



洁净煤技术

刊名题字 邹家华

双月刊 (1995 年创刊)

国内外发行

JIEJING MEI JISHU

2011 年第 1 期

第 17 卷第 1 期(总第 71 期)

2011 年 2 月 25 日出版

主管 国家煤矿安全监察局

主办 煤炭科学研究总院
煤炭工业洁净煤
工程技术研究中心

总 编 宁 宇
主 编 宫月华
编辑部主任 武英刚
策划部主任 孙淑君
新闻部主任 宫在芹 白娅娜

编 辑 出 版 《洁净煤技术》编辑部
广 告 《洁净煤技术》广告部
发 行 《洁净煤技术》编辑部
印 刷 北京阳光彩色印刷有限公司

地 址 北京市和平里青年沟路 5 号
煤炭科学研究总院内
邮 政 编 码 100013
电 话 (010)84262927 84262909
传 真 (010)84262927
电 子 信 箱 jjmjs@263.net
网 址 www.jjmjs.com.cn

国 外 发 行 中国国际图书贸易总公司
(北京 399 信箱)
国 外 代 号 1430Q

刊 号 ISSN 1006-6772
CN 11-3676/TD
广告许可证号 京朝工商广字第 0039 号

定 价 国内全年 120.00 元
国外全年 60 美元

目 次

专论与综述

- 1 褐煤提质技术开发现状及分析 朱书全
- 5 煤炭资源洁净等级评价研究 杨淑婷,唐跃刚,解锡超,等
- 9 焦炉气制成合成氨对循环经济的意义 高荣川,谢红飞

洗选加工

- 12 水质变化对煤泥水絮凝沉降的影响 吉登高,郭旭龙,蔡光顺,等
- 15 新型捕收剂在辛置选煤厂的应用 任 冲
- 18 喷射式浮选机浸没式充气搅拌装置结构参数的试验 江明东,王微微,闫锐敏,等
- 22 煤泥水处理药剂的探索与实践 王佳雁,龚 伦
- 25 辛置选煤厂介耗管理 时宏杰

转化利用

- 27 煤制天然气(SNG)技术现状 钱 卫,黄于益,张庆伟,等
- 33 煤中灰成分催化指数的相关性 梁建华,史世庄,张康华,等
- 37 复合碱型腐植酸型煤粘结剂的特性研究 张 钊,周霞萍,王 杰

煤炭燃烧

- 41 基于对象的燃煤锅炉对流受热面链式管理模式研究 赵 超,张忠孝,周 托,等
- 46 单喷嘴气化炉内稠密气-固两相旋流浓度场研究 姚 敏,刘万洲,王 俭,等
- 51 抛煤机链条炉增拱冷态空气流场实验与数值研究 滕 叶,张忠孝,周 托,等

煤质技术

- 55 石灰石湿法烟气脱硫添加剂应用及评价方法 张 岩,周 佑
- 59 中国褐煤在活性焦制备及应用方面的发展前景 张旭辉,刘振强,苗文华,等

期刊基本参数:CN11-3676/TD*1995*b*A4*132*zh*p*¥20.00*5000*35*2011-02

2011 年第 16 卷第 1 期

目 次

- 62 掺烧方式对神华煤结渣趋势的影响 顾大钊,陈振龙,顾小愚
65 粉煤灰负载壳聚糖对磷吸附的热力学研究

李 玲,单爱琴,蔡 静

- 69 煤灰熔融温度计算公式的研究 牛苗任,孙永斌,林碧华,等
73 同煤集团煤质增收分析 郭 有

煤矿环保

- 76 化学药剂对粉煤灰改性作用的研究 朱启红
80 铜川矿区矿井水资源化的研究 郭 欣
84 玉环电厂降低 NO_x 的排放措施 周 冲
88 燃用垃圾衍生燃料、废塑料、废木的锅炉的研发与应用

李 荣,任 远

- 91 一站服务型节能管理方法探讨 谢继东,姜 英,徐振刚
94 张北煤矿地面钻孔抽采瓦斯及破断原因分析 郑竹林
97 基于 BP 神经网络的煤与瓦斯突出危险性的预测研究

刘 勇 江成玉

- 101 粉煤灰综合利用现状 孙建卫,刘海增,闵凡飞
105 煤矸石资源化利用现状及存在问题 刘志毅

问题探讨

- 108 突出危险煤层回采工作面区域预测研究
黄旭超,曹建军,马益民

- 112 彬长地区延安组含煤地层沉积特征
邓春苗,汤达祯,许 浩,等

- 116 埋管灌浆在厚煤层倾斜分层开采中的应用 张建军
119 辽河油田锦 25 区块下第三系沙一段辫状河三角洲沉积特征

刘 颖,崔 彬,林文姬,等

- 122 浆体管道中大颗粒干涉力研究 王铁力,赵利安
126 中国煤炭企业循环经济的发展 任 婷,马祥林,金允成

信息检索

- 4 欢迎订阅 2011 年《洁净煤技术》杂志
36 图书订购
72 乌兹别克斯坦将建成世界第 3 大天然气加工厂
75 11 个煤炭项目获国家科技奖励

CLEAN COAL TECHNOLOGY

FEBRUARY 2011

Vol. 17, No. 1 (Total 71)

Bimonthly

Responsible Institution:

State Administration of Work Safety

Sponsored by:

China Coal Research Institute,
Clean Coal Engineering Research
Center of Coal Industry

Manager Editor NING Yu
Chief Editor GONG Yue-hua
Editorial department director WU Ying-gang
Plan department director SUN Shu-jun
News department director GONG Zai-qin
BAI Ya-na

Edited and Published by:

Editorial Department of Clean Coal Technology

Advertised by:

Advertised Department of Clean Coal Technology

Distributed by:

Distribution Department of Clean Coal Technology

Address No. 5, Qingniangou Road, Hepingli, Beijing
Inside China Coal Research Institute

Post Code 100013
Telephone 86 - 10 - 84262927
86 - 10 - 84262909
Fax 86-10-84262909 84262927
E-mail jjmjs@263.net
Web-site www. jjmjs. com. cn

Overseas Distributed by:

China International Book Trading
Corp., P. O. Box 399, Beijing China
Overseas Subscription Code 1430Q

Periodical Registration No. ISSN 1006 - 6772
CN 11 - 3676/TD

Price (U.S.) \$ 10/One Issue
(U.S.) \$ 60/Year for Overseas

CLEAN COAL TECHNOLOGY

Vol. 17 No. 1 FEBRUARY 2011

CONTENTS

1	Development status and analysis of lignite quality improvement technology	ZHU Shu-quan
5	Research on clean potential assessment of coal resources	YANG Shu-ting, TANG Yue-gang, XIE Xi-chao, et al
9	Influence of coke oven gas ammonia on recycling economy	GAO Rong-chuan, XIE Hong-fei
12	Influence of water quality on coal slime flocculation flotation	JI Deng-gao, GUO Xu-long, CAI Guang-shun, et al
15	Application of a new collector in Xinzhi coal preparation plant	REN Chong
18	Study on structure parameters of submerged aeration mixing device in a jet-type flotation machine	JIANG Ming-dong, WANG Wei-wei, YAN Rui-min, et al
22	Study on flocculation chemicals of coal slime	WANG Jia-yan, GONG Lun
25	Medium consumption management of Xinzhi coal preparation plant	SHI Hong-jie
27	Development of synthetic technique of substitute natural gas (SNG) from coal	QIAN Wei, HUANG Yu-yi, ZHANG Qing-wei, et al
33	Interrelations of catalytic index of coal ash component	LIANG Jian-hua, SHI Shi-zhuang, ZHANG Kang-hua, et al
37	Study on characteristics of complex alkali humic acid as a binder of coal briquette	ZHANG Zhao, ZHOU Xia-ping, WANG Jie
41	Chain mode management of convection heating surface of coal burning boiler based on node objects	ZHAO Chao, ZHANG Zhong-xiao, ZHOU Tuo, et al
46	Study on two-dimensional dense gas-solid flow swirling particle concentration field in gasifier with single nozzle	YAO Min, LIU Wan-zhou, Wang Jian, et al
51	Numerical study on cold air flow field in chain stocker boiler added front arch	TENG Ye, ZHANG Zhong-xiao, ZHOU Tuo, et al
55	Application and evaluation of additive used in limestone wet flue gas desulphurization system	ZHANG Yan, ZHOU You
59	Development prospect on preparation and application of activated coke with China lignite	ZHANG Xu-hui, LIU Zhen-qiang, MIAO Wen-hua, et al
62	Impact on Shenhua coal's slagging tendency by mixed burning methods	GU Da-zhao, CHEN Zhen-long, GU Xiao-yu
65	Adsorption and thermodynamics study on phosphorus adsorption by fly ash-chitosan adsorbent	LI Ling, SHAN Ai-qin, CAI Jing
69	Calculation formula of coal ash melt temperature	NIU Miao-ren, SUN Yong-bin, LIN Bi-hua, et al
73	Analysis of coal quality benefits in Datong coal Mine Group	GUO You
76	Study on modification effect of chemical agent on coal ash	ZHU Qi-hong
80	Research on utilization of mine water in Tongchuan mining area	GUO Xin
84	Technical measures of reducing the NO _x emission in Yuhuan Power Plant	ZHOU Chong
88	Design and application of boiler firing RDF, RPF and waste wood	LI Rong, REN Yuan
91	Energy conservation management with one-stop service center	XIE Ji-dong, JIANG Ying, XU Zhen-gang
94	Study on gas drainage technology by surface drilling and breaking cause in Zhangbei Coal Mine	ZHENG Zhu-lin
97	Predetermination of coal and gas outburst based on BP neural network	LIU Yong, JIANG Cheng-yu
101	Research on multiple utilization of fly ash	SUN Jian-wei, LIU Hai-zeng, MIN Fan-fei
105	Utilization status and problems of gangue resource	LIU Zhi-yi
108	Regional prediction of coal mining face with coal outburst in potential	HUANG Xu-chao, CAO Jian-jun, MA Yi-min
112	Sedimentary characteristics of coal-bearing strata for Yanan Formation in Binchang region	DENG Chun-miao, TANG Da-zhen, XU Hao, et al
116	Application of buried grouting in thick coal seam inclined slicing	ZHANG Jian-jun
119	Sedimentary characteristics of Sha I Section braided delta in jin 25 Block	LIU Ying, CUI Bin, LIN Wen-ji, et al
122	Study on interference force to large suspended particles in slurry pipeline	WANG Tie-li, ZHAO Li-an
126	Development of circular economy of China coal enterprises	REN Ting, MA Xiang-lin, JIN Yun-cheng