

黑龙江翠宏山铅锌多金属矿区花岗岩锆石SHRIMP U-Pb测年及其地质意义

[点此下载全文](#)

引用本文: 邵军,李秀荣,杨宏智.2011.黑龙江翠宏山铅锌多金属矿区花岗岩锆石SHRIMP U-Pb测年及其地质意义[J].地球学报,32(2):163-170.

DOI: 10.3975/cagsb.2011.02.04

摘要点击次数: 880

全文下载次数: 1646

作者	单位	E-mail
邵军	沈阳地质矿产研究所	sysjun1963@126.com
李秀荣	沈阳地质矿产研究所	
杨宏智	沈阳地质矿产研究所	

基金项目:国土资源大调查项目(编号: 200310200052)

中文摘要:翠宏山铅锌多金属矿床产在花岗岩体与下寒武统西林群铅山组变质岩系的接触带内,是一矽卡岩型铅锌多金属矿床。岩浆活动强烈,具有脉动活动特点,形成的岩石类型主要有二长花岗岩、碱长花岗岩,总结岩石地球化学特征,认为二者分别具有“I”型花岗岩和“A”型花岗岩特征,花岗岩的形成与造山后伸展作用有关。采用锆石U-Pb方法确定了岩浆岩的形成年龄,获得二长花岗岩年龄为 192.8 ± 2.5 Ma、 199.0 ± 3.1 Ma。研究认为,铅锌多金属成矿与岩浆活动关系密切,成矿作用发生在印支晚期-燕山早期。

中文关键词:花岗岩 造山后伸展作用 成矿年龄 印支晚期-燕山早期 翠宏山铅锌多金属矿床

Zircon SHRIMP U-Pb Dating of Granite in the Cuihongshan Polymetallic Deposit and Its Geological Implications

Abstract:The Cuihongshan Pb-Zn polymetallic deposit has been regarded as a skarn type ore deposit that occurs in the contact zone between the granite and the metamorphic rocks of the Qianshan Formation of the Lower Cambrian xilin Group. This study has revealed that the granitic rocks are composed mainly of monzogranites, alkali-feldspar granites with the characteristics of both “I” type granite and “A” type granite. The granite was generated in the post-orogeny extensional system. Besides, the magmatism of these rocks had a very close relationship with the Pb-Zn polymetallic mineralization. Zircon SHRIMP U-Pb dating shows that the formation ages of two monzonitic granite samples in the Cuihongshan ore deposit are 192.8 ± 2.5 Ma and 199.0 ± 3.1 Ma, respectively. It is thus suggested that the mineralization age of the Cuihongshan Pb-Zn polymetallic deposit is Late Indosinian-Early Yanshanian.


keywords:[granite](#) [post-orogeny extensional system](#) [mineralization age](#) [Late Indosinian-Early Yanshanian](#) [Pb-Zn polymetallic deposit](#)

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)

版权所有 《地球学报》编辑部 Copyright©2008 All Rights Reserved

主管单位: 国土资源部 主办单位: 中国地质科学院

地址: 北京市西城区百万庄大街26号, 中国地质科学院东楼317室 邮编: 100037 电话: 010-68327396 E-mail: diqixb@126.com

 技术支持: 东方网景