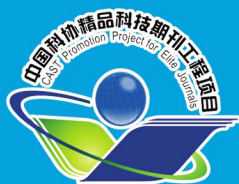
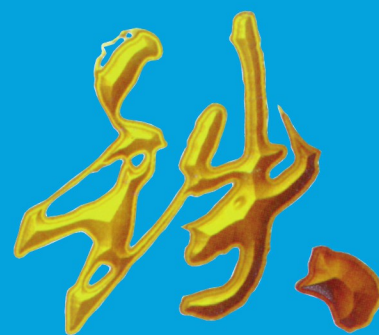
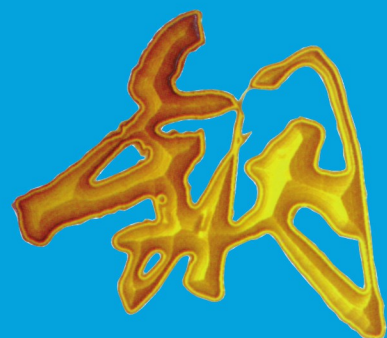


中文核心期刊 中国科技核心期刊 中国科学引文数据库来源期刊 中文科技期刊数据库收录期刊 中国学术期刊文摘收录期刊
SCOPUS数据库收录期刊 美国《金属文摘》收录期刊 美国《剑桥科学文摘》收录期刊 美国《化学文摘》收录期刊
日本科学技术文献速报收录期刊



ISSN 0449-749X
CN 11-2118/TF

6 (总第686期)
2023 Vol.58



IRON & STEEL

CSM

中 国 金 属 学 会
钢 铁 研 究 总 院 有 限 公 司 主 办
北 京 钢 研 柏 苑 出 版 有 限 责 任 公 司

目 次

综合论述

钢铁尘泥脱锌工艺的研究进展与展望…… 张玉柱, 寇鑫林, 田铁磊, 龙 跃, 靳鑫玉, 杨佳毅 1

原料与炼铁

H-C-O 体系质量及化学平衡衡算图的开发 …………… 沈峰满 12

不同反应性焦炭在炉料还原-软熔过程中的作用行为

…………… 兰臣臣, 邵建男, 张淑会, 刘 然, 毕忠新, 郝亚娜 18

基于煤岩法研究捣固工艺对焦炭性质干预程度

…………… 尚硕华, 邹 冲, 李建云, 折 媛, 刘诗薇, 施瑞盟 26

带式焙烧机球团原料预处理工艺优化…… 刘山平, 马 磊, 宋云锋, 过 刚, 雷 杰, 龙红明 36

南非 PMC 精粉与两种典型褐铁矿的配矿优化

…………… 侯 健, 白晨光, 扈玫瑰, 刘晓明, 黄小波, 郭兰芬 45

酒钢铁前系统氯元素迁移行为 …………… 蒋心泰, 鲁逢霖, 施煌禹, 王 翠, 张建良 53

炼钢

27SiMn 钢夹杂物特征及控制工艺优化 …………… 吕 明, 刘坤龙, 高邳喆, 宋保民, 张朝晖 61

电磁制动对薄板坯结晶器内冶金行为的影响 …………… 李学凯, 张燕超, 张彩军, 肖鹏程, 朱立光 72

压力加工

整辊式板形仪波形演变机理 …………… 张桐源, 于华鑫, 廖 霜, 杨 昇, 刘宏民 82

热镀锌机组沉没辊系关键工艺参数优化

…………… 张文军, 张 冀, 邱木生, 王孝建, 钱 胜, 白振华 93

钢铁材料

等温时效对 S32707 不锈钢析出行为和耐蚀性的影响

…………… 李国平, 张树才, 张彬彬, 林宝海, 李 恒 102

La-Ce 处理对 75Cr1 钢夹杂物和耐蚀性影响的工业试验

…………… 孟 泽, 李光强, 赵一将, 郑 庆, 曾 斌, 刘 昱 110

固态脱碳过程中锰钢微观组织演变及力学性能

…………… 洪陆阔, 艾立群, 孙彩娇, 孟凡峻, 王旭锋, 佟 帅 118

环保与能源

2022—2060 年中国废钢资源量分析预测 …………… 崔志峰, 上官方钦, 王方杰, 周继程, 徐安军 126

生物污泥还原钢铁厂含锌粉尘规律 …………… 魏汝飞, 张飞虎, 孟东祥, 龙红明, 李家新 134

技术交流

热镀锌沉没辊系轴端压力与锌渣的关系

…………… 崔熙颖, 刘格非, 钱 胜, 王孝建, 刘亚星, 白振华 143

征稿启事…………… (11)(92)(101)

CONTENTS

Technical Reviews

- Research progress and prospect of dezincing process of iron and steel dust and mud
..... ZHANG Yuzhu, KOU Xinlin, TIAN Tielei, LONG Yue, JIN Xinyu, YANG Jiayi 1

Raw Material and Ironmaking

- Development of H-C-O system mass balance and chemical equilibrium diagram SHEN Fengman 12
- Functional behavior of coke with different reactivity in reduction-softening-melting process of burden
..... LAN Chenchen, SHAO Jiannan, ZHANG Shuhui, LIU Ran, BI Zhongxin, QIE Yana 18
- Intervention degree of tamping process on properties of coke based on petrographic analysis of coal
..... SHANG Shuohua, ZOU Chong, LI Jianyun, SHE Yuan, LIU Shiwei, SHI Ruimeng 26
- Optimization of pretreatment process of pelletizing raw materials in belt roasters
..... LIU Shanping, MA Lei, SONG Yunfeng, GUO Gang, LEI Jie, LONG Hongming 36
- Optimization on ore-blending of PMC concentrate and two typical limonite ores
..... HOU Jian, BAI Chenguang, HU Meilong, LIU Xiaoming, HUANG Xiaobo, GUO Lanfen 45
- Migration behavior of chlorine elements in iron-making process of Jiuquan Iron and Steel (Group) Co., Ltd.
..... JIANG Xintai, LU Fenglin, SHI Huangyu, WANG Cui, ZHANG Jianliang 53

Steelmaking

- Inclusion characteristics and control process optimization of 27SiMn steel
..... LÜ Ming, LIU Kunlong, GAO Zhizhe, SONG Baomin, ZHANG Zhaohui 61
- Influence of electromagnetic braking on metallurgical behavior in thin plate crystallization
..... LI Xuekai, ZHANG Yanchao, ZHANG Caijun, XIAO Pengcheng, ZHU Liguang 72

Metal Forming

- Waveform evolution mechanism of whole roller flatness meter
..... ZHANG Tongyuan, YU Huaxin, LIAO Shuang, YANG Sheng, LIU Hongmin 82
- Optimization of key process parameters of sunk roll system of hot-dipped Al-Zn unit
..... ZHANG Wenjun, ZHANG Ji, QIU Musheng, WANG Xiaojian, QIAN Sheng, BAI Zhenhua 93

Materials

- Effect of isothermal aging on precipitation behavior and corrosion resistance of S32707 stainless steel
..... LI Guoping, ZHANG Shucai, ZHANG Binbin, LIN Baohai, LI Heng 102
- Industrial experimental on inclusion characteristics and corrosion resistance of La-Ce treated 75Cr1 steel
..... MENG Ze, LI Guangqiang, ZHAO Yijiang, ZHENG Qing, ZENG Bin, LIU Yu 110
- Microstructure evolution and mechanical properties of manganese steel during solid state decarburization
..... HONG Lukuo, AI Liqun, SUN Caijiao, MENG Fanjun, WANG Xufeng, TONG Shuai 118

Environmental Protection and Energy

- Analysis and prediction of scrap resources in China from 2022 to 2060
..... CUI Zhifeng, SHANGGUAN Fangqin, WANG Fangjie, ZHOU Jicheng, XU Anjun 126
- Law of zinc-bearing dust from iron and steel plant reduced by biological sludge
..... WEI Rufei, ZHANG Feihu, MENG Dongxiang, LONG Hongming, LI Jiaxin 134

Technology Exchange

- Relationship between axial end pressure and zinc slag of submerged roll system for hot galvanizing
..... CUI Xiyang, LIU Gefei, QIAN Sheng, WANG Xiaojian, LIU Yaxing, BAI Zhenhua 143

- Contribution Wanted Announcement (11)(92)(101)