垃圾焚烧发电厂推料器速度控制探讨 马高品

固体废物处理过程衍生污染控制

- 64 石油烃污染土壤应急处置修复工程实例 王建功, 李阳, 韩檬
69 退役炼钢厂地块多环芳烃污染土壤原位化学氧化工程实践 郑福居, 张宸, 袁珊珊, 巢军委, 宋震宇, 杨伟
74 重金属污染土壤联合强化淋洗修复技术研究进展 谭学军, 向甲甲, 殷瑶, 高强, 孙瑞, 黄晟

环境卫生管理与评价体系

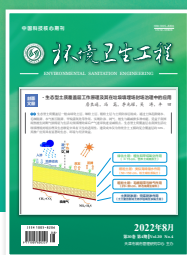
- 83 垃圾分类大目标背景下的回收指标研究 刘畅, 童琳
89 静脉产业园区生态环境效益评估指标体系的构建与应用——以上海老港固废综合利用基地为例 刘抒悦
96 我国环卫企业盈利能力现状研究——基于杜邦分析法 赵国智

实用技术与实践优秀案例

- 101 常州市餐厨废弃物综合处置一期工程项目 徐刚, 陆祥昕, 徐璟奇, 徐兴铃, 史东晓
104 城镇污水处理厂污泥高干脱水炭化处置技术 刘程, 汪军, 徐汝民, 恽壮志, 陈涛
106 福州市乌山西路城市管理综合体项目 钟增良
108 天津市机扫水洗作业监管与大数据统计平台案例 兰浩, 兰小平, 王克磊, 焦春宝, 孙全立

固废前沿与行业资讯

- 111 综述: 真菌毒素、抗生素和微塑料在餐厨垃圾厌氧共消化中的赋存、影响及去除策略
112 不容小觑的碎、微塑料大气传输途径: 由偏远干旱地区农田向城市



CONTENTS

Landfills in Urban and Rural Areas, and Secondary Pollution Control

- 1 Working Principle of Ecological Soil Covers and Its Application in Landfill Sealing Treatment
ZHAN Liangtong, FENG Song, LI Guangyao, WU Tao, FENG Tian
- 21 Environmental Behavior of Mercury and Methylmercury in Landfills : A Review and Perspective
AN Yuwei, ZHANG Rui, YANG Shu, WANG Yangqing, ZHAO Youcai, SONG Liyan

Biological Treatment and High-value Utilization of Organic Solid Waste

- 30 Research on Engineering Measures for Enhancing the Performance of Methane Production of Sludge Anaerobic Digestion
SHEN Shifeng, GUO Xingfang, GU Miao, LI Mai, XIONG Huibin
- 35 Study on the Preparation of Biochar from Food Waste by Mechanical Sorting and Pulping
MAN Liping, GUO Hu, WU Yuan, ZHU Like, ZHANG Li, ZHENG Yunfeng
- 41 Pilot Study on Aerobic Fermentation of Municipal Sludge with Agricultural and Forestry Wastes
HUANG Qing, LIU Huiqiong, ZHENG Heng, TANG Ting, LIU Tongqing, ZHOU Yaoyu

Thermochemical Treatment and Flue Gas Pollution Control

- 48 Anti-corrosion Measures and Practice of Heat Transfer Components in High Parameter Waste Incineration Heat Boilers
LONG Jisheng, GAO Feng, LIU Yacheng
- 55 CO Emission Control and Technical Reform Practice of Hazardous Waste Incineration System
MAO Wei, ZHENG Xianqiang, WANG Fan, FAN Lijun
- 60 Discussion on Feeder Speed Control in Waste Incineration Power Plant
MA Gaopin

Secondary Pollution Control of Solid Waste Treatment Process

- 64 An Example of the Emergency Treatment and Remediation Engineering for Petroleum Hydrocarbon Contaminated Soil
WANG Jiangong, LI Yang, HAN Meng
- 69 Engineering Practice of In-situ Chemical Oxidation of PAHs Contaminated Soil from Decommissioned Steelworks
ZHENG Fujun, ZHANG Chen, YUAN Shanshan, CHAO Junwei, SONG Zhenyu, YANG Wei
- 74 Research Progress of Combined Strengthening Leaching Remediation Technology for Heavy Metal Contaminated Soil
TAN Xuejun, XIANG Jijia, YIN Yao, GAO Qiang, SUN Rui, HUANG Sheng

Management and Assessment Framework of Environmental Sanitation

- 83 Research on Recycling Index Under the Background of the Goal of MSW Classification
LIU Chang, TONG Lin
- 89 Construction and Application of an Evaluation Indicator System for Eco-Environmental Benefit of Vein Industrial Parks : A Case Study of Shanghai Laogang Solid Waste Comprehensive Utilization Base
LIU Shuyue
- 96 Research on the Profitability of Sanitation Enterprises in China : Based on Dupont Analysis
ZHAO Guozhi

Excellent Examples of Practical Technology and Practice

- 101 Changzhou Kitchen Waste Comprehensive Disposal Phase I Project
XU Gang, LU Xiangxin, XU Jingqi, XU Xingling, SHI Dongxiao
- 104 Advanced Dewatering and Carbonization Disposal Technology of Sludge in Urban Sewage Treatment Plant
LIU Cheng, WANG Jun, XU Rumin, YUN Zhuangzhi, CHEN Tao
- 106 Project of Urban Management Complex in Wushan West Road of Fuzhou
ZHONG Zengliang
- 108 Case Study of Tianjin Machine Sweeping and Washing Operation Supervision and Big Data Statistics Platform
LAN Hao, LAN Xiaoping, WANG Kelei, JIAO Chunbao, SUN Quanli