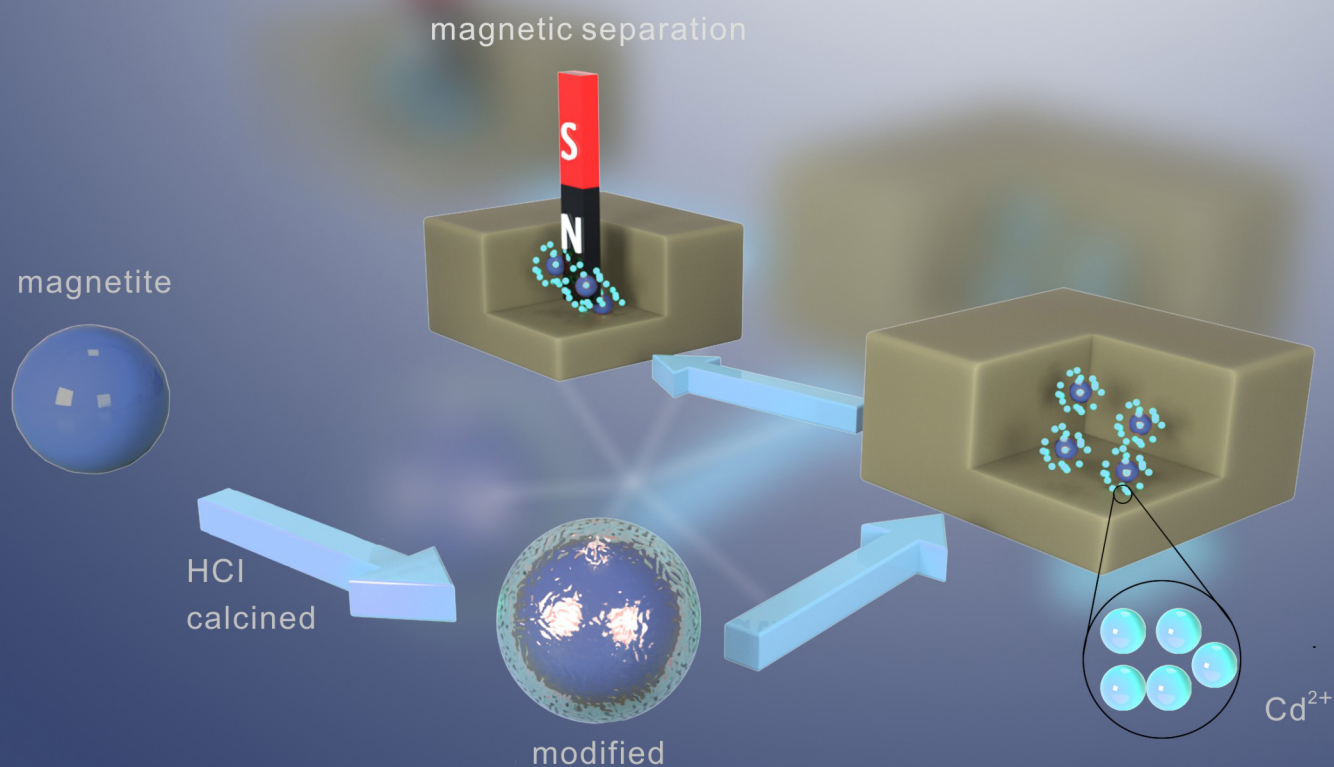


矿产保护与利用

Conservation and Utilization of Mineral Resources

Adsorption of Cadmium onto the Modified Magnetite



ISSN 1001-0076



9 771001 007183



中国地质科学院郑州矿产综合利用研究所 主办

国家非金属矿资源综合利用工程技术研究中心 协办

Vol.39

2019

2

目次

矿物加工工程

硫化矿浮选中相似结构的起泡剂的浮选特性研究	周高云,李俊旺,叶岳华,朴永超,王立刚,陈旭波(1)
微泡浮选中电解质对电解微泡量的影响	乌鹏飞,董宪姝(6)
捕收剂预先混合对新疆某羟硅铍石浮选的影响	耿志强,孙伟(10)
新型开放磁系永磁筒式强磁选机的研制与应用	成磊(14)
高硫砷钨矿石脱硫降砷浮选试验研究	谭欣,肖巧斌,刘书杰,苏建芳(18)
胶磷矿同步反浮选的试验研究	李冬莲,邹泽,李洪强,罗惠华,宋少先,肖林波,蒋鑫华(23)
用于铜铅浮选分离的新型组合抑制剂研究	梁溢强,吕超(28)
国外某低品位含金铜矿铜硫分选试验	傅飞龙(33)
新疆某铁尾矿中伴生钴的回收试验研究	张艳娇,常学勇,郭珍旭,王守敬(37)
赞比亚穆利亚希复杂混合铜矿工艺矿物学研究	黄草明,朱景和,文书明,邓久帅,蔡教忠,白旭(41)
广东某低品位钽铌铀钼多金属矿石工艺矿物学研究	李美荣,邱显扬,梁冬云,李波,孟庆波,蒋英(47)
从硫精矿中浮选回收铅锌混合精矿的试验研究及工业应用	教顺福,乔吉波,王少东,刘志成,高连启,惠世和,孙立(54)

冶金工程

三元体系 $\text{Li}^+, \text{Cs}^+ // \text{SO}_4^{2-} - \text{H}_2\text{O}$ 298 K 稳定相平衡研究	孙玖,王如燕,侯向阳,吴林鑫,陈佩君,曾英,于旭东(59)
某富含金银阳极泥矿的工艺矿物学研究	郭军,邱伟明,陈锋,肖寄光,袁齐,黄锐(64)

矿物材料

白云母粉体超细磨过程研究	王宇斌,文堪,汪潇,王望泊,王妍(70)
凹凸棒石粉末提纯及浆料流变性能的研究	姚义俊,齐贵君,刘斌(75)
江西某砂质高岭土超导磁分离除铁增白试验研究	谭琦,马瑛,赵恒勤,刘玉林,赵毅,张亮(79)
改性膨润土处理养殖废水的性能研究	章俊,陈旭,章文军,方雨博(85)
改性磁铁矿对矿区土壤中镉的吸附性能及机理	邵坤,赵改红,李刚(89)

矿山环境

高寒荒漠区某铜矿区土壤重金属污染分析	曹耀华,张永康,高照国,刘承勇,柳林,闫小换(95)
广西南丹某尾矿库矿物元素纵向分布规律研究	姚胜勋,韦志巧,韦岩松(101)

综合评述

典型金属离子对闪锌矿浮选行为的影响及作用机制的研究进展	曾勇,刘建,王瑜,罗德强(109)
菱镁矿浮选体系中金属离子对脉石矿物可浮性影响研究进展	张作金,代淑娟,韩佳宏,郝悦,王倩倩(118)
铜锌矿物分离中闪锌矿抑制剂的作用机理研究进展	王衡嵩,魏志聪,曾明,彭蓉,薛晨(124)
硫代硫酸盐浸金过程中添加剂的作用研究进展	何建,崔毅琦,贺俊傲,蔡鑫,童雄(131)
中国西南地区煤矸石利用现状与展望	邓代强(136)
我国泥炭资源开发利用现状及建议	王利伟,孔凡晶,郑绵平,王登红(142)

矿产资源管理

基于共享价值的绿色和谐勘查:来自青海的实践	李奇明,李佳朋,王来峰(148)
(矿产)资源开发区生态承载力与产业一致性发展布局分析	余良晖(154)
有色矿山开发中的生态环境治理机制国际经验及启示	许礼刚(159)
基于标准化视角谈矿产资源节约与综合利用质量提升	李杏茹,胡欣,郑玮凡,赵祺彬(166)
基于多元回归的铁矿资源权益金测算研究	蒋健明,汪应宏(170)

CONTENTS IN BRIEF

MINERAL PROCESSING

Study on Flotation Behaviors of the Frothers with Similar Formation in the Flotation of Sulfide Ores	ZHOU Gaoyun, et al(1)
Effect of Electrolyte on the Amount of Electrolyzed Microbubbles in Microbubble Flotation	WU Pengfei, et al(6)
Experimental Study on Flotation XinJiang Bertrandite Using Combination Collectors	GENG Zhiqiang, et al(10)
Research of High Gradient Permanent Magnetic Drum Separator with Open Magnetic Circuit	CHENG Lei(14)
Flotation Study of Sulfur and Arsenic Reducing on Tungsten Ore Bearing High Sulfur and Arsenic	TAN Xin, et al(18)
Experimental Research on the Synchronous Reserve Flotation of Collophanite	LI Donglian, et al(23)
Study on Combination Depressants for Flotation Separation of a Copper – lead Bulk Concentrate	LIANG Yiqiang, et al(28)
Study on Separation Copper from Sulfur of a Low – grade Sulfide Copper Ore Containing Gold in Foreign Country	FU Feilong(33)
Experimental Study on the Recovery of Associated Cobalt from an Iron Tailings in Xinjiang	ZHANG Yanjiao, et al(37)
Process Mineralogy Study on Complex Mixed Ores of Zambia Muliashi Copper Mine	HUANG Caoming, et al(41)
Process Mineralogy Study of a Low – grade Rare and Polymetallic Ore of Tantalum – niobium – rubidium – beryllium from Guangdong	LI Meirong, et al(47)
The Experimental Research and Application of Flotation Recovering Pb – Zn Mixed Concentrate from the Sulfur Concentrate	AO Shunfu, et al(54)

METALLURGY

Stable Phase Equilibrium in the Ternary System $Li^+, Cs^+ // SO_4^{2-} - H_2O$ at 298 K	SUN Jiu, et al(59)
The Process Mineralogy Study of a Gold – silver Anode Slime Mineral	GUO Jun, et al(64)

MINERAL MATERIAL

Study on Ultrafine Grinding Process of Muscovite Powder	WANG Yubin, et al(70)
Study on Purification of Attapulgit Powder and Rheological Properties of Slurry	YAO Yijun, et al(75)
Study on Iron Removal and Whitening of Sandy Kaolin from Jiangxi by Superconducting Magnetic Separation	TAN Qi, et al(79)
Experimental Study on Treatment of Aquaculture Wastewater by Modified Bentonite	ZHANG Jun, et al(85)
Adsorption Properties and Mechanism of Modified Magnetite for Cadmium Removal from Mined Soil	SHAO Kun, et al(89)

MINE ENVIRONMENT

Analysis of Heavy Metal Pollution of Soil in a Copper Mining Area in the Alpine Desert	CAO Yaohua, et al(95)
Study on the Vertical Distribution of Mineral Elements in a Tailings Pond in Nandan, Guangxi	YAO Shengxun, et al(101)

SUMMARIZE

Research Progress on the Interaction Mechanism of Typical Metal Ions with Sphalerite and Its Effect on Flotation	ZENG Yong, et al(109)
Research Progress on the Effect of Metal Ions on the Floatability of Gangue Minerals in Magnesite Flotation System	ZHANG Zuojin, et al(118)
Research Progress on the Mechanism of Sphalerite Inhibitors in the Separation of Copper and Zinc Minerals	WANG Hengsong, et al(124)
Research Progress of the Role of Additives in the Process of Gold Leaching with Thiosulfate	HE Jian, et al(131)
The Present Situation and Prospect of Coal Gangue Utilization in Southwest China	DENG Daiqiang(136)
Present Situation and Suggestions on the Exploitation and Utilization of Peat Resources in China	WANG Liwei(142)

ADMINISTRATION OF MINERAL RESOURCES

Green Harmonious Exploration Based on Shared Value: Practice from Qinghai (Mineral) Resources Development Zone Ecological Carrying Capacity and Consistent Industrial Development Layout Analysis	LI Qiming, et al(148) YU Lianghui(154)
International Experience and Enlightenment of Ecological Environment Governance Mechanism in the Development of Nonferrous Mines	XU Ligang(159)
Discussion on the Quality Improvement of Mineral Resource Conservation and Comprehensive Utilization Based on the Standardized Perspective	LI Xingru, et al(166)
Multiple Regression – based Assessment of Iron Ore Resource Royalty	JIANG Jianming, et al(170)