

洁净煤技术

第 29 卷 第 10 期 (总第 158 期) 2023 年 10 月

目 次

专家述评

煤燃烧非常规污染物排放控制 张军营, 崔向峥, 王志康, 王建豪, 肖日宏, 熊卓, 赵永椿(1)

2060 碳中和

大宗风电退役风机叶片资源化回收利用技术研究进展
..... 马文静, 张宇彤, 杨春振, 胡中发, 王中权, 孙锦余, 谭厚章, 王学斌(17)

“青年科学家”专栏

准东煤燃烧过程中钠迁移转化机制研究进展
..... 马瑞, 魏博, 范卫东, 姚强, 谭厚章, 姚洪, 朱权, 乌晓江, 孔成栋, 马小晶(27)

生物质替代燃料在水泥行业的应用进展 王俊杰, 杨华伟, 湛月平, 柴祯, 蔡军, 朱治平(54)

气流床煤气化熔渣流动行为参数预测模型的研究进展
..... 赵超越, 白永辉, 宋旭东, 苏曙光, 吕鹏, 王焦飞, 于广锁, 姚敏(66)

“中国工程热物理学会·燃烧学学术年会”专栏

$H_2O_2/Fe_2(MoO_4)_3$ 体系中 H_2O_2 吸附分解及 NO 氧化行为的 DFT 研究
..... 刘璇, 吕强, 王长安, 车得福, 李彩亭(82)

超临界水氛围下萘开环机理 赵浩, 张英佳, 黄佐华(91)

金属氧化物与掺氮生物质协同吸附 CO_2 机理 汪辉春, 王莹, 顾明言, 陈萍(98)

氨煤混燃过程中单颗粒煤粉着火特性 吴梓秋, 黄骞, 马鹏, 杨远平, 司桐, 李水清(108)

典型医疗废弃物热解行为及产物特性 雷苏, 李爱军, 吴扬威, 姚洪, 张桐, 胡红云(116)

研究论文

制储氢技术经济性分析与前景展望 丁宁, 陈千惠, 刘丹禾, 齐文义(126)

超临界墙式切圆锅炉低负荷燃烧特性 尤默, 陈磊, 尚勇, 高爱国, 苏胜, 向军(145)

污泥燃烧过程氮迁移转化机理 赵亮, 王欣, 黄宝成, 孙瑜, 薛永明, 张海(153)

Na-K 协同作用对湿法脱硝 NO_x 演化过程的影响机制
..... 邵然磊, 韩世旺, 玄承博, 王鲁元, 张兴宇, 程星星, 王志强(166)

氧弹燃烧过程煤中氟的释放和捕集影响因素 陈思涵, 隋艳, 皮中原, 方全国(176)

煤气化废水处理研究进展 张波涛, 陈贵锋, 彭万旺(185)

磁场对重介质旋流器介质稳定性的影响 杜鹏涛, 赵世永, 肖雨辰, 杨珍妮(199)

期刊基本参数: CN 11-3676/TD * 1995 * m * A4 * 206 * zh * P * ¥35.00 * 1000 * 17 * 2023-10

本期执行编辑: 常明然

Clean Coal Technology

Vol.29 No.10 (Series No.158) Oct. 2023

CONTENTS

Invited Review

Emission control of unconventional pollutants during coal combustion ZHANG Junying, CUI Xiangzheng, WANG Zhikang, WANG Jianhao, XIAO Rihong, XIONG Zhuo, ZHAO Yongchun (1)

Column for Carbon Neutrality

Research progress on resource recycling technology of retired wind turbine blades in bulk wind power plants MA Wenjing, ZHANG Yutong, YANG Chunzhen, HU Zhongfa, WANG Zhongquan, SUN Jinyu, TAN Houzhang, WANG Xuebin (17)

Column for Young Scientist

Research progress of sodium migration and transformation during combustion of Zhundong coals in China MA Rui, WEI Bo, FAN Weidong, YAO Qiang, TAN Houzhang, YAO Hong, ZHU Quan, WU Xiaojiang, KONG Chengdong, MA Xiaojing (27)

Application progress on biomass alternative fuel in cement industry WANG Junjie, YANG Huawei, ZHAN Yueping, CHAI Zhen, CAI Jun, ZHU Zhiping (54)

Research progress on prediction model of fluidity behavior parameters of molten slag in the entrained flow bed coal gasification ZHAO Chaoyue, BAI Yonghui, SONG Xudong, SU Weiguang, LYU Peng, WANG Jiaofei, YU Guangsuo, YAO Min (66)

Special Topic on China National Symposium on Combustion

DFT investigation on H₂O₂ adsorption, decomposition and NO oxidation behaviors in H₂O₂/Fe₂(MoO₄)₃ system LIU Xuan, LYU Qiang, WANG Chang'an, CHE Defu, LI Caiting (82)

Naphthalene rings cleavage mechanism in supercritical water ... ZHAO Hao, ZHANG Yingjia, HUANG Zuohua (91)

Mechanism of synergistic adsorption of CO₂ by metal oxides and nitrogen-doped biomass WANG Huichun, WANG Ying, GU Mingyan, CHEN Ping (98)

Characteristics of single-coal-particle ignition in ammonia-coal cofiring process WU Ziqiu, HUANG Qian, MA Peng, YANG Yuanping, SI Tong, LI Shuiqing (108)

Pyrolysis behavior of typical medical waste and its product characteristics LEI Su, LI Aijun, WU Yangwei, YAO Hong, ZHANG Tong, HU Hongyun (116)

Research Artides

Technical economic prospect on hydrogen production and storage strategy: A critical analysis DING Ning, CHEN Qianhui, LIU Danhe, QI Wenyi (126)

Low load combustion characteristics of supercritical wall type tangentially fired boiler YOU Mo, CHEN Lei, SHANG Yong, GAO Aiguo, SU Sheng, XIANG Jun (145)

Mechanistic study of nitrogen migration and transformation during sludge combustion process ZHAO Liang, WANG Xin, HUANG Baocheng, SUN Yu, XUE Yongming, ZHANG Hai (153)

Influence mechanism of Na-K synergism on the evolution of NO_x in wet NO reduction SHAO Ranlei, HAN Shiwang, XUAN Chengbo, WANG Luyuan, ZHANG Xingyu, CHENG Xingxing, WANG Zhiqiang (166)

Factors affecting release and capture of fluorine in coal during oxygen bomb combustion CHEN Sihan, SUI Yan, PI Zhongyuan, FANG Quanguo (176)

Review on treatment technologies of coal gasification wastewater ZHANG Botao, CHEN Guifeng, PENG Wanwang (185)

Influence of magnetic field on the medium stability of dense medium cyclone DU Pengtao, ZHAO Shiyong, XIAO Yuchen, YANG Zhenni (199)