

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

1

Vol.11

2021

ISSN 2095-1744



目次

材料制备与加工

- 高性能锂离子电池草酸亚铁负极材料的可控制备…… 张克宇,高耕,王倩雯,戴永年,姚耀春,李永佳(1)
 温度对 Co-8.8Al-9.8W-1.5Ta 合金 γ' 相形貌和结构的影响 …… 徐仰涛,常鑫(7)
 Cr 微合金化铸态铝青铜合金组织与性能研究 …… 孙业成,王超宁,孔见(17)
 分子动力学研究 Cu 析出相对 BCC-Fe $\Sigma 3\{111\}$ 晶界拉伸性能的影响 …… 张海超,李运刚(27)
 焊接速度对 6082Al/T2Cu 异种材料搅拌摩擦焊接头成形及性能的影响
 …… 窦程亮,方远方,张华,程东海,徐磊欣(32)
 激光熔凝对生物可降解 Zn-1Mg-0.2Fe 合金组织和性能的影响 …… 冯士活,童先,梅潇伟,林继兴(38)
 一步热压法制备 N 型 Si₈₀Ge₂₀ 及其热电性能 …… 吴福海,唐显,武伟名,牛厂磊,罗洪义,李鑫(45)
 纳米单晶铜磨料磨损的分子动力学研究 …… 杜华,杨龙龙,于紫舒,吴冰洁,张亚楠,孙琨,方亮(50)

提取冶金与化学工程

- 含硫-碳酸盐铀矿石中铀、黄铁矿综合浸出试验研究
 …… 李昊,胡凯光,马晋芳,周文,舒倪楚庭,吴程瑞(56)
 锂电解槽的热场分析 …… 逢启寿,李彬,张雨开(62)
 生物氧化预处理过程中溶氧量的预测 …… 高轩,南新元(68)

矿物加工与工艺矿物学

- 大陆槽难选稀土矿选矿试验研究 …… 彭蓉,魏志聪,刘洋,白睿,王衡嵩,柏少军(73)
 黄铜矿分支浮选动力学研究 …… 寇青军,方建军,董继发,蒋天国(84)

地质采矿与安全工程

- 超千米竖井岩爆防控对策研究 …… 刘鹏,余斌,曹辉(92)
 基于组合赋权-距离判别模型的边坡稳定性评价方法研究 …… 黄德镛,耿元玲,郭琦,杜志锦,杨洋(101)
 基于黏聚力单元法的单双射孔水力裂缝扩展数值模拟研究 …… 竹宇波(107)
 夏日哈木—锡铁山成矿带岩石地球化学特征及地质意义 …… 张世珍,王建国,宋振国,李国荣,任海东(116)

环境科学与工程

- 提纯铁酸锌掺杂二氧化钛光催化氨基黑 10B 研究 …… 杨金林,王腾,肖汉新,马少健(126)
 Ni 的添加对 V-Mo/Ti 脱硝催化剂性能的影响
 …… 常峥峰,纵宇浩,黄力,王虎,韩沛,周军,李金珂(131)

书评·广告

- 液压支架与泵站的使用管理 …… (I) 石油化工专业群对区域经济建设的影响研究 …… (V)
 矿区开采沉陷自动化监测软件的设计与应用 …… (III) 石油及天然气地质学教学理论与实践研究 …… (VI)

CONTENTS

Materials Preparing and Processing

- Controlled Fabrication of Iron Oxalate as High-performance Anode Materials for Lithium-ion Batteries
..... ZHANG Keyu,GAO Geng,WANG Qianwen,DAI Yongnian,YAO Yaochun,LI Yongjia(1)
- Effect of Temperature on the γ' Phase Morphology and Structure of Co-8.8Al-9.8W-1.5Ta Alloy
..... XU Yangtao,CHANG Xin(7)
- Study on Microstructure and Properties of Cr Micro-alloyed As-cast Aluminum Bronze Alloy
..... SUN Yecheng,WANG Chaoning,KONG Jian(17)
- Molecular Dynamics Study of Cu Precipitation Relative BCC-Fe $\Sigma 3\{111\}$ Grain Boundary Tensile Properties
..... ZHANG Haichao,LI Yungang(27)
- Effect of Welding Speed on the Microstructure and Properties of Friction Stir Welded 6082Al/T2Cu Dissimilar Materials
..... DOU Chengliang,FANG Yuanfang,ZHANG Hua,CHENG Donghai,XU Leixin(32)
- Effect of Laser Remelting on Microstructure and Properties of Biodegradable Zn-1Mg-0.2Fe Alloy
..... FENG Shihuo,TONG Xian,MEI Xiaowei,LIN Jixing(38)
- Preparation and Thermoelectric Properties of N-type $\text{Si}_{180}\text{Ge}_{20}$ by One-step Hot Pressing Method
..... WU Fuhai,TANG Xian,WU Weiming,NIU Changlei,LUO Hongyi,LI Xin(45)
- Molecular Dynamics Study of Nano-single Crystal Copper Abrasive Wear
..... DU Hua,YANG Longlong,YU Zishu,WU Bingjie,ZHANG Yanan,SUN Kun,FANG Liang(50)

Extractive Metallurgy and Chemical Engineering

- Experiment Study on the Comprehensive Leaching of Uranium and Pyrite from a Sulfur-Carbonate Uranium Ore
..... LI Hao,HU Kaiguang,MA Jinfang,ZHOU Wen,SHU Nichuting,WU Chengrui(56)
- Thermal Field Analysis of Lithium Electrolytic Cell
..... PANG Qishou,LI Bin,ZHANG Yukai(62)
- Prediction of Dissolved Oxygen during the Biological Oxidation Pretreatment Process
..... GAO Xuan,NAN Xinyuan(68)

Mineral Processing and Process Mineralogy

- Experimental Research on Mineral Processing Technology of Refractory Rare Earth Ore in the Dalucao
..... PENG Rong,WEI Zhicong,LIU Yang,BAI Rui,WANG Hengsong,BAI Shaojun(73)
- Study on the Kinetics of Branch Flotation of Chalcopyrite
..... KOU Qingjun,FANG Jianjun,DONG Jifa,JIANG Taiguo(84)

Geology ,Mining and Safety Engineering

- Study on the Countermeasures for the Prevention and Control of Rock Burst in the Over-kilometer Shaft
..... LIU Peng,YU Bin,CAO Hui(92)
- Research on Slope Stability Evaluation Based on Combination Weighting and Distance Discriminant Model
..... HUANG Deyong,GENG Yuanling,GUO Qi,DU Zhijin,YANG Yang(101)
- Numerical Simulation of Hydraulic Fracture Propagation with Single-Double Perforation Based on Cohesive Force Element Method
..... ZHU Yubo(107)
- Geochemical Characteristics and Geological Significance of Rocks in Xiarihamu-Xitieshan Metallogenic Belt
..... ZHANG Shizhen,WANG Jianguo,SONG Zhenguo,LI Guorong,REN Haidong(116)

Environment Science and Engineering

- Study on Photocatalytic Amino Black 10B by Purifying Zinc Ferrite Doped Titanium Dioxide
..... YANG Jinlin,WANG Teng,XIAO Hanxin,MA Shaojian(126)
- Effect of Ni Doping on the Catalytic Performance of V-Mo/Ti Catalyst for Selective Catalyst Reduction of NO
..... CHANG Zhengfeng,ZONG Yuhao,HUANG Li,WANG Hu,HAN Pei,ZHOU Jun,LI Jinke(131)