

地球科学

2021年7月 第46卷 第7期

目次

·矿物学·岩石学·矿床学·

东天山早中生代侵入体地球化学特征及其构造意义 高志武, 吕昶良, 邓明国, 管申进, 杨富强(2287)
埃塞俄比亚西部布雷地区A型花岗岩成因及地质意义 向文帅, 姜军胜, 雷义均, 赵凯(2299)
大兴安岭多宝山晚三叠世双峰式侵入岩年代学及地球动力学背景

..... 刘宝山, 程招勋, 钱程, 张春鹏, 钟辉, 韩仁萍(2311)
中上扬子地区奥陶纪-志留纪之交火山作用对有机质富集的影响 卢贤志, 沈俊, 郭伟, 冯庆来(2329)
元素在不同自然体系的分布: 偶数规则之后, 还有一个普遍规律——以类地行星为例 杨建业(2341)
基于三维激光点云技术的岩体结构面智能解译 陈娜, 蔡小明, 夏金梧, 张绍和, 姜清辉, 史超(2351)

·构造地质学·

四川盆地喜马拉雅期张扭性断裂构造特征及形成机制
..... 苏楠, 杨威, 苑保国, 戴鑫, 王小丹, 武赛军, 马石玉, 谢武仁, 张光武, 裴仰文(2362)

孙吴-嘉荫盆地晚白垩世地层物源及构造背景 贾啸宇, 高福红, 修铭, 刘国卿(2379)

渤海湾盆地黄河口凹陷东洼断裂体系发育特征及其变形过程的构造物理模拟
..... 杨海风, 吕丁友, 孙永河, 赵野, 张志强, 赵梦(2391)

内蒙古东部大石寨地区大石寨组火山岩的成因及其大地构造背景
..... 那福超, 宋维民, 杨雅军, 付俊彧, 汪岩, 刘英才, 孙巍, 钱程, 秦涛, 马永非, 伍月, 钟辉(2403)

吕梁山——华北克拉通中部中生代基底卷入褶皱系统

张北航, 张进, 曲军峰, 赵衡, 王艳楠, 李锦轶, 牛鹏飞, 赵硕, 郑荣国, 李岩峰, 云龙, 张义平, 惠洁(2423)

四川盆地北缘五峰组和龙马溪组沉积构造格局研究 肖斌, 刘树根, 冉波, 李智武, 叶玥豪, 韩雨樾(2449)

·石油地质和沉积学·

CFD油田火山岩展布特征及其对油藏的控制作用 赵鹏飞, 刘朋, 明君, 田晓平, 刘文超, 吕世聪(2466)

榆科油田东营组河流相储层构型与油藏单元研究 孟玉净, 赵彦超, 熊山, 刘洪平, 李英联, 李小明(2481)

川西拗陷内油气成藏主控因素及模式: 以孝泉-丰谷构造带须家河组五段为例

..... 田杨, 朱宏权, 叶素娟, 卓俊驰, 谢锐杰, 熊剑文(2494)

重排藿烷: 示踪油藏充注途径的分子标志物 李威, 窦立荣, 文志刚, 张光亚, 程顶胜, 刘爱香, 容伟利(2507)

峡东南华系南沱组底部冰川底碛沉积特征及其意义 胡军, 孙思远, 谷昊东, 安志辉, 叶琴, 王霏(2515)

扬子地块新元古代裂谷盆地莲沱组沉积分异及其物源分析 杜秋定, 王剑, 汪正江, 邓奇, 杨菲(2529)

·环境地质学和工程地质学·

西藏搭格架高温热泉中钨的水文地球化学异常 郭清海, 杨晨(2544)

1996~2017年枯水期地下水排泄对洞庭湖水量均衡的贡献及其时间变异性

..... 孙晓梁, 杜尧, 邓娅敏, 陶艳秋, 马腾(2555)

典型滨海平原区地下水系统水化学场演化及成因: 以杭嘉湖平原为例

..... 黄金瓯, 鲜阳, 黎伟, 张达政, 庄晓明(2565)

运用水文时间序列分析识别济南泉域岩溶发育特征 李严, 王家乐, 靳孟贵, 马河宽, 柳浩然, 彭涛(2583)

太行山-雄安新区蓟县含水层水文地球化学特征及意义

..... 朱喜, 王贵玲, 马峰, 张薇, 张庆莲, 张汉雄(2594)

白洋淀近70年生态环境演化过程及影响因素 毛欣, 刘林敬, 宋磊, 姜高磊, 李峻峰, 李长安(2609)

承德杏仁产区关键带基岩-土壤-作物果实BRSPC系统元素迁移特征

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

..... 孙厚云, 卫晓锋, 孙晓明, 贾凤超, 李多杰, 李健(2621)

主编 赖旭龙

责任编辑 程鹏 散飞雪

期刊基本参数: CN 42-1874/P * 1957 * m * A4 * 388 * zh * P * ¥ 50.00 * 1200 * 27 * 2021-07

封面照片: 中阳县弓阳镇基底花岗片麻岩内断层(张北航提供)

EARTH SCIENCE
Vol.46 No.7 Jul. 2021

CONTENTS

•Mineralogy•Petrology•Mineral Deposits•

- Geochemical Features and Tectonic Setting of the Mesozoic Intrusions in Eastern Tianshan
..... *Gao Zhifu, Lü Changliang, Deng Mingguo, Guan Shenjin, Yang Fuqiang* (2287)
- Petrogenesis of A-Type Granite and Geological Significance of Bure Area, Western Ethiopia
..... *Xiang Wenshuai, Jiang Junsheng, Lei Yijun, Zhao Kai* (2299)
- Geochronology and Geodynamic Background Study of the Late Triassic Bimodal Pattern Intrusive Rock in Da Hinggan Mountains
Duobaoshan Area *Liu Baoshan, Cheng Zhaoxun, Qian Cheng, Zhang Chunpeng, Zhong Hui, Han Renping* (2311)
- Influence of Mercury Geochemistry and Volcanism on the Enrichment of Organic Matter near the Ordovician Silurian Transition in
the Middle and Upper Yangtze *Lu Xianzhi, Shen Jun, Guo Wei, Feng Qinglai* (2329)
- Distribution of Elements in Different Natural Systems: A General Rule after the Even Number Law, an Example of Terrestrial
Planets *Yang Jianye* (2341)
- Intelligent Interpretation of Rock Mass Discontinuity Based on Three-Dimensional Laser Point Cloud
..... *Chen Na, Cai Xiaoming, Xia Jinwu, Zhang Shaohe, Jiang Qinghui, Shi Chao* (2351)

•Structural Geology•

- Structural Features and Deformation Mechanism of Transtensional Faults in Himalayan Period, Sichuan Basin
... *Su Nan, Yang Wei, Yuan Baoguo, Dai Xin, Wang Xiaodan, Wu Saijun, Ma Shiyu, Xie Wuren, Zhang Guangwu,
Pei Yangwen* (2362)
- Provenance and Tectonic Setting of the Late Cretaceous Strata in Sunwu-Jiayin Basin
..... *Jia Xiaoyu, Gao Fuhong, Xiu Ming, Liu Guoqing* (2379)
- The Fault System and Its Tectonophysics Simulation in the Eastern Huanghekou Sag in Bohai Bay Basin
..... *Yang Haifeng, Lü Dingyou, Sun Yonghe, Zhao Ye, Zhang Zhiqiang, Zhao Meng* (2391)
- Petrogenesis and Tectonic Setting of Volcanic Rocks of Dashizhai Formation in Dashizhai Area, Eastern Inner Mongolia
... *Na Fuchao, Song Weiming, Yang Yajun, Fu Junyu, Wang Yan, Liu Yingcai, Sun Wei, Qian Cheng, Qin Tao, Ma
Yongfei, Wu Yue, Zhong Hui* (2403)
- Lüliangshan: A Mesozoic Basement Involved Fold System in the Central North China Craton
... *Zhang Beihang, Zhang Jin, Qu Junfeng, Zhao Heng, Wang Yaman, Li Jinyi, Niu Pengfei, Zhao Shuo, Zheng Rong-
guo, Li Yanfeng, Yun Long, Zhang Yiping, Hui Jie* (2423)
- Study on Sedimentary Tectonic Pattern of Wufeng Formation and Longmaxi Formation in the Northern Margin of Sichuan Basin,
South China *Xiao Bin, Liu Shugen, Ran Bo, Li Zhiwu, Ye Yuehao, Han Yuyue* (2449)

•Petroleum Geology and Sedimentology•

- Distribution Characteristics of Volcanic Rock in CFD Oilfield and Its Controlling Effect on Reservoir
..... *Zhao Pengfei, Liu Peng, Ming Jun, Tian Xiaoping, Liu Wencho, Lü Shicong* (2466)
- Study on Reservoir Architecture and Reservoir Units of Fluvial Deposits of Dongying Formation in Yuke Oilfield
..... *Meng Yujing, Zhao Yanchao, Xiong Shan, Liu Hongping, Li Yinglian, Li Xiaoming* (2481)
- Main Controlling Factors and Models of Hydrocarbon Accumulation in the Source of Western Sichuan Depression: Taking Xu 5th
Member of Xujiahe Formation in Xiaoquan-Fenggu Structural Belt as an Example
..... *Tian Yang, Zhu Hongquan, Ye Sujuan, Zhuo Junchi, Xie Ruijie, Xiong Jianwen* (2494)
- Rearranged Hopane: Molecular Tracers for Filling Pathway in Oil Reservoirs
..... *Li Wei, Dou Lirong, Wen Zhigang, Zhang Guangya, Cheng Dingsheng, Liu Aixiang, Ke Weili* (2507)
- Subglacial Sedimentary Characteristics of the Bottom of Nantuo Formation in Three Gorges Area and Its Implications
..... *Hu Jun, Sun Siyuan, Gu Haodong, An Zhihui, Ye Qin, Wang Pei* (2515)
- Depositional Differentiation and Provenance Analysis of Liantuo Formation in Neoproterozoic Rift Basin, Yangtze Block
..... *Du Qiuding, Wang Jian, Wang Zhengjiang, Deng Qi, Yang Fei* (2529)

•Environmental Geology and Engineering Geology•

- Tungsten Anomaly of the High-Temperature Hot Springs in the Daggyai Hydrothermal Area, Tibet, China
..... *Guo Qinghai, Yang Chen* (2544)
- Contribution and Its Temporal Variation of Groundwater Discharge to the Water Mass Balance of Dongting Lake from 1996 to 2017
..... *Sun Xiaoliang, Du Yao, Deng Yamin, Tao Yanqiu, Ma Teng* (2555)
- Hydrogeochemical Evolution of Groundwater Flow System in the Typical Coastal Plain: A Case Study of Hangjiahu Plain
..... *Huang Jinou, Xian Yang, Li Wei, Zhang Dazheng, Zhuang Xiaoming* (2565)
- Hydrodynamic Characteristics of Jinan Karst Spring System Identified by Hydrologic Time-Series Data
..... *Li Yan, Wang Jiale, Jin Menggui, Ma Hekuan, Liu Haoran, Peng Tao* (2583)
- Hydrogeochemistry of Geothermal Waters from Taihang Mountain-Xiong'an New Area and Its Indicating Significance
..... *Zhu Xi, Wang Guiling, Ma Feng, Zhang Wei, Zhang Qinglian, Zhang Hanxiong* (2594)
- A 70 Year Sedimentary Record of Eco-Environment Changes in Baiyangdian Lake and Its Influencing Factors
..... *Mao Xin, Liu Linjing, Song Lei, Jiang Gaolei, Li Junfeng, Li Chang'an* (2609)
- Element Migration and Accumulation Characteristics of Bedrock-Regolith-Soil-Fruit Plant Continuum of the Earth's Critical Zone
in Chengde Almond Producing Area *Sun Houyun, Wei Xiaofeng, Sun Xiaoming, Jia Fengchao, Li Duojie, Li Jian* (2621)

•Geophysics•

- Numerical Modelling of Stable Isotope Transport Processes in a Hydrogeothermal System of Kangding-Laoyuling Area
..... *Na Jin, Jiang Xue, Jiang Zhenjiao* (2646)
- Characteristic of Tectonic Stress Field in Source Region of 2018 M_w 7.6 Palu Earthquake and Sulawesi Area
..... *Cui Huawei, Wan Yongge, Wang Xiaoshan, Huang Jichao, Jin Zitong* (2657)

Editor in Chief Lai Xulong
Executive Editors Cheng Peng San Feixue