

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

Youse Jinshu Gongcheng

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
- 俄罗斯《文摘杂志》(AJ) 收录

4

Vol.11

2021

ISSN 2095-1744



目次

材料制备与加工

挤压态 Mg-9Li-xAl-0.6Y 合金组织与力学性能研究	肖雪,刘怀海,耿家源,刘刚(1)
3D 打印 SLM 工艺用球形钛合金粉制备工艺及性能研究	张思源,张鑫,王彦军,贾坤乐(9)
SiC 多孔陶瓷管的抗地震及过滤特性性能研究	施原涛,袁章福,谢珊珊,廖亮,王存(14)
激光选区熔化 Ti-6Al-4V 合金纳米压痕尺寸效应分析	田宪会,杨诗婷,董广辉,姜爱峰,郎风超,李继军(20)
添加纳米颗粒对溴化锂溶液表面张力的影响及其机理分析	王刚,董佩文,张威,张群力(27)
钛/钢层状复合板焊接技术的现状与展望	闫婉迪,孙新丰,张岩,李福山,徐荣正(35)
表面活性剂对太阳能背钝化电池用银浆性能的影响	彭帅,邹文,曾昭崐,汤森进(44)

提取冶金与化学工程

Fe ₂ O ₃ 对 NdF ₃ -LiF-Nd ₂ O ₃ 体系电导率的影响	古京九,范晨铭,田林,谢刚,杨妮,李冰(49)
含钢锌渣湿法回收钢工艺进展	唐洋洋,李林波,王超,杨潘,冯璐(57)
钙化焙烧法脱除二次铝灰中氮的试验研究	李松元,李志扬,吕帅帅,汪兴兴,张煜,倪红军(65)

矿物加工与工艺矿物学

云南某硫化铅锌矿选矿试验研究	SUBHONQULOV SUBHONQUL,刘全军,董敬申(72)
吉林某选厂铁精矿脱硫试验研究	李博琦,谢贤,纪翠翠,朱辉,黎洁,宋强(82)

地质采矿与安全工程

山西省平陆县西山头铝土矿地质特征及成因分析	廉凯龙,赵胜利,薛磊,豆贯铭,靳妙杰,代金拴(90)
石膏-矿渣-石灰复合胶凝体系早期水化作用机理	刘树龙,李公成,刘国磊,王发刚,王飭(96)
不同配比全尾砂胶结充填体的动态损伤特性	王浩,张智宇,王建国,雷振(104)
基于数值模拟分析的采场应力阻隔及地压控制研究	杨八九,侯克鹏,孔学伟,彭朝智(112)

环境科学与工程

某氧化铜矿尾矿区重金属污染特征及农作物健康风险评价	张云,胡正生,王艳,胡兆平(119)
降雨-蒸发与地下水耦合作用下的大型尾矿库重金属 Cu ²⁺ 迁移数值模拟分析	陈红丹,郝喆,滕达,王晓明(127)

书评·广告

科技英语的特点与翻译技巧	(I)	有色金属矿山边坡地质灾害分析及防治	(V)
基于模拟化锻压工艺的高新体育器材创新设计优化	(III)	智能化背景下计算机在锻压技术中的应用发展	(VI)
自动化技术在机械制造中的应用研究	(IV)		

CONTENTS

Materials Preparing and Processing

- Microstructure and Mechanical Properties of As-extruded Mg-9Li-xAl-0.6Y Alloys
..... XIAO Xue, LIU Huaihai, GENG Jiayuan, LIU Gang(1)
- Studyon Technology and Properties of Spherical Titanium Alloy Powder for 3D Printing SLM Process
..... ZHANG Siyuan, ZHANG Xin, WANG Yanjun, JIA Kunle(9)
- ThermalShock Resistance and Filtration Characteristics of SiC Porous Ceramic Tube
..... SHI Yuantao, YUAN Zhangfu, XIE Shanshan, LIAO Liang, WANG Cun(14)
- Size Effect Analysis in Nano-indentation of Ti-6Al-4V Alloy Prepared by Selective Laser Melting
..... TIAN Xianhui, YANG Shiting, DONG Guanghui, JIANG Aifeng, LANG Fengchao, LI Jijun(20)
- Effect ofAdding Nanoparticles on the Surface Tension of Lithium Bromide Solution and Its Mechanism Analysis
..... WANG Gang, DONG Peiwen, ZHANG Wei, ZHANG Qunli (27)
- Research Status and Prospect of Welding Technology for Ti/Steel Laminated Composite Plate
..... YAN Wandi, SUN Xinfeng, ZHANG Yan, LI Fushan, XU Rongzheng(35)
- Effects ofSurfactant on Properties of Silver Paste for Passivated Emitter and Rear Cell
..... PENG Shuai, ZOU Wen, ZENG Zhaokun, TANG Sengjin(44)

Extractive Metallurgy and Chemical Engineering

- Effect of Fe_2O_3 on Electrical Conductivity of $\text{NdF}_3\text{-LiF-Nd}_2\text{O}_3$
..... GU Jingjiu, FAN Chenming, YANG Ni, TIAN Lin, XIE Gang, LI Bing(49)
- Progress in Zinc Slag Containing Indium Recovery of Indium from Zinc Smelting by Wet Process
..... TANG Yangyang, LI Linbo, WANG Chao, MAO Weibo, FENG Lu(57)
- Experimental Study on Nitrogen Removal from Secondary Aluminum Ash by Calcification Roasting
..... LI Songyuan, LI Zhiyang, LV Shuaishuai, WANG Xingxing, ZHANG Yu, NI Hongjun(65)

Mineral Processing and Process Mineralogy

- Experimental Study on Beneficiation of a Lead Zinc Sulfide ore in Yunnan
..... SUBHONQULOV SUBHONQUL, LIU Quanjun, DONG Jingshen (72)
- Experimental Research onDesulfurization of Iron Concentrate in a Concentrator of Jilin
..... LI Boqi, XIE Xian, JI Cuicui, ZHU Hui, LI Jie ,SONG Qiang(82)

Geology, Mining and Safety Engineering

- Geological Characteristics and Genesis ofXishantou Bauxite Deposit in Pinglu County, Shanxi Province
..... LIAN Kailong, ZHAO Shengli, XUE Lei, DOU Guanming, JIN Miaojie, DAI Jinshuan(90)
- Early Hydration Mechanism of Gypsum-Slag-Lime CompositeCementitious System
..... LIU Shulong, LI Gongcheng, LIU Guolei, WANG Fagang, WANG Jie (96)
- Dynamic Damage Characteristics of Cementing Backfill with Different Ratio of Tailing
..... WANG Hao, ZHANG Zhiyu, WANG Jianguo, LEI Zhen(104)
- Study on Stress Barrier and Ground Pressure Control in Stope Based on Numerical Simulation Analysis
..... YANG Bajiu, HOU Kepeng, KONG Xuewei, PENG Chaozhi(112)

Environment Science and Engineering

- HeavyMetals Pollution Characteristics and Crop Health Risk Assessment Around a Copper Oxide Tailing Pond
..... ZHANG Yun, HUZhengsheng, WANG Yan, HU Zhaoping(119)
- NumericalSimulation of Heavy Metal Migration of Cu^{2+} in Large Tailings Reservoirs Considering
Rainfall and Evaporation CHEN Hongdan, HAO Zhe, TENG Da, WANG Xiaoming(127)