钢铁研究学报
GANGTIE YANJIU XUEBAO
第 38 卷　第 9 期
2026 年 9 月 25 日出版
月刊　　1981 年创刊

目　　次

综合论述

转炉炉衬侵蚀机制及烧穿预警技术研究进展 …… 孟庆辉，李志新，辛同泽，郭艺雄，张艳龙，葛雨田，王　敏(1307)

冶炼与加工

典型铁精矿低温低碳制备含铁炉料的技术研究 …… 季志云，吕佳铭，李绍春，杜艳清，范晓慧，余　莹，王晓龙，甘　敏(1320)

烧结矿双级冷却装置内气固传热过程数值分析 …… 冯军胜，焦宇鸣，赵　亮，董　辉(1329)

烧结矿转运过程结构表征与性能演变研究 …… 魏青阳，何　飞，滕　宇，肖祖斌，曲常乐，肖　凯，王耀祖，王宇通(1340)

120 t 钢包底吹氩过程中气泡行为的数值模拟研究 …… 刘德华，邵　品(1348)

基于 RFE-SVR 的 RH 精炼终点 C 含量预测 …… 何奕波，宋大舟，李怡宏，薛玺临，华承健(1359)

凝固过程 304 不锈钢中钙改性夹杂物的转变行为 …… 黄　磊，凌　锐，王诗萌，王　勇，刘成松，张　华，倪红卫(1368)

长水口浇注位置对中间包使用寿命及钢水质量的影响 …… 彭　尊，胡　欣，李怡宏，华承健(1382)

薄带铸轧低碳钢塑性限制因素及机制研究 …… 冯庆晓，王雨奇，李化龙，郭天阳，杨　助，梁　肖(1397)

冷轧形变量对 Fe-35Mn-8Al-0.3C 轻质钢超塑性组织和力学性能影响 …… 刘　阳，张　婧，亢庆锋，王存宇，徐海峰，章小峰，曹文全(1406)

材料研究

临界退火温度对中锰钢组织及性能影响 …… 闫　潇，谢佳璇，王子纯，闫博伟，张　朋(1418)

微量 Cr 对 16 MnNiV 小口径无缝钢管组织性能的影响机制 …… 姜春晖，邓新吉，李昭东，曹燕光，李　源，魏　伟(1429)

去应力退火对选区激光熔化 TC4 钛合金的组织和腐蚀行为影响 …… 周慧玲，韩宇阳，李敬勇，乔岩欣，芦　笙(1443)

征稿启事 …… (1319,1339,1367,1428,1442)

期刊基本参数：CN 11-2133/TF * 1981 * m * 16 * 148 * zh * P * 100.00 * 1000 * 13 * 2026-9

责任编辑：邵燕静

JOURNAL OF IRON AND STEEL RESEARCH Vol. 38 No. 9
Monthly, Started Publication in 1981 September 25 2026

CONTENTS

Review

Research progress on erosion mechanism and burn-through early warning technology of converter lining ……
…… *MENG Qinghui*, *LI Zhixin*, *XIN Tongze*, *GUO Yixiong*, *ZHANG Yanlong*, *GE Yutian*, *WANG Min* (1307)

Smelting and Working

Technical research on low-temperature and low-carbon preparation of iron-bearing burdens from typical iron concentrates ……
…… *JI Zhiyun*, *LÜ Jiaming*, *LI Shaochun*, *DU Yanqing*, *FAN Xiaohui*, *YU Ying*, *WANG Xiaolong*, *GAN Min* (1320)
Numerical analysis of gas-solid heat transfer process inside two-stage cooling device for sinter ……
…… *FENG Junsheng*, *JIAO Yuming*, *ZHAO Liang*, *DONG Hui* (1329)
Structural characterization and property evolution of sinter during transfer ……
…… *WEI Qingyang*, *HE Fei*, *TENG Yu*, *XIAO Zubin*, *QU Changle*, *XIAO Kai*, *WANG Yaozu*, *WANG Yutong* (1340)
Numerical simulation study on bubble behavior during bottom blowing argon for 120 t ladle …… *LIU Dehua*, *SHAO Pin* (1348)
Prediction of end-point carbon content in RH refining based on RFE-SVR ……
…… *HE Yibo*, *SONG Dazhou*, *LI Yihong*, *XUE Xilin*, *HUA Chengjian* (1359)
Transformation behavior of calcium-modified inclusions in 304 stainless steel during solidification ……
…… *HUANG Lei*, *LING Rui*, *WANG Shimeng*, *WANG Yong*, *LIU Chengsong*, *ZHANG Hua*, *NI Hongwei* (1368)
Influences of long nozzle pouring position on tundish service life and molten steel quality ……
…… *PENG Zun*, *HU Xin*, *LI Yihong*, *HUA Chengjian* (1382)
Plasticity-limiting factors and mechanisms in strip-cast low-carbon steel ……
…… *FENG Qingxiao*, *WANG Yuqi*, *LI Hualong*, *GUO Tianyang*, *YANG Zhu*, *LIANG Xiao* (1397)
Effect of cold rolling reduction on superplastic microstructure and mechanical properties of Fe-35Mn-8Al-0.3C low-density steel ……
… *LIU Yang*, *ZHANG Jing*, *KANG Qingfeng*, *WANG Cunyu*, *XU Haifeng*, *ZHANG Xiaofeng*, *CAO Wenquan* (1406)

Materials Research

Effect of intercritical annealing temperature on microstructure and properties of medium Mn steel ……
…… *YAN Xiao*, *XIE Jiaxuan*, *WANG Zichun*, *YAN Bowei*, *ZHANG Peng* (1418)
Influence mechanism of trace chromium on microstructure and properties of 16MnNiV small-diameter seamless steel pipes ……
…… *JIANG Chunhui*, *DENG Xinji*, *LI Zhaodong*, *CAO Yanguang*, *LI Yuan*, *WEI Wei* (1429)
Effect of stress relief annealing on microstructure and corrosion behavior of selective laser melted TC4 titanium alloy ……
…… *ZHOU Huiling*, *HAN Yuyang*, *LI Jingyong*, *QIAO Yanxin*, *LU Sheng* (1443)