

MAIN CONTENTS

Research progress of mineral-microbe interactions: A comments for geomicrobiology column <i>LIAN Bin</i> .....	759
Experimental study on the microbial oxidation of chalcopyrite in calcite-boaring ore <i>XIANG Wang-li, LU Xian-cai, LU Yun-qiao, LI Juan, ZHANG Rui, CHEN Xiao-ye, LIU Huan</i> .....	764
Comparing the bio-weathering effects for biotite by <i>Bacillus mucilaginosus</i> and <i>Aspergillus niger</i> <i>DONG Cui-ling, LIAN Bin</i> .....	772
Optimization of measurement method for bacterial number absorbed on the surface of clay minerals <i>TIAN Zhi-yu, LI Fu-chun, LI Yong</i> .....	778
Effect of <i>Aspergillus niger</i> on the impurity removal of quartz sands <i>SUN Ru-giu, LIAN Bin</i> .....	784
Effects of microbial iron reduction by a sulfate-reducing bacterium on the preservation of organic matter in nontronite <i>YU Tian, WANG Dan, DONG Hai-liang, ZENG Qiang</i> .....	790
Characteristics of carbonate rock corrosion by different kinds of microbes and their carbonic anhydras in the CO <sub>2</sub> -H <sub>2</sub> O-Carbonate System <i>SHEN Tai-ming, XIN Bi-guo, LI Wei, YU Long-jiang</i> .....	797
LA-ICP-MS zircon U-Pb ages of Neoproterozoic metamorphic rocks in the Lianglukou area, Northeastern Hubei Province and its geological significance <i>LIU Rui, WU Chang-xiong, CHEN Mi, YAN Hua, ZHAO Xin-fu</i> .....	801
He-Ar isotopes tracing for ore genesis of the Yangshan Gold Deposit <i>DING De-jian, LIANG Jin-long, SUN Wei-dong, GUO Jun-hua, LI He, YE Xian-ren</i> .....	813
Geochemical characteristics and tectonic implications of the Dongshengmiao Intrusion in the west segment of the northern margin of the North China Plate <i>WU Ya-fei, WANG Xiao-long, ZENG Jian-nian, CAO Jian-jin, LU Shun-fu, SUN Xiao-dong</i> .....	820
Origin of the zircon in fine grained granite in Dalingshang Tungsten deposit, Jiangxi and its petrogenetic and mineralizing implications <i>PENG Hua-ming, YUAN Qi, XIA Fei, YAN Zhao-bin, ZHANG Wan-wan</i> .....	830
History of hydrocarbon accumulations in the deep of the Lishu fault depression, Southern Songliao Basin <i>LI Hong-bo, ZHANG Min, LI Hong-lei</i> .....	839
Isotope characteristics of lead and sulfur in Fe-Cu-Mo polymetallic deposits, Wanganzhen ore concentrated area, northern Taihang Mountain, and its implication <i>NIE fei, DONG Guo-chen, WANG Xia, ZHU Hua-ping</i> .....	847
Rock and ore geochemistry characteristics and genetic significance of the Shuangqing iron in Dulan area, deposit in Qinghai Province <i>HE Chao-xin, CHEN Cui-hua, CHENG Wen-bin, ZHANG Yan, TU Zong-lin, SONG Yu-kun, LI Chang-shan, Ding Xue-kuan</i> .....	854
Geochemical characteristics and S-Pb isotopes of soils in the Mannahill Gold Exploration Area, South Australia <i>DONG Peng, SUN Chuan-min, LIU Yan-song, XU Guan-li, TAN Wei, HUANG Guan-zhi, JON Crowe</i> .....	862
Research on the age of hydrocarbon accumulation and filling history of fluid inclusions in Huanghekou depression <i>HU Xiong, LIANG Wei, LI Yang-bing, ZHU Xue-guang, HUANG Wei-qiang, HOU Si-jing, XU Bo-rui</i> .....	868
Saturated hydrocarbon biomarkers in the source rock of the Ordovician Majiagou formation in the southwest Ordos Basin <i>GAO Zhan-dong, ZHANG Zhong-ning, ZHENG Jian-jing</i> .....	874
Geochemistry and petrogenetic significances of semimetal and platinum group elements of the Longshou mine of the Jinchuan Ni-Cu sulfide deposit <i>JIANG Jin-jin, SONG Xie-yan, CHEN Lie-meng, WANG Liang, FU Zhi-qiang</i> .....	882
Analyses on distribution characteristics and controlling factors of Gallium in Bauxite-bearing rock series in the southeastern limb of the Chepan syncline, Chongqing <i>ZHAO Xiao-dong, LI Jun-min</i> .....	893
Ore-forming materials sources of the Dulong Sr-Zn polymetallic deposit, Yunnan, evidences from S-C-O stable isotopes <i>HE Fang, ZHANG Qian, WANG Da-peng, LIU Yu-ping, YE Lin, BAO Tan, WANG Xiao-juan, MIAO Ying-li, ZHANG Shi-kui, SU Hang, WEI Wen-biao</i> .....	900
<sup>55</sup> Mn- <sup>51</sup> Cr isotope systematics in the solar system <i>YANG Jing, LIN Yang-ting, WANG Gui-qin</i> .....	908
Application of oxygen isotopes in the study of phosphate in oceans <i>CHEN Fa-jin, HUANG Ya-nan, ZENG Zhen</i> .....	925
Research status and prospect on phase change mineral materials <i>GU Xiao-bin, QIN Shan, NIU Jing-jing</i> .....	932
Using isotopes to trace sources of the heavy metal contaminations of the river: For example the Zinc isotopes of the Seine River <i>LI Huan, CHEN Jiu-bin, CAI Hong-ming</i> .....	941