

# 地质与勘探

2022年5月 第58卷 第3期

## 目 录

### 金属矿产

- 贵州都匀大亮锌矿床闪锌矿稀土元素地球化学特征及其指示意义 ..... 程涌, 崔苗, 许赛华, 卢萍, 聂琪, 刘聪, 文文明, 伍伟, 塞龙(0465)  
贵州滥木厂金汞铊矿床地质地球化学特征及其地质意义 ..... 李松涛, 周光红, 刘建中, 苑顺发, 王泽鹏, 杨成富, 汪小勇, 龙成雄, 张兵强, 李俊海, 郑禄林(0475)  
山西省红土沟铅锌矿床地质特征及找矿潜力分析 ..... 宁建国, 刘玉国, 裴进云, 刘飚(0489)  
甘肃省龙首山成矿带青山堡岩体闪长岩特征及与铀成矿关系 ..... 陈云杰, 王伟, 王刚, 杨昆, 何佳军, 李涛(0501)  
江西城门山铜矿床伴生稀散金属矿化特征及其地质意义 ..... 高任, 谢桂青, 查志强, 童继中, 樊涛, 章平, 罗建安(0514)  
不同类型矿床(点)空间关联关系定量研究 - 以中南半岛及临近地区为例 ..... 潘北斗, 李宝, 王福臣, 徐剑波, 付雪明, 何雨栗(0532)  
新疆火烧云超大型铅锌矿床闪锌矿微量(稀散)元素组成特征与指示意义 ..... 袁鑫, 吴越, 段登飞, 朱江, 欧阳荷根, 曹亮, 周豹(0545)  
山东莒县果庄地区物化探特征及找矿前景 ..... 庞新龙, 燕军利, 余继峰, 蒋宗凯, 柳汉丰(0561)

### 地球化学

- 吉林省敦化尔站矿区地球化学异常与钼矿体的相关性分析 ..... 张海洪, 王福亮, 李存直, 薛昊日, 姜雪飞, 付涛, 李阳(0573)  
赣南西华山成矿花岗岩锆石 U-Pb 年代学和 Hf 同位素特征及其地质意义 ..... 郭小飞, 王庆龙, 荆一洪, 刘云龙(0585)  
新疆西天山温泉岩体群 LA-ICP-MS 锆石 U-Pb 定年及其地质意义 ..... 孟令华, 马明永, 崔庆岗(0597)  
青海门源县土壤质量地球化学评价 ..... 刘庆宇, 马瑛, 程莉(0609)  
湘中芭蕉冲金矿土壤地球化学特征及找矿前景分析 ..... 文继祖, 张尚峰, 刘浩, 朱曙光, 聂薇(0619)

### 地球物理

- 黑龙江多宝山矿集区三维地质建模与深部找矿预测 ..... 许逢明, 赵院冬, 李成立, 崔健, 吴大天, 孙巍(0629)

### 遥感地质

- 航空高光谱 CASI-SASI 数据蚀变矿物信息提取与应用——以甘肃省敦煌市小金窝子地区为例 ..... 孙雨, 刘家军, 赵英俊, 翟德高, 柳振江, 张方方, 秦凯, 田丰, 康向阳, 裴承凯, 刘鹏飞(0653)

### 水文·工程·环境

- 川藏铁路千米级水平孔绳索取心钻进技术与应用 ..... 罗显梁, 徐正宣, 吴金生, 黄晓林, 石绍云, 蒋炳, 刘建国(0665)  
基于多源异构数据的大比例尺地上地下一体化城市三维模型集成方法研究 ..... 韩征, 王文文, 李勇, 李敏(0676)  
页岩油藏多段水平井压后关井阶段压力扩散数学模型研究 ..... 赵振峰, 刘汉斌, 杜现飞, 徐创朝, 赵号朋(0686)  
深孔智能化钻井参数远程监控及工况识别系统研究 ..... 罗光强, 李扬, 周策, 陈文俊(0696)

# **GEOLOGY AND EXPLORATION**

Vol. 58 , No. 3 May ,2022

## **Contents**

### **METAL ORE DEPOSITS**

- Trace Element Geochemical Characteristics of Sphalerite from the Daliang Zinc Deposit in Duyun City of Guizhou Province and Their Indicative Significance ..... Cheng Yong, Cui Miao, Xu Saihua, Lu Ping, Nie Qi, Liu Cong, Wen Yiming, Wu Wei, Jian Long(0465)
- Geological and Geochemical Characteristics of the Lanmuchang Gold – Mercury – Thallium Deposit in Southwestern Guizhou Province and Their Geological Implications ..... Li Songtao, Zhou Guanghong, Liu Jianzhong, Yuan Shunfa, Wang Zepeng, Yang Chengfu, Wang Xiaoyong, Long Chengxiong, Zhang Bingqiang, Li Junhai, Zheng Lulin(0475)
- Geological Characteristics and Prospecting Potential of the Hongtugou Pb – Zn Deposit in Shanxi Province ..... Ning Jianguo, Liu Yuguo, Pei Jinyun, Liu Biao(0489)
- Characteristics of Diorite from the Qingshanbao Pluton and Their Relationship with Uranium Mineralization in the Longshoushan Metallogenic Belt , Gansu Province ..... Chen Yunjie, Wang Wei, Wang Gang, Yang Kun, He Jiajun, Li Tao(0501)
- Mineralization of Associated Dispersed Elements in the Chengmenshan Copper Deposit of Jiangxi Province and Its Geological Significance ..... Gao Ren, Xie Guiqing, Zha Zhiqiang, Tong Jizhong, Fan Tao, Zhang Ping, Luo Jian'an(0514)
- Quantitative Study on Spatial Correlation of Different Types of Deposits ( Occurrences ) – A Case Study of Indochina Peninsula and Adjacent Areas ..... Pan Beidou, Li Bao, Wang Fuchen, Xu Jianbo, Fu Xueming, He Yuli(0532)
- Trace ( Dispersed ) Elements in Sphalerite from the Giant Huoshaoyun Lead – Zinc Deposit, Xinjiang and Their Geological Implications ..... Yuan Xin, Wu Yue, Duan Dengfei, Zhu Jiang, Ouyang Hegen, Cao Liang, Zhou Bao(0545)
- Geophysical and Geochemical Characteristics and Prospecting Potential of the Guozhuang Area, Juxian County, Shandong Province ..... Pang Xinlong, Yan Junli, Yu Jifeng, Jiang Zongkai, Liu Hanfeng(0561)

### **GEOCHEMISTRY**

- Correlation between Geochemical Anomalies and Molybdenum Ore Bodies in the Erzhan Ore District of Dunhua City ,Jilin Province ..... Zhang Haihong, Wang Fuliang, Li Cunzhi, Xue Haori, Jiang Xuefei, Fu Tao, Li Yang(0573)

- Zircon U – Pb Geochronology and Hf Isotope Characteristics of the Xihuashan Granites in Southern Jiangxi Province and Their Geological Significance ..... Guo Xiaofei, Wang Qinglong, Jing Yihong, Liu Yunlong(0585)
- LA – ICP – MS Zircon U – Pb Dating of the Wenquan Pluton Group in Western Tianshan, Xinjiang and its Geological Significance ..... Meng Linghua, Ma Mingyong, Cui Qinggang(0597)
- Geochemical Evaluation of Soil Quality in Menyuan County of Qinghai Province ..... Liu Qingyu, Ma Ying, Cheng Li(0609)
- Soil Geochemistry and Prospecting Potential of the Bajiaochong Gold Deposit in Central Hunan Province ..... Wen Jizu, Zhang Shangfeng, Liu Hao, Zhu Shuguang, Nie Wei(0619)

## **GEOPHYSICS**

- Three – Dimensional Geological Modeling and Deep Prospecting Prediction of the Duobaoshan Ore Concentration Area in Heilongjiang Province ..... Xu Fengming, Zhao Yuandong, Li Chengli, Cui Jian, Wu Datian, Sun Wei(0629)

## **REMOTE SENSING GEOLOGY**

- Extraction of Alteration Minerals Based on the Airborne Hyperspectral CASI – SASI Data and the Application to the Xiaojinwozi Area in Dunhuang City, Gansu Province ..... Sun Yu, Liu Jiajun, Zhao Yingjun, Zhai Degao, Liu Zhenjiang, Zhang Fangfang, Qin Kai, Tian Feng, Kang Xiangyang, Pei Chengkai, Liu Pengfei(0653)

## **HYDROLOGY, ENGINEERING AND ENVIRONMENT**

- Application of the Drilling Technology Based on Wireline Coring to a Kilometer – Level Horizontal Hole on the Sichuan – Tibet Railway ..... Luo Xianliang, Xu Zhengxuan, Wu Jinsheng, Huang Xiaolin, Shi Shaoyun, Jiang Bing, Liu Jianguo(0665)

- An Integration Method of 3D Integrated Large – Scale Urban Aboveground and Underground Models Based on Multi – Source Heterogeneous Data ..... Han Zheng, Wang Wenwen, Li Yong, Li Min(0676)

- Pressure Diffusion at the Shut – in Stage of Multi – Section Horizontal Wells in Shale Oil Reservoirs ..... Zhao Zhenfeng, Liu Hanbin, Du Xianfei, Xu Chuangchao, Zhao Haopeng(0686)
- Intelligent Remote Monitoring and the Work – Condition Identification System for Deep Drilling ..... Luo Guangqiang, Li Yang, Zhou Ce, Chen Wenjun(0696)