

矿产保护与利用

第43卷第6期(总第248期)

Kuangchan Baohu Yu Liyong

2023 年 12 月

目次

共伴生矿产与尾矿综合利用

煤系锂和稀土的赋存特征与富集提取研究进展

- 张磊,陈航超,潘金禾,何鑫,马玉洁,赵新迪,周长春,张宁宁(1)
煤矸石土壤化利用与土壤改良剂研究进展 刘帆俞,宋慧平,吴海滨,冯政君,柴春镜,张俊杰,周建军(14)
碳酸钠焙烧活化—硫酸浸出提取煤矸石中氧化铝的研究 武丹宇,庄故章,刘梅,何海洋(27)
基于高内相 W/O 乳液的煤气化渣油团聚脱炭研究 彭扬,廖寅飞,陈罗建,罗国兰,安茂燕(33)
铁尾矿综合利用研究进展 尹琛,白丽梅,李绍英,赵留成,马玉新,单浩轩(41)
钽铌尾矿制备发泡陶瓷材料的研究 朱逸,何桂春,江长松,段奕龙,汪劲刚,江银美,林悦(54)
尾矿制备材料研究进展

矿物加工工程

海藻酸钠强化油酸钠浮选分离白钨矿与方解石的第一性原理研究

- 王森, 梁栋, 卜显忠, 宛鹤, 薛季玮, 张崇辉, 宋学文(79)
铅离子协同苹果酸抑制滑石可浮性的机理研究 桂婉婷, 雷大士, 王宇斌, 张帅, 赵鑫, 田家怡(86)
复配煤基费托合成油与传统烃类油浮选低阶煤泥的对比研究

矿物材料

蒙脱石纳米片/聚偏氟乙烯改性聚丙烯复合隔膜的制备及性能研究 ····· 孔静, 李宇恒, 胡雅祺, 王蕊, 陈天星(107)

冶金工程

- 三元体系 $\text{LiCl} + \text{CaCl}_2 + \text{H}_2\text{O}$ 348.2 K 相平衡研究 孟浩, 罗军, 任思颖, 陈帅, 于旭东(114)

综合评述

- | | |
|--------------------------|--------------------------------------|
| 赤铁矿与石英浮选溶液化学与药剂作用机制研究进展 | 荆茂晨, 安登极, 王纪镇(120) |
| 赤铁矿常温/低温浮选捕收剂研究进展 | 姚富兴, 马艺闻, 张伦旭, 金丹, 孙欣(130) |
| 铝土矿浮选脱硅技术研究进展 | 郭明龙, 封东霞, 童雄, 熊宇农, 罗亨通, 罗选旭, 董梦(140) |
| 氧化锌矿选冶技术研究进展 | 张国繁, 申晓毅, 邵鸿媚, 张闪闪, 韩庆, 翟玉春(158) |
| 硫化矿浮选中有机抑制剂对滑石的抑制机理及研究进展 | 李全文, 孔令宇, 吕晋芳, 魏民(171) |
| 2023年总目次 | (I) |

期刊基本参数: CN41 - 1122/TD * 1981 * b * A4 * 180 * zh * P * ¥15.00 * 1000 * 19 * 2023 - 12

封面附图说明:煤系锂和稀土的富集与提取(张磊提供)

CONSERVATION AND UTILIZATION OF MINERAL RESOURCES

(Bimonthly)
Vol. 43, No. 6 (Sum. 248) Dec. 2023

CONTENTS IN BRIEF

Comprehensive Utilization of Associated Minerals and Tailings

- Research progress on occurrence characteristics, enrichment and extraction of coal-based lithium and rare earth ZHANG Lei, CHEN Hangchao, PAN Jinhe, HE Xin, MA Yujie, ZHAO Xindi, ZHOU Changchun, ZHANG Ningning (1)
- Research progress on the utilization of coal gangue for soil remediation and as soil amendment agents LIU Fanyu, SONG Huiping, WU Haibin, FENG Zhengjun, CHAI Chunjing, ZHANG Junjie, ZHOU Jianjun (14)
- Study on Al_2O_3 leaching by H_2SO_4 after Na_2CO_3 roasting activation of coal gangue WU Danyu, ZHUANG Guzhang, LIU Mei, HE Haiyang (27)
- Decarbonization of coal gasification slag by oil agglomeration based on high internal phase W/O emulsion PENG Yang, LIAO Yinfei, CHEN Luojian, LUO Guolan, AN Maoyan (33)
- Research progress of comprehensive utilization of iron tailings YIN Chen, BAI Limei, LI Shaoying, ZHAO Liucheng, MA Yuxin, SHAN Haoxuan (41)
- Preparation of foamed ceramics materials with tantalum-niobium tailings ZHU Yi, HE Guichun, JIANG Zhangsong, DUAN Yilong, WANG Jingang, JIANG Yinmei, LIN Yue (54)
- Research progress on tailings-based composite phase change materials LI Ke, LI Jian, SHAO Yanqiu, LI Jing, ZHANG Weiyi, SHAO Yingying, ZHANG Tao, TIAN Chao, MA Jinwei, LI Shuhui, ZHU Ying (61)
- Preparation and properties of phase change energy storage materials with gold tailings/fly ash WANG Xiaoyu, LI Jian, ZHANG Weiyi, LI Jing, SHAO Yanqiu, SHAO Yingying, ZHANG Tao, TIAN Chao, MA Jinwei, LI Shuhui, ZHU Ying (72)

Mineral Processing

- First-principles study on sodium alginate enhanced sodium oleate for flotation separation of scheelite and calcite WANG Sen, LIANG Dong, BU Xianzhong, WAN He, XUE Jiwei, ZHANG Chonghui, SONG Xuwen (79)
- Inhibition mechanism of lead ions synergized with malic acid on talc GUI Wanting, LEI Dashi, WANG Yubin, ZHANG Shuai, ZHAO Xin, TIAN Jiayi (86)
- Comparative study on floatation of low rank coal slime by compound coal-based fischer-tropsch synthetic oil and traditional hydrocarbon oil GUO Kai, ZHANG Guofu, ZHANG Guohua, GUO Zhou, LI Weichao, LIU Wengang (95)
- Low temperature floatation of a low-grade phosphate rock in Yichang by modified fatty acids LIU Yutong, LUO Huihua, ZHAO Jun, PENG Liqing, LIU Ju, CEN Mei, LI Fengyuan (100)

Mineral Materials

- Preparation and performance of montmorillonite nanosheet/PVDF-polypropylene composite separator KONG Jing, LI Yuheng, HU Yaqi, WANG Rui, CHEN Tianxing (107)

Metallurgical Engineering

- Phase equilibria of aqueous ternary system $\text{LiCl} + \text{CaCl}_2 + \text{H}_2\text{O}$ at 348.2 K MENG Hao, LUO Jun, REN Siying, CHEN Shuai, YU Xudong (114)
- ### Reviews
- Research progress on floatation solution chemistry and mechanism of reagents of hematite and quartz JING Maochen, AN Dengji, WANG Jizhen (120)
- Development of room-temperature and low-temperature collectors for hematite floatation: a comprehensive review YAO Fuxing, MA Yiwen, ZHANG Lunxu, JIN Dan, SUN Xin (130)
- Research progress on floatation desilication for bauxite GUO Minglong, FENG Dongxia, TONG Xiong, XIONG Yunong, LUO Hengtong, LUO Xuanxu, DONG Meng (140)
- Research progress on beneficiation and metallurgy technology of zinc oxide ore ZHANG Guofan, SHEN Xiaoyi, SHAO Hongmei, ZHANG Shanshan, HAN Qing, ZHAI Yuchun (158)
- Reaction mechanism and research progress of organic depressants on talc in floatation of sulfide ores LI Jinwen, KONG Lingyu, LV Jinfang, WEI Min (171)
- Total contents in 2023 (I)