

《岩石矿物学杂志》2021年总目次

第40卷第1期

专题研究

- 江陵凹陷古新世地下卤水型硼矿成因研究 ... 王春连, 孟令阳, 刘成林, 余小灿, 颜开, 刘思晗, 游超, 栗克坤, 滕晓华 (1)
- 格尔木河流域富钾花岗岩中成盐元素风化迁移的时空演变 安福元, 张西营, 程夏丽, 马振营, 耿璠, 李姜瑶 (14)
- 冀北招素沟萤石矿地球化学特征及矿床成因探讨 ... 代晓光, 商朋强, 张成信, 梁中朋, 王锦鹏, 李健, 杨海波, 聂新明 (27)
- 四川盆地东部三叠系嘉陵江组海相钾盐成矿分析及靶区预测 朱正杰, 杨郑州, 张雄, 刘成林, 赵艳军, 崔志伟 (39)
- 黔西北燕子口地区五峰-龙马溪组页岩气源岩评价 兰叶芳, 任传建, 黄喻, 陈豪, 任成明 (49)
- 辽西紫都台-于寺盆地膨润土矿岩石矿物学特征研究 刘殿鹤, 张雪花, 王春连, 张华 (65)
- 青海别勒滩试验区低品位固体钾盐液化开采的野外实验研究 李瑞琴, 刘成林, 赵艳军, 刘万平, 王石军, 江雨彤 (76)
- 新疆库米什盆地硝酸盐型盐湖中锶离子迁移富集规律研究 李长忠, 程怀德, 张西营, 宋建国, 马学海, 蒋天明, 李俊, 海擎宇 (89)
- 中亚盆地钾盐矿床盐类矿物 Rb-Sr 同位素体系研究及其意义 沈立建, 刘成林, 焦鹏程, 王春连, 曹养同 (99)
- 塔里木盆地寒武系膏盐岩对盐下白云岩储层的影响 刘丽红, 高永进, 王丹丹, 白忠凯, 张远银, 韩森 (109)
- 柴达木盆地中东部表土盐类矿物分布特征及其与盐尘暴物源联系 耿璠, 张西营, 李雯霞, 郭晓宁, 张海潇, 唐启亮, 陈亮 (121)
- 全球高纯石英原料矿的资源分布与开发现状 王九一 (131)

非主题来稿

- 天然文石-方解石的高温相变及热膨胀性质 杨华, 刘琼 (142)
- 新疆东准噶尔坝西早石炭世石英闪长岩及其对斑岩铜矿的指示意义 张铭鸿, 姚勇, 程志国, 张招崇 (153)

其他

- 《岩石矿物学杂志》荣获“2020 中国国际影响力优秀学术期刊” (13)
- 致谢 (88)
- 2020 年《岩石矿物学杂志》优秀论文奖获得者简介——朱建江 (169)
- 2020 年《岩石矿物学杂志》优秀论文奖获得者简介——周剑凯 (170)

第40卷第2期

专题研究

- 甘肃北山双峰山花岗闪长岩锆石 LA-ICP-MS 定年及其构造意义 孙新春, 王怀涛, 李通国, 魏海峰, 徐磊, 王晓伟 (171)
- 北山造山带早泥盆统埃达克岩的发现及地质意义 杨镇熙, 丁书宏, 张晶, 樊新祥, 孔维琼, 赵吉昌, 荆德龙 (185)
- 甘肃北山炭山子东橄辉长岩年代学、地球化学特征及其地质意义 余君鹏, 王怀涛, 王玉玺, 孙新春, 任文秀, 魏海峰, 王晓伟 (202)
- 内蒙古沙巴尔吐地区中二叠世蛇绿构造混杂岩及同期花岗质杂岩的发现及地质意义 李英雷, 武广, 贺宏云, 陈公正, 杨飞, 李铁刚, 宋广超, 肖剑伟 (217)

- 内蒙古图古日格金矿床二叠纪侵入岩锆石 U-Pb 年龄与地球化学特征 丁成武,戴 盼,聂凤军,张照录,彭云彪,张更信,李大鹏,申 颖 (236)
- 吉林中部敖花村角闪辉长岩锆石 U-Pb 定年、Hf 同位素和岩石地球化学特征 孙永刚,李碧乐,王永胜,李 良,张学海,赵昌吉,李翔鹏 (257)
- 辽西兴城地区早侏罗世花岗质岩浆活动——华北克拉通东部古太平洋俯冲作用的响应 崔芳华,徐学纯,郑常青,姚文贵,施 璐,王路远 (269)
- 胶东晚中生代花岗岩的源区性质与构造环境演化及其对金成矿的启示 王 斌,宋明春,霍 光,周明岭,徐忠华,蒋 雷,宋英昕,李 杰 (288)
- 胶东辽上金矿床 C、O、S、Pb 同位素组成及矿床成因 薄军委,丁正江,宋明春,邱昆峰,孙丰月,纪 攀,许 虹,张 然 (321)
- 东秦岭地区一种富稀土热液型钼解石的发现及其意义 汪方跃,张文奇,段留安,吴 杰,葛 粲,孙 贺,顾海欧,沈睿文 (337)
- 西秦岭德乌鲁岩体成因及地质意义——来自岩石地球化学的证据 冯小明,李注苍,齐建宏 (347)
- 峨眉山大火成岩省东区普安玄武岩系年代学、地球化学及成因研究 耿兴忠,陈 强,程志国,王 倩,马克忠,刘 旭 (363)
- 扬子地块西缘峨山新元古代 A_2 型花岗闪长岩的成因及构造意义 徐丽娟,李 萍,刘 铮,王国昌 (383)
- 徐宿弧安徽北段地区矽卡岩型 Au-Fe-Cu 矿床以及有关的中酸性侵入岩年代学研究 韦 帅,杨 治,邓宇峰,程培生,产思维,毛思斌,卢新哲,袁 峰 (395)
- 云南大坪金矿新元古代成矿事件——来自热液锆石和闪长岩 U-Pb 年代学及 Hf 同位素的约束 曹 原,何小虎,谈树成,杨建宇,刘沛颖 (411)
- 云南省大红山铁铜矿床含矿变质岩系原岩恢复及其形成环境 叶紫枫,杨光树,覃龙江,陈爱兵,王 凯,周 艳,毛致博,戴智慧 (429)
- 云南省铍矿床成矿规律初探 张传昱,曹晓民,李文昌,唐 忠,余海军,陈曹军,程 涌,李 蓉 (452)

第40卷第3期

专题研究

- 内蒙古东戈壁省石炭纪花岗岩成因——锆石 U-Pb 年代学、Sr-Nd-Hf 同位素和地球化学证据 张晓伟,童 英,赵 辉,王 涛,郭 磊 (465)
- 兴安地块南段晚泥盆世包格德岩体时代的厘定及地质意义 李猛兴 (484)
- 桂北豆乍山岩体放射性地球化学特征及其干热岩资源潜力研究 谭 双,陈 琪,王安东,万建军,黄 剑,高 翔 (501)
- 粤北棉花坑铀矿床矿物共生组合特征及其意义 李丽荣,王正其,许德如 (513)
- 刚果盆地西南部白垩纪蒸发岩矿物与古环境特征 颜 开,刘成林,王春连,范美玲,徐海明,王九一 (525)
- 磁铁矿铁同位素标准物质的研制 李 津,唐索寒,马健雄,朱祥坤 (535)
- 钕钬磁铁矿电炉渣工艺矿物学研究 聂文林,张 谦,阳小勇,丰奇成,文书明,周耀文,刘俊伯,杨秀竹 (542)

综述与进展

- 地幔氧逸度的时空变化 余 江,郝艳涛 (551)

环境矿物学

- 碱处理对河北围场天然沸石结构和性能的影响及其机理研究 王 程,郭慧东,于佳乐,冯 锴,于开宁,李 艳 (565)

室温条件下青海湖水中镁离子浓度对沉淀碳酸钙同质多像类型的调控 杨 康,李 红,雷 云,牛元哲,冯诗海 (571)

宝玉石矿物学

山东济南石榴石的宝石矿物学特征及颜色环带研究 陈雨萌,余晓艳,杨 溢,阮晨涛 (581)

巴基斯坦橄榄石宝石学及矿物谱学特征研究 阮维迪,周征宇,DIETMAR Schwarz,杨萧亦,陈彦宇,刘奕岑 (593)

方法与应用

微波消解-电感耦合等离子体质谱法测定土壤中稀土元素条件优化 张玮玮,蒋俊平,李 浩,沈訥敏 (605)

综合资料

2014 年全球发现的新矿物种 蔡剑辉 (614)

其他

《岩石矿物学杂志》编辑部荣获“第五届全国青年地质大会特别学术贡献奖” (500)

2019 年度部分地质学类期刊主要计量指标一览表 (550)

第 40 卷 第 4 期

专题研究

医巫闾山变质核杂岩核部晚中生代花岗岩成因及地质意义 梁键婷,欧阳志侠,张 莹,李建波,曾 涛,周智超 (671)

峨眉山大火成岩省岩石成因与空间差异性研究——基于全区高 Ti 玄武岩地球化学数据分析与模拟 (687)

云南个旧碱性杂岩体的岩石成因及稀土元素富集机制 (704)

塔里木大火成岩省熔结凝灰岩中富磷-稀土矿物集合体的识别及其意义 安秀慧,程志国,张招崇,刘秉翔,孔维亮 (717)

藏东南始新世剑川盆地西缘沉积特征及构造意义 廖 程,杨天南,梁明娟,信 迪,董猛猛,薛传东 (729)

滇西云龙漕涧地区高压片麻岩的发现及厘定 黄 亮,田素梅,张 虎,熊 波,王晓林,浦 涛,杨仕潘,方 雄 (747)

四川盐源混合铜矿的工艺矿物学研究 杨 虎,罗红莹,陆宽伟,张 英 (757)

综述与进展

俯冲带中石墨质碳的研究进展 胡 晗,张立飞 (764)

高放处置罐铁释放诱发膨润土矿物相变研究进展 张 明,谢敬礼 (778)

环境矿物学

铁细菌培养过程中低分子有机酸钠盐对含硫酸根铁矿物形成的影响 花 敏,张 笛,姜艾伶,熊慧欣 (786)

酸活化坡缕石对土壤中 Cd 的钝化效果研究 陶 玲,刘 伟,刘瑞珍,尚倩倩,何 静,任 珺 (795)

HONO 在 γ -Al₂O₃(110) 表面非均相氧化 SO₂ 机理的第一性原理研究 (804)

宝玉石矿物学

缅甸硬玉岩中后成合晶冠状体的含水性研究 邢莹莹,亓利剑 (812)

辽宁岫岩县桑皮峪透闪石玉成矿年龄研究 邹 好,李 鹏,吴之琰,康梦玲,王时麒 (825)

其他

《岩石矿物学杂志》再次入选地质学类中文核心期刊 (686)

第 40 卷 第 5 期

专题研究

华北克拉通北缘晚志留世末-早泥盆世钾质碱性岩的成因及对区域构造演化的限定 (835)

内蒙古科尔沁右翼前旗地区满克头鄂博组火山岩年代学、地球化学特征及其地质意义 (859)

胶北地体侏罗纪花岗岩的成因及其构造意义 周 珊,孟凡雪,谢士稳 (874)

江南造山带湖南段金矿成矿事件及其构造背景	柏道远,李彬,周超,孙骥,魏方辉,曾广乾,姜文,李银敏,蒋启生 (897)
福建浦城地区萤石矿床围岩和矿石地球化学特征及成因	朱利岗,金松,王春连,商朋强,高立湧,王占兵 (923)
综述与进展	
锆石微量元素地球化学对硅质火山岩浆系统的制约	贺振宇,颜丽丽 (939)
俯冲带脱碳和固碳作用过程	朱建江,张立飞,张璐 (952)
美国西尔斯盐湖钙华研究综述	李瑞琴,刘成林,LOWENSTEIN T K (965)
宝玉石矿物学	
广西巴马玉的矿物学特征及其成因探讨	黄倩心,王时麒,梁国科,杨晓东,吴祥珂 (977)
环境矿物学	
矿物-腐植酸-微生物体系对重金属吸附研究	肖敏,陈永政,赵珊,张玉革,季颖,李士凤 (991)
四川盆地大气层中矿物颗粒-甲苯- Cr^{3+} 耦合规律模拟研究	叶海燕,董发勤,边亮,何辉超 (1001)
方法与应用	
短波红外光谱技术在新疆阿舍勒铜锌矿床勘查中的应用	游富华,蒋姣姣,张锦章,赖晓丹 (1010)

第40卷第6期

专题研究

西藏驱龙矿区中新世侵入岩锆石微量和 Hf-O 同位素研究	李秋耘,杨志明,王瑞,孙茂好,曲焕春 (1023)
云南九顶山斑岩-矽卡岩型铜钼矿床成矿机制研究	范佳,郭虎,赖勇,吕鑫 (1049)
广西大瑶山东南缘侏罗纪埃达克质花岗岩的特征、成因及构造意义	许华,韩淑朋,钟锋运,黄启明,白晓,陈子龙 (1074)
藏南错那洞穹隆高分异淡色花岗岩的矿物学特征	张丁川,张刚阳,陈曦,杨宾 (1093)
沅江辰溪地区河流碎屑石榴子石地球化学特征及其对湖南原生金刚石找矿的启示	马瑛,丘志力,邓小芹,陆太进,杨瀚,庄郁晴 (1116)
闽北大坪萤石矿构造蚀变、岩石地球化学特征与矿床成因探讨	张青松,王春连,栗克坤,刘增政,冯校辉,闫晓博,韩志坤,蒋济勇,江建浪 (1131)
北山地区三道明水 Cu-Zn 矿床地质特征及矿床成因初探	高树起,王云峰,王晓东,董珍,宗飞超,狄廷川,付旭 (1141)
碎屑重矿物分析对内蒙古西乌旗早二叠世寿山沟组的物源指示及构造意义	张英利,郭现轻,孙立新,马收先,施立志 (1155)
含 Cu 硫化物中 S、Fe 同位素分馏系数的第一性原理计算	刘善琪,梁家新,张秋院,李永兵 (1171)
综述与进展	
西南天山变质俯冲杂岩带的内部结构——来自木扎尔特剖面的启示	姜雪薇,吕增 (1181)
宝玉石矿物学	
透闪石质玉中黄玉与糖玉致色成因差异研究	刘奕岑,周征宇,杨萧亦,陈彦宇,阮维迪,张灵敏 (1189)
环境矿物学	
水和水蒸气辅助粗晶三水铝石转化为勃姆石的机制研究	陈博,陈小明,蒋学鑫 (1197)
其他	
新书介绍 《矿物名称词源》	(1140)
《岩石矿物学杂志》2021 年总目次	(1203)

Acta Petrologica et Mineralogica**2021 (Vol. 40)****Contents****No. 1**

- A study of the genesis of Paleocene underground brine boron deposits in Jiangling Depression *WANG Chun-lian, MENG Ling-yang, LIU Cheng-lin, YU Xiao-can, YAN Kai, LIU Si-han, YOU Chao, LI Ke-kun and TENG XIAO-hua* (1)
- The spatial-temporal variation of weathering and migration of salt-forming elements in potassium-rich granites of the Golmud River catchment *AN Fu-yuan, ZHANG Xi-ying, CHENG Xia-li, MA Zhen-ying, GENG Jun and LI Jiang-yao* (14)
- Geochemical characteristics and genesis of the Zhaosugou fluorite deposit, northern Hebei Province *DAI Xiao-guang, SHANG Peng-qiang, ZHANG Cheng-xin, LIANG Zhong-peng, WANG Jin-peng, LI Jian, YANG Hai-bo and NIE Xin-ming* (27)
- Metallogenic conditions and target prediction of potash deposits in the Triassic Jialingjiang Formation, eastern Sichuan Basin *ZHU Zheng-jie, YANG Zheng-zhou, ZHANG Xiong, LIU Cheng-lin, ZHAO Yan-jun and CUI Zhi-wei* (39)
- The evaluation of shale gas source rocks in Upper Ordovician Wufeng Formation-Lower Silurian Longmaxi Formation of Yanzikou area, northwest Guizhou *LAN Ye-fang, REN Chuan-jian, HUANG Yu, CHEN Hao and REN Shu-ming* (49)
- A study of the rock and mineralogy characteristics of bentonite deposits in Zidutai-Yusi Basin in western Liaoning *LIU Dian-he, ZHANG Xue-hua, WANG Chun-lian and ZHANG Hua* (65)
- A study of the field experimental liquefaction and exploitation of low-grade solid potassium resource in the Bieletan experimental area, Qinghai Province *LI Rui-qin, LIU Cheng-lin, ZHAO Yan-jun, LIU Wan-ping, WANG Shi-jun and JIANG Yu-tong* (76)
- A study of the migration and enrichment regularity of strontium ions in nitrate type salt lakes in Kumishi Basin, Xinjiang *LI Chang-zhong, CHENG Huai-de, ZHANG Xi-ying, SONG Jian-guo, MA Xue-hai, JIANG Tian-ming, LI Jun and HAI Qing-yu* (89)
- Rb-Sr systematics of salt minerals in potash deposits of the Central Asia Basin and their significance *SHEN Li-jian, LIU Cheng-lin, JIAO Peng-cheng, WANG Chun-lian and CAO Yang-tong* (99)
- The impact of gypsum salt rock on Cambrian subsalt dolomite reservoir in Tarim Basin *LIU Li-hong, GAO Yong-jin, WANG Dan-dan, BAI Zhong-kai, ZHANG Yuan-yin and HAN Miao* (109)
- Distribution characteristics of salt minerals on the surface in the middle east of Qaidam Basin and their relationship with the source of salt dust storm *GENG Jun, ZHANG Xi-ying, LI Wen-xia, GUO Xiao-ning, ZHANG Hai-xiao, TANG Qi-liang and CHEN-Liang* (121)
- Global high purity quartz deposits: Resources distribution and exploitation status *WANG Jiu-yi* (131)
- High-temperature phase transition and thermal expansivity of natural aragonite-calcite *YANG Hua and LIU Qiong* (142)
- Early Carboniferous quartz diorite in the Baxi copper deposit, East Junggar: Insight into potential for porphyry copper deposits *ZHANG Ming-hong, YAO Yong, CHENG Zhi-guo and ZHANG Zhao-chong* (153)

No. 2

- LA-ICP-MS zircon U-Pb ages of the granodiorites from Shuangfengshan in Beishan Mountain, Gansu Province, and its tectonic significance *SUN Xin-chun, WANG Huai-tao, LI Tong-guo, WEI Hai-feng, XU Lei and WANG Xiao-wei* (171)
- The discovery of Early Devonian adakites in Beishan orogenic belt and its geological significance *YANG Zhen-xi, DING Shu-hong, ZHANG Jing, FAN Xin-xiang, KONG Wei-qiong, ZHAO Ji-chang and JING De-long* (185)
- Geochronology and geochemistry of Tanshanzidong olivine-gabbro in Beishan area, Gansu Province, and its geological significance *YU Jun-peng, WANG Huai-tao, WANG Yu-xi, SUN Xin-chun, REN Wen-xiu, WEI Hai-feng and WANG Xiao-wei* (202)
- The discovery and tectonic implications of Middle Permian ophiolite mélange and coeval granitic complex in the Shabaetu area, Inner Mongolia *LI Ying-lei, WU Guang, HE Hong-yun, CHEN Gong-zheng, YANG Fei, LI Tie-gang, SONG Guang-chao and XIAO Jian-wei* (217)

- Zircon U-Pb ages and geochemical characteristics of the Permian intrusive rocks in the Tugurige gold deposit in Inner Mongolia ...
DING Cheng-wu, DAI Pan, NIE Feng-jun, ZHANG Zhao-lu, PENG Yun-biao, ZHANG Geng-xin, LI Da-peng and SHEN Ying (236)
- Zircon U-Pb dating, Hf isotopic and geochemical characteristics of the hornblende gabbro in Aohua Village, central Jilin Province
 *SUN Yong-gang, LI Bi-le, WANG Yong-sheng, LI Liang, ZHANG Xue-hai, ZHAO Chang-ji and LI Ao-peng* (257)
- Early Jurassic granitic magmatism in Xingcheng area, western Liaoning Province: Magmatic response to the subduction of paleo-Pacific
 plate in eastern North China Craton
 *CUI Fang-hua, XU Xue-chun, ZHENG Chang-qing, YAO Wen-gui, SHI Lu and WANG Lu-yuan* (269)
- Source characteristics and tectonic evolution of Late Mesozoic granites in Jiaodong and their implications for gold mineralization
WANG Bin, SONG Ming-chun, HUO Guang, ZHOU Ming-ling, XU Zhong-hua, JIANG Lei, SONG Ying-xin and LI Jie (288)
- C, O, S and Pb isotopic compositions and genesis of the Liaoshang gold deposit in Jiaodong Peninsula
BO Jun-wei, DING Zheng-jiang, SONG Ming-chun, QIU Kun-feng, SUN Feng-yue, JI Pan, XU Hong and ZHANG Ran (321)
- The discovery of a rare earth-rich barytocalcite in the East Qinling area and its significance
 *WANG Fang-yue, ZHANG Wen-qi, DUAN Liu-an, WU Jie, GE Can, SUN He, GU Hai-ou and SHEN Rui-wen* (337)
- The origin and geological significance of the Dewulu pluton in West Qinling: Evidence from petrogeochemistry
 *FENG Xiao-ming, LI Zhu-cang and QI Jian-hong* (347)
- Geochronology, geochemistry and petrogenesis of the Pu'an basalt succession from eastern Emei-shan large igneous province
 *JI Xing-zhong, CHEN Qiang, CHENG Zhi-guo, WANG Qian, MA Ke-zhong and LIU Xu* (363)
- Petrogenesis and tectonic implications of the Neoproterozoic Eshan A₂-type granodiorite, western Yangtze Block
 *XU Li-juan, LI Ping, LIU Zheng and WANG Guo-chang* (383)
- Geochronology of skarn type Au-Fe-Cu deposits and related intermediate-acid intrusive rocks in the northern Anhui section, Xu-Su
 arcuate structural area
 ... *WEI Shuai, YANG Zhi, DENG Yu-feng, CHENG Pei-sheng, CHAN Si-wei, MAO Si-bin, LU Xin-zhe and YUAN Feng* (395)
- Neoproterozoic mineralization event of the Daping gold deposit in Yunnan Province: Constraints from U-Pb geochronology and Hf iso-
 tope of hydrothermal zircons and diorites ... *CAO Yuan, HE Xiao-hu, TAN Shu-cheng, YANG Jian-yu and LIU Pei-ying* (411)
- Restoration of the ore-bearing metamorphic rocks and its formation environment in the Dahong-shan iron-copper deposit, Yunnan
 Province
YE Zi-feng, YANG Guang-shu, QIN Long-jiang, CHEN Ai-bing, WANG Kai, ZHOU Yan, MAO Zhi-bo and DAI Zhi-hui (429)
- A preliminary study of metallogenic regularity of beryllium deposits in Yunnan Province *ZHANG Chuan-yu,*
CAO Xiao-min, LI Wen-chang, TANG Zhong, YU Hai-jun, CHEN Cao-jun, CHENG Yong and LI Rong (452)

No. 3

- Petrogenesis of the Carboniferous granitoid intrusions in Dornogovi Province, Southern Mongolia: Evidence from zircon U-Pb geochro-
 nology, Sr-Nd-Hf isotope and whole-rock geochemistry
 *ZHANG Xiao-wei, TONG Ying, ZHAO Hui, WANG Tao and GUO Lei* (465)
- The determination of Late Devonian Baogede granite in the southern part of the Xing'an block and its significance
 *LI Meng-xing* (484)
- Radioactive geochemical characteristics of rocks from Douzhashan pluton in northern Guangxi and its implications for hot dry rock
 resources *TAN Shuang, CHEN Qi, WANG An-dong, WAN Jian-jun, HUANG Jian and GAO Xiang* (501)
- Mineral assemblage characteristics of the Mianhuakeng uranium deposit in northern Guangdong Province and its significance
 *LI Li-rong, WANG Zheng-qi and XU De-ru* (513)
- Mineral deposition and paleoenvironment of Cretaceous evaporite in Southwestern Congo
 *YAN Kai, LIU Cheng-lin, WANG Chun-lian, FAN Mei-ling, XU Hai-ming and WANG Jiu-yi* (525)
- The preparation of reference material for Fe isotope measurement of magnetite samples
 *LI Jin, TANG Suo-han, MA Jian-xiong and ZHU Xiang-kun* (535)
- A study of the process mineralogy of vanadium-titanium magnetite electric furnace slag *NIE Wen-lin,*
ZHANG Qian, YANG Xiao-yong, FENG Qi-cheng, WEN Shu-ming, ZHOU Yao-wen, LIU Jun-bo and YANG Xiu-zhu (542)
- Spatio-temporal variation of mantle oxygen fugacity *YU Jiang and HAO Yan-tao* (551)

- The effect of alkali treatment on structure and property of natural zeolite from Weichang area, Hebei Province WANG Cheng, GUO Hui-dong, YU Jia-le, FENG Kai, YU Kai-ning and LI Yan (565)
- The effect of magnesium concentration on polymorphs of calcium carbonate from Qinghai Lake water at room temperature YANG Kang, LI Hong, LEI Yun, NIU Yuan-zhe and FENG Shi-hai (571)
- A study of gemological and mineralogical characteristics and color zonation of garnets from Jinan, Shandong Province CHEN Yu-meng, YU Xiao-yan, YANG Yi and RUAN Chen-tao (581)
- A study of gemology and mineral spectroscopy characteristics of peridot from Pakistan RUAN Wei-di, ZHOU Zheng-yu, DIETMAR Schwarz, YANG Xiao-yi, CHEN Yan-yu and LIU Yi-cen (593)
- Optimization of microwave digestion inductively coupled plasma mass spectrometry for determination of rare earth elements in soil ... ZHANG Yi-wei, JIANG Jun-ping, LI Hao and SHEN Ne-min (605)
- New minerals approved in 2014 CAI Jian-hui (614)

No. 4

- The genesis of the Late Mesozoic granitoids in the core of the Yiwulüshan metamorphic core complex and its geological significance LIANG Jian-ting, OUYANG Zhi-xia, ZHANG Ying, LI Jian-bo, ZENG Tao and ZHOU Zhi-chao (671)
- A study of the petrogenesis and spatial difference of the Emeishan large igneous province: Based on geochemical analysis and simulation of the high Ti basalts in the whole region TIAN Yu-lu, LI Ya, MENG Fan-chao, ZHAO Li-ke, WU Zhi-ping and DU Qing (687)
- Petrogenesis and REE enrichment mechanism of Gejiu alkaline complex in Yunnan Province WANG Chang-bing, NI Guang-qing, QIN Yong-kai, LIAO Zhi-kai, LI Wei-sen, LI Shi, ZHANG Li and GUAN Bin (704)
- The discovery of Fe-P-REE enriched mineral assemblages in the ignimbrite from Tarim large igneous province and its implication ... AN Xiu-hui, CHENG Zhi-guo, ZHANG Zhao-chong, LIU Bing-xiang and KONG Wei-liang (717)
- Sedimentary geology of the western margin of the Eocene Jianchuan basin in southeast Tibetan Plateau and its tectonic implications LIAO Cheng, YANG Tian-nan, LIANG Ming-juan, XIN Di, DONG Meng-meng and XUE Chuan-dong (729)
- The discovery and determination of high-pressure gneiss in Caojian area of Yunlong, western Yunnan Province HUANG Liang, TIAN Su-mei, ZHANG Hu, XIONG Bo, WANG Xiao-lin, PU Tao, YANG Shi-pan and FANG Xiong (747)
- A study of process mineralogy of a mixed copper mine in Yanyuan, Sichuan Province YANG Hu, LUO Hong-ying, LU Kuan-wei and ZHANG Ying (757)
- Progress of research on graphitic carbon in subduction zones HU Han and ZHANG Li-fei (764)
- A review on the study of mineral phase transformation of bentonite induced by iron release in the high-level radioactive waste repository ZHANG Ming and XIE Jing-li (778)
- Effects of low molecular organic sodium salts on the formation of sulfate-containing iron minerals during the cultivation of *Acidithiobacillus ferrooxidans* HUA Min, ZHANG Di, JIANG Ai-ling and XIONG Hui-xin (786)
- The effect of palygorskite modified by acid on stabilization of Cd in soil TAO Ling, LIU Wei, LIU Rui-zhen, SHANG Qian-qian, HE Jing and REN Jun (795)
- Heterogeneous oxidation mechanism of SO₂ on the surface of γ -Al₂O₃(110) by HONO: A first-principle study LIN Yan-hui, BIAN Liang, SONG Mian-xin, LI Hai-long, LI Yu, LUO Wei-ge, ZHANG Jiao, ZHANG Jin-mei, LUO Wei-hui and ZHANG Qin (804)
- A preliminary study of water content of symplectitic coronas in jadeitite in Myanmar XING Ying-ying and QI Li-jian (812)
- A study of the mineralization age of nephrite from Sangpiyu, Xiuyan County, Liaoning Province ZOU Yu, LI Peng, WU Zhi-ying, KANG Meng-ling and WANG Shi-qi (825)

No. 5

- Petrogenesis of the Late Silurian to Early Devonian potassic alkaline rocks on the northern margin of the North China Craton and their constraints on the tectonic evolution NIU Xiao-lu, LIU Fei, FENG Guang-ying and MAO Xiao-hong (835)
- Chronology, geochemistry and geological significance of volcanic rocks of the Manketouebo Formation in Horqin Right-Front Banner area, Inner Mongolia JIA Bin,

- WEI Li-yong, WU Huan-huan, ZHANG Zhen, TANG Wei-dong, LIU Tian-hang, CHAI Chen-hui and MENG Wu-yi (859)
 Genesis of Jurassic granites in Jiaobei terrane and its tectonic implications ZHOU Shan, MENG Fan-xue and XIE Shi-wen (874)
 Gold mineralization events of the Jiangnan Orogen in Hunan and their tectonic settings BAI Dao-yuan, LI Bin, ZHOU Chao, SUN Ji, WEI Fang-hui, ZENG Guang-qian, JIANG Wen, LI Yin-min and JIANG Qi-sheng (897)
 Geochemistry characteristic and genesis of surrounding rock and ore in Pucheng fluorite deposits district, Fujian Province ZHU Li-gang, JIN Song, WANG Chun-lian, SHANG Peng-qiang, GAO Li-yong and WANG Zhan-bing (923)
 Zircon trace element geochemistry constrains on the silicic volcanic system HE Zhen-yu and YAN Li-li (939)
 Decarbonation and carbonation processes in the subduction zone ZHU Jian-jiang, ZHANG Li-fei and ZHANG Lu (952)
 A review on the tufa research in the Searles Salt Lake, USA LI Rui-qin, LIU Cheng-lin and LOWENSTEIN T K (965)
 Mineralogical characteristics and genesis of Bama nephrite HUANG Qian-xin, WANG Shi-qi, LIANG Guo-ke, YANG Xiao-dong and WU Xiang-ke (977)
 Adsorption of heavy metal on the ternary system of minerals-HA-bacteria composites XIAO Min, CHEN Yong-zheng, ZHAO Shan, ZHANG Yu-ge, JI Ying and LI Shi-feng (991)
 Simulation study on the interactions of mineral particles-toluene-Cr³⁺ for Sichuan Basin atmosphere YE Hai-yan, DONG Fa-qin, BIAN Liang and HE Hui-chao (1001)
 Application of short wave infrared technique in exploration of Ashele Cu-Zn deposit in Xinjiang YOU Fu-hua, JIANG Jiao-jiao, ZHANG Jin-zhang and LAI Xiao-dan (1010)

No. 6

- Zircon trace elemental and Hf-O isotopic compositions of the Miocene magmatic suite in the giant Qulong porphyry copper deposit, southern Tibet LI Qiu-yun, YANG Zhi-ming, WANG Rui, SUN Mao-yu and QU Huan-chun (1023)
 Study on the metallogenic mechanisms of Jiudingshan porphyry-skarn Cu-Mo deposit FAN Jia, GUO Hu, LAI Yong and LÜ Xin (1049)
 Characteristics, petrogenesis and tectonic implications of the Jurassic adakitic granites at southeast edge of Dayao Mountain, Guangxi XU Hua, HAN Shu-peng, ZHONG Feng-yun, HUANG Qi-ming, BAI Xiao and CHEN Zi-long (1074)
 Mineralogical characteristics of highly fractionated leucogranite in Cuonadong dome, southern Tibet ZHANG Ding-chuan, ZHANG Gang-yang, CHEN Xi and YANG Bin (1093)
 Geochemical characteristics of fluvial detrital garnet in Chenxi area of Yuanjiang River and its inspiration for diamond prospecting, Hunan Province MA Ying, QIU Zhi-li, DENG Xiao-qin, LU Tai-jin, YANG Han and ZHUANG Yu-qing (1116)
 Discussion on structural alteration, rock geochemistry characteristics and genesis of Daping fluorite deposit in northern Fujian ZHANG Qing-song, WANG Chun-lian, LI Ke-kun, LIU Zeng-zheng, FENG Xiao-hui, YAN Xiao-bo, HAN Zhi-kun, JIANG Ji-yong and JIANG Jian-lang (1131)
 The geologic feature and genetic mechanism of the Sandaomingshui Cu-Zn deposit in the Beishan area GAO Shu-qi, WANG Yun-feng, WANG Xiao-dong, DONG Zhen, ZONG Fei-chao, DI Ting-chuan and FU Xu (1141)
 Detrital heavy minerals analysis of Early Permian Shoushangou Formation in the Xi Ujimqin, Inner Mongolia: Implications for provenance and tectonic setting ZHANG Ying-li, GUO Xian-qing, SUN Li-xin, MA Shou-xian and SHI Li-zhi (1155)
 First-principles calculations of S and Fe isotope fractionation in Cu-bearing sulfides LIU Shan-qi, LIANG Jia-xin, ZHANG Qiu-yuan and LI Yong-bing (1171)
 Internal structure of deeply subducted accretionary complex in southwestern Tianshan: Implications from the Muzhaerte section JIANG Xue-wei and LÜ Zeng (1181)
 Study on difference of color genesis between yellow and brown tremolite jade LIU Yi-cen, ZHOU Zheng-yu, YANG Xiao-yi, CHEN Yan-yu, RUAN Wei-di and ZHANG Ling-min (1189)
 The transformation mechanism of the macrogranular gibbsite to boehmite assisted by water and water vapor CHEN Bo, CHEN Xiao-ming and JIANG Xue-xin (1197)