

洁净煤技术

第30卷 第11期 (总第171期) 2024年11月

目 次

2060 碳中和专栏

- CO_x高选择性加氢制低碳烯烃研究进展 杨庆伟, 孙哲毅, 邵斌, 胡军 (1)
- 研究论文**
- 炼钢转炉低质煤气在旋风分离器中的高效燃烧特性研究 王梓熠, 李森, 魏小林, 赵京, 李博, 姚远 (13)
- 差异化电子密度特征基团对煤氮迁移转化的影响机理研究 王欣, 张海, 王凯, 范卫东 (24)
- 煤掺氨燃烧中 Na 对氨/焦还原 NO 的机理 张保华, 曲名新, 何文俊, 庞波, 朱鸿玮, 徐静颖, 徐义书 (33)
- 温度对松木刨花 CO₂ 气化过程 NO_x 和 SO₂ 排放特性影响 赵彦, 张成, 马仑, 李君臣, 方鼎立, 谭鹏, 方庆艳, 陈刚 (44)
- 声波团聚净化火电 300 MW 机组湿法脱硫后烟气试验研究 魏泽坤, 黄亚继, 刘宇清, 王圣, 张荣初, 丁雪宇, 李雨欣, 李金壘, 张雪伟, 朱志成, 李志远 (51)
- 基于颗粒示踪的循环流化床锅炉煤燃烧残碳量预测 马张珂, 程乐鸣, 李立垚, 张维国, 郭强 (59)
- 催化滤袋脱硝性能及垃圾焚烧烟气的协同净化 丁得龙, 吴哲鹏, 葛春亮, 马如双, 张屹覃, 韦廷璠, 胡达清, 杨建国 (66)
- 平板式脱硝催化剂的抗砷中毒性能 岳彦伟, 黄力, 王素芹, 纵宇浩, 王虎, 李金珂, 韩沛, 谢兴星, 马罗宁, 高义博 (75)
- 燃煤电厂烟气 CO₂ 捕集化学吸收剂研发进展 贺雪峰, 樊灏, 沈振兴, 常甜, 彭勤, 宋博 (82)
- CuGa₂ 电催化 CO₂ 还原制合成气 张军峰, 魏书洲, 王畅, 曲同鑫, 熊卓, 张军营, 赵永椿 (97)
- 潮汐式嗜氢型甲烷化性能及其用于 CO₂ 富液再生可行性 苗佳慧, 王建城, 代雅男, 徐恒, 张佳音, 赵敏楠 (104)
- 玉米秸秆水热炭化预处理制备水煤浆及其成浆特性 张亦雯, 丁路, 杨明明, 程晨, 于广锁 (112)
- 不同酸浸过程电石渣中杂质离子随 Ca²⁺ 浸出特性 晋鹤宁, 张鹏云, 张亚斌, 郭彦霞 (123)

Clean Coal Technology

Vol.30 No.11 (Series No.171) Nov. 2024

CONTENTS

Column for Carbon Neutrality

- Research progress in highly selective hydrogenation of CO_x to light olefins YANG Qingwei, SUN Zheyi, SHAO Bin, HU Jun (1)

Research Articles

- Study on efficient combustion characteristics of converter low-quality gas from steelmaking in cyclone separator WANG Ziyi, LI Sen, WEI Xiaolin, ZHAO Jing, LI Bo, YAO Yuan (13)
- Mechanistic study of the effect of differential electron density characteristic groups on the nitrogen migration transformation in coal WANG Xin, ZHANG Hai, WANG Kai, FAN Weidong (24)
- Mechanism study of Na on NO reduction by ammonia and char during ammonia-coal co-firing process ZHANG Baohua, QU Mingxin, HE Wenjun, PANG Bo, ZHU Hongwei, XU Jingying, XU Yishu (33)
- Effect of temperatures on emission characteristics of NO_x and SO₂ for pine shaving under CO₂ gasification ZHAO Yan, ZHANG Cheng, MA Lun, LI Junchen, FANG Dingli, TAN Peng, FANG Qingshan, CHEN Gang (44)
- Experimental of purifying flue gas after wet desulfurization in thermal power 300 MW units by acoustic agglomeration WEI Zekun, HUANG Yaji, LIU Yuqing, WANG Sheng, ZHANG Rongchu, DING Xueyu, LI Yuxin, LI Jinlei, ZHANG Xuewei, ZHU Zhicheng, LI Zhiyuan (51)
- Carbon residue prediction of coal combustion in circulating fluidized bed boiler based on particle tracer MA Zhangke, CHENG Leming, LI Liyao, ZHANG Weiguo, GUO Qiang (59)
- Denitration performance of catalytic filter bag and synergistic purification of waste incineration flue gas DING Delong, WU Zhepeng, GE Chunliang, MA Rushuang, ZHANG Yiqin, WEI Tingfan, HU Daqing, YANG Jianguo (66)
- Investigation of arsenic resistance of plate-type De-NO_x catalyst YUE Yanwei, HUANG Li, WANG Sugui, ZONG Yuhao, WANG Hu, LI Jinke, HAN Pei, XIE Xingxing, MA Luoning, GAO Yibo (75)
- Development progress of chemical absorbents for carbon dioxide chemical absorption from flue gas of coal-fired power plants HE Xuefeng, FAN Hao, SHEN Zhenxing, CHANG Tian, PENG Qin, SONG Bo (82)
- CO₂ reduction to syngas by CuGa₂ electrocatalysis ZHANG Junfeng, WEI Shuzhou, WANG Chang, QU Tongxin, XIONG Zhuo, ZHANG Junying, ZHAO Yongchun (97)
- Performance of tidal hydrogenotrophic methanation and its feasibility for regenerating CO₂-loaded solutions MIAO Jiahui, WANG Jiancheng, DAI Yanan, XU Heng, ZHANG Jiayin, ZHAO Minnan (104)
- Preparation and slurry ability of coal water slurry with hydrothermal carbonization pretreatment of corn straw ZHANG Yiwen, DING Lu, YANG Mingming, CHENG Chen, YU Guangshuo (112)
- Leaching characteristics of impurity ions with Ca²⁺ in calcium carbide slag during different acid leaching processes JIN Hening, ZHANG Pengyun, ZHANG Yabin, GUO Yanxia (123)