

MAIN CONTENTS

Preliminary Establishment of a Holocene Tephrostratigraphic Framework in East Asia and its Significance for the Palaeoclimate Research
CHEN Xuan-yu, HUANG Xiao-long, XU Yi-gang 695

Application of Melt Inclusions for Studying Volcanic CO₂ Fluxes
LI Ju-jing, GUO Zheng-fu, ZHAO Wen-bin, ZHANG Mao-liang 711

Progresses of Researches on the Palaeoclimates and Palaeoenvironments of Maar Lakes in China
LU Jia-xin, LIU Jia-li, ZHU Ze-yang, WU Jing, LIU Jia-qi 729

Application of UAV Photogrammetry in the Study of Monogenetic Volcanic Eruption: A Case Study of the Gezishan Volcano in the Dalinor Area, Inner Mongolia, China
WANG Li-zhu, ZHAO Yong-wei, LI Ni 739

Three-d Seismic Interpretation and Formation Mechanism of Permian Calderasin the Donghetang Area of the Tarim Basin, Xinjiang, China
LI Xiao-min, TIAN Wei, GONG Ming-yue, WANG Lei, LIU Ping-ping, HE Yan-xin 747

Effects of Cooling Processes of Basaltic Magma System on the Texture, Mineral Composition and Estimated Thermodynamic Parameters of the Basalt
LUO Diao, HOU Tong, WANG Xu-dong, TIAN Ye, ZHANG Zhao-chong 759

Mesozoic Volcanism in the North China Craton: Constraints for the Deep Processes and Shallow Responses of the Cratonic Destruction
MA Qiang, GUO Jian-fang, XU Yi-gang, ZHENG Jian-ping 776

A Study of Zircon U-Pb Ages and Geochemical Characteristics of the Gengzhaxi Granodiorite in the Western Qinling Orogen
YANG Han-wen, WEI Li-yong, WANG Jian-zhong, LI Guo-ying, ZHANG Xing-kang, ZHANG Zhen, TIAN Chong, KOU Shao-lei, SUN Xu 788

A Study on Differences Between Uranium-bearing and Barren Biotite Pegmatites of the Huangbaigou Uranium Deposit in the Western Henan, China
ZHANG Pan-pan, CHEN Hua-kai, WEN Guo-dong, A Li-li, YIN Xue-wen, WANG Jun, DAI Ming-yue, CHEN Zhong-yue, LIU Ye, QI Yong 801

Typomorphic Characteristics of Fluorite in the Fengning Silver-polymetallic Deposit, Hebei Province
LI Yu-jie, LI Sheng-rong 814

Granite Chronology, Geochemistry and Tectonic Significance of the Northern Yamansu Granites of the Eastern Tianshan
ZHAO Yu-hang, GONG Xiao-ping, ZHANG Jian-ye, XU Qing-yang, WANG Zhe, FENG Cheng-gui 825

Genesis of the Fushan Iron Deposit in the Southern Hebei: Evidences from Studies of Fluid Inclusions and H, O, S Isotopes
XI Chao-zhuang, DU Gao-feng, DAI Ta-gen, DENG Hui-juan 837

An Improved Sample-preparation Method for the Re-Os Isotopic Dating of Molybdenite
YIN Yi-fan, QI Liang, ZHOU Bo, HUANG Yan, HU Jing 849

Characteristics of Scientific Thinking in the Quantum Time
ZHANG Qi, TANG Jun, YUAN Jie, JIAO Shou-tao, WANG Yue, WANG Zhen, LIU Si-han 854

Quantum Algorithms for Solving Poisson Equations
CUI Guo-long, WANG Zhi-min, WANG Sheng-bin, WANG Peng, SHI Shang-shang, SHANG Rui-min, LI Jia-yun, LI Ya-nan, LI Wen-dong, WEI Zhi-qiang, GU Yong-jian 861

Preliminary Perspectives on Quantum-Earth Science Research--The Study of Quantum-Biology as a Lesson
WANG Zhen, ZHANG Qi, SHI Yu-ruo, YUAN Jie 875

Construction and Characterization of Mesoporous Hollow Zeolite Microspheres
LI Guo-hua, SHEN Jia-qi, CHEN Xiao-dan, ZHENG Yi-fan, WU Shi-zhao 881

Characteristics of Nanoparticles in Pit Water of the Maoniuping REE Minein Sichuan Province and their Revelations
WANG Jia-long, ZHANG Peng, ZUO Lei, CUI Zhong-xu, SHAO Guang-yu, TAN Xiao-bo, YU Xiao-bing, LIU Rui 888