

**MAIN CONTENTS**

The Metallogenic Model of Alkaline Rocks-carbonatite Related REE Deposits in the Western Sichuan, China <i>WENG Qiang, NIU He-cai, YANG Wu-bin, LI Ning-bo, SHAN Qiang</i> .....	465
Shallow Response to the Deep REE Mineralization in the Maoniuping Giant REE Deposit in the Eastern Tibet Plateau <i>XU De-ru, JIAO Qian-qian, CHEN Gen-wen, YANG Jian-xing, SHAN Qiang, WANG Fei-rong, ZHOU Hong-wu</i> .....	474
Geochemical Characteristics and Petrogenesis of the REE-barren Huangyangshan Alkaline Intrusion in the South Qinling, Central China and the Comparative Study to the REE Mineralized Intrusions: Implication for the Regional REE Mineralization <i>ZHA Zhi-hui, CHEN Wei, ZHANG Wei, MA Rong-lin</i> .....	488
Enrichment Mechanism, Occurrence State and Availability of REEs in the Zhijin Phosphorite Deposit, Guizhou, China <i>XING Jie-qi, ZHANG Ze-yang, XIAN Hai-yang, JIANG Yu-hang, LIANG Xiao-liang, TAN Wei, NIU He-cai, HE Hong-ping, ZHU Jian-xi</i> .....	505
Constraints on the REE Enrichment-fractionation in Weathering Crust by the Mineral Evolution in the Weathering and Leaching Processes: A Case Study of the Renju REE Deposit in the Meizhou Area, Guangdong, China <i>LIU En-hao, HUANG Jian, TAN Wei, LIANG Xiao-liang, MA Ling-ya</i> .....	517
Petrogenesis and Geological Significance of the Simancuo Biotite Monzogranite in the Kereryin Area, Western Sichuan, China <i>LUO Wei, PENG Jing, JIN Ting-fu, YANG Bo, PANG Liang-wu, ZHOU Zhi-min</i> .....	527
Enrichment Characteristics of Au, Pd and Pt in Floatation Concentrates of the Yulong Porphyry Cu-Mo Mine: A Reconnaissance Study <i>LIU Shen-tai, HUANG Ming-liang</i> .....	540
Geochemical Characteristics of the Maochang Pyrite Deposit in Dafang County of the Northwestern Guizhou, China <i>LI Xin-zheng, YANG Rui-dong, LUO Chao-kun, XU Hai, JI Yan-bing, WANG Long-bo, SUN Bai-chuan</i> .....	547
A Study on REE Geochemistry of the Datangpo Formation-hosted Manganese Deposits in the Xiushan Area, Chongqing, China <i>TIAN Huan-huan, FAN Hai-feng, HE Ming-qin, LIU Xi-qiang, YANG Ruo-fei, LIANG Kun-ping, ZHENG Mao-yao</i> .....	557
The Geochemical Characteristics of Rare Earth Elements in the Chuanyandong Oreblock of the Wengfu Phosphorus Deposit, Guizhou, China <i>LIANG Kun-ping, HE Ming-qin, TIAN Huan-huan, ZHANG Feng, ZHENG Mao-yao</i> .....	572
Mineralogical Characteristics and Genesis of the Laoyaogou Lithium-rich Coal in the Ningwu Coalfield, Shanxi Province, China <i>LI Hong-dou, ZUO Gui-bin, TIAN Ze-qi, GUO Xu, WANG Jun-yan, GUO Wen-mu, XIAO Lin</i> .....	587
Formation Mechanism and Geological Significances of the Ferrodolomite Layers in Strata of the Ordovician-Silurian Transition Zone in the Wuxi Area of the NE Chongqing <i>FENG Ming-you, SHANG Jun-xin, LIU Tian, LIU Xiao-hong, WANG Xing-zhi, ZHU Yi-qing, WANG Jue-bo</i> .....	599
A Study on Hydrogeochemistry and Tectonic Activity Features of Hot Springs in the Red River Fault Zone <i>SHAO Wei-ye, WANG Yun, LI Qi-lin, FAN Shao-hui</i> .....	612
The Source of Fluorine in the Yellow River Water and Its Transport Control Factors <i>FAN Bai-ling, YANG Xiang-qin, SHI Xiao-lei, TAO Zheng-hua, ZHANG Dong, ZHAO Zhi-qi</i> .....	625
Mineralogical Characteristics of the Shanxi Formation Coal in the Huainan Coalfield, Anhui, China <i>ZHANG Qian, ZHENG Liu-gen, HAN Bi-wu, ZHANG Jun, CAI You-jing, XING Da-wei</i> .....	635
Genesis and Geological Significances of Calcite Veins within the Taiyuan Formation in the Xishan Coalfield, Taiyuan, Shanxi, China <i>WANG Wei, GAO Jian, SUN Bei-lei, LIU Chao, ZENG Fan-gui</i> .....	645
A Preliminary Discussion on the Three-Level Classification of Granites <i>ZHANG Qi, YUAN Jie, JIAO Shou-tao, WANG Zhen, WANG Yue, CHEN Wan-feng, YUAN Fang-lin, LI Xiao-bin</i> .....	657
Application and Prospect of Artificial Intelligence in the Field of Geology <i>LI Can-feng, LIU Da, ZHOU De-kun, YANG Ke-hao</i> .....	668