

岩矿测试

(YANKUANG CESHI)

第 44 卷 第 2 期 2025 年 3 月

目 次

进展与评述

- 锶同位素在地质学领域的分析技术与应用研究进展
..... 贾伍慧, 刘凯, 余成华, 朱伟, 邓岳飞(149)
X 射线荧光光谱在地质分析中的若干难点及应用现状
..... 袁静, 李迎春, 谭桂丽, 黄海波, 张华, 刘娇(161)
全氟与多氟烷基化合物的生态风险现状与分析技术研究进展 王伟杰, 王洪涛(174)

岩石矿物分析

- 基于激光拉曼光谱的微细粒矿物颜料分析方法研究 朱伟, 徐文静, 沈爱国(187)
基于电子探针分析的辉石分解出溶及初始组分再整合研究 李小犁, 张立飞(199)
扬子地块西南缘乌斯河富锗闪锌矿矿物标型特征与锗的替代机制
..... 孙世强, 陈翠华, 赵文皓, 赖翔, 马天祺, 张海军, 乔梦怡,
宋志娇, 陈宵杰, 辜鹰(212)
利用高压离子色谱仪自动分离纯化地质样品中的锂
..... 杨旖旎, 汪双双, 魏小燕, 李艳广, 黎卫亮, 靳梦琪, 焦鑫(228)
利用原子力显微镜研究致密砂岩储层黏土矿物形貌特征 王坤阳, 杜谷, 王冠, 何佳乐(243)
..... 王坤阳, 杜谷, 王冠, 何佳乐(243)
稀土元素铽镧掺杂对硫氧化钆晶格场的影响及发光性能研究
..... 张静, 许乃岑, 沈加林, 金凡(252)
次氯酸氧化 ICP-MS 同时测定金矿石中金和伴生元素银铜铅锌砷锑
..... 王啸, 刘玖芬, 甘黎明, 李荣华, 王西, 魏欣, 何涛(266)
基于矿物溶解实验的砂岩次生孔隙定量计算模型及应用
..... 张鹏飞, 王成军, 邱贻博, 倪蕊, 赵汇珍, 陈勇(277)

自然资源分析研究

- 微波辅助提取 GC-MS/MS 测定复杂基质底泥中德克隆类化合物及处理效果初探
..... 朱 帅, 沈亚婷, 潘 萌, 贾 静, 杨志鹏, 曹建华, 王 玉(288)
- 粉末压片-X 射线荧光光谱法测定小样品量土壤和沉积物中主量元素
..... 赵红坤, 刘亚轩, 马生明, 张艳飞, 张鹏鹏, 李 强, 李振清,
陈其慎, 李 勇, 顾 雪, 陈宏强(303)
- 人工无本底土壤培养实验下 GDGTs 的含量与分布特征
..... 苗 瑞, 赵增浩, 蔡泽园, 刘 旭, 王欢业(314)

动态与行业资讯

- 《岩矿测试》第九届编辑委员会 编辑部(封三)
- 2024 年度《岩矿测试》优秀编委、优秀宣传奖、优秀审稿人评选结果 编辑部(XX)

广告信息

岛津企业管理(中国)有限公司
北京海光仪器有限公司
四川赛恩思仪器有限公司
地质和环境系列标准物质
自然资源实验室管理信息系统
安捷伦(中国)科技有限责任公司

《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

编辑部办公电话: 010-68999562

期刊基本参数: CN 11-2131/TD * 1982 * b * A4 * 179 * zh * P * ¥ 60.00 * 400 * 14 * 2025-03

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

★ 该篇文章附有一篇英文简报“BRIEF REPORT”。

Rock and Mineral Analysis

Vol. 44 No. 2

March 2025

CONTENTS

Progress and Reviews

- Research Progress on the Application of Strontium Isotope Analysis Techniques in Geology: A Review ...
..... *JIA Wuhui, LIU Kai, YU Chenghua, ZHU Wei, DENG Yuefei* (149)
- Some Difficulties and Status in the Application of X-ray Fluorescence Spectrometry in Geological Analysis *YUAN Jing, LI Yingchun, TAN Guili, HUANG Haibo, ZHANG Hua, LIU Jiao* (161)
- Research Progress on the Ecological Risk Status and Analytical Techniques of Per- and Polyfluoroalkyl Substances *WANG Weijie, WANG Hongtao* (174)

Rock and Mineral Analysis

- Analysis of Micro-fine Mineral Pigments Based on Laser Raman Spectroscopy
..... *ZHU Wei, XU Wenjing, SHEN Aiguo* (187)
- Electron Microprobe Reintegration Method for Clinopyroxene Breakdown with Lamellae Exsolution
..... *LI Xiaoli, ZHANG Lifei* (199)
- Typomorphic Characteristics of Germanium-Enriched Sphalerite Minerals and the Substitution Mechanism of Germanium from Wusihe in Southwestern Margin of the Yangtze Block
..... *SUN Shiqiang, CHEN Cuihua, ZHAO Wenhao, LAI Xiang, MA Tianqi, ZHANG Haijun, QIAO Mengyi, SONG Zhijiao, CHEN Xiaojie, GU Ying* (212)
- Automatic Purification of Li Isotopes from Geological Samples by High-Pressure Ion Chromatography
..... *YANG Yini, WANG Shuangshuang, WEI Xiaoyan, LI Yanguang, LI Weiliang, JIN Mengqi, JIAO Xin* (228)
- The Morphological Characteristics of Clay Minerals in Tight Sandstone Reservoir by Atomic Force Microscopy *WANG Kunyang, DU Gu, WANG Guan, HE Jiale* (243)

- Influence of Rare Earth Terbium and Lanthanum Doping on the Lattice Field and Luminescence
Performance of Gadolinium Oxysulfide ··· *ZHANG Jing, XU Naicen, SHEN Jialin, JIN Fan* (252)
- Simultaneous Determination of Au and Associated Elements Ag, Cu, Pb, Zn, As and Sb in Gold Ore by
ICP-MS with Hypochloric Acid Oxidation
..... *WANG Xiao, LIU Jiufen, GAN Liming, LI Ronghua, WANG Xi,
WEI Xin, HE Tao* (266)
- Quantitative Calculation Model for the Secondary Porosity of Sandstone Based on Mineral Dissolution
Experiment and Its Application *ZHANG Pengfei, WANG Chengjun, QIU Yibo, NI Rui,
ZHAO Huizhen, CHEN Yong* (277)

Research on Natural Resources Analysis

- Investigation on the Determination of Dechlorane Plus Compounds in Complex Matrix Sludge Using
Microwave-Assisted Extraction Coupled with GC-MS/MS and Evaluation of Treatment Efficiency ···
..... *ZHU Shuai, SHEN Yating, PAN Meng, JIA Jing, YANG Zhipeng,
CAO Jianhua, WANG Yu* (288)
- Determination of Major Elements in Small-Weight Soil and Sediment Samples by X-ray Fluorescence
Spectroscopy with Pressed-Powder Pellets
..... *ZHAO Hongkun, LIU Yaxuan, MA Shengming, ZHANG Yanfei, ZHANG Pengpeng,
LI Qiang, LI Zhenqing, CHEN Qishen, LI Yong, GU Xue, CHEN Hongqiang* (303)
- Abundance and Distribution of GDGTs in Incubated Artificial Soils with no Fossil Pool
..... *MIAO Rui, ZHAO Zenghao, CAI Zeyuan, LIU Xu, WANG Huanye* (314)

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

QQ Group: 249221689

E-mail: ykcs_zazhi@163.com

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.

★ The article is accompanied by a BRIEF REPORT.