

地球科学

2023年10月 第48卷 第10期

目次

· 矿物学·岩石学·矿床学·	
广东连山地区禾洞高分异花岗岩的锆石U-Pb年代学及岩石成因 李响,王令占,涂兵,田洋,谢国刚,张槌钰,张宗言(3577)	
阿尔泰造山带南缘岩浆混合作用:阿克布拉克岩体岩石学、地球化学和年代学证据 蔺新望,张亚峰,陈国超,郭岐明,王星,赵端昌(3597)	
巴音戈壁盆地新尼乌苏凹陷下白垩统碎屑锆石U-Pb年代学及其地质意义 童勤龙,叶发旺,秦明宽(3613)	
内蒙古架子山(银)矿区花岗岩锆石U-Pb年龄、地球化学特征及地质意义 王振亮,杨剑洲,赵克强,付燕刚,段壮,林鲁军,席明杰,邓友茂,陆桂福(3631)	
浙西北地区上奥陶统物源及古地理意义:来自沉积学、碎屑组成及年代学的证据 于涛,王宗起,王东升,刘宣好,马收先,聂潇,马昌前(3649)	
辽西凌源河坎子碱性杂岩体的成因 陆露,钱程,赵珍(3671)	
辽西寺儿堡-白塔盆地晚侏罗世火山岩地质特征及其对燕山运动的响应 宋志伟,郑常青,林波,徐学纯,梁琛岳,陈龙,赵英利,温泉波(3689)	
南岭大义山岩体研究与找矿进展 李剑锋,卢友月,张遵遵,付建明,秦拯纬(3707)	
浙江郎村钨铋矿床花岗斑岩岩石地球化学、年代学及岩石成因 崔凯,谢玉玲,曲云伟,唐燕文,李腊梅,陈琦(3725)	
基于多模态特征融合的地质体识别方法 付偲,李超岭,张海燕,刘畅,李丰丹(3743)	
东秦岭东段五垛山花岗伟晶岩锆石U-Pb年代学和微量元素特征及地质意义 陈孝珍,陈国超,李瑞保,张亚峰,季宪军,张晓飞(3753)	
华北盆地南部济源地区和尚沟组凝灰岩锆石U-Pb定年及其地层学意义 杨文涛,张鸿禹,方特,冯婉莹,彭深远(3770)	
南海白云-荔湾深水区同扩张期岩浆活动特征及构造意义 朱筱曦,赵中贤,卓海腾,庞雄,郑金云,孙龙涛,孙珍(3781)	
· 环境地质学·水文地质学·	
神农架成冰纪宋洛生物群的赋存层位厘定 安志辉,叶琴,胡军,童金南,田力(3799)	
北京市气溶胶光学厚度影响因子分析 刘福江,唐家玉,刘福寿,陆姗姗,李鹏(3812)	
基于主成分的协克里金法对地下水砷空间分布预测 张浩,梁杏,刘廷锋,张鑫,孙立群,赵枫,付鹏宇(3820)	
河水-地下水侧向交互带微生物群落分布特征及其主控因子 朱子超,刘慧,毛胜军,马奥兰,李民敬(3832)	
巴丹吉林沙漠湖泊水化学类型与钙华沉积关系 曹乐,聂振龙,申建梅,王哲,刘学全(3844)	
后套平原浅层高氟地下水分布及成因 陈占强,马腾,陈柳竹,武显仓,巨凡凡,刘文辉(3856)	
草原曲流河垂向潜流交换及其氮素迁移转化 陈皓月,胡海珠,任嘉伟,田炳燧(3866)	
基于Pilot Point方法反演裂隙岩体参数化渗透结构 赵敬波,潘跃龙,李杰彪,吴群,刘羽,季瑞利,周志超(3878)	
内陆小型水体水汽传输系数和Priestley-Taylor系数的量化 赵若男,肖薇,石立新,赵佳玉,谢成玉,谢燕红,曹畅,张弥,郑有飞(3896)	
· 工程地质学·	
基于物理模型试验的厚层堆积层滑坡强降雨触发机制 钟源,李远耀,殷坤龙,赵斌滨,李思德,许艺林(3912)	
基于长短时记忆网络的深基坑变形安全风险预警 夏天,成诚,庞奇志(3925)	

湘东南永兴地区上地壳电性结构及其地质意义 李佳奇,彭荣华,胡祥云,赵军(3932)	
准噶尔盆地南缘构造分层分带特征及其油气勘探意义 袁波,汪新,王心强,赵进雍,刘翔(3946)	
赣西地区新探明巨量花岗岩型锂矿资源 陈祥云,吴俊华,唐维新,谢春华,龚敏,王光辉,周雪桂,高原,周先军,邓茂春,李艳军,聂晓亮,赖长金,张福神,李仁泽,张家琪,魏俊浩(3957)	
南海西沙海域甘泉海台发现大型溶洞群 杜文波,杨楚鹏(3961)	
《地球科学》2023年11月第48卷第11期要目预告 (3769)	

主编 王焰新

责任编辑 谢晓红

期刊基本参数: CN 42-1874/P * 1957 * m * A4 * 388 * zh * P * ¥ 50.00 * 1200 * 28 * 2023-10

封面照片: 巴丹吉林沙漠沙山-湖泊地貌景观(曹乐提供)

EARTH SCIENCE
Vol.48 No.10 Oct. 2023

CONTENTS

• **Mineralogy • Petrology • Mineral Deposits •**
Zircon Geochronology and Petrogenesis of Hedong Highly Fractionated I-Type Granite in Lianshan, Guangdong Province
..... *Li Xiang, Wang Lingzhan, Tu Bing, Tian Yang, Xie Guogang, Zhang Jianyu, Zhang Zongyan* (3577)
LA-ICP-MS U-Pb Geochronology, Geochemistry and Petrography of Akebulake Pluton in Southern Altay Orogenic Belt:
An Example for Magma Mixing..... *Lin Xinwang, Zhang Yafeng, Chen Guochao, Guo Qiming, Wang Xing, Zhao Duanchang* (3597)
U-Pb Chronology of Detrital Zircons from Lower Cretaceous in Xinniwsu Sag, Bayingobi Basin and Its Geological Significance
..... *Tong Qinlong, Ye Fawang, Qin Mingkuan* (3613)
Zircon U-Pb Age, Geochemical Characteristics and Geological Significance of Granite of Jiazishan Mo (Ag) Deposit, Inner Mongolia
... *Wang Zhenliang, Yang Jianzhou, Zhao Keqiang, Fu Yan'gang, Duan Zhuang, Lin Lujun, Xi Mingjie, Deng Youmao, Lu Guifu*(3631)
Provenance and Paleogeographic Significance of Upper Ordovician in NW Zhejiang: Evidence from Sedimentology, Clastic
Composition and Chronology ... *Yu Tao, Wang Zongqi, Wang Dongsheng, Liu Xuanyu, Ma Shouxian, Nie Xiao, Ma Changqian* (3649)
Petrogenesis of Hekanzi Alkaline Complex in Lingyuan, West Liaoning *Lu Lu, Qian Cheng, Zhao Zhen* (3671)
Geological Characteristics of Late Jurassic Volcanic Rocks in Sierbao-Baita Basin, West Liaoning Province and Its Response to
Yanshan Movement
..... *Song Zhiwei, Zheng Changqing, Lin Bo, Xu Xuechun, Liang Chenyue, Chen Long, Zhao Yingli, Wen Quanbo* (3689)
Research and Prospecting Progress of Dayishan Pluton in Nanling Range
..... *Li Jianfeng, Lu Youyue, Zhang Zunzun, Fu Jianming, Qin Zhengwei* (3707)
Geochemistry, Geochronology and Petrogenesis of Granite Porphyry in Langcun W-Mo Deposit, Zhejiang Province
..... *Cui Kai, Xie Yuling, Qu Yunwei, Tang Yanwen, Li Lamei, Chen Qi* (3725)
Geological Body Recognition Based on Multi-Modal Feature Fusion *Fu Si, Li Chaoling, Zhang Haiyan, Liu Chang, Li Fengdan* (3743)
Zircon U-Pb Geochronology and Trace Element Characteristics of Wuduoshan Granitic Pegmatite in Eastern Part of East Qinling and
Its Geological Significance *Chen Xiaozhen, Chen Guochao, Li Ruibao, Zhang Yafeng, Ji Xianjun, Zhang Xiaofei* (3753)
Zircon U-Pb Age and Stratigraphic Significance of Tuff in Heshanggou Formation, Southern North China Basin
..... *Yang Wentao, Zhang Hongyu, Fang Te, Feng Wanying, Peng Shenyuan* (3770)
Characteristics of Syn-Spread Magmatism and Its Implication for Tectonic Evolution in Baiyun-Liwan Deep-Water Area of
Pearl River Mouth Basin *Zhu Xiaoxi, Zhao Zhongxian, Zhuo Haiteng, Pang Xiong, Zheng Jinyun, Sun Longtao, Sun Zhen* (3781)
• **Environmental Science • Hydrogeology •**
Stratigraphic Position of Cryogenian Songluo Biota in Shennongjia Area *An Zhihui, Ye Qin, Hu Jun, Tong Jinnan, Tian Li* (3799)
Analysis of Influencing Factors of Aerosol Optical Depth in Beijing..... *Liu Fujiang, Tang Jiayu, Liu Fushou, Lu Shanshan, Li Peng* (3812)
CoKriging Method Based on Principal Components to Predict Spatial Distribution of Arsenic in Groundwater
..... *Zhang Jie, Liang Xing, Liu Yanfeng, Zhang Xin, Sun Liqun, Zhao Feng, Fu Pengyu* (3820)
Distribution Characteristics of Microbial Communities in River-Groundwater Interaction Zone and Main Environmental Factors
..... *Zhu Zichao, Liu Hui, Mao Shengjun, Ma Aolan, Li Minjing* (3832)
Relationship between Lakes' Hydrochemical Types and Tufa Deposition in Badain Jaran Desert
..... *Cao Le, Nie Zhenlong, Shen Jianmei, Wang Zhe, Liu Xuequan* (3844)
Distribution and Formation of Shallow Groundwater with High Fluoride in Houtao Plain
..... *Chen Zhanqiang, Ma Teng, Chen Liuzhu, Wu Xianchang, Ju Fanfan, Liu Wenhui* (3856)
Vertical Hyporheic Exchange and Nitrogen Transport and Transformation in Prairie Meandering Rivers
..... *Chen Haoyue, Hu Haizhu, Ren Jiawei, Tian Bingyi* (3866)
Inverse Modeling of Parameterized Hydraulic Conductivity Field in a Fractured Medium Based on Pilot Point Method
..... *Zhao Jingbo, Pan Yuelong, Li Jiebiao, Wu Qun, Liu Yu, Ji Ruili, Zhou Zhichao* (3878)
Quantification of Water Vapor Transport Coefficient and Priestley-Taylor Coefficient over Small Inland Water Bodies
..... *Zhao Ruonan, Xiao Wei, Shi Lixin, Zhao Jiayu, Xie Chengyu, Xie Yanhong, Cao Chang, Zhang Mi, Zheng Youfei* (3896)
• **Engineering Geology •**
Failure Mechanism of Thick Colluvium Landslide Triggered by Heavy Rainfall Based on Model Test
..... *Zhong Yuan, Li Yuanyao, Yin Kunlong, Zhao Binbin, Li Side, Xu Yilin* (3912)
Safety Risk Warning of Deep Foundation Pit Deformation Based on LSTM..... *Xia Tian, Cheng Cheng, Pang Qizhi* (3925)

Electrical Structure of Upper Crust in Yongxing Region, Southeast Hunan Province ... *Li Jiaqi, Peng Ronghua, Hu Xiangyun, Zhao Jun* (3932)
Characteristics of Structural Stratification and Zoning in Southern Junggar Basin and Its Significance for Oil and Gas Exploration
..... *Yuan Bo, Wang Xin, Wang Xinqiang, Zhao Jinyong, Liu Xiang* (3946)
Newly Found Giant Granite-Associated Lithium Resources in the Western Jiangxi Province, South China
... *Chen Xiangyun, Wu Junhua, Tang Weixin, Xie Chunhua, Gong Min, Wang Guanghui, Zhou Xuegui, Gao Yuan, Zhou Xianjun,*
... *Deng Maochun, Li Yanjun, Nie Xiaoliang, Lai Changjin, Zhang Fushen, Li Renze, Zhang Jiaqi, Wei Junhao* (3957)
A Large Submarine Sinkhole Group was Discovered on Ganquan Platform in Xisha Sea Area of South China Sea
..... *Du Wenbo, Yang Chupeng*(3961)

Editor in Chief Wang Yanxin
Executive Editor Xie Xiaohong