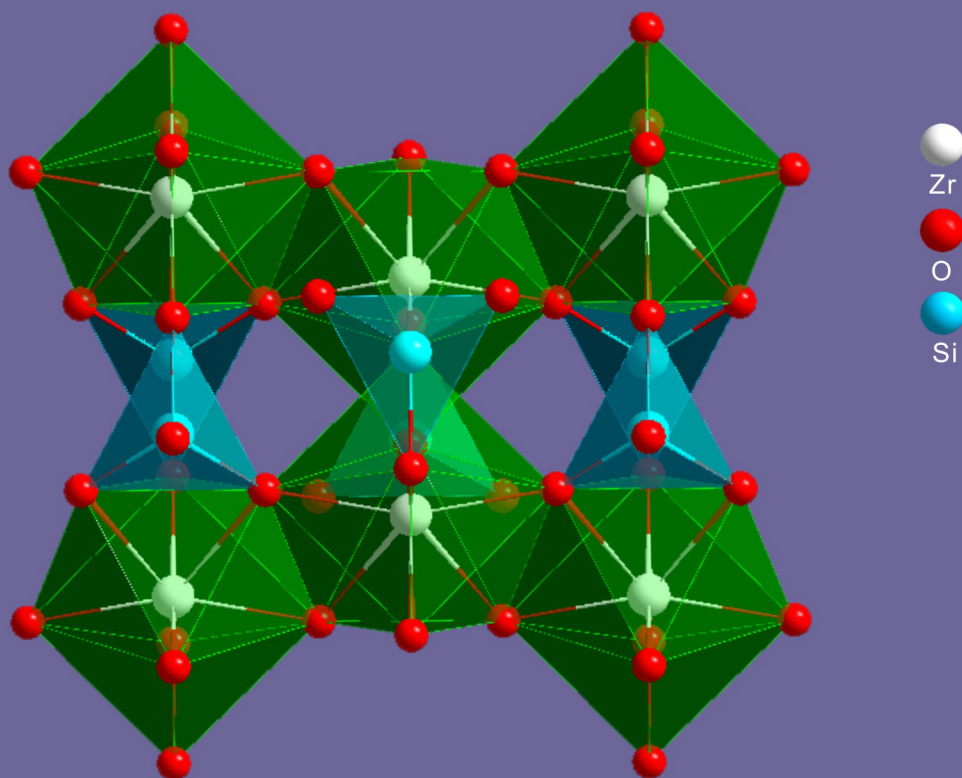


矿产保护与利用

Conservation and Utilization of Mineral Resources

专题：战略性非金属矿产



锆石的晶体结构

目次

战略性非金属矿产

中国钾资源开发利用技术及产业发展综述 熊增华,王石军(1)
锆石的合成及其固化核废物应用研究 丁艺,江正迪,鲜强,旦辉,段涛(8)
海泡石精细化加工及在战略性新兴产业的应用 纪慧超,董雄波,杨华明(16)
重晶石资源现状及材料化应用 王洋,黄聪,李珍(26)
我国重晶石选矿与提纯研究现状及展望 陈思雨,刘四清,陈章鸿(33)
重晶石防辐射原理与应用 何宇豪,任子杰,黄向阳,彭国煌,王增仔,高惠民(41)
超细粉碎研究现状及其在磷矿加工领域中的应用 李营营,李凤久,王迪,李国峰(47)
X射线拣选—反浮选工艺在宜昌中磷层磷矿选矿中的应用 李宇新,田孟杰,瞿定军,胡学超,孙伟,高志勇(52)
六偏磷酸钠在磷矿浮选中的应用及作用机理 张汉泉,许鑫,陈官华,周峰(58)
Fe3+与水玻璃组合抑制剂对萤石和方解石浮选分离的影响 宁江峰,李茂林,崔瑞,姚伟,施佳,李瑞杰(64)
陕西某鳞片石墨矿选矿工艺试验研究 王康,高惠民,任子杰,管俊芳,汪巍,韩子文(71)
锂云母浮选捕收剂研究现状及展望 李少平,张俊敏,迪里努尔·阿不都卡得,王亚莉(77)
焙烧对云母中不同元素酸浸出性能的影响 刘红召,柳林,王威,张博,王守敬(83)

矿物加工工程

矿浆温度对方铅矿浮选效果的影响及机理研究 贺寒冰,何廷树,王鑫,鱼博(88)
浮选过程中辉钼矿的氧化溶解特性 荀婧雯,王宇斌,马晓晓,王妍,李淑芹(95)
预抛—分级回收工艺预选秘鲁某金铜铁多金属矿深部矿石 谭欣,刘书杰,肖巧斌(102)

矿物材料

我国碳酸钙产业发展与资源梯级高值高效利用思考 田键,刘昊,胡攀,朱艳超,张祥,古卫乐,胡唐辉,岳光永(109)
江西广丰超大型高品质黑滑石矿石地球化学特征及应用建议 王运,胡宝群,李满根,范鹏飞(117)
高硅铁尾矿制备陶粒工艺试验研究 吴俊权,马晶,汪应玲,乔福龙,李晶,胡文斌,赵颖洁,段孟涵,王江伟(126)

冶金工程

二次铝灰高温焙烧脱氮固氟试验研究 李勇,彭莉,王海斌,秦紫依,屈毅,李勇刚,李春雷,王毅(133)

综合评述

地质聚合物研究进展 黎洁,谢贤,李博琦,朱辉,宋强,王成行(141)
铜渣资源化利用研究进展 谢仁齐,黄润,赵世翻,杨婧飘,张金柱(149)
从粉煤灰中提取氧化铝技术进展 朱辉,谢贤,李博琦,黎洁(155)
磨矿对矿物浮选行为的影响及助磨剂的作用 毛勇,王泽红,田鹏程,高伟,周鹏飞(162)
全球锰资源现状及对我国可持续发展建议 孙宏伟,王杰,任军平,张伟波,唐文龙,吴兴源,古阿雷(169)

CONTENTS IN BRIEF

Three Rare Mineral Resources

Overview of potassium resources exploitation & utilization technology and potash industry development

..... Xiong ZH, Wang SJ(1)

Synthesis of zircon and its application in the immobilization of nuclear waste Ding Y, Jiang ZD, Xian Q, Dan H, and Duan T(8)

Fine processing of sepiolite and its application in strategic emerging industries Ji HC, Dong XB, and Yang HM(16)

Status quo and materialized application of barite resources Wang Y, Huang C, and Li Z(26)

Present situation and outlook of barite flotation and purification in China Chen SY, Liu SQ, and Chen ZH(33)

Radiation protection mechanism and application of barite He YH, Ren ZJ, Huang XY, Peng GH, Wang ZZ, and Gao HM(41)

Research status on ultrafine crushing and its application in processing of phosphate rock

..... Li YY, Li FJ, Wang D, and Li GF(47)

The application of X - ray sorting - reverse flotation in phosphate rock beneficiation of Yichang phosphor layer ore

..... Li YX, Tian MJ, Qu DJ, Hu XC, Sun W, and Gao ZY(52)

Application and mechanism of sodium hexametaphosphate in phosphate ore flotation Zhang HQ, Xu X, Chen GH, and Zhou F(58)

Effect of Fe³⁺ and sodium silicate as combination inhibitors on flotation separation of fluorite and calcite

..... Ning JF, Li ML, Cui R, Yao W, Shi J, and Li RJ(64)

Experimental study on a flake graphite dressing process in Shaanxi province

..... Wang K, Gao HM, Ren ZJ, Guan JF, Wang W, and Han ZW(71)

Research status and prospect of lepidolite flotation collectors Li SP, Zhang JM, Dilinuer · Abudukade, and Wang YL(77)

Effect of roasting treatment on leaching properties of different element in mica Liu HZ, Liu L, Wang W, Zhang B, and Wang SJ(83)

Mineral Processing

Study on the effect and mechanism of pulp temperature on galena flotation He HB, He TS, Wand X, and Yu B(88)

Oxidation - dissolution characteristics of molybdenite during the flotation process ... Xun JW, Wang YB, Ma XX, Wang Y, and Li SQ(95)

Pre - concentration process of pre - throw - classification recovery of pre - thrown tailings on deep ore in a Au - Cu - Fe polymetallic deposit in Peru

..... Tan X, Liu SJ, and Xiao QB(102)

Mineral materials

Thoughts on the development of calcium carbonate industry and the high - value and high - efficiency utilization of resources in China

..... Tian J, Liu M, Hu P, Zhu YC, Zhang X, Gu WL, Hu TH, and Yue GY(109)

Application suggestions and geochemical characteristics of ultralarge high quality black talc ore in Guangfeng, Jiangxi province

..... Wang Y, Hu BQ, Li MG, and Fan PF(117)

Experimental study on preparation of ceramsite with high silicon iron tailings

..... Wu JQ, Ma J, Wang YL, Qiao FL, Li J, Hu WB, Zhao YJ, Duan MZ, and Wang JW(126)

Metallurgy

Study on removal of fluoride and nitride in secondary aluminum dross by high temperature roasting

..... Li Y, Peng L, Wang HB, Qin ZY, Qu Y, Li YG, Li CL, and Wang Y(133)

Reviews

Overview of research on geopolymers Li J, Xie X, Li BQ, Zhu H, Song Q, and Wang CH(141)

Research progress on resource utilization of copper slag Xie RQ, Huang R, Zhao SF, Yang JP, and Zhang JZ(149)

Current situation of alumina extraction from fly ash Zhu H, Xie X, Li BQ, and Li J(155)

Effect of grinding process on mineral flotation behavior and the role of grinding aids

..... Mao Y, Wang ZH, Tian PC, Gao W, and Zhou PF(162)

Current situation of global manganese resources and suggestions for sustainable development in China

..... Sun HW, Wang J, Ren JP, Zhang WB, Tang WL, Wu XY, and Gu AL(169)