

地球科学

第四十七卷

第八期

二〇二二年八月

中国地质大学(武汉)主办

ISSN 1000-2383
CN 42-1874/P

EARTH SCIENCE

地球科学

Vol.47 No.8
第47卷 第8期

2022



中国地质大学(武汉)主办



特邀主编 许文良 章军锋

地球科学

2022年8月 第47卷 第8期

目次

实验地球科学发展现状与趋势专栏

实验地球科学的前沿与发展战略	许文良,任建国,章军锋(2667)
实验地球化学的发展历史和研究展望	杨晓志,李元,张莉,王煜,刘锦,张凯(2679)
实验岩石学发展现状与趋势	倪怀玮,王沁霞,王春光,张艳飞(2691)
实验矿床学的发展现状和前景展望	熊小林,侯通,王小林(2701)
实验矿物物理的发展现状与趋势:1.相变和状态方程、电导率、热导率	张宝华,毛竹,刘锦,叶宇,孙伟,郭新转,刘兆东,郭璇(2714)
实验矿物物理的发展现状与趋势:2.弹性和波速	毛竹,刘兆东,张友君,张宝华,孙宁宇(2729)
实验流变学的发展现状与趋势	章军锋,周永胜,宋茂双(2744)
高温高压装置研制和技术创新的发展现状与趋势	巫翔,高春晓,王超(2757)

• 矿物学·岩石学·矿床学 •	
老挝表层沉积物69种元素地球化学背景值	王玮,王学求,张必敏,聂兰仕,程新彬,韩志轩,刘汉粮,刘东盛(2765)
中国钴地球化学异常特征、成因及找矿远景区预测	刘东盛,王学求,聂兰仕,周建,刘汉粮,张必敏,王玮,迟清华,徐善法(2781)
中蒙边界地区战略性矿产资源锂区域地球化学分布及控制因素	刘汉粮,聂兰仕,Shojin Davaa,王学求,迟清华,王丽君(2795)
二连盆地土壤微细粒铀地球化学分布特征及找矿方向	严桃桃,聂兰仕,王学求,张必敏,刘汉粮,田密,徐善法,乔宇,窦备,尤景广(2809)
南蒙古古生代岛弧地体中酸性岩石锆石年代学、Hf同位素特征及地质意义	张伟波,王丰翔,刘翼飞,江思宏,何学洲,于瑞,李谦谦(2824)
大兴安岭北段免渡河地区晚石炭世二长花岗岩成因:锆石U-Pb年代学、Hf同位素和地球化学证据	许逢明,孙巍,吴大天,王奎良,周永恒(2839)
蒙古国东部砂岩型铁多金属矿床成矿岩体年代学及地球化学	张莉莉,江思宏,王怀坤,孟祥熙,张帅,武昱东(2856)
黎府构造带北部南莫溪蛇绿混杂岩的发现及其地质意义	吴松洋,聂飞,刘书生,谢恩顺,冷秋锋,李雁龙,吴振波,张红(2871)
大兴安岭南段小乌兰沟正长花岗岩成因:锆石LA-ICP-MS U-Pb年代学、地球化学及Hf同位素的制约	章培春,彭勃,赵金忠,王鑫,贺吉,张爱,双龙(2889)
川西可尔因地区侏倭组变质沉积岩地球化学、碎屑锆石U-Pb年龄和Lu-Hf同位素特征及其地质意义	袁彦伟,费光春,郑略,蒋建文,马志平,江笑梅,张贵(2902)
湖南嘉禾大窝岭剖面晚二叠世吴家坪期-长兴期之交英质火山作用记录	高秋灵,陈中强,张宁,夏雪飞,姜腾飞,王国庆,肖明,陈晴(2925)
东昆仑造山带海德乌拉铀矿床沥青铀矿年代学特征及成因	朱坤贺,戴佳文,王凯兴,刘晓东,余驰达,雷勇亮,孙立强,何世伟(2940)
乳山地区中生代花岗岩及捕虏体年代学、Hf同位素特征对胶东半岛地壳演化的启示	李同宇,金超,田忠华,王伟,郝志宣,文飞(2951)
西藏唐加地区石炭纪洋岛型岩石组合及其构造意义	段梦龙,解超明,王斌,宋宇航,郝宇杰(2968)
• 古生物学 •	
疑源类 <i>Ammonidium</i> Lister 1970 与相关种的厘定及其生物地层和古地理意义	申震,龚一鸣,班凤梅,Thomas Servais(2985)
南海北部海马冷泉区表层沉积物的AOM生物标志化合物特征及意义	吴一帆,管红香,许兰芳,茅晟懿,刘磊,苏正,刘丽华(3005)
• 构造地质学 •	
滇中地块新生代晚期的变形机制:基于构造地貌学分析	王丹,董有浦,焦骞骞,张东越,段佳鑫,余华玉(3016)
藏南仲巴裂谷带地貌和断裂活动特征研究	刘璐,邵廷秀,王伟,张金玉,刘兴旺,邹小波,姚赞胜(3029)
• 石油地质学 •	
鄂尔多斯盆地陇东地区长7段页岩油储层自发渗吸特征及影响因素	周小航,陈冬霞,夏宇轩,曾斌辉,乔俊程,徐轩,蔡建超(3045)
海拉尔盆地侏罗系火山—沉积岩地震识别和岩相古地理重建	吴海波,王国臣,侯艳平,史冠中,贾甄甄,彭威,张海军(3056)
• 其他 •	
《地球科学》2022年9月第47卷第9期要目预告	(2888)

主编 赖旭龙

责任编辑 程鹏

期刊基本参数: CN 42—1874/P * 1957 * m * A4 * 406 * zh * P * ¥ 50.00 * 1200 * 25 * 2022—08

封面照片: 浊积岩鲍马序列滑塌变形层理(吴松洋提供)

EARTH SCIENCE

Vol.47 No.8 Aug. 2022

CONTENTS

Special Column on Present Status and Trend of Experimental Geoscience

- Frontiers and Development Strategies of Experimental Geoscience Xu Wenliang, Ren Jianguo, Zhang Junfeng (2667)
- Advances and Perspectives of Experimental Geochemistry
..... Yang Xiaozhi, Li Yuan, Zhang Li, Wang Yu, Liu Jin, Zhang Kai (2679)
- Experimental Petrology: Status Quo and Prospect Ni Huaiwei, Wang Qingxia, Wang Chunguang, Zhang Yanfei (2691)
- Advances and Perspectives of Experimental Metallogeny Xiong Xiaolin, Hou Tong, Wang Xiaolin (2701)
- Recent Progress and Perspective of Experimental Mineral Physics: 1. Phase Transition and Equation of State, Electrical Conductivity and Thermal Conductivity
..... Zhang Baohua, Mao Zhu, Liu Jin, Ye Yu, Sun Wei, Guo Xinzhan, Liu Zhaodong, Guo Xuan (2714)
- Recent Progress and Perspective of Experimental Mineral Physics: 2. Elasticity and Sound Velocity
..... Mao Zhu, Liu Zhaodong, Zhang Youjun, Zhang Baohua, Sun Ningyu (2729)
- Development Status and Trends of Experimental Rheology Zhang Junfeng, Zhou Yongsheng, Song Maoshuang (2744)
- Progress and Outlook of State-of-Art High-Temperature-Pressure Apparatus and Characterization Technology
..... Wu Xiang, Gao Chunxiao, Wang Chao (2757)
- *****
- **Mineralogy•Petrology•Mineral Deposits** •
- Geochemical Background Values of 69 Elements in Surface Sediment of the Laos
..... Wang Wei, Wang Xueqiu, Zhang Bimin, Nie Lanshi, Cheng Xinbin, Han Zhixuan, Liu Hanliang, Liu Dongsheng (2765)
- Cobalt Geochemical Anomalies Characteristics and Genesis in China and Metallogenic Prospecting Areas Prediction
..... Liu Dongsheng, Wang Xueqiu, Nie Lanshi, Zhou Jian, Liu Hanliang, Zhang Bimin, Wang Wei, Chi Qinghua, Xu Shanfa (2781)
- Regional Geochemical Distribution and Controlling Factors of Lithium in the Sino-Mongolia Border Areas
..... Liu Hanliang, Nie Lanshi, Shojin Davaa, Wang Xueqiu, Chi Qinghua, Wang Lijun (2795)
- Regional Geochemical Distribution of Uranium in Fine-Grained Soil and Prediction of Prospecting in Erlian Basin
..... Yan Taotao, Nie Lanshi, Wang Xueqiu, Zhang Bimin, Liu Hanliang, Tian Mi, Xu Shanfa, Qiao Yu, Dou Bei, You Jingguang (2809)
- Zircon Geochronology and Hf Isotope of Intermediate Acidity Magmatic Rocks in the Island Arc Terrane of South Mongolia and Their Geological Significance
..... Zhang Weibo, Wang Fengxiang, Liu Yifei, Jiang Sihong, He Xuezhou, Yu Rui, Li Qianqian (2824)
- The Petrogenesis of Late Carboniferous Monzogranite in Mianduhe Area, Northern Great Xing'an Range: Evidence from Zircon U-Pb Ages, Hf Isotopic and Geochemical Features
..... Xu Fengming, Sun Wei, Wu Datian, Wang Kuiliang, Zhou Yongheng (2839)
- Geochronology and Geochemical Features of the Ore-Related Granite in the Skarn Type Fe Polymetallic Deposits in Eastern Mongolia
..... Zhang Lili, Jiang Sihong, Wang Huaikun, Meng Xiangxi, Zhang Shuai, Wu Yudong (2856)
- The Discovery of Ophiolitic Complex in Namhonn, Northern Loei Tectonic Belt and Its Geological Significance
..... Wu Songyang, Nie Fei, Liu Shusheng, Xie Enshun, Leng Qiufeng, Li Yanlong, Wu Zhenbo, Zhang Hong (2871)
- Petrogenesis of the Syenogranite in the Xiaowulangou Area of Southern Great Xing'an Range: Constraints from Zircon LA-ICP-MS U-Pb Geochronology, Geochemistry and Hf Isotopes
..... Zhang Peichun, Peng Bo, Zhao Jinzhong, Wang Xin, He Ji, Zhang Ai, Shuang Long (2889)
- U-Pb Age and Lu-Hf Isotope of Detrital Zircons, Geochemical Characteristics and Geological Significance for Zhuwo Formation Meta-Sedimentary Rocks in Ke'eryin Region, Western Sichuan
..... Yuan Yanwei, Fei Guangchun, Zheng Luo, Jiang Jianwen, Ma Zhiping, Jiang Xiaomei, Zhang Gui (2902)
- Felsic Volcanisms across the Wuchiapingian-Changhsingian Boundary (Late Permian) in the Dawoling Section, Jiahe Area, Hunan Province
..... Gao Qiuling, Chen Zhong-Qiang, Zhang Ning, Xia Xuefei, Jiang Tengfei, Wang Guoqing, Xiao Ming, Chen Qing (2925)
- Age and Genesis of Pitchblende of the Haidewula Uranium Deposit, East Kunlun Orogen and Its Geological Significance
..... Zhu Kunhe, Dai Jiarwen, Wang Kaixing, Liu Xiaodong, Yu Chida, Lei Yongliang, Sun Liqiang, He Shiwei (2940)
- Hf Isotopic and Geochronological Characteristics of Mesozoic Granites and Xenoliths in Rushan Area and Its Implication on Crustal Evolution of Jiadong Peninsula Li Tongyu, Jin Chao, Tian Zhonghua, Wang Wei, Hao Zhixuan, Wen Fei (2951)
- Ocean Island Rock Assembly and Its Tectonic Significance in Tangga-Sumdo Area, Tibet
..... Duan Menglong, Xie Chaoming, Wang Bin, Song Yuhang, Hao Yujie (2968)
- **Paleontology** •
- Taxonomic Reconsideration of *Ammonidium* Lister 1970 and Related Species and Its Biostratigraphical and Palaeogeographical Implication
..... Shen Zhen, Gong Yiming, Ban Fengmei, Thomas Servais (2985)
- Characteristics and Significance of Biomarkers Related to AOM in Surface Sediments of the Haima Cold Seep in the Northern South China Sea
..... Wu Yifan, Guan Hongxiang, Xu Lanfang, Mao Shengyi, Liu Lei, Su Zheng, Liu Lihua (3005)
- **Structural Geology** •
- The Mechanism of Tectonic Deformation of the Central Yunnan Terrane in the Late Cenozoic Based on Tectonic Geomorphology
..... Wang Dan, Dong Youpu, Jiao Qianqian, Zhang Dongyue, Duan Jiaxin, Yu Huayu (3016)
- Study on the Tectonic Geomorphology and Fault Activity Characteristics of the Zhongba Rift, Southern Tibet
..... Liu Lu, Shao Yanxiu, Wang Wei, Zhang Jinyu, Liu Xingwang, Zou Xiaobo, Yao Yunsheng (3029)
- **Petroleum Geology** •
- Spontaneous Imbibition Characteristics and Influencing Factors of Chang 7 Shale Oil Reservoirs in Longdong Area, Ordos Basin
..... Zhou Xiaohang, Chen Dongxia, Xia Yuxuan, Zeng Jianhui, Qiao Juncheng, Xu Xuan, Cai Jianchao (3045)
- Seismic Identification of the Jurassic Volcano-Sedimentary series in the Hailar Basin and Lithofacies Palaeogeography Reconstruction
..... Wu Haibo, Wang Guochen, Hou Yanping, Shi Guanzhong, Jia Zhenzhen, Peng Wei, Zhang Haijun (3056)

Editor in Chief Lai Xulong

Executive Editors Cheng Peng