主管 中国有色金属工业协会　　主办 矿冶科技集团有限公司

ISSN 2095-1744
CN10-1004/TF

有色金属工程

NONFERROUS METALS ENGINEERING

- 全国中文核心期刊
- 美国《艾博思科数据库》（EBSCOhost）来源期刊
- 《日本科学技术振兴机构中国文献数据库》（JSTChina）来源期刊
- 美国《乌利希期刊指南（网络版）》（Ulrichsweb）来源期刊

2
Vol.11
2021

ISSN 2095-1744
02
9 772095 174119

万方数据

有色金属工程

YOUSE JINSHU GONGCHENG （月刊）

第 11 卷第 2 期 2021 年 2 月

目　　次

材料制备与加工

双级形变热处理工艺中 7A55 铝合金热变形行为及热加工图 …… 廖　斌,曹玲飞,吴晓东,黄惠毅,张　磊,卢有庆,李飞龙(1)
7075 铝合金高速铣削表面质量及刀具磨损机理 …… 岳修杰,张　平,宋爱利,李宝顺,于　晓(9)
微合金化法对高锰铝青铜合金组织和性能的影响 …… 孙业成,王超宁,朱　瑞,董可伟,孔　见(17)
双钙钛矿氧化物 $La_{2-x}Ca_xCoMnO_6$ 磁性能研究 …… 刘瑞红,李晓欣,徐　宝,陈金欢,陈梦蝶,吴鸿业(25)
体积分数为 65% SiCp/A356 复合材料的微观结构和界面反应研究 … 朱万波,张正贵,王全兆,肖伯律(31)
NiTi 基形状记忆合金相变温度的影响因素 …… 赵石磊,赵　昆,王富文(38)
热喷涂用 NiCrCoAlY-$MoSi_2$ 纳米复合粉体制备与表征 …… 吴姚莎,陈伟文,刘名涛(48)

提取冶金与化学工程

盐湖卤水提锂工艺技术研究进展…… 葛　涛,徐　亮,宋　羿,王家保,年　义,韦冉冉(55)
浅谈卡林型金矿微生物预氧化技术研究现状 …… 王国彬,蓝卓越,赵清平,崔永琦,蔡　鑫(63)
生物氧化冶金预处理过程氧化率的软测量模型…… 热娜古力·亚森,高丙朋(73)

矿物加工与工艺矿物学

高镁锌矿选矿降镁提质研究…… 谢海云,柳彦昊,田小松,封东霞,孙　瑞,高利坤(79)
基于嵌入式的在线图像检测系统研究…… 赵　瑞,陆　博(86)

地质采矿与安全工程

频谱激电测深法在贵州某金矿勘查中的应用 …… 徐西滨,翟培合,张　钊,张同德,高卫富(92)
金属矿阶段嗣后充填预留顶柱厚度力学模型…… 张爱卿,吴爱祥,李金云,王贻明(98)
基于 ELM 的尾矿坝浸润线预测 …… 邱俊博,胡　军(103)

环境科学与工程

信江流域化学风化特征及碳汇效应 …… 杨　芬,高　柏,葛　勤,马文洁,刘媛媛,林聪业,高　杨,陈　岩,成　霖(110)
某工业废渣堆放场地重金属污染特征与健康风险评估…… 章艳红,唐玉红,陈俊华,孙凯璇,刘　斌(120)

书评·广告

基于阅读理解的化工类英语教育 …… (Ⅰ)
工科类学生思想素养和专业素养的培养 …… (Ⅲ)
计算机图形图像理论下的三维动画开发 …… (Ⅴ)
新媒体视域下锻压企业的传播策略特点和应用价值分析 …… (Ⅵ)

[期刊基本参数]CN 10—1004/TF * 2011 * m * A4 * 126 * zh * P * ￥20.00 * 3000 * 17 * 2021—02

Nonferrous Metals Engineering

Volume 11 Number 2 (Monthly) February 2021

CONTENTS

Materials Preparing and Processing

Hot Deformation Behavior and Processing Map of 7A55 Aluminum Alloy in Double Thermo-mechanical Treatment Process
…… LIAO Bin, CAO Lingfei, WU Xiaodong, HUANG Huiyi, ZHANG Lei, LU Youqing, LI Feilong(1)

Study on Surface Quality and Tool Wear Mechanism of High-speed Cutting of 7075 Aluminum Alloy
…… YUE Xiujie, ZHANG Ping, SONG Aili, LI Baoshun, YU Xiao(9)

Effect of Microalloying on Microstructure and Properties of High Manganese Aluminum Bronze Alloy
…… SUN Yecheng, WANG Chaoning, ZHU Rui, DONG Kewei, KONG Jian(17)

Magnetic Study of Double Perovskite Oxide $La_{2-x}Ca_xCoMnO_6$
…… LIU Ruihong, LI Xiaoxin, XU Bao, CHEN Jinhuan, CHEN Mengdie, WU Hongye(25)

Study on the Microstructure and Interface Reaction of SiCp/A356 Composite with a Volume Fraction of 65%
…… ZHU Wanbo, ZHANG Zhenggui, WANG Quanzhao, XIAO Bolyu(31)

Influencing Factors of Phase Transition Temperature of NiTi-based Shape Memory Alloy
…… ZHAO Shilei, ZHAO Kun, WANG Fuwen(38)

Preparation and Characterization of NiCrCoAlY-$MoSi_2$ Nanostructured Composite Powders for Thermal Spraying
…… WU Yaosha, CHEN Weiwen, LIU Mingtao(48)

Extractive Metallurgy and Chemical Engineering

Research Progress of Lithium Extraction Technology from Salt Lake Brine
…… GE Tao, XU Liang, SONG Yi, WANG Jiabao, NIAN Yi, WEI Ranran(55)

Discussion on the Present Situation and Progress of Bacterial Pre-oxidation in Carlin-type Gold Ore
…… WANG Guobin, LAN Zhuoyue, ZHAO Qingping, CUI Yongqi, CAI Xin(63)

Soft-Sensing Model for Oxidation Rate of Biooxidation Metallurgy Pretreatment
…… YASEN Renaguli, GAO Bingpeng(73)

Mineral Processing and Process Mineralogy

Study on Reducing Magnesium and Improving Quality in Mineral Processing of High Magnesium Zinc Ore
…… XIE Haiyun, LIU Yanhao, TIAN Xiaosong, FENG Dongxia, SUN Rui, GAO Likun(79)

Research of Online Image Detection System Based on Embedded System …… ZHAO Rui, LU Bo(86)

Geology Mining and Safety Engineering

Application of Spectrum of the IP Sounding Method in Exploration of A Gold Deposit in Guizhou Province
…… XU Xibin, ZHAI Peihe, ZHANG Zhao, ZHANG Tongde, GAO Weifu(92)

A Mechanical Model for Reserved Top Pillar Thickness of Stage Backfilling Stope in Metal Ore ……
…… ZHANG Aiqing, WU Aixiang, LI Jinyun, WANG Yiming(98)

Prediction of Phreatic Line of Tailings Dam Based on ELM …… QIU Junbo, HU Jun(103)

Environment Science and Engineering

Characteristics of Chemical Weathering and Carbon Sink Effect in Xinjiang River Basin
…… YANG Fen, GAO Bai, GE Qin, MA Wenjie, LIU Yuanyuan, LIN Congye, GAO Yang, CHEN Yan, CHENG Lin(110)

Pollution Characteristics and Health Risk Assessment of Heavy Metal in A Waste Residue Disposal Site
…… ZHANG Yanhong, TANG Yuhong, CHEN Junhua, SUN Kaixuan, LIU Bin(120)