

目 次

矿冶废水

- 浮选废水中共存离子对臭氧氧化苯胺黑药的影响研究 王亮华,许伟航,傅平丰,郭学辉,李根,徐承焱(1)
机械力化学法制备钙铝复合材料用于深度脱氟 郭琳,张其武(9)
冶金渣胶凝材料对镉离子的固化性能研究 崔孝炜,邓惋心,谢宇轩,王乐(15)
椰壳活性炭对含硫废水的吸附特性研究 罗冰,彭同江,孙红娟,田嫚,尹自豪(20)
非金属矿物材料在矿山废水处理中的应用 朱红龙,帅欢,刘莉,冯文祥,杜高翔(26)
天然、改性和合成黄铁矿在废水处理中的应用 唐海文,邓政斌,程万里(32)
典型铅锌选矿厂废水零排放工艺对比分析 敦顺福(38)
矿山废水处理技术研究进展 胡博,黄凌云,孙鑫,杨思源,童雄(46)
矿治含砷废水的净化处理技术 吕晋芳,全英聪,童雄,李秀,郑永兴(53)
萃余酸在磷矿浮选中的应用 张波,王静明,郑永兴(61)
不同絮凝剂对铅锌尾矿沉降效果的影响 孙浩,李茂林,崔瑞,宁江峰,李瑞杰,施佳(66)
CaO-PAM 在鲕状赤铁矿浮选废水处理中的混凝作用 张汉泉,姬志杰,闵程,余洪(73)
聚丙烯酰胺类絮凝剂在矿业领域的研究进展 吕帅,彭伟军,苗毅恒,常鲁平,曹亦俊(79)
臭氧氧化法处理含氰尾渣的试验研究 曹欢,李和付,梁效,牛芳银,宁新霞,王勇(85)
氰化尾渣脱氰技术及有价金属回收研究进展 李育彪,陈坤,郑仁军(91)

矿物加工工程

- 电化学抑制煤系黏土岩泥化的孔隙结构作用机制 李明明,高越,丁淑芳,孟凡娜,彭德强(102)
秸秆型生物质还原剂用于赤铁矿磁化焙烧的试验研究 贺若凡,韩振朋,周廷波,于天佑,张淇,孙永升(107)
东鞍山混磁精矿搅拌磨与球磨对比试验 苏兴国,杨光,陈国荣,白哲(113)
云南某含铜多金属锡矿石选矿试验研究 黎洁,谢贤,宋强,胡尚军,任明昊,王成行(122)

冶金工程

- 磁场强化废旧锂电池正极粉中钴浸出的研究 周文波,程晖,徐敏,朱照强,彭畅,王震(127)
赤泥的弱酸浸出脱碱及综合利用研究 胡广艳(132)
三元体系 $\text{Li}^+/\text{NH}_4^+/\text{SO}_4^{2-}-\text{H}_2\text{O}$ 298 K 相平衡研究 程籽毅,魏卓,何智妍,肖淑云,王彦旭,周莹(141)

矿物材料

- 六偏磷酸钠对制备超细生石膏粉体的助磨作用及其机理研究 马晓晓,王宇斌,华开强,李淑芹,李亮(146)

综合评述

- 我国稀土资源现状与冶炼技术进展 谢东岳,伏彩萍,唐忠阳,刘旭恒(152)
矿物材料在催化脱硝方面的应用进展 胡志斐,王振峰,汪思瀛,武文斐,侯丽敏,张凯,白心蕊(161)
铝电解槽炭质固体废弃物综合利用进展 刘艳,胡广艳,孙伟,张烨,王丽(166)
层状双金属氢氧化物在建材领域的应用研究进展 侯凯,杨泽峰,袁骥,陈秋霖(172)

CONTENTS IN BRIEF

Mining and Metallurgical Wastewater

- Influence of coexisted ions in flotation wastewater on the ozonation aniline aerofloat Wang LH, Xu WH, Fu PF, Guo XH, Li G, and Xu CY(1)
- Calcium – aluminum composite material prepared by mechanochemical method for deep defluorination Guo L, Zhang QW(9)
- Study on the stabilization of Cd²⁺ by cementitious materials prepared with metallurgical slag Cui XW, Deng WX, Xie YX, and Wang L(15)
- Research on adsorption property of coconut shell activated carbon to wastewater containing sulfur Luo B, Peng TJ, Sun HJ, Tian M, and Yin ZH(20)
- Reviews in application of non – metallic minerals materials used in mine wastewater treatment Zhu HL, Shuai H, Liu L, Feng WX, and Du GX(26)
- Application of natural pyrite, modified pyrite and synthetic pyrite in effluent treatment Tang HW, Dang ZB, and Cheng WL(32)
- Comparison and analysis on zero discharge process of beneficiation wastewater in lead – zinc mine Ao SF(38)
- Research progress of mine wastewater treatment technology Hu B, Huang LY, Sun X, Yang SY, and Tong X(46)
- Purification and treatment technology of arsenic – containing wastewater from mining and smelting Lv JF, Quan YC, Tong X, Li X, and Zheng YX(53)
- Application of raffinate acid to flotation of phosphate ore Zhang B, Wang JM, and Zheng YX(61)
- Influence of different flocculants on settling effect of lead – zinc tailings Sun H, Li ML, Cui R, Ning JF, Li RJ, and Shi J(66)
- Flocculation of CaO – PAM in flotation wastewater treatment of oolitic hematite Zhang HQ, Ji ZJ, Min C, and Yu H(73)
- Advances of polyacrylamide flocculants in mining industry Lv S, Peng WJ, Miao YH, Chang LP, and Cao YJ(79)
- Experimental study on the treatment of cyanide – containing tailings by ozonation Cao H, Li HF, Liang X, Niu FY, Ning XX, and Wang Y(85)
- Research progress on decyanation of cyanide tailings and recovery of valuable metal resources Li YB, Chen K, and Zheng RJ(91)

Mineral Processing

- Pore stucture action mechanism based on electrochemistry inhibiting coal series clay rock sliming Li MM, Gao Y, Ding SF, Meng FN, and Peng DQ(102)
- Research on process and mechanism of magnetization roasting by straw biomass for hematite He RF, Han ZP, Zhou TB, Yu TY, Zhang Q, and Sun YS(107)
- Optimization test of stirred mill for mixed magnetic concentrate from Donganshan Su XG , Yang G, Chen GR, and Bai Z(113)
- Experimental research on beneficiation of copper – bearing tin polymetallic ore in Yunnan Li J, Xie X, Song Q, Hu SJ, Ren MH, and Wang CH(122)

Metallurgy

- Study on magnetic field intensification of cobalt leaching from anode powder of used lithium battery Zhou WB, Cheng H, Xu M, Zhu ZQ, Peng C, and Wang Z(127)
- Dealkalization of red mud by mild acid leaching and comprehensive utilization Hu GY(132)
- Stable Phase Equilibrium of the Ternary System Li⁺, NH₄⁺ //SO₄²⁻ – H₂O at 298 K Cheng ZY, Wei Z, He ZY, Xiao SY, Wang YX, and Zhou K(141)

Mineral materials

- Effect of sodium hexametaphosphate on preparation of ultrafine gypsum powder and its mechanism Ma XX, Wang YB, Hua KQ, Li SQ, and Li L(146)

Reviews

- Current status of rare earth resources in China and progress of extracting technology Xie DY, Fu CP, Tang ZY, and Liu XH(152)
- Application progress of mineral materials in catalytic denitrification Hu ZF, Wang ZF, Wang SY, Wu WF, Hou LM, Zhang K, and Bai XR(161)
- Progress in comprehensive utilization of carbon solid waste in aluminum electrolytic cell Liu Y, Hu GY, Sun W, Zhang Y, and Wang L(166)
- Research progress in the application of layered double hydroxides in building materials Hou K, Yang ZF, Yuan J, and Chen QL(172)