

ACTA GEOLOGICA SINICA (English Edition)

Vol. 92 No. 2 2018

CONTENTS

New Editor-in-Chief Professor Degan SHU, Message from the Editor-in-Chief, Introduction to Associate Editors-in-Chief, List of members of the Editorial Board	I-VIII
---	--------

ORIGINAL ARTICLES

Redescription of <i>Gigantospinosaurus sichuanensis</i> (Dinosauria, Stegosauria) from the Late Jurassic of Sichuan, Southwestern China	HAO Baoqiao, ZHANG Qiannan, PENG Guangzhao, YE Yong and YOU Hailu	431
Petrological and Os Isotopic Characteristics of Zedong Peridotites in the Eastern Yarlung–Zangbo Suture in Tibet	LAI Shengmin, YANG Jingsui, Yildirim DILEK, XIONG Fahui, JIANG Rui and CHEN Yanhong	442
Late Triassic Granites From the Quxu Batholith Shedding a New Light on the Evolution of the Gangdese Belt in Southern Tibet	MENG Yuanku, XU Zhiqin, XU Yang and MA Shiwei	462
Isotope Geochronologic and Geochemical Constraints on the Magmatic Associations of the Collisional Orogenic Zone in the West Kunlun Orogen, China	WANG Chan, LIU Hao, DENG Jianghong, LIU Xianfan, ZHAO Fufeng, WANG Chun and TIAN Xin	482
A Paleogeographic and Depositional Model for the Neogene Fluvial Succession, Pishin Belt, Northwest Pakistan: Effect of Post Collisional Tectonics on Sedimentation in a Peripheral Foreland Setting	Aimal K. KASI, Akhtar M. KASSI, Muhammad UMAR, Henrik FRIIS, Mohibullah MOHIBULLAH and Razzaq A. MANAN	499
Geochemistry and Petrogenesis of Intracontinental Basaltic Volcanism on the Northwest Arabian Plate, Gaziantep Basin, Southeast Anatolia, Turkey	Sevcin KÜRÜM, Abdurrahman BÖLÜCÜ and Melek URAL	519
Late Cretaceous-Cenozoic Multi-Stage Denudation at the Western Ordos Block: Constraints by the Apatite Fission Track Dating on the Langshan	CUI Xianyue, ZHAO Qihua, ZHANG Jin, WANG Yannan, ZHANG Beihang, NIE Fengjun, QU Junfeng and ZHAO Heng	536
A Uniform Orogen-parallel Extension System of the Shear Zones in the Tongbai-Dabie Orogenic Belt, Central China	LIU Huan, LIN Shoufa and SONG Chuanchong	556
Discovery of the Plagiogranites in the Diyanmiao Ophiolite, Southeastern Central Asian Orogenic Belt, Inner Mongolia, China and Its Tectonic Significance	LI Yingjie, WANG Jinfang, WANG Genhou, DONG Peipei, LI Hongyang and HU Xiaojia	568
Exsolution Lamellae in Olivine Grains of Dunite Units from Different Types of Mafic-Ultramafic Complexes	LIANG Zi, XIAO Yan, Joyashish THAKURTA, SU Benxun, CHEN Chen, BAI Yang, and Patrick A. SAKYI	586
Fenitized Wall Rock Geochemistry of the First Carbonatite Dyke at Bayan Obo, Inner Mongolia, China	WANG Kaiyi, ZHANG Jien, YU Liangjun, FANG Aimin, DONG Ce and HU Fuyou	600
Metallogenic Correlations for the Fe-Nb-REE Mineralization in the West Mine of the Bayan Obo Deposit, Inner Mongolia, China	SU Li and PENG Suping	614
Petrological and Geochemical Constraints on the Protoliths of Serpentine-Magnetite Ores in the Zhaoanzhuang Iron Deposit, Southern North China Craton	MENG Jie, LI Houmin, LI Lixing, SANTOSH M., SONG Zhe and YANG Xiuqing	627
Occurrence of the Iron-rich Melt in the Heijianshan Iron Deposit, Eastern Tianshan, NW China: Insights into the Origin of Volcanic Rock-hosted Iron Deposits	LI Houmin, LI Lixing, DING Jianhua, LI Yanhe, SONG Zhe, MENG Jie and MA Yubo	666
The Zhaxikang Vein-type Pb-Zn-Ag-Sb Deposit in Himalayan Orogen, Tibet: Product by Overprinting and Remobilization Processes during Post-collisional Period	LIANG Wei, HOU Zengqian, ZHENG Yuanchuan, YANG Zhusen and LI Zhenqing	682
Mineralization, Geochemistry and Zircon U-Pb Ages of the Paodaoling Porphyry Gold Deposit in the Guichi Region, Lower Yangtze Metallogenic Belt, Eastern China	DUAN Liu'an, YANG Xiaoyong, DENG Jianghong, WANG Fangyue and LEE Insung	706

(See cover 3)

Dual Control of Depositional Facies on Uranium Mineralization in Coal-bearing Series: Examples from the Tuanyushan Area of the Northern Qaidam Basin, NW China	GUO Biao, SHAO Longyi, WEN Huaijun, HUANG Guangnan, ZOU Mingjun and LI Yonghong	733
A Multi-fluid Constrain for the Forming of Potash Deposits in the Savannakhet Basin: Geochemical Evidence from Halite	REN Qianhui, DU Yongsheng, GAO Donglin, LI Binkai, ZHANG Xiyang, LIU Xiuting and YUAN Xiaolong	755
Tectonically-controlled Evolution of the Late Cenozoic Nihewan Basin, North China Craton: Constraints from Stratigraphy, Mineralogy, and Geochemistry	LIU Jin, CHEN Xingqiang, CHI Zhenqing, WANG Yong, MIN Longrui and LI Tingdong	769
¹⁰Be Exposure Ages Obtained From Quaternary Glacial Landforms on the Tibetan Plateau and in the Surrounding Area	ZHANG Mengyuan, MEI Jing, ZHANG Zhigang, WANG Jian and XU Xiaobin	786
Middle Cretaceous pCO₂ Variation in Yumen, Gansu Province and its Response to the Climate Events	LEI Xiangtong, DU Zhen, DU Baoxia, ZHANG Mingzhen and SUN Bainian	801
REVIEWS		
Meso-Cenozoic Evolution of Earth Surface System under the East Asian Tectonic Superconvergence	DMITRIENKO Liudmila V., WANG Pengcheng, LI Sanzhong, CAO Xianzhi, Ian SOMERVILLE, ZHOU Zaizheng, HU Mengying, SUO Yanhui, GUO Lingli, WANG Yongming, LI Xiyao, LIU Xin, YU Shengyao and ZHU Junjiang	814
NEWS AND HIGHLIGHTS		
What Mineral Resources will China Need to Discover by the Mid-21st Century?	HAO Ziguo, FEI Hongcai, HAO Qingqing and LIU Lian	850
RESEARCH ADVANCES		
New In-Situ LA-ICP-MS U-Pb Ages of Uraninite from the Mianhuakeng Uranium Deposit, Northern Guangdong Province, China: Constraint on the Metallogenic Mechanism	ZHONG Fujun, PAN Jiayong, QI Jiaming, YAN Jie, LIU Wenquan and LI Haidong	852
First Report of Zircon U-Pb Ages from Lubei Cu-Ni Sulfide Deposit in East Tianshan of Central Asian Orogenic Belt, NW China	LI Ping, ZHAO Tongyang, ZHU Zhixin, TIAN Jiangtao and LI Dahai	855
A Report of the Newly Discovered Cu-Ni Ore Deposit in the West of East Tianshan, North Xinjiang, China	CHEN Baoyun, YU Jinjie, WANG Junliang, TIAN Jiangtao, LI Dahai, LIU shuaijie and WANG Cheng	857
New Zircon U-Pb Age of the Ore-bearing Porphyry from the Kuga Copper Deposit in the Eastern Bangongco-Nujiang Metallogenic Belt, Tibet	LIN Bin, SONG Yang, LIU Zhibo, LIU Zhenyu and GAO Yiming	859
Hydraulic Fracturing Leads to Wolframite Deposition at Magmatic-hydrothermal transition	LIU Xiangchong, XING Huilin and ZHANG Dehui	862
⁴⁰Ar-³⁹Ar Dating of the Mahuaping W-Be deposit, Northwestern Yunnan Province, China, and its Geological Significance	JIA Fudong, ZHANG Changqing, LIU Huan, HUA Zhixin, KONG Zhigang and MENG Xuyang	864
New Sr Isotope Evidence to Support the Material Source of the Mengyejing Potash Deposit in the Simao Basin from Ancient Marine Halite or Residual Sea	MIAO Zhongying	866
First Report of Zircon U-Pb Chronology and Hf Isotope Evidence of the Heluositan Group Granulite in West Kunlun, Xinjiang	GUO Xincheng, CHEN Bangxue, ZHOU Nengwu, GAO Jun and ZHENG Yuzhuang	868
New Zircon U-Pb Age of Granodiorite from the Shayikenbulake Be Deposit in Altay, Xinjiang and its Significance	LI Qiang, YANG Fuquan and YANG Chengdong	870
A ca. 2.2Ga Acidic Magmatic Event at the Northern Margin of the Yangtze Craton: Evidence from U-Pb Dating and Hf Isotope Analysis of Zircons from the Kongling Complex	XU Daliang, WEI Yunxu, PENG Lianhong, DENG Xin, HU Kun and LIU Hao	872
New Discovery of the Devonian Orthoclase Granite of Nenjiang-Heihe Structural belt, China and its Zircon U-Pb Data	YANG Fan, NA Fuchao, ZHANG Guangyu, WANG Yan, FU Junyu, SUN Wei, CHEN Jingsheng, LI Bin, LIU Miao, PANG Xuejiao, SHI Yi and SHI Lu	874
Zircon U-Pb Dating of Leucogranite in Lhozag and Its Geological Significance	GUO Linnan, HUANG Chunmei, SHI Qingshang and YAN Jingjing	876
The Lowest Boundary Age of Travertine in Dawanzhangjia Ravine, Huanglong, China	WANG Fudong, DONG Faqin, ZHAO Xueqin, ZHANG Haiwei, SUN Shiyong, DAI Qunwei, LI Qiongfang, LI Gang and MA Pengcheng	879
The First Halite Age Revealed by MC-ICP-MS U-series Dating in Lop Nur, Northwestern China	LÜ Fenglin, LIU Chenglin, JIAO Pengcheng, ZHAO Jianxin and ZHANG Hua	881
The Sachakou Deposit in West Kunlun of Xinjiang: A Pb-Zn Polymetallic Deposit Associated with Magmatic Metasomatism of Carbonate Rock	ZHOU Menglin, and LIU Yingchao	883
<i>Acta Geologica Sinica</i> (English Edition) Calls For Open-dated Submission of Paleontological Papers		885
<i>Acta Geologica Sinica</i> (English Edition) Calls For Submission of Review Papers		886
Introduction to <i>Geological Periodical Network of China</i>		887