

地球科学

2022年1月 第47卷 第1期

目次 钾盐矿床专辑

开拓我国海相地层找钾和硼锂前景	郑绵平 (1)
海相钾盐矿床溶滤卤水找钾指标体系:以川东北天星桥构造寒武系深部地下卤水为例	王淑丽,郑绵平,李博昀,王占文,王英林,王凡,苏奎,李津,王莹 (2)
川东北地区三叠系聚盐成钾机制及富集模式	张兵,刘威,杨凯,裴文彬,张赛民,肖威 (15)
四川盆地东部垫江盐盆早三叠世嘉陵江组四段杂卤石成因及对成钾的指示	张雄,朱正杰,崔志伟,赵艳军,贺赤诚,胡峰,王开文 (27)
柴达木盆地西部构造裂隙孔隙卤水地球化学组成及来源示踪	李洪普,潘彤,李永寿,靳芳,韩光,王国仓 (36)
南翼山富钾锂卤水储层识别方法	侯献华,冯磊,郑绵平,王伟,樊馥,赵为永,高雪峰 (45)
新疆库车坳陷西段膏盐层沉积、地球化学特征及找钾方向	王凡,邓小林,郑绵平,韦钊,王淑丽,赵玉海,刘星旺,王占文 (56)
新疆罗布泊富钾卤水矿床异常富集机理	马黎春,王凯,张瑜,汤庆峰,孙明光 (72)
新疆库米什盆地硝酸盐类矿床成矿离子迁移规律及成矿模型	李长忠,程怀德,宋建国,马学海,海擎宇,蒋天明 (82)
江陵凹陷新生代玄武岩水-岩反应模拟及其对富钾卤水成因的指示	王春连,刘成林,余小灿,王九一,李瑞琴,段晓旭,刘思晗,游超,周博文 (94)
含富锂(钾)卤水断陷盆地的深部构造特征:以中国华南吉泰盆地为例	刘志伟,侯献华,郑绵平,乜贞,司国帅,鹿颖,戴顺铭,李继 (110)
湖北潜江凹陷古近系深层富钾卤水成因及演化	余小灿,王春连,黄华,王九一 (122)
老挝万象凹陷钾盐矿床变形改造富集模式	梁光河,徐兴旺 (136)
老挝万象盆地钾盐矿床成盐晚期沉积环境:来自硼酸盐矿物的证据	唐启亮,张西营,苗卫良,李永寿,李雯霞,赵雪 (149)

· 矿物学·岩石学·矿床学 ·	
粤北长江铀矿田控矿构造解析	陈柏林,高允,申景辉,曾广乾 (159)
粤北书楼丘铀矿床黄铁矿原位微量元素、硫同位素组成及矿床成因指示	刘文泉,刘斌,罗强,祁家明,吴建勇,魏文芳 (178)
湘赣边界鹿井铀矿床流体包裹体及成矿机制	张笑天,潘家永,夏菲,刘颖,黄迪,赵奇峰,张勇,刘国奇,钟福军 (192)
赣南黄沙铀矿区辉绿岩成因及其与铀成矿关系	张熠阳,钟福军,潘家永,夏菲,祁家明,李海东,刘文泉 (206)
鄂尔多斯盆地深部富铀烃源岩提供铀源可能性的实验研究	王苗,吴柏林,李艳青,刘池阳,郝欣,刘明义,张婉莹,李琪,姚璐航,张效瑞 (224)
湖南锡田矿田花岗岩时空分布与钨锡成矿关系:来自锆石U-Pb年代学与岩石地球化学的约束	刘飏,吴玺虹,孔华,奚小双,蒋江波,李欢,曹荆亚,汤钰御 (240)
勉略宁矿集区铜厂铜-铁矿床成因:黄铜矿Re-Os定年和硫化物原位硫同位素制约	梁燕,王瑞廷,钱壮志,孙晓辉,郑崔勇,张天运,丁坤 (259)
冀东秦家峪中元古界高于庄组锰矿成因:来自矿物学和地球化学的制约	靳松,马鹏飞,郭华,余文超,许灵通,林苗 (277)
胶东三山岛金矿床黄铁矿显微结构和微量元素特征:对金富集机制的指示	邱志伟,李占轲,袁中正 (290)
黑龙江翠宏山铁钼多金属矿田两期钼成矿事件厘定	曾国平,胡新露,姚书振,董子良,周铭,杨健 (309)
东北准噶尔哈旦逊石炭纪弧岩浆及堆晶柱形成机制	司翠芹,刘伟,刘秀金 (325)
内蒙古科右中旗两类基性岩的年代学、地球化学及其构造意义	金松,李英杰,钱程,张杨,孟都,杨海波,王博,伍光锋 (342)
· 构造地质学 ·	
维嘉海山沉积过程及其对西太平洋海山演化的意义	赵斌,吕文超,何高文,张宝金,韦振权,宁子杰,张旭东 (357)
黔西南普安铅锌矿区盆地尺度构造	周亮,胡煜昭,谭笑林,李丕优,程涌 (368)
· 其他 ·	
《地球科学》2022年2月第47卷第2期要目预告	(205)

EARTH SCIENCE

Vol.47 No.1 Jan. 2022

CONTENTS

A Special Issue on Potash Deposits

Exploiting the Prospect for Exploration of Potassium, Boron and Lithium in Marine Strata in China.....Zheng Mianping (1)

Index System for Potassium Prospecting in Marine Potash Deposits: A Case Study of Cambrian Deep Brine from Tianxingqiao
Structure of Northeast Sichuan in China.....Wang Shuli, Zheng Mianping, Li Boyun, Wang Zhanwen, Wang Yinglin,
Wang Fan, Su Kui, Li Jin, Wang Ying (2)

Salt Accumulation, Potassium Formation Mechanism and Enrichment Model of Triassic in Northeast Sichuan Basin
..... Zhang Bing, Liu Wei, Yang Kai, Pei Wenbin, Zhang Saimin, Xiao Wei (15)

Genesis of Polyhalite and Its Significance of Jialingjiang Formation in Dianjiang Salt Basin, Eastern Sichuan Basin
..... Zhang Xiong, Zhu Zhengjie, Cui Zhiwei, Zhao Yanjun, He Chicheng, Hu Feng, Wang Kaiwen (27)

Geochemical Composition and Origin Tracing of Structural Fissure and Pore Brine in Western Qaidam Basin
..... Li Hongpu, Pan Tong, Li Yongshou, Jin Fang, Han Guang, Wang Guocang (36)

Recognition Method of Potassium-Rich Lithium Brine Reservoir in Nanyishan
..... Hou Xianhua, Feng Lei, Zheng Mianping, Wang Wei, Fan Fu, Zhao Weiyong, Gao Xuefeng (45)

Sedimentary-Geochemical Characteristics and Potash-Prospecting Potential of Gypsum-Salt Layer in Western Kuqa Depression
..... Wang Fan, Deng Xiaolin, Zheng Mianping, Wei Zhao, Wang Shuli, Zhao Yuhai, Liu Xingwang, Wang Zhanwen (56)

Abnormal Enrichment Mechanism of Potassium-Rich Brine Deposit in Lop Nor Basin of Xinjiang
..... Ma Lichun, Wang Kai, Zhang Yu, Tang Qingfeng, Sun Mingguang (72)

Ore-Forming Ion Migration Regularity and Metallogenic Model of Nitrate Deposits in Kumishi Basin, Xinjiang
..... Li Changzhong, Cheng Huaide, Song Jianguo, Ma Xuehai, Qingyu, Jiang Tianming (82)

Simulation of Cenozoic Basalt Water-Rock Reaction in Jiangling Depression and Its Indications to Genesis of Potassium-Rich Brine
..... Wang Chunlian, Liu Chenglin, Yu Xiaocan, Wang Jiuyi, Li Ruiqin, Duan Xiaoxu, Liu Sihan, You Chao, Zhou Bowen (94)

Deep Structural Characteristics of Depressional Basin with Lithium (Potash)-Rich Brines: An Example of Jitai Basin in South China
..... Liu Zhiwei, Hou Xianhua, Zheng Mianping, Nie Zhen, Si Guoshuai, Lu Ying, Dai Shunning, Li Ji (110)

Origin and Evolution of Deep-Seated K-Rich Brine in Paleogene of Qianjiang Depression, Hubei Province
..... Yu Xiaocan, Wang Chunlian, Huang Hua, Wang Jiuyi (122)

Potash Deformation and Enrichment Modes in Vientiane Sag, Laos Liang Guanghe, Xu Xingwang (136)

Depositional Environment during Late Salt-Forming Period in Potash Deposits of Vientiane Basin, Laos: Evidence from
Borate Minerals Tang Qiliang, Zhang Xiying, Miao Weiliang, Li Yongshou, Li Wenxia, Zhao Xue (149)

• Mineralogy • Petrology • Mineral Deposits •

Analysis of Ore-controlling Structure of Changjiang Uranium Ore Field, Northern Guangdong
..... Chen Bailin, Gao Yun, Shen Jinghui, Zeng Guangqian (159)

In-Situ Trace Element and Sulfur Isotope of Pyrite Constrain Ore Genesis in Shulouqiu Uranium Deposit, North Guangdong
..... Liu Wenquan, Liu Bin, Luo Qiang, Qi Jiaming, Wu Jiayong, Wei Wenfang (178)

Fluid Inclusion Constraints on Ore-Forming Mechanism of Lujing Uranium Deposit in Jiangxi-Hunan Border Region
..... Zhang Xiaotian, Pan Jiayong, Xia Fei, Liu Ying, Huang Di, Zhao Qifeng, Zhang Yong, Liu Guoqi, Zhong Fujun (192)

Petrogenesis and Its Relationship with Uranium Mineralization of Diabase in Huangsha Uranium Ore-Field, South Jiangxi Province
..... Zhang Yiyang, Zhong Fujun, Pan Jiayong, Xia Fei, Qi Jiaming, Li Haidong, Liu Wenquan (206)

Experimental Study on Possibility of Deep Uranium-Rich Source Rocks Providing Uranium Source in Ordos Basin
..... Wang Miao, Wu Bailin, Li Yanqing, Liu Chiyang, Hao Xin, Liu Mingyi, Zhang Wanying,
Li Qi, Yao Luhang, Zhang Xiaorui (224)

Spatiotemporal Distribution of Granites in Xitian Ore Field in Hunan and Its Tungsten-Tin Mineralization: Constraints from
Zircon U-Pb Dating and Geochemical Characteristics.....Liu Biao, Wu Qianhong, Kong Hua, Xi Xiaoshuang,
Jiang Jiangbo, Li Huan, Cao Jingya, Tang Yuyu (240)

Genesis of Tongchang Copper-Iron Deposit in Mian-Lue-Ning Area: Constraints from Re-Os Isotopic Dating of Chalcopyrite and
In-Situ Sulfur Isotope Compositions of Sulfides.....Luan Yan, Wang Ruiting, Qian Zhuangzhi, Sun Xiaohui,
Zheng Cuiyong, Zhang Tianyun, Ding Kun (259)

Genesis of Mesoproterozoic Gaoyuzhuang Formation Manganese Ore in Qinjiayu, East Hebei: Constraints from Mineralogical and
Geochemical Evidences Jin Song, Ma Pengfei, Guo Hua, Yu Wenchao, Xu Lingtong, Lin Qian (277)

Microstructure and Trace Elements of Pyrite from Sanshandao Gold Deposit in Jiaodong District: Implications for Mechanism of
Gold Enrichment Qiu Zhiwei, Li Zhanke, Yuan Zhongzheng (290)

Two Epochs of Mo Mineralization in Cuihongshan Fe-Mo-Polymetallic Ore field, Heilongjiang Province
..... Zeng Guoping, Hu Xinlu, Yao Shuzhen, Dong Ziliang, Zhou Ming, Yang Jian (309)

Generation Mechanism of Carboniferous Arc Magma and Cumulate Column in Middle Arc Crust, Hadanxun of Northeast Junggar
..... Si Cuiqin, Liu Wei, Liu Xiujin (325)

Geochronology and Geochemistry of Two Types of Basic Rocks in Horqin Right Middle Banner, Inner Mongolia and Their
Tectonic Significances Jin Song, Li Yingjie, Qian Cheng, Zhang Yang, Meng Du, Yang Haibo, Wang Bo, Wu Guangfeng (342)

• Structural Geology •

Sedimentary Processes of Weijia Guyot and Implications for Western Pacific Seamount Evolution
..... Zhao Bin, Lü Wenchao, He Gaowen, Zhang Baojin, Wei Zhenquan, Ning Zijie, Zhang Xudong (357)

Basin-Scale Structure of Pu'an Pb-Zn Deposit Area, Southwest Guizhou, China
..... Zhou Liang, Hu Yuzhao, Tan Xiaolin, Li Piyou, Cheng Yong (368)