

目 次

材料制备与加工

- 纳米粒子改性的双金属纳米片阵列的析氧性能 刘建平, 宇文超, 刘秉国, 郭胜惠, 荣 茜(1)
- SLM 打印 Ti6Al4V 不同晶格结构多孔材料的力学性能
..... 张建国, 赵 晟, 胡凤玲, 宋 亮, 周 琼, 张而耕(10)
- 金属表面自愈合涂层的设计制备与性能研究进展
..... 汪鸿宇, 杜 娟, 刘川扬, 李尚原, 倪 颖, 王颖昱, 王桐洋(18)
- Ti 含量对 CrCoNiTi_x 中熵合金组织与性能的影响 陈今良, 金学元, 易健宏, 赖 奇(31)
- C/hBN 润滑组元对铜基粉末冶金摩擦材料性能的影响
..... 吴 深, 刘洪坤, 管英杰, 司屈钒, 樊江磊, 刘建秀(38)
- 激光选区熔化工艺制备多孔镁合金骨支架的研究进展 黄 旭, 戴庆伟(48)
- Mg、Mn 成分优化对 5083 铝合金组织和性能的影响
..... 庞凌志, 陆泽鹏, 苏 天, 邱远辉, 唐海翔, 韦宗繁, 赵艳君(57)

提取冶金与化学工程

- 铜烟灰酸浸渣 NaCl-H₂SO₄ 溶液浸出提铋 何昆芸, 张玉慧, 金炳界, 冯 卿, 李 雷, 杨金磊(66)
- CaO 添加剂对失效汽车尾气催化剂造渣熔炼的影响 黄 钊, 王 飞, 蒋文龙, 郁青春, 杨 斌(71)

矿物加工与工艺矿物学

- 砷的赋存状态对云南某银铅锌多金属矿选矿的影响 王明燕, 肖仪武, 刘 娟(81)
- 基于 CFS-KNN 的双能 X 射线废金属特征优选与分类 陈煜昊, 叶文华, 徐 祥, 符 杰(86)
- 不同工艺条件对深度还原—磁选某硫酸渣的影响 王 鑫, 刘志国, 王亚运, 康金星(93)

地质采矿与安全工程

- 松湖铁矿深部矿体无底柱分段崩落法放矿参数优化研究 万串串, 周玉成, 刘立顺, 许文远(99)
- 基于拓展的 Mathews 稳定图法的采场结构参数优化 刘嘉伟, 黄明清, 谭 伟(106)
- 基于 Fuzzy-TOPSIS 的金矿床采矿方法优选 张居正, 王 沉, 朱获天, 于骞翔(114)
- 我国尾矿库安全监测技术发展综述 沈楼燕, 李连通, 张 超, 罗嗣海(121)
- 基于组合赋权-云模型的尾矿库风险评价方法研究
..... 黄德镛, 刘孙政, 高 聪, 吕世纬, 贾子月, 李明健(127)

环境科学与工程

- 固废基材料固化铜污染土的强度及浸出特性 李丽华, 李 欣, 李文涛, 黄少平(136)
- 光活化过硫酸盐降解酯-105 及动力学研究 曾亦婷, 曾 金, 罗镇伟, 梁 旗, 王春英(143)

书评·广告

- 科技英语论文的阅读策略与写作技巧 (I) 计算机在材料热加工工程中的应用 (V)
- 地质专业英语词汇特点及构词研究 (II) 物联网技术在有色金属矿山风险监测中的研究现状与
发展趋势 (VI)
- 机电一体化与机械制造智能化技术结合的发展研究 ... (IV)

CONTENTS

Materials Preparing and Processing

- Oxygen Evolution Performance of Nano-modified Bimetallic Oxide Nanosheets Array
..... LIU Jianping, YUWEN Chao, LIU Bingguo, GUO Shenghui, RONG Qian(1)
- Mechanical Properties of Porous Ti6Al4V Materials with Different Lattice Structures Printed by SLM
..... ZHANG Jianguo, ZHAO Sheng, HU Fengling, SONG Liang, ZHOU Qiong, ZHANG Ergeng(10)
- Progress in Design, Preparation and Properties of Self-healing Coatings on Metal Surfaces
..... WANG Hongyu, DU Juan, LIU Chuanyang, LI Shangyuan, NI Ying, WANG Yingyu,
WANG Tongyang(18)
- Effect of Ti Content on Microstructure and Properties of CrCoNiTi_x Medium Entropy Alloy
..... CHEN Jinliang, JIN Xueyuan, YI Jianhong, LAI Qi(31)
- Influence of C/hBN Lubricating Components on Properties of Copper-based Powder Metallurgy Friction Materials
..... WU Shen, LIU Hongkun, GUAN Yingjie, SI Qufan, FAN Jianglei, LIU Jianxiu(38)
- Progress of Porous Magnesium Alloy Bone Scaffolds Prepared by Selective Laser Melting
..... HUANG Xu, DAI Qingwei (48)
- Effect of Mg and Mn Composition Optimization on Microstructure and Properties of 5083 Aluminum Alloy
..... PANG Lingzhi, LU Zepeng, SU Tian, QIU Yuanhui, TANG Haixiang, WEI Zongfan, ZHAO Yanjun(57)

Extractive Metallurgy and Chemical Engineering

- Extraction of Bi from Acid Leaching Residue of Copper Smelting Dusts Using NaCl-H₂SO₄ Solution
..... HE Kunyun, ZHANG Yuhui, JIN Bingjie, FENG Qing, LI Lei, YANG Jinlei(66)
- Effect of CaO Addition on Slagging Smelting of Spent Automobile Catalysts
..... HUANG Zhao, WANG Fei, JIANG Wenlong, YU Qingchun, YANG Bin(71)

Mineral Processing and Process Mineralogy

- Effect of Occurrence State of Arsenic on Beneficiation of a Silver-lead-zinc Polymetallic Ore in Yunnan
..... WANG Mingyan, XIAO Yiwu, LIU Juan(81)
- Feature Optimization and Classification of Dual Energy X-ray Scrap Metal Based on CFS-KNN
..... CHEN Yuhao, YE Wenhua, XU Xiang, FU Jie(86)
- Effect of Different Technology on Depth Reduction-magnetic Separation of Pyrite Cinder
..... WANG Xin, LIU Zhiguo, WANG Yayun, KANG Jinxing(93)

Geology Mining and Safety Engineering

- Optimization of Drawing Parameters of Sublevel Caving Method for Deep Orebody in Songhu Iron Mine
..... WAN Chuanchuan, ZHOU Yucheng, LIU Lishun, XU Wenyuan(99)
- Parameter Optimization of Stope Structure Based on Extended Mathews Stability Graph Method
..... LIU Jiawei, HUANG Mingqing, TAN Wei (106)
- Mining Method Optimization of Gold Deposit Based on Fuzzy-TOPSIS
..... ZHANG Juzheng, WANG Chen, ZHU Huotian, YU Qianxiang(114)
- Review on the Development of Safety Monitoring Technology for Tailings Pond in China
..... SHEN Louyan, LI Liantong, ZHANG Chao, LUO Sihai(121)
- Study on Tailings Risk Assessment Method Based on Combination Weighting-Cloud Model
..... HUANG Deyong, LIU Sunzheng, GAO Cong, LYU Shiwei, JIA Ziyue, LI Mingjian(127)

Environment Science and Engineering

- Strength and Leaching Characteristics of Copper Contaminated Soil Solidified with Solid Waste Based Materials
..... LI Lihua, LI Xin, LI Wentao, HUANG Shaoping(136)
- Study on Kinetics and Degradation of Ester-105 by Photoactivated Persulfate
..... ZENG Yiting, ZENG Jin, LUO Zhenwei, LIANG Qi, WANG Chunying(143)