



ISSN 1004-0609
CODEN ZYJXFK

中国有色金属学报

The Chinese Journal of Nonferrous Metals

October 2018

Volume 28 Number 10

中国有色金属学会 主办
科学出版社 出版

目 次

材料科学与工程

不同冷轧路径下 ZX21 镁合金板材组织及力学性能调控机理

..... 谭超兰, 黄光杰, 黄信德, 曹玲飞, 曹 宇, 张成行, 李 伟(1949)

等温热处理对 ZC61-0.3Cr 镁合金半固态组织演变的影响

..... 黄晓锋, 马亚杰, 张 玉, 张乔乔, 郭 峰, 杨健长(1962)

基于新加工硬化率方法的 AZ80 镁合金动态再结晶临界条件 王忠堂, 霍 达, 于晓林(1972)

2195 铝锂合金平面应变压缩的流变行为与微观组织

..... 李 旭, 樊祥泽, 杨庆波, 杨 谋, 张 飞, 张志清(1980)

Cu掺杂6000系铝合金中 β'' 相的第一性原理研究 温柏杨, 贾志宏, 吴小志, 刘 庆(1991)

时效对固溶+冷轧7075铝合金力学性能和显微组织的影响 李 海, 陈 鹏, 王芝秀, 郑子樵(1999)

烧结温度对 Micro-FAST 制备 TC4 钛合金的影响 吴秀丽, 杨 屹, 杨 刚, 黄坤兰, 韦 辽, 吴明霞(2009)

激光熔覆锡基巴氏合金微观组织和力学性能 郝云波, 赵 凯, 杨 萍, 朱忠良, 杨 洋, 王联凤(2016)

基于热轧流程下 Cu-Ni-Si 合金组织和性能演变规律 曹光明, 王志国, 李成刚, 贾 飞, 张元祥(2024)

Co-Mo-Cr-Si 合金组织及其耐铝液腐蚀性能 刘永雄, 陈 欣, 尹付成, 欧林方, 李 智, 赵满秀(2033)

稀土Ce掺杂Ti基IrMn复合涂层电极的制备与性能 白茂金, 周 键, 王三反, 赵小云(2043)

先进超超临界汽轮机叶片用镍基合金的热变形行为 龚志华, 杨 钢, 殷会芳, 定 巍(2050)

Nb-Ti-Co 氢分离合金优化设计和渗氢性能: I. 合金相图和渗氢成分区域构建

..... 黄浩然, 闫二虎, 闵若男, 朱坤军, 赵光伟, 李新中, 徐 芬, 孙立贤(2058)

基于深度网络训练的铝热轧轧制力预报 魏立新, 魏新宇, 孙 浩, 王 恒(2070)

冶金工程 • 矿业工程 • 化学化工

- 富氧熔炼烟气中三氧化硫的形成与抑制.....郭学益,闫书阳,王亲猛,王松松,田庆华(2077)
- 锌精矿与锌浸渣协同浸出及氧化转化行为.....付中梦,邓志敢,魏 褚,李兴彬,李存兄,樊 刚(2086)
- 复杂金精矿火法冶炼高锑烟尘处理工艺.....张福元,徐 亮,赵 卓,郑雅杰,田勇攀,张玉明(2094)
- 基于人工神经网络模型的含锑硫化矿氧化浸出行为预测.....田庆华,洪建邦,辛云涛,郭学益(2103)
- 风化壳淋积型稀土矿浸出前后孔隙结构特性.....尹升华,齐 炎,谢芳芳,陈 勋,王雷鸣,邵亚建(2112)
- KF-KBF₄熔盐结构的 Raman 光谱表征.....胡宏伟,李 博,张 璇,万 涛(2120)
- 磁性膨润土吸附 Cr(VI)离子解吸再生性能.....邹成龙,梁吉艳,姜 伟(2127)
- 含镓明矾石梯级浸出与综合回收工艺.....朱茂兰,衷水平,黄中省,陈 杭,陈 晰,胡志彪(2136)
- 膏体料浆管道输送中粗颗粒迁移的影响因素分析.....颜丙恒,李翠平,吴爱祥,王少勇,侯贺子(2143)
- 充填体孔隙结构与中观参数跨尺度关联特征.....胡建华,蒋 权,任启帆,丁啸天(2154)
- 不同偏心距滚筒中大颗粒的平均速度脉动特性.....张立栋,刘若云,王 擎,李少华,秦 宏(2164)
- 投稿须知.....(2172)

责任编辑: 王 超, 何学锋, 龙怀中, 李艳红

[期刊基本参数] CN 43-1238/TG*1991*m*A4*224*zh*P*¥80.0*1400*25*2018-10

The Chinese Journal of Nonferrous Metals

(ZHONGGUO YOUSE JINSHU XUEBAO)

Volume 28 Number 10

(Sum 235)

October 2018

CONTENTS

Materials Science and Engineering

- Tailor mechanism of texture and mechanical properties in ZX21 alloy sheets with different cold rolling paths
.....TAN Chao-lan, HUANG Guang-jie, HUANG Xin-de, CAO Ling-fei,
CAO Yu, ZHANG Cheng-hang, LI Wei(1949)
- Effects of isothermal heat treatment on microstructural evolution ZC61-0.3Cr magnesium alloy
.....HUANG Xiao-feng, MA Ya-jie, ZHANG Yu, ZHANG Qiao-qiao, GUO Feng, YANG Jian-chang(1962)
- Critical conditions of dynamic recrystallization of AZ80 magnesium alloy based on a new method of work
hardening rate.....WANG Zhong-tang, HUO Da, YU Xiao-lin(1972)
- Flow behavior and microstructure of 2195 Al-Li alloy during plane strain compression
.....LI Xu, FAN Xiang-ze, YANG Qing-bo, YANG Mou, ZHANG Fei, ZHANG Zhi-qing(1980)
- First-principles study of β'' phase in Cu doped 6000-series aluminum alloys
.....WEN Bo-yang, JIA Zhi-hong, WU Xiao-zhi, LIU Qing(1991)
- Effect of ageing on mechanical properties and microstructures of solution treated and cold-rolled 7075 Al alloy
.....LI Hai, CHEN Peng, WANG Zhi-xiu, ZHENG Zi-qiao(1999)
- Effects of sintering temperature on preparation of TC4 titanium alloy during Micro-FAST
.....WU Xiu-li, YANG Yi, YANG Gang, HUANG Kun-lan, WEI Liao, WU Ming-xia(2009)
- Microstructure and mechanical properties of tin-based Babbitt alloy made by laser cladding deposition
.....HAO Yun-bo, ZHAO Kai, YANG Ping, ZHU Zhong-liang, YANG Yang, WANG Lian-feng(2016)
- Evolution of structure and property for Cu-Ni-Si alloy based on hot-rolling process
.....CAO Guang-ming, WANG Zhi-guo, LI Cheng-gang, JIA Fei, ZHANG Yuan-xiang(2024)
- Microstructure and corrosion resistance in liquid Al bath of Co-Mo-Cr-Si alloys
.....LIU Yong-xiong, CHEN Xin, YIN Fu-cheng, OU Lin-fang, LI Zhi, ZHAO Man-xiu(2033)
- Preparation and performance of Ti-based IrMn composite coating electrode doped rare-earth Ce
.....BAI Mao-jin, ZHOU Jian, WANG San-fan, ZHAO Xiao-yun(2043)
- Hot deformation behavior of Ni-based alloy used for advanced ultra-supercritical steam turbine blades
.....GONG Zhi-hua, YANG Gang, YIN Hui-fang, DING Wei(2050)
- Optimum design and hydrogen permeability of Nb-Ti-Co separation alloy: I. Construction of phase diagram and
hydrogen permeable component region.....HUANG Hao-ran, YAN Er-hu, MIN Ruo-nan, ZHU Kun-jun,
ZHAO Guang-wei, LI Xin-zhong, XU Fen, SUN Li-xian(2058)

Prediction of aluminum hot rolling force based on deep network

.....WEI Li-xin, WEI Xin-yu, SUN Hao, WANG Heng(2070)

Metallurgical Engineering, Mine Engineering, Chemistry and Chemical Engineering

Formation and inhibition of SO₃ in oxygen-enriched smelting flue gas

.....GUO Xue-yi, YAN Shu-yang, WANG Qin-meng, WANG Song-song, TIAN Qing-hua(2077)

Simultaneous leaching of zinc residue and zinc concentrate and oxidative conversion behavior

.....FU Zhong-meng, DENG Zhi-gan, WEI Chang, LI Xing-bin, LI Cun-xiong, FAN Gang(2086)

Comprehensive treatment technology for high antimony dust from matte smelting process of refractory gold

concentrate.....ZHANG Fu-yuan, XU liang, ZHAO zhou, ZHENG Ye-jie,

TIAN Yong-pan, ZHANG Yu-ming(2094)

Prediction for oxidation leaching behavior of antimony containing sulfide ore based on artificial neural network

model.....TIAN Qing-hua, HONG Jian-bang, XIN Yun-tao, GUO Xue-yi(2103)

Porosity characteristic of leaching weathered crust elution-deposited rare earth before and after leaching

.....YIN Sheng-hua, QI Yan, XIE Fang-fang, CHEN Xun, WANG Lei-ming, SHAO Ya-jian(2112)

Structure of molten KF-KBF₄: Raman spectra characterization.....HU Xian-wei, LI Bo, ZHANG Xuan, WAN Tao(2120)

Desorption regeneration performance of magnetic bentonite after Cr(VI) adsorption

.....ZOU Cheng-long, LIANG Ji-yan, JIANG Wei(2127)

Stair leaching and comprehensive recovery process of gallium-bearing alunite concentrate

.....ZHU Mao-lan, ZHONG Shui-ping, HUANG Zhong-sheng, CHEN Hang, CHEN Xi, HU Zhi-biao(2136)

Analysis on influencing factors of coarse particles migration in pipeline transportation of paste slurry

.....YAN Bing-heng, LI Cui-ping, WU Ai-xiang, WANG Shao-yong, HOU He-zhi(2143)

Cross scale correlation characteristics of pore structure and meso parameters of filling body

.....HU Jian-hua, JIANG Quan, REN Qi-fan, DING Xiao-tian(2154)

Pulsation characteristics of larger particle average velocity in different eccentric rollers

.....ZHANG Li-dong, LIU Ruo-yun, WANG Qing, LI Shao-hua, QIN Hong(2164)

Information for contributors.....(2172)

(Managing Editors: WANG Chao, HE Xue-feng, LONG Huai-zhong, LI Yan-hong)