

地质论评

2019 年 第 65 卷 第 4 期

目 次

学 术 讨 论

全球中、新生代大地构造特征及其演化框架——《全球中、新生代大地构造图》编图研究进展	李江海, 刘持恒, 陶崇智 (781)
桂西北晚古生代地层中的毗连不整合研究	彭阳, 陆刚 (794)
华北板块南缘石人山岩块晚古生代陆内变形特征及侧向挤出构造	王静雅, 任升莲, 董树文, 李加好, 宋传中, 林寿发, 韩旭, 李振强, 张刚, 王莹, 杨青亮 (810)
甘肃北山南缘断裂的活动特征及其意义	云龙, 张进, 徐伟, 刘志成 (825)
鲕粒滩相灰岩特别的核形石灰岩帽——以山西繁峙茶坊子剖面寒武系张夏组为例	梅冥相, MUHAMMAD Riaz, 孟庆芬, 刘丽 (839)
贺根山缝合带白音呼舒奥长花岗岩锆石 U-Pb 年龄、地球化学特征及构造意义	王金芳, 李英杰, 李红阳, 董培培 (857)
熊耳山地区穆册二长岩体地球化学特征、U-Pb 年龄及构造背景	武甜甜, 雷万杉, 焦建刚, 赵太平, 高昕宇 (873)
阴山—燕山北麓富碱侵入岩体的岩石地球化学特征、锆石 SHRIMP U-Pb 年龄及构造意义	龚弥, 蔡剑辉, 阎国翰, 刘楚雄, 刘钊 (894)
基于 GF2 号与 Landsat8 数据融合的遥感图像地质解译——以 1 : 5 万瓦房店市幅为例	王烜, 王海鹏, 王然, 吴子杰, 高福亮, 康宁, 万方来, 王艺龙, 杨欢, 刘杰 (918)
河北秦皇岛石门寨中生代火山岩的地球化学特征和锆石 LA-ICP-MS U-Pb 年龄	赵瑞鹏, 陈亮, 刘道宏, 杨潇潇 (929)
黔东南煌斑岩类风化壳中稀土元素富集特征及找矿意义	杨光海, 高军波, 杨瑞东, 田亚洲, 杨光忠, 徐海, 冯康宁 (948)
山西柳林泉域岩溶地下水溶解无机碳特征及控制因素	黄奇波, 覃小群, 刘朋雨, 张连凯, 程瑞瑞, 李腾芳 (961)
长江武汉段 4.5~2.5 ka 沉积地层与古洪水标志识别	张蹊颖, 李长安, 张玉芬, 宋喆 (973)
基于沉积环境与工程地质特征的湖相软土分类研究——以鄱阳湖流域四种典型软土为例	甘建军, 万胜, 李荐华, 唐春, 杨涛, 罗藏青排 (983)

研 究 进 展

非洲中部基巴拉带的地质及构造演化特征	许康康, 刘晓阳, 何胜飞, 孙凯, 龚鹏辉 (993)
延边和龙地区早侏罗世花岗岩 LA-ICP-MS 锆石 U-Pb 年龄、地球化学特征及成因意义	李研, 聂逢君, 孙德有, 苟军 (1007)
就地生成宇宙成因核素年龄计算模式应用	吕延武, 梁欧博, 黄飞鹏 (1021)
基于环境地质问题分区的海峡西岸经济区环境地质图编图研究	邢怀学, 李亮, 葛伟亚, 田福金, 余成 (1031)

通 讯 资 料 · 消 息 报 道 · 新 书 介 绍

世界华人地质科学研讨会在长春召开	(824)
从三稀资源调查扩大到关键矿产调查是战略性新兴产业发展的必然需要——推荐阅读《地质学报》“关键矿产”专辑	陈毓川, 王瑞江 (915)
一张珍贵的地质大师合影	郑剑东 (917, 1020)
评《低海拔冰川遗迹典型图谱》一书	钱方 (982)
《王思恩文集》评介	高林志 (992)

(本期执行总编辑 章雨旭、刘志强 图件修编 刘萌)

problem partition as the general coloring, and GIS technology to compose the environmental geological map of west coast economic zone. The map reflects the economic environment, the geological environment characteristics, geological resources and the main environmental geological problems of the West Side of the Straits. In this paper, with elaborating the basic principles of compilation, the scope of mapping, the main content and the surface representation of the method, we take the environmental geological problems as the main content of environmental zoning of geological map drawing method, instead of using the background of environmental geology way, which can more directly reflect environmental geological problems in the district, and be better for supporting land and resources planning, geological environment protection .

Keywords: zoning of the environmental geological problems; the economic zone on the west side of straits; environment geological map; mapping research; GIS

Acknowledgement: This article is the research achievement of *Evaluation and zoning of geological environment survey in the Economic Zone (Core Area) on the West Side of the Straits* carried out by Nanjing Geological Survey Center.

First author: XING Huaixue, male, born in 1981, senior engineer, mainly engaged in environmental geological evaluation. Email: 57670204@qq.com

Manuscript received on: 2018-08-29; Accepted on: 2019-06-19; Edited by: ZHANG Yuxu

Doi: 10.16509/j.georeview.2019.04.018

GEOLOGICAL REVIEW

Vol. 65 No. 4 2019

CONTENTS

Scholarly Discussion

Global tectonic characteristics of Mesozoic and Cenozoic and its evolution framework ——Updates from the compilation of <i>Mesozoic and Cenozoic Global Tectonic Map</i>	LI Jianghai, LIU Chiheng, TAO Chongzhi (793)
Study on buttress unconformity in Late Palaeozoic carbonates of northwestern Guangxi	PENG Yang, LU Gang (809)
Late Paleozoic intracontinental deformation and lateral extrusion structures of the Shirensan in the southern margin of the North China Block	WANG Jingya, REN Shenglian, DONG Shuwen, LI Jiahao, SONG Chuanzhong, LIN Shoufa, HAN Xu, LI Zhenqiang, ZHANG Gang, WANG Ying, YANG Qingliang (823)
The active characteristics and its significance of the southern margin fault of Beishan area in Gansu Province	YUN Long, ZHANG Jin, XU Wei, LIU Zhicheng (838)
Particular cap oncolitic grainstones of bank oolitic grainstones——An example from the Zhangxia Formation of the Cambrian Miaolingian at the Chafangzi Section in Fanshi County of Shanxi Province, North China	MEI Mingxiang, MUHAMMAD Riaz, MENG Qingfen, LIU Li (856)
Zircon U-Pb ages and geochemical characteristics of Baiyinhushu trondhjemite in Hegenshan suture zone and their tectonic implications	WANG Jinfang, LI Yingjie, LI Hongyang, DONG Peipei (871)
Geochemical characteristics, U-Pb ages and tectonic setting of the Muce Monzonite in Xiong'er Mountains	WU Tiantian, LEI Wanshan, JIAO Jiangang, ZHAO Taiping, GAO Xinyu (893)
Petrogeochemical characteristics and zircon SHRIMP U-Pb ages of the alkaline intrusions on northern side of the Yinshan Mountains——Yanshan Mountains and their tectonic significances	GONG Mi, CAI Jianhui, YAN Guohan, LIU Chuxiong, LIU Zhao (914)
Geological interpretation of remote sensing images based on data fusion of GF2 and landsat 8——A case study of the Wafangdian 1 : 50000 geological map	WANG Xuan, WANG Haipeng, WANG Ran, WU Zijie, GAO Fuliang, KANG Ning, WAN Fanglai, WANG Yilong, YANG Huan, LIU Jie (927)

Geochemical features and zircon LA-ICP-MS U-Pb ages of Mesozoic volcanic rocks in Shimenzhai, Qinhuangdao, Hebei Province ZHAO Ruipeng, CHEN Liang, LIU Daohong, YANG Xiaoxiao (947)

Characteristic and prospecting significance of the rare earth elements enrichment in weathering crust of lamproite, southeastern Guizhou YANG Guanghai, GAO Junbo, YANG Ruidong, TIAN Yazhou, YANG Guangzhong, XU Hai, FENG Kangning (960)

Characteristics and control factors of dissolved inorganic carbon in karst groundwater in Liuling Spring catchment, Lüliang, Shanxi HUANG Qibo, QIN Xiaoqun, LIU Pengyu, ZHANG Liankai, CHENG Ruirui, LI Tengfang (972)

Sedimentary strata and paleoflood identification indexes of Wuhan section, Yangtze River, during 4.5~2.5 ka BP ZHANG Luoying, LI Chang'an, ZHANG Yufen, SONG Zhe (981)

Classification of lacustrine soft soil based on sedimentary environment and engineering characteristics—— A case study of four typical soft soil in Poyang Lake basin GAN Jianjun, WAN Sheng, LI Jianhua, TANG Chun , YANG Tao, LUO ZANG Qingpai (991)

Research Progress

Geological and tectonic evolution characteristics of the Kibara Belt in central Africa XU Kangkang , LIU Xiaoyang, HE Shengfei, SUN Kai, GONG Penghui (1006)

LA-ICP-MS zircon U-Pb ages, geochemical characteristics and petrogenesis of the Early Jurassic granites in Helong area, Yanbian, Jilin LI Yan, NIE Fengjun, SUN Deyou, GOU Jun (1019)

Application of calculating model to in-situ cosmogenic nuclides age LÜ Yanwu, LIANG Oubo, HUANG Feipeng (1030)

Establishment of environmental geological map of economic zone on the west side of the Taiwan Straits based on the division of environmental geological problems XING Huaixue, LI Liang, GE Weiya, TIAN Fujin, YU Cheng (1037)

Correspondence · Reference · News Report · Introduction to New Book

The 9th World Chinese Conference of Geological Sciences held in Changchun (824)

A certain need for development of strategic emerging industry: broadening mineral resources survey from rare metals, rear earth metals and rare bulk metals (RRR) to key mineral resources——Recommendation of the Special Issue of *Acta Geologica Sinica*, Vol. 93, No.6, 2019 CHEN Yuchuan, WANG Ruijiang (915)

A precious photo of grandmasters on geology ZHENG Jiandong (917, 1020)

A review on the book *The Typical Atlas of Glacial Remains in Low-altitude Area* QIAN Fang (982)

A review on the book *The Collected Works of Prof. WANG Si'en* GAO Linzhi (992)

(Excutive editors of this issue: ZHANG Yuxu, LIU Zhiqiang; typesetting and figures editor: LIU Meng)