



## 《矿床地质》2017年总目次

### 第36卷 第1期

矿集区找矿预测研究——以辽东青城子铅锌-金-银矿集区为例 .....	王玉往, 解洪晶, 李德东, 石煜, 刘福兴, 孙国强, 孙启明, 周国超 1
东天山天宇铜镍硫化物矿床磁黄铁矿 Re-Os 同位素物质来源示踪 .....	段士刚, 蒋宗胜, 张作衡, 李凤鸣, 任雅琼 25
新疆黑尖山 Fe-Cu(-Au)矿床氢氧同位素特征及其地质意义 .....	赵联党, 陈华勇, 张莉, 张增杰, 李登峰, 张维峰, 陆万俭, 杨骏, 闫学录 38
西天山望峰金矿床绢云母 <sup>40</sup> Ar/ <sup>39</sup> Ar 年龄及矿床成因研究 .....	袁霞, 陈文, 张斌, 孙敬博, 喻顺, 尹继元, 张彦, 刘新宇, 杨莉, 张岩 57
西藏拉抗俄斑岩铜钼矿床流体包裹体研究 .....	唐攀, 陈毓川, 唐菊兴, 郑文宝, 冷秋锋, 林彬 68
豫西骆驼山硫多金属矿床的成因——来自纹层状矿石中硫化物 LA-ICP-MS 微量元素证据 .....	邢波, 向君峰, 叶会寿, 陈小丹, 张国苏, 杨晨英, 金雪, 胡志中 83
“带外脉式”钨矿床成矿模型——以湖南白云仙钨矿田头天门矿床为例 .....	祝新友, 傅迷, 程细音, 王艳丽, 田野 107
二连盆地中东部含铀古河谷构造建造及典型矿床成矿模式研究 .....	刘波, 杨建新, 彭云彪, 康世虎, 乔鹏, 鲁超, 张锋 126
福建永定大坪花岗斑岩体的钨钼富集特征研究 .....	刘永超, 李建康, 邹天人, 江善元, 胡明月, 陈振宇 143
北祁连浪力克地区毛藏花岗闪长岩年代学、Hf 同位素及地球化学特征 .....	白, 郭周平, 赵辛敏 158
闽北大药坑金矿床黄铁矿成分类型及硫、铅同位素组成研究 .....	肖凡, 班宜忠 171
海南岛高通岭钼矿床赋矿岩体 LA-ICP-MS 锆石 U-Pb 年龄、Hf 同位素和 Ce <sup>4+</sup> /Ce <sup>3+</sup> 特征 .....	朱昱桦, 于亮亮, 于得水, 许德如, 付王伟 185
川滇黔地区铅锌矿床稳定同位素地球化学研究现状综合分析 .....	仲文斌, 张均, 王健, 杨青, 张哲坤, 程元路 200
新疆雅满苏铁矿区碳酸盐岩地质地球化学特征及其对矿床成因的制约 .....	丁建华, 李厚民, 李立兴, 陈靖, 邓刚 219
辽宁鞍山地区铁质活化再富集成因富铁矿的成矿时代——齐大山铁矿床辉钼矿 Re-Os 年龄证据 .....	刘明军, 曾庆栋, 李厚民, 李立兴, 文屹, 姚良德, 高业舜 237
江西东乡铜矿床成因: 铜和硫同位素联合约束 .....	欧阳学财, 狄永军, 王长明, 张达, 杨秋, 吴彬, 王乔, 罗政 250
长江中下游成矿带丰山矿田发现新类型金矿——远端浸染型金矿床 .....	谢桂青, 韩颖霄, 毛景文 265
矿产资源评价篇(1) .....	吴良士 269

### 第36卷 第2期

广西西大明山弄屯铅锌矿床断裂构造解析 .....	李赛赛, 冯佐海, 单永磐, 付伟, 乐兴文, 刘武文, 徐文忠 275
安徽宁国大坞尖钨矿床成矿流体及成矿物质来源——来自氢、氧和硫同位素证据 .....	李斌, 张赞赞, 吴明安, 周涛发 291
海南省新村钼矿床 LA-ICP-MS 锆石 U-Pb 和辉钼矿 Re-Os 年龄及其地质意义 .....	胡军, 徐德明, 张鲲, 王磊, 陈沐龙, 云平 303
粤西黄泥坑金矿床地质地球化学特征和成矿时代 .....	王磊, 徐德明, 张鲲, 胡军, 肖光铭, 徐燕君 317
贵州铜仁塘边铅锌矿床成因的流体包裹体和同位素证据 .....	于玉帅, 郭福生, 戴平云, 刘阿胜, 周云 330
山东谢家沟金矿床流体包裹体研究及成矿机制的探讨 .....	丁东胜, 陈蕾, 巩恩普, 时文革, 邵周伟, 张永利 345
延边地区官地铁矿床形成时代及其构造意义 .....	商青青, 任云生, 陈聪, 孙琦, 薛世远, 李俊英 364
金顶超大型铅锌矿床的成矿金属来源——来自铅同位素组成的制约 .....	郝宏达, 宋玉财, 庄天明, 马建雄 379
兰坪金顶跑马坪铅锌矿床幕式流体混合成矿作用——矿石组构证据 .....	余静, 薛传东, 杨天南, 侯增谦, 宋玉财, 向坤, 梁明娟, 王红岩, 廖程, 唐靓, 来瑞娟, 杨天云露, 杨献珍, 刘星 391
新疆西天山色勒特果勒还原性斑岩-矽卡岩铜钼矿床中石榴子石分带及其成因 .....	张伟, 张兴春, 冷成彪, 苏文超, 秦朝建, 曹景良, 颜家辉 412
新疆觉罗塔格地区东戈壁钼矿床花岗斑岩的成因研究 .....	叶龙翔, 张达玉, 周涛发, 袁峰, 张永, 邓宇峰, 徐利强, 路魏魏 429

新疆元宝山金矿床锆石 U-Pb、全岩 Rb-Sr 年代学及其地质意义 .....	段瑞春, 杨红梅, 刘重●, 张利国, 董喜润	449
东昆仑祁漫塔格早中生代大陆地壳增生过程中的岩浆活动与成矿作用 .....	高永宝, 李文渊, 李 侃, 钱 兵	463
新疆维宝砂卡岩铜铅锌矿床维西矿段成矿流体性质和来源 .....	钟世华, 丰成友, 任雅琼, 李大新, 赵一鸣	483
金川铜镍硫化物矿床磁黄铁矿矿物学特征及成因意义 .....	芮会超, 焦建刚, 靳树芳	501
矿产资源评价篇(2) .....	吴良士	515

### 第 36 卷 第 3 期

中国砂卡岩矿床找矿新进展和时空分布规律 .....	赵一鸣, 丰成友, 李大新	519
广西东平地区碳酸锰矿床 Ga 含量高异常的发现及成因初探 .....	李启来, 伊海生, 吴驰华, 赵香玲, 夏国清	544
兴蒙造山带及华北板块北缘钼矿化——进展、规律、问题与成因初探 .....	刘翼飞, 江思宏	557
豫西熊耳山地区吉家洼金矿床成矿物质来源探讨——碳、氧、硫、铅同位素地球化学证据 .....	张兴康, 叶会寿, 张 维, 张福斌, 何旭麒, 张向存	595
新疆谢米斯台成矿带火山岩型铀矿预测 .....	孙远强, 范洪海, 薛春纪, 耿瑞瑞, 陈金勇, 田建吉, 马汉峰	611
湘西花垣李梅铅锌矿床 C、O、S、Pb 同位素特征及成矿物质来源 .....	胡太平, 王敏芳, 丁振举, 何谋●, 王彦博, 郭晓南	623
新疆北部青河县阿斯喀尔特钼矿区花岗岩质石年代学及地球化学特征 .....	张亚峰, 蔺新望, 赵玉梅, 郭岐明, 赵端昌, 王 星, 朱伟鹏	643
汉南地区晋宁晚期铜-金成矿事件的确认及意义 .....	崔建军, 曲 玮, 高福平, 郑光高, 赵文平, 陈龙耀, 李 森, 刘 林, 于新兵	659
江苏仑山金矿床流体包裹体、稳定同位素和成矿年代学研究 .....	陆邦成, 余金杰, 陈春生, 王铁柱, 车林睿, 陆振裕, 尹灵强	675
滇西兰坪盆地白秧坪 Pb-Zn-Cu-Ag 多金属矿床东矿带成矿年代学探讨 .....	冯彩霞, 刘 ●, 毕献武, 胡瑞忠, 池国祥, 陈俊瑾, 冯 强, 郭晓磊	691
秘鲁 Don Javier 斑岩型铜钼矿床矿化蚀变特征及矿床三维勘查模型 .....	陈 念, 毛景文, 范成龙, 陈玉明	705
云南武定左所辉绿岩铂族元素地球化学、Pb 同位素及其地质意义 .....	王子正, 王生伟, 范文玉, 郭 阳, 代鸿章, 杨 斌, 周邦国	719
闽中太华山金矿区金坂矿段矿化类型及找矿方向探讨 .....	毛光武, 谭元松, 何东辉, 聂端平, 刘向东	736
赣西北大雾塘钨矿区地质特征及 Re-Os 同位素年代学研究 .....	张 勇, 潘家永, 马东升, 但小华, 张雷雷, 徐国辉, 杨春鹏, 江青霞, 江超强	749
矿产资源评价篇(3) .....	吴良士	770

### 第 36 卷 第 4 期

豆英状铬铁矿以及其中铂族元素矿物的成因问题——进展与展望 .....	朱永峰	775
庐枞盆地小包庄铁矿床地质特征及 <sup>40</sup> Ar- <sup>39</sup> Ar 同位素年代学研究 ...	张赞赞, 张 舒, 吴明安, 吕 博, 王克友, 张千明	795
新疆西准噶尔石屋斑岩型 Cu-Au 矿点地质特征、成矿流体及成矿潜力 .....	李昌昊, 申 萍, 潘鸿迪, 黄 玮, 曹 冲, 李 晶	816
北淮阳沙坪沟钼矿床成矿斑岩体特征与成因 .....	刘晓强, 闫 峻, 王爱国	837
钦杭带南段庞西垌-金山金银矿田控矿构造分析及找矿指示 ...	林振文, 周永章, 秦 艳, 郑 义, 梁志鹏, 邹和平, 牛 佳	866
湖南尖峰岭稀有金属花岗岩地球化学特征及成矿作用 .....	文春华, 邵拥军, 黄革非, 罗小亚, 李胜苗	879
内蒙古东北部得耳布尔铅锌银矿床闪锌矿 Rb-Sr 年龄及地质意义 .....	赵 岩, 吕骏超, 张德宝, 周永恒, 邵 军, 王 冰	893
前寒武纪 VMS 与 BIF 铁矿床共生组合研究进展 .....	彭自栋, 王长乐, 赵 刚, 朱明田, 张连昌, 佟小雪, 南景博	905
赣南茅坪钨矿床黄玉单晶流体包裹体研究 .....	周龙全, 李光来, 苏 晔, 王小林, 唐 傲, 韦星林, 陈光旭, 刘朕语	921
岩浆黑云母和热液黑云母矿物化学研究进展 .....	唐 攀, 唐菊兴, 郑文宝, 冷秋锋, 林 彬	935
中国铍矿成矿规律 .....	李建康, 邹天人, 王登红, 丁 欣	951
广西云开地区新华铅(银)矿床白云母 Ar-Ar 年代学及其成矿动力学背景 .....	张旭波, 王敏芳, 皮道会, 刘 坤, 郭晓南, 王彦博	979
大别山南麓梨木岭钼矿床辉钼矿 Re-Os 同位素年龄及地质意义 .....	龚银杰, 朱 江, 陈冬明, 张遵遵, 范 川	992

西藏喜马拉雅成矿带错那洞超大型铍锡钨多金属矿床的发现及意义 ..... 李光明,张林奎,焦彦杰,夏祥标,董随亮,付建刚,梁 维,张 志,吴建阳,董 磊,黄 勇 1003

矿产资源评价篇(4)..... 吴良士 1009

第 36 卷 第 5 期

福建紫金山矿田西南铜钼矿段蚀变矿化特征及 SWIR 勘查应用研究 ..... 许 超,陈华勇, Noel WHITE,祁进平,张乐骏,张 爽,段 甘 1013

西藏雄村铜金矿床流体包裹体显微测温与特征元素测定 ..... 周 云,唐菊兴,黄 勇,郎兴海,于玉帅 1039

黑龙江省多宝山 Cu-Mo 矿床成矿斑岩锆石 U-Pb 年龄及地球化学特征 ..... 刘 军,周振华,欧阳荷根 1057

林子宗群火山岩与成矿关系:以斯弄多浅成低温热液型矿床为例 ..... 丁 帅,陈毓川,唐菊兴,谢富伟,胡古月,杨宗耀,施 硕,李于海,杨洪钰 1074

滇西勐满金矿床成矿物质来源分析及矿床成因探讨——来自年代学、矿物学及地球化学的证据 ..... 贾福东,张长青,毛景文,刘 欢,周云满,孟旭阳,李建荣,孙 嘉 1093

安徽龙桥铁矿床辉长闪长岩的发现及其岩石学和年代学研究 ..... 刘一男,范 裕,周涛发,洪浩澜,张 维,欧邦国 1127

多宝山矿田铜山斑岩铜矿床地质特征与蚀变分带:对热液-矿化中心及深部勘查的启示 ..... 王 乐,秦克章,庞绪勇,宋国学,金露英,李光明,赵 超 1143

贵州普定五指山地区铅锌矿床成矿模式 ..... 金中国,周家喜,郑明泓,彭 松,黄智龙,刘 玲 1169

东昆仑夏日哈木铜镍矿床 II 号岩体年代学、地球化学及其意义 ..... 杜 玮,姜常义,凌锦兰,周 伟,夏明哲,夏昭德 1185

豫西南高庄金矿床流体包裹体组合研究及其成矿流体特征 ..... 向世红,薛春纪,彭 姣,张智慧,曹纪虎,杨永千 1197

河南省铁山河铁矿床地球化学特征及成因探讨 ..... 祝朝辉,宋 锋,张宏伟,刘淑霞,杜春彦,白俊豪,雷 炯 1213

云南易门铜厂铜矿床碳酸盐矿物微量元素组成研究 ..... 吕俊男,李 峰,肖术安,余 璨,张志发,刀 艳 1227

矿产资源评价篇(5)..... 吴良士 1241

第 36 卷 第 6 期

湖南香花岭锡钨多金属矿区的含 Li、Be 条纹岩和有关交代岩 ..... 赵一鸣,丰成友,李大新,刘建楠,王 辉,钟世华 1245

短波红外光谱技术在矽卡岩型矿床中的应用——以鄂东南铜绿山铜铁金矿床为例 ..... 张世涛,陈华勇,张小波,张维峰,许 超,韩金生,陈 觅 1263

西藏列廷冈铁多金属矿床矽卡岩矿物学特征及其地质意义 ... 李 壮,唐菊兴,王立强,杨 毅,李松涛,王 豪,王 维 1289

福建平和包围山钼矿床锆石 U-Pb 和辉钼矿 Re-Os 年龄及其地质意义 ..... 潘天望,张 达,沈荣泉,陈泉流,袁 远,高孝巧,狄永军 1316

阿尔泰山缘塔拉特铅锌铁多金属矿床硫化物 Re-Os 和 Rb-Sr 年龄及其地质意义 ..... 袁玲玲,刘 锋 1333

河南省构造演化与矿床成矿系列 ..... 彭 翼,黄 凡,卢欣祥,李 华,余郑生,李怀乾,钟江文,罗 雪 1352

西秦岭厂坝、黄渚关岩体的锆石 U-Pb 年龄、Hf 同位素组成及其地质意义 ..... 魏 然,王义天,胡乔青,黄诗康,袁群虎,柏全良,胡文荣,张湘君,蔡 拓 1367

新疆喀拉通克铜镍矿镁铁质岩体形成时代、成矿特征与深部找矿前景 ..... 冯延清,钱壮志,段 俊,焦建刚,徐 刚,任 萌,陈炳龙 1387

湖南川口三角潭钨矿床中辉钼矿 Re-Os 同位素定年及其地质意义 ..... 彭能立,王先辉,杨 俊,陈 迪,罗 来,罗 鹏,刘天一 1402

赣南大埠复式花岗岩体两期成岩年龄及其地质意义 ..... 方贵聪,陈郑辉,陈毓川,赵 正,侯可军,曾载淋,罗 泽 1415

河南省卢氏县灰池子岩体外围花岗岩伟晶型铀矿地质特征研究 ..... 张盼盼,陈化凯,温国栋,张同林,莫鸿飞,司马献章,曲 凯,阿丽莉,尹青青 1425

Pb 同位素对江西大湖塘矿集区部分矿床成岩成矿物质来源的指示 ..... 杨炎申,潘小菲,赵 苗,张智宇,龚雪婧 1439

滇西北发现花岗岩伟晶型铁锂云母矿床 ..... 李建康,王成辉,冯文杰,王登红,邹天人 1453

矿产资源评价篇(6)..... 吴良士 1456

2016 年地质类期刊主要量化指标 ..... 1460

《矿床地质》2017 年总目次 ..... 1461

# Comprehensive Table of Contents of “Mineral Deposits” in 2017

## Vol. 36 No. 1

Prospecting prediction of ore concentration area exemplified by Qingchengzi Pb-Zn-Au-Ag ore concentration area, eastern Liaoning Province .....	WANG YuWang , XIE HongJing , LI DeDong , SHI Yu , LIU FuXing , SUN GuoQiang , SUN QiMing and ZHOU GuoChao 1
Re-Os isotopic analysis of pyrrhotite from Tianyu Cu-Ni sulfide deposit in Eastern Tianshan Mountains, Xinjiang : Constraints on sources of ore-forming materials .....	DUAN ShiGang , JIANG ZongSheng , ZHANG ZuoHeng , LI FengMing and REN YaQiong 25
H-O isotope characteristics and geological significance of Heijianshan Fe-Cu( -Au ) deposit in Eastern Tianshan , Xinjiang .....	ZHAO LianDang , CHEN HuaYong , ZHANG Li , ZHANG ZengJie , LI DengFeng , ZHANG WeiFeng , LU WanJian , YANG JunTao and YAN XueLu 38
$^{40}\text{Ar}/^{39}\text{Ar}$ age of sericite and genetic study of Wangfeng gold deposit , West Tianshan Mountains .....	YUAN Xia , CHEN Wen , ZHANG Bin , SUN JingBo , YU Shun , YIN JiYuan , ZHANG Yan , LIU XinYu , YANG Li and ZHANG Yan 57
A study of fluid inclusions from Lakang 'e porphyry Cu-Mo deposit in Tibet .....	TANG Pan , CHEN YuChuan , TANG JuXing , ZHENG WenBao , LENG QiuFeng and LIN Bin 68
Genesis of Luotuoshan sulfur polymetallic deposit in western Henan Province : Evidence from trace elements of sulfide revealed by using LA-ICP-MS in lamellar ores .....	XING Bo , XIANG JunFeng , YE HuiShou , CHEN XiaoDan , ZHANG GuoSu , YANG ChenYing , JIN Xue and HU ZhiZhong 83
Metallogenic model of “ outside the cupola style ” quartz vein-type tungsten deposit : A case study of Toutianmen deposit , Baiyunxian orefield , Hunan Province .....	ZHU XinYou , FU Mi , CHENG XiYing , WANG YanLi and TIAN Ye 107
Study of structure and formation in uranium-bearing paleo-valley and typical metallogenic models in eastern part of Erlian Basin ...	LIU Bo , YANG JianXin , PENG YunBiao , KANG ShiHu , QIAO Peng , LU Chao and ZHANG Feng 126
Enrichment characteristics of Nb and Ta of Daping granite porphyry in Yongding , Fujian Province .....	LIU YongChao , LI JianKang , ZOU TianRen , JIANG ShanYuan , HU MingYue and CHEN ZhenYu 143
Geochronology , Hf isotopic and geochemical characteristics of Maozang granodiorite in Langlike area , North Qilian Mountain .....	BAI Yun , GUO ZhouPing and ZHAO XinMin 158
Study of S , Pb isotopes and composition typomorphic characteristics of pyrites in Dayaokeng gold deposit , northern Fujian Province .....	XIAO Fan and BAN YiZhong 171
LA-ICP-MS zircon U-Pb dating , Hf isotopic composition and $\text{Ce}^{4+}/\text{Ce}^{3+}$ characteristics of Gaotongling molybdenum ore deposit in Hainan Province and their implications for metallogeny .....	ZHU YuHua , YU LiangLiang , YU DeShui , XU DeRu and FU WangWei 185
A comprehensive analysis of present situation of geochemical researches on stable isotopes of lead-zinc deposits in Sichuan-Yunnan-Guizhou area .....	ZHONG WenBin , ZHANG Jun , WANG Jian , YANG Qing , ZHANG ZheKun and CHENG YuanLu 200
Geological and geochemical features and genetic significant of carbonatite in Yamasu iron deposit , Xinjiang .....	DING JianHua , LI HouMin , LI LiXing , CHEN Jing and DENG Gang 219
Metallogenic epoch of high-grade iron ore deposits of iron activation and enrichment genesis in Anshan-Benxi area of Liaoning : Re-Os isotopic dating evidence of molybdenite from Qidashan iron deposit .....	LIU MingJun , ZENG QingDong , LI HouMin , LI LiXing , WEN Yi , YAO LiangDe and GAO YeShun 237
Genesis of Dongxiang copper deposit in Jiangxi Province : Constraints from copper and sulfur isotopes .....	OUYANG XueCai , DI YongJun , WANG ChangMing , ZHANG Da , YANG Qiu , WU Bin , WANG Qiao and LUO Zheng 250

## Vol. 36 No. 2

Fracture structural analysis of Nongtun Pb-Zn deposit in Xidamingshan, Guangxi .....	
..... LI SaiSai, FENG ZuoHai, SHAN YongPan, FU Wei, LE XingWen, LIU WuWen and XU WenZhong	275
Sources of ore-forming fluids and materials of Dawujian tungsten deposit in Ningguo, Anhui Province: Constraints from hydrogen-oxygen-sulfur isotope geochemistry .....	
..... LI Bin, ZHANG ZanZan, WU MingAn and ZHOU TaoFa	291
LA-ICP-MS zircon U-Pb and molybdenite Re-Os dating of Xincun Mo ore deposit in Hainan Province and its geological significance .....	
..... HU Jun, XU DeMing, ZHANG Kun, WANG Lei, CHEN MuLong and YUN Ping	303
Geological and geochemical characteristics and metallogenic age of Huangnikeng gold deposit in western Guangdong Province .....	
..... WANG Lei, XU DeMing, ZHANG Kun, HU Jun, XIAO GuangMing and XU YanJun	317
Ore genesis of Tangbian Pb-Zn deposit in Tongren, Guizhou: Evidence from ore-forming fluids and isotopes .....	
..... YU YuShuai, GUO FuSheng, DAI PingYun, LIU ASui and ZHOU Yun	330
Fluid inclusion study and metallogenic mechanism of Xiejiagou gold deposit in Shandong Province .....	
..... DING DongSheng, CHEN Lei, GONG EnPu, SHI WenGe, SHAO ZhouWei and ZHANG YongLi	345
Formation age and tectonic significance of Guandi iron deposit in Yanbian area, Jilin Province .....	
..... SHANG QingQing, REN YunSheng, CHEN Cong, SUN Qi, XUE ShiYuan and LI JunYing	364
Metal source of Jinding superlarge lead-zinc deposit: Constraint from lead isotopic composition .....	
..... HAO HongDa, SONG YuCai, ZHUANG TianMing and MA JianXiong	379
Mineralization resulting from multistage fluids mixing at Paomaping Zn-Pb deposit in Jinding, Lanping Basin, northwestern Yunnan Province: Evidence from ore micro-textures .....	
..... YU Jing, XUE ChuanDong, YANG TianNan, HOU ZengQian, SONG YuCai, XIANG Kun, LIANG MingJuan, WANG HongYan, LIAO Cheng, TANG Jing, LAI RuiJuan, YANGTIAN YunLu, YANG XianZhen and LIU Xing	391
Zoning and genesis of garnets in the Seleteguole reduced porphyry-skarn deposit of West Tianshan Mountains, Xinjiang .....	
..... ZHANG Wei, ZHANG XingChun, LENG ChengBiao, SU WenChao, QIN ChaoJian, CAO JingLiang and YAN JiaHui	412
Petrogenesis of mineralized granite porphyry in Dongebi Mo deposit, Jueluotage area, Xinjiang .....	
..... YE LongXiang, ZHANG DaYu, ZHOU TaoFa, YUAN Feng, ZHANG Yong, DENG YuFeng, XU LiQiang and LU WeiWei	429
Zircon U-Pb and whole rock Rb-Sr dating of Yuanbaoshan gold deposit in Xinjiang and its geological significance .....	
..... DUAN RuiChun, YANG HongMei, LIU ChongPeng, ZHANG LiGuo and TONG XiRun	449
Magmatism and mineralization during Early Mesozoic continental accretion process in Qimantag, East Kunlun Mountains .....	
..... GAO YongBao, LI WenYuan, LI Kan and QIAN Bing	463
Characteristics and sources of ore-forming fluid from Weixi ore block of Weibao skarn Cu-Pb-Zn deposit, Xinjiang .....	
..... ZHONG ShiHua, FENG ChengYou, REN YaQiong, LI DaXin and ZHAO YiMing	483
Typomorphic characteristics and genetic significance of pyrrhotite in Jinchuan Cu-Ni sulfide deposit .....	
..... RUI HuiChao, JIAO JianGang and JIN ShuFang	501

## Vol. 36 No. 3

New progress in prospecting for skarn deposits and spatial-temporal distribution of skarn deposits in China .....	
..... ZHAO YiMing, FENG ChengYou and LI DaXin	519
Discovery of Ga with unusually high content in manganese carbonate deposits of Beisi Formation in Dongping area, Guangxi, and its genetic study .....	
..... LI QiLai, YI HaiSheng, WU ChiHua, ZHAO XiangLing and XIA GuoQing	544
Mo mineralization in Xing'an-Mongolian orogen and north margin of China craton: Review, question and a preliminary genetic model .....	
..... LIU YiFei and JIANG SiHong	557
C, O, S and Pb isotopic constraints on ore-forming material sources of Jijiawa gold deposit in Xiong'er Mountain area, western Henan	

- ..... ZHANG XingKang , YE HuiShou , ZHANG Wei , ZHANG FuBin , HE XuQi and ZHANG XiangCun 595
- Metallogenic prediction of volcanic type uranium resources in Xiemisitai metallogenic belt , Xinjiang .....
- SUN YuanQiang , FAN HongHai , XUE ChunJi , GENG RuiRui , CHEN JinYong , TIAN JianJi and MA HanFeng 611
- C , O , S and Pb isotopic characteristics and sources of metallogenic materials of Limei Pb-Zn deposit in Huayuan County , western Hunan Province .....
- ..... HU TaiPing , WANG MinFang , DING ZhenJu , HE MouChun , WANG YanBo and GUO XiaoNan 623
- Geochronology and geochemistry of granitoids of Asfalt beryllium deposit in Qinghe County , northern Xinjiang .....
- ZHANG YaFeng , LIN XinWang , ZHAO YuMei , GUO QiMing , ZHAO DuanChang , WANG Xing and ZHU WeiPeng 643
- Identification of Late Jinning period Cu-Au mineralization event in Hannan region and its significance .....
- CUI JianJun , QU Wei , GAO FuPing , ZHENG GuangGao , ZHAO WenPing , CHEN LongYao , LI Miao , LIU Lin and Yu XinBing 659
- Study of fluid inclusions , stable isotopes and geochronology of Lunshan gold deposit , Jiangsu Province .....
- ... LU BangCheng , YU JinJie , CHEN ChunSheng , WANG TieZhu , CHE LinRui , LU ZhenYu and YIN LingQiang 675
- An investigation of metallogenic chronology of eastern ore block in Baiyangping Pb-Zn-Cu-Ag polymetallic ore deposit , Lanping Basin , western Yunnan Province .....
- FENG CaiXia , LIU Shen , BI XianWu , HU RuiZhong , CHI GuoXiang , CHEN JunJin , FENG Qiang and GUO XiaoLei 691
- Alteration-mineralization characteristics and three-dimensional exploration model of Don Javier porphyry copper-molybdenum deposit , Peru .....
- CHEN Nian , MAO JingWen , FAN ChengLong and CHEN YuMing 705
- PGE geochemistry and Pb isotopes of Zuosuo Paleoproterozoic diabbases in Wuding of Yunnan Province and its geological implications
- WANG ZiZheng , WANG ShengWei , FAN WenYu , GUO Yang , DAI HongZhang , YANG Bin and ZHOU BangGuo 719
- Gold mineralization types and prospecting direction of Jinban ore block in Taihuashan gold ore district of central Fujian Province ...
- ..... MAO GuangWu , TAN YuanSong , HE DongHui , NIE DuanPing and LIU XiangDong 736
- Re-Os molybdenite age of Dawutang tungsten ore district of northwest Jiangxi and its geological significance .....
- ..... ZHANG Yong , PAN JiaYong , MA DongSheng , DAN XiaoHua , ZHANG LeiLei , XU GuoHui , YANG ChunPeng , JIANG QingXia and JIANG ChaoQiang 749

## Vol. 36 No. 4

- Study on podiform chromitite and related platinum group mineral ( PGM ) : Progress and prospecting .....
- ZHU YongFeng 775
- Geological characteristics and  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  geochronology of Xiaobaozhuang iron deposit in Luzong volcanic basin .....
- ..... ZHANG ZanZan , ZHANG Shu , WU MingAn , LÜ Bo , WANG KeYou and ZHANG QianMing 795
- Geology , ore-forming fluids and potential of Shiwu porphyry Cu-Au spot in West Junggar , Xinjiang .....
- ..... LI ChangHao , SHEN Ping , PAN HongDi , HUANG Wei , CAO Chong and LI Jing 816
- Characteristics and petrogenesis of Shapinggou ore-bearing porphyry in northern Huaiyang belt .....
- ..... LIU XiaoQiang , YAN Jun and WANG AiGuo 837
- Ore-controlling structure analysis of Pangxidong-Jinshan silver-gold orefield , southern Qin-Hang belt : Implications for further exploration ...
- LIN ZhenWen , ZHOU YongZhang , QIN Yan , ZHENG Yi , LIANG ZhiPeng , ZOU HePing and NIU Jia 866
- Geochemical features and mineralization of Jianfengling rare metal granite in Hunan Province .....
- ..... WEN ChunHua , SHAO YongJun , HUANG GeFei , LUO XiaoYa and LI ShengMiao 879
- Rb-Sr isochron age of De 'rbur Pb-Zn-Ag deposit in Erguna massif of northeast Inner Mongolia and its geological significance .....
- ..... ZHAO Yan , LÜ JunChao , ZHANG DeBao , ZHOU YongHeng , SHAO Jun and WANG Bing 893
- Research progress of Precambrian VMS-BIF paragenetic assemblage .....
- PENG ZiDong , WANG ChangLe , ZHAO Gang , ZHU MingTian , ZHANG LianChang , TONG XiaoXue and NAN JingBo 905
- A preliminary study of fluid inclusions of topaz crystal from Maoping tungsten deposit , southern Jiangxi Province .....
- ..... ZHOU LongQuan , LI GuangLai , SU Ye , WANG XiaoLin , TANG Ao , WEI XingLin , CHEN GuangXu and LIU ZhenYu 921

Progress in study of mineral chemistry of magmatic and hydrothermal biotites .....	
..... TANG Pan , TANG JuXing , ZHENG WenBao , LENG QiuFeng and LIN Bin	935
A Review of beryllium metallogenic regularity in China .....	
..... LI JianKang , ZOU TianRen , WANG DengHong and DING Xin	951
Ar-Ar geochronology of muscovite and metallogenic geodynamics of Xinhua Pb-Zr( Ag ) deposit in Yunkai area , Guangxi .....	
..... ZHANG XuBo , WANG MinFang , PI DaoHui , LIU Kun , GUO XiaoNan and WANG YanBo	979
Re-Os isotopic ages of Limuling molybdenum deposit in southern Dabie Mountain and their geological significance .....	
..... GONG YinJie , ZHU Jiang , CHEN DongMing , ZHANG ZunZun and FAN Chuan	992
First discovery and implications of Cuonadong superlarge Be-W-Sn polymetallic deposit in Himalayan metallogenic belt , southern Tibet .....	
..... LI GuangMing , ZHANG LinKui , JIAOYanJie , XIA XiangBiao , DONG SuiLiang , FU JianGang , LIANG Wei , ZHANG Zhi , WU JianYang , DONG Lei and HUANG Yong	1003

### Vol. 36 No. 5

Alteration and mineralization of Xinan Cu-Mo ore deposit in Zijinshan orefield , Fujian Province , and application of short wavelength infra-red technology( SWIR ) to exploration .....	
... XU Chao , CHEN HuaYong , Noel WHITE , QI JinPing , ZHANG LeJun , ZHANG Shuang and DUAN Gan	1013
Microthermometry and characteristic element determination of fluid inclusions from Xiongcuo copper-gold deposit in Tibet .....	
..... ZHOU Yun , TANG JuXing , HUANG Yang , LANG XingHai and YU YuShuai	1039
Zircon U-Pb dating , geochemistry of ore-bearing porphyry in Duobaoshan Cu-Mo deposit , Heilongjiang Province , China .....	
..... LIU Jun , ZHOU ZhenHua and OUYANG HeGen	1057
Relationship between Linzizong volcanic rocks and mineralization : A case study of Sinongduo epithermal Ag-Pb-Zn deposit .....	
..... DING Shuai , CHEN YuChuan , TANG JuXing , XIE FuWei , HU GuYue , YANG ZongYao , SHI Shuo , LI YuHai and YANG HongYu	1074
Metallogenic material sources and genesis of Mengman gold deposit , Western Yunnan : Evidence from zircon U-Pb dating , mineralogy and geochemistry .....	
..... JIA FuDong , ZHANG ChangQing , MAO JingWen , LIU Huan , ZHOU YunMan , MENG XuYang , LI JianRong and SUN Jia	1093
Discovery of gabbro diorite in Longqiao deposit of Lu-Zong volcanic Basin , eastern China , and its petrology and chronology .....	
..... LIU YiNan , FAN Yu , ZHOU TaoFa , HONG HaoLan , ZHANG Wei and OU BangGuo	1127
Geological characteristics and alteration zonation of Tongshan porphyry copper deposit within Duobaoshan orefield , Heilongjiang : Implications for hydrothermal-mineralization center and further exploration .....	
... WANG Le , QIN KeZhang , PANG XuYong , SONG GuoXue , JIN LuYing , LI GuangMing and ZHAO Chao	1143
Metallogenic model of Pb-Zn deposits in Wuzhishan area , Puding City , Guizhou Province .....	
..... JIN ZhongGuo , ZHOU JiaXi , ZHENG MingHong , PENG Song , HUANG ZhiLong and LIU Ling	1169
Zircon SHRIMP U-Pb geochronology , geochemistry and implications of No. II intrusion in Xiarihamu Cu-Ni deposit , East Kunlun Mountains .....	
..... DU Wei , JIANG ChangYi , LING JinLan , ZHOU Wei , XIA MingZhe and XIA ZhaoDe	1185
Research on fluid inclusion assemblages and ore-forming fluid of Gaozhuang gold deposit in Southwestern Henan .....	
..... XIANG ShiHong , XUE ChunJi , PENG Jiao , ZHANG ZhiHui , CAO JiHu and YANG YongQian	1197
Geochemical characteristics and genesis of Tieshanhe iron deposit in Henan Province .....	
..... ZHU ChaoHui , SONG Feng , ZHANG HongWei , LIU ShuXia , DU ChunYan , BAI JunHao and LEI Jiong	1213
Study of trace elements in carbonate minerals of different ores from Tongchang deposit , Yimen , Yunnan .....	
..... LÜ JunNan , LI Feng , XIAO ShuAn , YU Can , ZHANG ZhiFa and DAO Yan	1227

### Vol. 36 No. 6

Li , Be-bearing ribbon rocks and related metasomatites in Xianghualing tin-polymetallic deposit , Hunan Province .....	
..... ZHAO YiMing , FENG ChenYou , LI DaXin , LIU JianNan , WANG Hui and ZHANG ShiHua	1245

- Application of short wavelength infrared (SWIR) technique to exploration of skarn deposit : A case study of Tonglvshan Cu-Fe-Au deposit , Edongnan ( southeast Hubei ) ore concentration area ..... ZHANG ShiTao ,  
CHEN HuaYong , ZHANG XiaoBo , ZHANG WeiFeng , XU Chao , HAN JinSheng and CHEN Mi 1263
- Mineralogical characteristics of skarn in Lietinggang iron polymetallic deposit , Tibet and their geological significance .....  
..... LI Zhuang , TANG JuXing , WANG LiQiang , YANG Yi , LI SongTao , WANG Hao and WANG Wei 1289
- Zircon U-Pb and molybdenite Re-Os dating of Baoweishan molybdenum deposit in Pinghe County , Fujian Province , and its geological  
significance ..... PAN TianWang ,  
ZHANG Da , SHEN RongQuan , CHEN QuanLiu , YUAN Yuan , GAO XiaoQiao and DI YongJun 1316
- Sulfide Re-Os age and Rb-Sr age of Talate Pb-Zn-Fe polymetallic deposit in southern Altay and their geological significance .....  
..... YUAN LingLing and LIU Feng 1333
- Tectonic evolution and metallogenic series of mineral deposits in Henan Province ..... PENG Yi ,  
HUANG Fan , LU XinXiang , LI Hua , YU ZhengSheng , LI HuaiQian , ZHONG JiangWen and LUO Xue 1352
- Zircon U-Pb ages and Hf isotope compositions of Changba and Huangzhuguan plutons in West Qinling , and their geological  
significance ..... WEI Ran , WANG YiTian ,  
HU QiaoQing , HUANG ShiKang , YUAN QunHu , BAI QuanLiang , HU WenRong , ZHANG XiangJun and CAI Tuo 1367
- Formation age , metallogenic features and exploration prospect in deep part of Kalatongke Cu-Ni deposits , Xinjiang .....  
... FENG YanQing , QIAN ZhuangZhi , DUAN Jun , JIAO JianGang , XU Gang , REN Meng and CHEN BingLong 1387
- Re-Os dating of molybdenite from Sanjiaotan tungsten deposit in Chuankou area , Hunan Province , and its geological implications  
..... PENG NengLi , WANG XianHui , YANG Jun , CHEN Di , LUO Lai , LUO Peng and LIU TianYi 1402
- Two petrogenetic stages of Dabu composite granite pluton in South Jiangxi and their geological implications .....  
... FANG GuiCong , CHEN ZhengHui , CHEN YuChuan , ZHAO Zheng , HOU KeJun , ZENG ZaiLin and LUO Ze 1415
- A study of geological features of granitic pegmatite-type uranium ore deposits on periphery of Huichizi granitic pluton in Lushi County ,  
Henan Province ..... ZHANG PanPan , CHEN HuaKai ,  
WEN GuoDong , ZHANG TongLin , MO HongFei , SIMA XianZhang , QU Kai , A LiLi and YIN QingQing 1425
- Indication of lead isotopes to source of rock-forming and ore-forming materials of some deposits in Dahutang ore concentration area ,  
Jiangxi Province ..... YANG YanShen , PAN XiaoFei , ZHAO Miao , ZHANG ZhiYu and GONG XueJing 1439