

目 次

矿山生态环境专题

离子型稀土矿区及周边土壤中稀土、重金属元素的地球化学特征 徐春丽, 刘斯文, 魏吉鑫, 黄园英, 马嘉宝, 曾普胜, 李旭光(1)
植物修复重金属污染土壤研究进展 马永和, 许瑞, 王丽敏, 李科, 尹哲, 孙志轩, 杨永斌, 李骞(12)
河南矿山环境恢复治理遥感调查与分析 金玉玲, 耿丽艳, 齐庆超(23)
臭氧氧化—生化法处理凡口铅锌矿废水及其循环利用 刘威, 王俊, 段连鑫, 蒋少军(28)
选矿废水的净化处理技术及机理研究进展 胡静文, 王艳红, 顾帼华, 吴弼朝(35)
选矿废水处理技术现状及展望 胡尚军, 谢贤, 黎洁, 李博琦, 朱辉, 吕晋芳(43)
磷矿的微生物浸出研究进展 孙伟, 渠光华, 王大鹏(50)

矿物加工工程

羟肟酸类捕收剂浮选金红石特性及其机理 朱诗曼, 李怡霏, 张喆怡, 任浏祎(59)
精炼渣机械力粉磨特性研究 张艳佳, 汤畅, 刘生玉, 栗褒(64)

冶金工程

N263 萃取分离锌铁及其热力学研究 丁家杰, 谈定生, 王俊杰, 陈哲, 李启文, 杨健, 丁伟中(70)
碱浸除铅渣综合回收铅硫铜的试验研究 杨伟, 刘锦锐, 任倩(78)

矿物材料

天然辉钼矿尺寸调控对锂离子电池的电化学性能影响 史明明, 徐奥琴, 彭成龙, 李珍(85)
甘肃某浊沸石尾矿制备陶粒及其性能研究 杨重卿, 侯东来, 马文博, 杨丽艳, 李春全, 孙志明(93)
助磨剂 EDTA 在超细石膏粉体制备过程中的作用机制 王雯雯, 马晓晓, 王宇斌, 华开强, 鱼博, 李淑芹(100)
电化学改性对钙离子活化白云母能力的影响机理 李亮, 王宇斌, 林星彤, 王雯雯, 文堪(107)
从风化岩残积土固废中回收高岭土及制备 ZSM-5 分子筛的研究 戴若丁, 李五中, 陈进, 霍苗苗, 柴青平(114)
尾矿基发泡水泥隔热材料性能增强工艺研究 魏伟明, 邱建锋, 汪磊, 汤叶峰, 黄荣正, 周少聪(119)
高温改性铁尾矿对水体中磷的去除性能 吴健, 方楠, 盛龙, 何强, 周晓辉, 程辉彩(124)

综合评述

金属离子浮选技术研究进展 杨多, 封东霞, 柏林, 张小永(133)
有机抑制剂在铁矿石反浮选中的应用研究进展 杨诚, 张晨, 李明阳, 高翔鹏, 于先坤, 童雄, 龙红明(141)
磷尾矿、磷石膏和黄磷渣的地质聚合反应资源化利用研究进展 林升鉴, 饶峰, 郑艳金, 李敬(150)
预选抛尾技术应用进展 敖顺福, 朱家锐, 徐峰, 杨菊, 陆继思, 王存柱(157)
钢铁企业除尘灰综合利用现状与展望 于恒, 黄细聪, 李科, 李骞(164)
全球锡矿资源现状及供需分析 陈丛林, 张伟(172)

CONTENTS IN BRIEF

Mine Environment

- Geochemical characteristics of rare earth and heavy metal elements in ion – type rare earth mining area and surrounding soil
..... Xu CL, Liu SW, Wei JX, Huang YY, Ma JB, Zeng PS and Li XG(1)
- Research progress on phytoremediation of heavy metal contaminated soils
..... Ma YH, Xu R, Wang LM, Li K, Yin Z, Sun ZX, Yang YB and Li Q(12)
- Remote sensing investigation and analysis of mine environmental restoration in Henan Jin YL, Geng LY and Qi QC(23)
- Ozone oxidation – biochemical method combined treatment of Fankou lead – zinc mine wastewater and recycling
..... Liu W, Wang J, Duan LX and Jiang SJ(28)
- Research progress on purification technology and mechanism of mineral processing wastewater
..... Hu JW, Wang YH, Gu GH and Wu BZ(35)
- Current status and prospects of treatment technology for mineral processing wastewater
..... Hu SJ, Xie X, Li J, Li BQ, Zhu H and Lv JF(43)
- Research progress in bioleaching of phosphate rock Sun W, Qu GH and Wang DP(50)

Mineral Processing

- Flotation characteristics and mechanism of rutile with hydroxamic acid collectors Zhu SM, Li YF, Zhang ZY and Ren LW(59)
- Study on mechanical grinding characteristics of refining slag Zhang YJ, Tang C, Liu SY and Li B(64)

Metallurgy

- Extraction separation of zinc and iron with N263 and its thermodynamics
..... Ding JJ, Tan DS, Wang JJ, Chen Z, Li QW, Yang J and Ding WZ(70)
- Experimental study on comprehensive recovery of molybdenum, sulfur and copper from alkaline leaching molybdenum sludge
..... Yang W, Liu JR and Ren Q(78)

Mineral materials

- Effect of size regulation of natural molybdenite on electrochemical performance for lithium – ion batteries
..... Shi MM, Xu AQ, Peng CL and Li Z(85)
- Study on preparation of ceramsite from a laumontite tailings from Gansu and its performance
..... Yang CQ, Hou DL, Ma WB, Yang LY, Li CQ and Sun ZM(93)
- Study on the effect mechanism of EDTA on the preparation of ultrafine gypsum powder
..... Wang WW, Ma XX, Wang YB, Hua KQ, Yu B and Li SQ(100)
- Effect mechanism of electrochemical modification on calcium – activated muscovite
..... Li L, Wang YB, Lin XT, Wang WW and Wen K(107)
- Investigation on Recycling of Kaolin from solid waste in weathered rock and preparation of ZSM – 5 molecular sieve
..... Dai RD, Li WZ, Chen J, Huo MM and Chai QP(114)
- Study on performance enhancement process of tailings – based foamed cement insulation material
..... Wei WM, Qiu JF, Wang L, Tang YF, Huang RZ and Zhou SC(119)
- Removal performance of phosphorus from water by high temperature modified iron ore tailing
..... Wu J, Fang N, Sheng L, He Q, Zhou XH and Cheng HC(124)

Reviews

- Research progress of metal ion flotation technology Yang D, Feng DX, Bo L and Zhang XY(133)
- Research development of application of organic depressant in iron ore reverse flotation
..... Yang C, Zhang C, Li MY, Gao XP, Yu XK, Tong X and Long HM(141)
- Research progress on resource utilization of phosphorus tailings, phosphogypsum and yellow phosphorous slag by geological polymerization
..... Lin SJ, Rao F, Zheng YJ and Li J(150)
- Application progress of preconcentration and discarding technology Ao SF, Zhu JR, Xu F, Yang J, Lu JS and Wang CZ(157)
- Present situation and prospect of comprehensive utilization of precipitator dust in iron and steel enterprises
..... Yu H, Huang XC, Li K and Li Q(164)
- Study on the current situation and analysis of supply and demand of global tin resource Chen CL and Zhang W(172)