

中国有色金属工业协会 主管

北京矿冶科技集团有限公司 主办



QK1945189

CN10-1004/TF

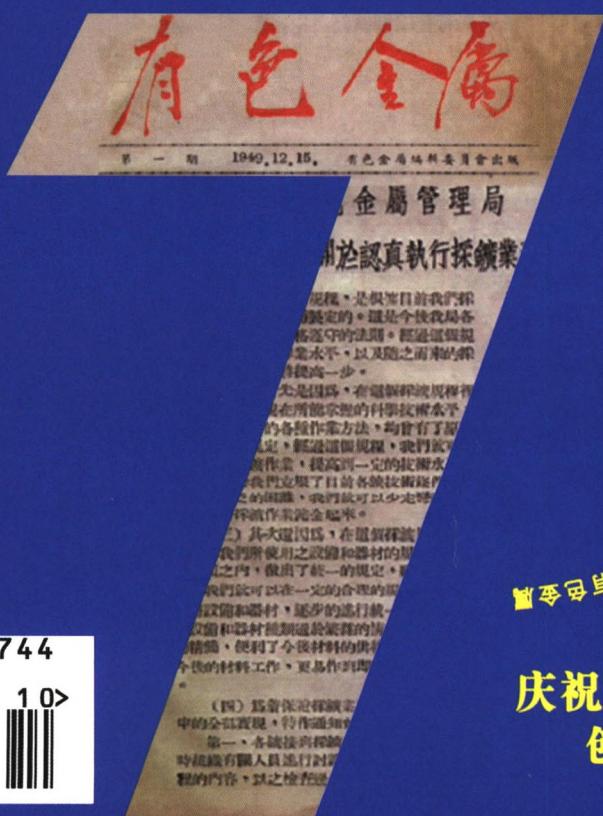
有色金属工程

NONFERROUS METALS ENGINEERING

10

Vol.9

2019



庆祝《有色金属》
创刊70周年

ISSN 2095-1744



10>

9 772095 174195

有色金属工程 (月刊) YOUSE JINSHU GONGCHENG

第9卷第10期

2019年10月

目 次

材料制备与加工

- 纳米 TiO_2 三维电极光电协同降解苯酚溶液研究 侯治威,周军,吴雷,梁坤,宋永辉,张秋利(1)
电极银浆银粉特性对瓷介电容器性能的影响 谷天鹏,甘国友,余向磊,赵汝云,李文琳,李俊鹏(7)
Mn掺杂和还原氧化石墨烯复合对 NiAl-LDHs 超级电容性能的影响
.....王晓亮,闫慧妍,张佳齐,程焱,李治,杨绍斌,刘忆(13)
不同工况下钨电极抗烧损性能研究 王芦燕,于月光,彭鹰,李曹兵,周小彬,张宇晴(21)
热处理温度对 B2 型 $Zr_{54}Co_{46}$ 合金微观组织及力学性能的影响 李培友,童婷,王永善,唐玲(29)

提取冶金与化学工程

植物浸取剂浸取离子型稀土矿试验探索

- 夏侯斌,蒋小岗,李平,朱红英,刘宜强,邓攀,邱森(36)
阳极氧化硫酸铅膜的固相电解还原机理探讨 戴富书,黄惠,何亚鹏,郭忠诚(44)
基于正交实验及非线性回归分析的铝灰渣水解研究 吕帅帅,倪威,倪红军,汪兴兴(52)
 $CaO-FeO-MgO-SiO_2$ 四元渣系活度模型及应用
..... 张燕云,申莹莹,黄仔牛,种峻楷,杜雪岩(57)

矿物加工与工艺矿物学

- 烷基羟肟酸与一水硬铝石作用的密度泛函研究 代江,焦芬,杨聪仁,覃文庆(64)
基于仿生特征的球磨机提升条表面设计 褚亮,董为民,张学东,王磊,龚梦(70)

地质采矿与安全工程

新疆哈图金矿成矿流体组分与同位素地球化学特征分析

- 王人可,地里夏提·买买提,吴兆宁,卡衣沙尔·俄热斯,
白玉秀,王俊林,王勇,刘波,林彩香(77)
基于采充时序的空场嗣后充填体强度要求优化研究 刘光生,杨小聪,郭利杰(85)
全尾砂压密区孔隙结构几何特征及剪切演化规律 焦华皓,王树飞,陈新明,陈峰宾,杨亦轩(95)
单轴压缩条件下胶结型汞矿渣细观破坏机理研究 李新卫,王思洋,曹洋兵,高建平(102)

环境科学与工程

基于灰色关联分析的湖南省有色金属采选业碳排放驱动因素及影响研究

- 陈建宏,李欢,杨珊,周智勇(109)
二次铝灰工艺矿物学特性研究 杨航,申士富,刘海营,郑学杰,李伟光,赵庆朝,王金玲,骆有发(117)

[期刊基本参数]CN 10-1004/TF * 2011 * m * A4 * 124 * zh * P * ¥20.00 * 3000 * 17 * 2019-10

Nonferrous Metals Engineering(Monthly)

Volume 9 Number 10

October 2019

CONTENTS

Materials Preparing and Processing

- Study on Synergetic-Photoelectrocatalytic Degradation of Phenol by Nano-TiO₂ Three-dimensional Electrode HOU Zhiwei, ZHOU Jun, WU Lei, LIANG Kun, SONG Yonghui, ZHANG Qiuli(1)
Effect of Silver Powder Characteristics of Electrode Silver Paste on the Performance of Ceramic Capacitor GU Tianpeng, GAN Guoyou, YU Xianglei, ZHAO Ruyun, LI Wenlin, LI Junpeng(7)
Effect of Mn Doping and Compositing with Reduced Graphene on the Performance of NiAl-LDHs Supercapacitor WANG Xiaoliang, YAN Huiyan, ZHANG Jiaqi, CHENG Yan, LI Zhi, YANG Shaobin, LIU Yi(13)
Study on Anti-burning Performance of Tungsten Electrode under Different Working Conditions WANG Luyan, YU Yueguang, PENG Ying, LI Caobing, ZHOU Xiaobin, ZHANG Yuqing(21)
Effect of Heat-Treatment Temperature on Microstructure and Mechanical Properties of B2-Type Zr₅₄Co₄₆ Alloy LI Peiyou, TONG Ting, WANG Yongshan, TANG Ling(29)

Extractive Metallurgy and Chemical Engineering

- Experimental Research on Leaching Ion-adsorption Rare Earth Ores with Plant Extractant XIAOHOU bin, JIANG Xiaogang, LI Ping, ZHU Hongying, LIU Yiqiang, DENG Pan, QIU Sen(36)
Discussion on Solid-Phase Electrolytic Reduction Mechanism of Anodized Lead Sulfate Film DAI Fushu, HUANG Hui, HE Yapeng, GUO Zhongcheng(44)
Study on Hydrolysis of Aluminum Ash Slag Based on Orthogonal Experiment and Nonlinear Regression Analysis LYU Shuaishuai, NI Wei, NI Hongjun, WANG Xingxing(52)
Activity Model and Application of CaO-FeO-MgO-SiO₂ Quaternary Slag System ZHANG Yanyun, SHENG Yingying, HUANG Ziniu, CHONG Junkai, DU Xueyan(57)

Mineral Processing and Process Mineralogy

- A Density Functional Theory Study of Interactions between Alkylhydroxamic Acids and Diaspore DAI Jiang, JIAO Fen, YANG Congren, QIN Wenqing(64)
Surface Design of Ball Mill Lifting Bar Based on the Bionic Feature CHU Liang, DONG Weimin, ZHANG Xuedong, WANG Lei, GONG Meng(70)

Geology, Mining and Safety Engineering

- Analysis of Ore-Forming Fluid Composition and Isotope Geochemical Characteristics of Hatu Gold Mine in Xinjiang WANG Renke, DILIXIATI · MAIMAITI, WU Zhaoning, KAYIAHAER · ERESI, BAI Yuxiu, WANG Junlin, WANG Yong, LIU Bo, LIN Caixiang(77)
Optimization Research on Backfill Strength Requirement of Open Stoping with Subsequent Backfill Mining Based on Excavating and Filling Sequences LIU Guangsheng, YANG Xiaocong, GUO Lijie(85)
Geometric Characteristics and Shear Evolution Law of Pore Structure in Compaction Zone of Unclassified-Tailings JIAO Huazhe, WANG Shufei, CHEN Xinming, CHEN Fengbin, YANG Yixuan(95)
Study on Mesoscopic Failure Mechanism of Cemented Mercury Slag under Uniaxial Compression LI Xinwei, WANG Siyang, CAO Yangbing, GAO Jianping(102)

Environment Science and Engineering

- Research on Drivers and Impacts of Carbon Emissions Based on the Gray Relational Analysis in Hunan Nonferrous Metals Mining and Selection Industry CHEN Jianhong, LI Huan, YANG Shan, ZHOU Zhiyong(109)
Study on Mineralogical Characteristics of Secondary Aluminum Ash YANG Hang, SHEN Shifu, LIU Haiying, ZHENG Xuejie, LI Weiguang, ZHAO Qingchao, WANG Jinling, LUO Youfa(117)

打造技术管理型 国际化工工程承包公司



中铁资源黑龙江伊春鹿鸣矿采选工程（5万吨/日）



云南北衡金矿采选工程（1万吨/日）



塔吉克斯坦Pakrut金矿采选工程（132万吨/年）



刚果绿纱铜钴矿采选冶工程（5000吨/日）



北京矿冶科技集团有限公司工程公司

通讯地址：北京市丰台区南四环西路188号总部基地18区23号楼(100160)

公司总经理：010-63299398 市场开发部：010-63299389

生产技术部：010-63299360 综合办公室：010-63299467

Fax:010-68364361 <http://gcgs.bgrimn.com> E-mail: ebgrimm@163.com