

洁净煤技术

第 29 卷 第 11 期 (总第 15+ 期) 2023 年 11 月

目 次

2060 碳中和

热化学硫碘循环水分解制氢研究进展 王智化,曾俊杰,何 勇,李明阳,王晓丁(1)

“青年科学家”专栏

不同载体粒径的催化剂对甲烷氧化还原 NO_x 特性及机理 陈 晨,安东海,宋佳霖,程星星(25)

碳基二氧化碳吸附材料研究进展 于 航,孟 洪,杨祥富,金君素(35)

煤基炭膜处理废水的研究进展 韩 倩,刘志铭,杨小芹,林 喆,秦志宏,孔维维(49)

研究论文

褐煤及其低温热解半焦中可溶多环芳烃特征 卢梦仟,李 珊,石运固,张 慧,梁汉东(58)

大块煤热解温度场扩展规律 苏倩倩,李文军,陈艳鹏,李天宇(66)

Y 型分子筛中金属离子落位的调控及解析方法研究进展
..... 赵晋川,温志慧,王静静,常丽萍,鲍卫仁,马静红,廖俊杰(74)

城市污泥与煤矸石掺烧过程中汞的迁移转化特性 段旺智,张凯华,张 锴(83)

660 MW 超超临界 CFB 锅炉失电壁温计算及运行措施
..... 周 旭,周妍君,李维成,鲁佳易,刘行磊,邓启刚,李银龙,杨 冬(91)

基于碳捕集的水泥窑余热深度利用系统性能分析 许德操,李显桃,李 楠,王义函,陈 衡,潘佩媛(99)

煤液化残渣萃取物与煤共气化的灰渣特性 刘 臻,李 君,张建胜(113)

煤气化渣高值化利用的研究进展及应用展望 冯向港,王海燕,葛奋飞,张印民,张永锋(122)

电石渣焙烧制备活性氧化钙及粒级影响规律
..... 颜 坤,朱干宇,李会泉,郑跃武,张建波,杨 悦,邢 岗,周少湘,常永生,孟子衡(133)

粉煤灰碱激发制备地质聚合物研究进展 孙 浩,马志斌,路广军,刘晋艳,廖洪强(140)

高固废掺量水泥基矿井充填材料 左然芳,冯 波,董 阳,张 栋(154)

基于煤氢协同与柴油动力的露天矿卡综合排放性对比 刘少权,王海军,史翊翔(161)

浓缩煤层气深冷液化提氮工艺 许继宗,李雪飞,袁崇亮,王永忠,张军良,郭昊乾,李小亮(167)

期刊基本参数:CN 11-3676/TD * 1995 * m * A4 * 177 * zh * P * ¥35.00 * 1000 * 17 * 2023-11

本期执行编辑:张 鑫

Clean Coal Technology

Vol.29 No.11 (Series No.15+) Nov. 2023

CONTENTS

Column for Carbon Neutrality

Research progress of thermochemical sulfur-iodine cycle water decomposition for hydrogen production
 WANG Zhihua, ZENG Junjie, HE Yong, LI Mingyang, WANG Xiaoding (1)

Column for Young Scientist

Characteristics and mechanism of methane redox NO_x by catalysts with different carrier particle sizes
 CHEN Chen, AN Donghai, SONG Jialin, CHENG Xingxing (25)

Research progress of carbon dioxide adsorption by carbon-based materials
 YU Hang, MENG Hong, YANG Xiangfu, JIN Junsu (35)

Recent progress on coal-based carbon membrane in wastewater treatment
 HAN Qian, LIU Zhiming, YANG Xiaoqin, LIN Zhe, QIN Zhihong, KONG Weiwei (49)

Research Articles

Characterization of soluble polycyclic aromatic hydrocarbons in lignite and its low-temperature pyrolysis semi-coke
 LU Mengqian, LI Shan, SHI Yungu, ZHANG Hui, LIANG Handong (58)

Expansion law of temperature field during bulk coal pyrolysis
 SU Qianqian, LI Wenjun, CHEN Yanpeng, LI Tianyu (66)

Research progress on regulation and analytical methods of metal ion location in Y-type zeolite
 ZHAO Jinchuan, WEN Zhihui, WANG Jingjing, CHANG Liping, BAO Weiren, MA Jinghong, LIAO Junjie (74)

Migration and transformation characteristics of mercury during mixing of municipal sludge with coal gangue
 DUAN Wangzhi, ZHANG Kaihua, ZHANG Kai (83)

Calculation of heating surface wall temperature and operation measures for 660 MW ultra supercritical CFB boiler under electricity failure
 ZHOU Xu, ZHOU Yanjun, LI Weicheng, LU Jiayi, LIU Xinglei, DENG Qigang, LI Yinlong, YANG Dong (91)

Performance analysis of waste heat deep utilization of cement plant based on carbon dioxide capture
 XU Decao, LI Xiantao, LI Nan, WANG Yihan, CHEN Heng, PAN Peiyuan (99)

Ash and slag characteristics under co-gasification of coal and extract residue of direct coal liquefaction residue
 LIU Zhen, LI Jun, ZHANG Jiansheng (113)

Research progress and application prospect of high-value utilization of coal gasification slag
 FENG Xianggang, WANG Haiyan, GE Fenfei, ZHANG Yinmin, ZHANG Yongfeng (122)

Preparation of active calcium oxide by calcining calcium carbide slag and the effect of particle size
 YAN Kun, ZHU Ganyu, LI Huiquan, ZHENG Yuewu, ZHANG Jianbo, YANG Yue, XING Gang, ZHOU Shaoxiang, CHANG Yongsheng, MENG Ziheng (133)

Review on geopolymers preparation by alkali activation of coal fly ash
 SUN Hao, MA Zhibin, LU Guangjun, LIU Jinyan, LIAO Hongqiang (140)

Coal mine filling material based on cement with high solid waste content
 ZUO Ranfang, FENG Bo, DONG Yang, ZHANG Dong (154)

Contrastive research on comprehensive emission of haul truck based on coal-hydrogen synergy and diesel engine
 LIU Shaoquan, WANG Haijun, SHI Yixiang (161)

Helium extraction process by cryogenic liquefaction of enriched coalbed methane
 XU Jizong, LI Xuefei, YUAN Chongliang, WANG Yongzhong, ZHANG Junliang, GUO Haoqian, LI Xiaoliang (167)