

A Contribution to the 35th International Geological Congress (IGC): South Africa 2016

ACTA GEOLOGICA SINICA (English Edition)

Vol. 90 No. 4 2016

CONTENTS

I	New Editor-in-Chief Professor Degan SHU
II	Message from the Editor-in-Chief
III	Introduction to Associate Editors-in-Chief
IV	List of members of the Editorial Board
Original Articles	
1069	Status of Stratigraphy Research in China YAO Jianxin, BO Jingfang, HOU Hongfei, WANG Zejiu, MA Xiulan, LIU Fengshan, HU Guangxiao, JI Zhansheng, WU Guichun, WU Zhenjie, LI Suping, GUO Caiqing and LI Ya
1082	Eastern Ancient Terrane of the North China Craton WAN Yusheng, LIU Shoujie, Alfred KRÖNER, DONG Chunyan, XIE Hangqiang, XIE Shiwen, BAI Wenqian, REN Peng, MA Mingzhu and LIU Dunyi
1097	A New Progress of the Proterozoic Chronostratigraphical Division MEI Mingxiang and Kyawt Kay KHAING
1122	Major Advances in the Study of the Precambrian Geology and Metallogenesis of the North China Craton: A Review ZHAO Lei, ZHU Xiyan and ZHAI Mingguo
1156	Structural Characteristics and Formation Dynamics: A Review of the Main Sedimentary Basins in the Continent of China HE Bizhu and ZHENG Menglin
1195	Progress and Prospects of Salt Lake Research in China ZHENG Mianping, ZHANG Yongsheng, LIU Xifang, NIE Zhen, KONG Fanjing, QI Wen, Jia Qingxian, PU Linzhong, HOU Xianhua, WANG Hailei, ZHANG Zhen, KONG Weigang and LIN Yongjie
1236	Research Progress in the Petroleum and Natural Gas Geological Theory of China MA Yongsheng and ZHAO Peirong
1249	Shale Gas Formation and Occurrence in China: An Overview of the Current Status and Future Potential ZOU Caineng, YANG Zhi, PAN Songqi, CHEN Yanyan, LIN Senhu, HUANG Jinliang, WU Songtao, DONG Dazhong, WANG Shufang, LIANG Feng, SUN Shasha, HUANG Yong and WENG Dingwei
1284	Current Status of the Research on Coal Geology in China WANG Tong, WANG Qingwei, SHAO Longyi, XIA Yucheng, FU Xuehai, NING Shuzheng, XIE Zhiqing and JIANG Tao
1298	Current Gold Prospecting in China LEI Shibin, QING Min, NIU Cuiyi and WANG Liang
1321	Characteristics of Ore-forming Fluid of the Gaoshan Gold-Silver Deposit in the Longquan Area, Zhejiang Province and its Implications for the Ore Genesis JIANG Biao, WANG Chenghui, CHEN Yuchuan, WU Baogui, LIAO Peng, CHEN Zhengle and HAN Fengbin
1341	A Research Review of Iron Oxide Copper-Gold Deposits LIU Shaofeng and FU Shuxing
1353	A Review of Research Progress in the Genesis of Colloform Pyrite and Its Environmental Indications GAO Shang, HUANG Fei, WANG Yinghui and GAO Wenyuan
1370	Development and Utilization of the World's and China's Bulk Mineral Resources and their Supply and Demand Situation in the Next Twenty Years ZHANG Zhaozhi, JIANG Guangyu, WANG Xianwei and ZHANG Jianfeng

(See cover 3)

- 1418 **Research on Formation Mechanisms of Hot Dry Rock Resources in China**
WANG Guiling, LIN Wenjing, ZHANG Wei, LU Chuan, MA Feng and GAN Haonan
- 1434 **Groundwater System Division and Description of Asia**
ZHANG Fawang, YI Qing, CHENG Yanpei, YUE Chen and DONG Hua
- 1444 **Understanding the Interactions between Climate Change, Landscape Evolution, Surface Processes and Tectonics in the Earth System: What Can the Studies of Chinese Deserts Contribute?**
YANG Xiaoping and Bernhard EITEL
- 1455 **Marine Geohazards: Review and Future Perspective**
JIA Yonggang, ZHU Chaoqi, LIU Liping and WANG Dong
- 1471 **A Simplified Numerical Approach for the Prediction of Rainfall-Induced Retrogressive Landslides**
LIN Hungchou, YU Yuzhen, LI Guangxin, YANG Hua and PENG Jianbing
- 1481 **Building Damage Extraction from Post-earthquake Airborne LiDAR Data**
DOU Aixia, MA Zongjin, HUANG Shusong and WANG Xiaoqing
- 1490 **Quantitative Geoscience and Geological Big Data Development: A Review**
CHEN Jianping, XIANG Jie, HU Qiao, YANG Wei, LAI Zili, HU Bin and WEI Wei
- 1516 **The Present Research and Prospect of Chinese Geosciences History**
CHEN Baoguo, ZHANG Jiuchen and YANG Mengmeng
- News and Highlights**
- 1535 **Possible Water and Ice on the Moon Revealed by Discovery of a Congeliturbated Fan**
HAN Tonglin, YU Changqing, CHEN Peng and LIN Jingxing
- Research Advances**
- 1537 ***Eopriapulites Sphinx*—The Oldest Priapulid-Like Scalidophoran Animal**
SHAO Tiequan, LIU Yunhuan, WANG Qi, DAI Jun, ZHANG Yanan, TANG Hanhua, LIANG Yongchun, CHEN Cheng, HU Bo, WEI Meng and YANG Tingting
- 1539 **Redox Evolution of the Lithospheric Mantle beneath the North China Craton**
WANG Jian, SONG Yue and Keiko HATTORI
- 1541 **Cenozoic Denudation and Vertical Faulting History of the Central Segment of the Longmenshan Thrust Belt**
TAN Xibin, XU Xiwei, LEE Yuanhsia, KANG Wenjun and ZHAO Shiliang
- 1543 **Neoproterozoic Banded Iron Formation in the Central Tianshan, NW China: The Shalong Example**
LEI Ruxiong, WU Changzhi and LI Guangrong
- 1545 **Fluid Inclusion and Stable Isotope Geochemistry of the Shangxu Gold Deposit, Northern Tibet**
PEI Yingru, YANG Zhusen, ZHAO Xiaoyan, ZHANG Xiong, MA Wang and MAO Jingtao
- 1547 **Fluid Inclusions and Isotope Geochemistry of the Emba Derho and the Debarwa VMS Deposits, Asmara District, Eritrea**
XU Jiahua, CHENG Xihui, CHU Haixia, XIAO Xing and ZHANG Hui
- 1549 **Multi-Stage Fluid Charging and Critical Period of Hydrocarbon Accumulation of the Sinian Dengying Formation in Central Sichuan Basin**
XU Fanghao, XU Guosheng, LIANG Jiaju, YUAN Haifeng, LIU Yong and XU Fanggen
- 1551 **Genesis of Abnormally High Abundant Rearranged Hopanes in Condensates from the Kuqa Depression, Tarim Basin**
KONG Ting, CHEN Xiaohui, ZHANG Min QI Ling and HUANG Guanghui
- 1553 **An Upward Shallowing Succession of Gravity Flow Deposits in the Early Cretaceous Lingshandao Formation, Western Yellow Sea**
YANG Renchao, FAN Aiping, HAN Zuozhen and A.J. (Tom) van Loon
- 1555 **Quantitative Estimation of Groundwater Leakage from Namco Lake by SAR Monitoring**
CHEN Jiaqi, DENG Yunkai, LI Ning, WANG Yu, LIU Zhongling and ZHANG Shilin
- 1557 ***Acta Geologica Sinica* (English Edition) Calls For Open-dated Submission of Paleontological Papers**
- 1558 ***Acta Geologica Sinica* (English Edition) Calls For Submission of Review Papers**
- 1559 **Introduction to Geological Periodical Network of China**