



岩石测试

(YANKUANG CESHI)

第43卷 第2期 2024年3月

目 次

岩石矿物分析

- 锂硼同位素 MC-ICP-MS 分析中的记忆效应研究
唐清雨, 陈露, 田世洪, 胡文洁, 龚迎莉, 宇艳梅(201)
- 地质样品铊同位素分析预处理方法优化
柴锦捷, 余红霞, 徐庆鸿, 袁永海, 杨锋, 张惠评(213)
- 松辽盆地砂岩型铀矿铀含量配分比例的半定量分析
刘明义, 吴柏林, 杨松林, 郝欣, 王苗, 李琪, 林周洋, 张效瑞(224)
- 颗粒度对喀斯特型铝土矿可见光-近红外光谱特征的影响
高齐云, 周丽, 易泽邦, 陈正山(234)
- 密闭酸溶-电感耦合等离子体发射光谱/质谱法测定花岗伟晶岩中 32 种微量元素
夏传波, 成学海, 姜云, 张文娟, 陈明桂, 赵伟(247)
- 宁芜盆地玢岩型铁矿尾矿元素与矿物组成特征
鲁银鹏, 孟郁苗, 黄小文, 王丛林, 杨秉阳, 谭侯铭睿, 谢欢(259)
- 砷矿石化学物相分析——雌黄和雄黄选择性分离条件研究
董亚妮, 熊英, 裴若会, 张笑, 谢光晋, 崔长征(270)

自然资源分析研究

- 生物炭富集-电感耦合等离子体质谱法测定海水中的痕量铅铜
韩梅, 张威, 贾娜, 张辰凌, 孔祥科(281)
- 多孔有机聚合物/壳聚糖复合材料的制备及其对 Hg(II) 吸附性能探究
申汝佳, 许乃岑, 时磊, 黄海波, 陈海英, 张静, 沈加林, 李华玲, 陈雅丽(289)

健康地质与生态环境研究

- 原位吸附技术修复六价铬污染土壤 张兆鑫, 曹宁宁, 李林记, 刘素青,
李佳昊, 曹翠, 李和平, 张凯, 石勇丽(302)
- 河南洛阳农田土壤中硒锌的有效态与形态关系及影响因素
..... 周刊, 周建川, 王喜宽, 刘俊芳, 黄岚, 侯进凯(315)
- 河南荥阳市耕地土壤重金属分布特征及来源解析 张妍, 赵新雷, 冯雪珍, 郭亚娇(330)
- 皖西大别山农耕区表层土壤养分地球化学综合评价及影响因素
..... 董秋瑶, 宋超, 温皓天, 向娇, 王攀, 严明疆(344)

技术交流

- 偏硼酸锂熔融-电感耦合等离子体发射光谱法测定铍矿石中的铍及主量元素
..... 郭琳, 于汀汀, 孙红宾, 朱云(356)
- 常压密闭微波消解-电感耦合等离子体质谱法测定磷矿石中的稀土元素
..... 张楠, 郑智慷, 王家松, 曾江萍(366)

进展与评述

- 战略性关键金属矿产标准物质现状和需求分析 孙慧中, 安子怡, 许春雪, 陈宗定(375)
- 铁氧化物-二价铁体系在潜流带低渗透区的氧化还原特性研究进展
..... 罗伟嘉, 冯晨, 侯国华, 陈家玮(397)

广告信息

安捷伦(中国)科技有限责任公司
地质和环境系列标准物质
四川赛恩思仪器有限公司
北京海光仪器有限公司

《岩矿测试》: <http://www.ykcs.ac.cn> (投稿/审稿系统)

《岩矿测试》QQ群: 249221689 微信群和微信公众号名称: 岩矿测试

编辑部工作邮箱: ykcs_zazhi@163.com; ykcs@cags.ac.cn

编辑部办公电话: 010-68999562

期刊基本参数: CN 11-2131/TD * 1982 * b * A4 * 206 * zh * P * ¥ 60.00 * 400 * 17 * 2024-03

本期责任编辑: 徐书荣 储彬彬 佟玲 排版制图: 北京仁和汇智信息技术有限公司

Rock and Mineral Analysis

Vol. 43 No. 2

March 2024

CONTENTS

Rock and Mineral Analysis

- A Study on Memory Effects in Lithium and Boron Isotope Analysis Using MC-ICP-MS
..... *TANG Qingsyu, CHEN Lu, TIAN Shihong, HU Wenjie, GONG Yingli, ZI Yanmei* (201)
- Optimization of Pretreatment Method for Tl Isotope Analysis of Geological Samples
..... *QI Jinjie, YU Hongxia, XU Qinghong, YUAN Yonghai, YANG Feng, ZHANG Huiping* (213)
- Semi-Quantitative Analysis of Uranium Content Distribution Ratio in a Sandstone-Type Uranium Deposit
in Songliao Basin *LIU Mingyi, WU Bailin, YANG Songlin, HAO Xin, WANG Miao,*
LI Qi, LIN Zhouyang, ZHANG Xiaorui (224)
- Effect of Granularity on the Characteristic Visible-Near Infrared Spectra of Karst-Type Bauxite
..... *GAO Qiyun, ZHOU Li, YI Zebang, CHEN Zhengshan* (234)
- Determination of 32 Trace Elements in Granite Pegmatite by Inductively Coupled Plasma-Optical
Emission Spectrometry and Mass Spectrometry with Closed Acid Dissolution
..... *XIA Chuanbo, CHENG Xuehai, JIANG Yun, ZHANG Wenjuan, CHEN Minggui,*
ZHAO Wei (247)
- Element and Mineral Characteristics of Tailings in the Porphyry-Type Iron Deposit from Ningwu Basin ...
..... *LU Yinpeng, MENG Yumiao, HUANG Xiaowen, WANG Conglin, YANG Bingyang,*
TANHOU Mingrui, XIE Huan (259)
- Chemical Phase Analysis of Arsenic Ores—A Study on Selective Separation Conditions of Orpiment and
Realgar *DONG Yani, XIONG Ying, PEI Ruohui, ZHANG Xiao, XIE Guangjin,*
CUI Changzheng (270)

Research on Natural Resources Analysis

- Determination of Trace Lead and Copper in Seawater by Inductively Coupled Plasma-Mass Spectrometry
with Coconut Shell Biochar Enrichment
..... *HAN Mei, ZHANG Wei, JIA Na, ZHANG Chenling, KONG Xiangke* (281)
- Facile Synthesis of Porous Organic Polymer/Chitosan Composites and the Removal Effect of Hg(II)
..... *SHEN Rujia, XU Naicen, SHI Lei, HUANG Haibo, CHEN Haiying,*
ZHANG Jing, SHEN Jialin, LI Hualing, CHEN Yali (289)

Research on GeoHealth and Ecological Environment

- In situ* Adsorption Technology for Remediation of Cr(VI) Contaminated Soil
..... *ZHANG Zhaoxin, CAO Ningning, LI Linji, LIU Suqing, LI Jiahao,*
CAO Cui, LI Heping, ZHANG Kai, SHI Yongli (302)
- Relationship between Available State and Forms of Selenium and Zinc in Farmland Soil of Luoyang City
and Its Influencing Factors *ZHOU Kan, ZHOU Jianchuan, WANG Xikuan,*
LIU Junfang, HUANG Lan, HOU Jinkai (315)
- Distribution Characteristics, Ecological Risks, and Source Identification of Heavy Metals in Cultivated
Land in Xingyang City *ZHANG Yan, ZHAO Xinlei, FENG Xuezhen, GUO Yajiao* (330)
- Comprehensive Geochemical Evaluation and Influencing Factors of Topsoil Nutrients in a Farming Area
of Dabie Mountain in Western Anhui, China *DONG Qiuyao, SONG Chao,*
WEN Haotian, XIANG Jiao, WANG Pan, YAN Mingjiang (344)

Technical Exchange

- Determination of Beryllium and Major Elements in Beryllium Ores by Inductively Coupled Plasma-
Optical Emission Spectrometry with Lithium Metaborate Fusion
..... *GUO Lin, YU Tingting, SUN Hongbin, ZHU Yun* (356)
- Determination of 15 Rare Earth Elements in Phosphate Ores by Inductively Coupled Plasma-Mass
Spectrometry with Atmospheric Pressure Closed Microwave Digestion
..... *ZHANG Nan, ZHENG Zhikang, WANG Jiasong, ZENG Jiangping* (366)

Progress and Reviews

- The Current Status and Development Demand Analysis of Certified Reference Materials for Strategic
Critical Metal Minerals *SUN Huizhong, AN Ziyi, XU Chunxue, CHEN Zongding* (375)
- Progress on Redox Characteristics of an Iron Oxide-Ferrous System in the Hyporheic Zone
..... *LUO Weijia, FENG Chen, HOU Guohua, CHEN Jiawei* (397)

Website of Rock and Mineral Analysis: <http://www.ykcs.ac.cn>

QQ Group: 249221689

E-mail: ykcs_zazhi@163.com; ykcs@cags.ac.cn

Editorial Office of Rock and Mineral Analysis: +8610-68999562 (Telephone)

Executive editors of this issue: XU Shurong, CHU Binbin, TONG Ling

Cope editor: Beijing Renhe Information Technology Co., Ltd.