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福建漳平北坑场钼多金属矿床辉钼矿Re-Os同位素年龄 [点此下载全文](#)

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摘要:

福建漳平钼多金属矿床位于闽西南晚古生代拗陷东缘。中生代以来, 闽西南拗陷经历了强烈的构造岩浆作用的发生。已有同位素年代学研究成果表明该区存在早侏罗世、中侏罗世以及早白垩世成矿作用, 但缺少与晚侏罗世年代学记录。本文选取漳平北坑场钼多金属矿床开展辉钼矿的Re-Os同位素年代学研究。根据Re-Os同位素测年特征以及与岩体的相互关系, 指出钼矿化的形成经历了多个成矿阶段, 其中小规模矿化发生在 148.8 ± 2.2 Ma。主脉状赋存于下二叠统翠屏山组石英细砂岩中, 其等时线年龄为 139.8 ± 2.3 Ma~ 143.7 ± 2.1 Ma, 为晚侏罗世~早白垩世提斯向环太平洋构造域转换后闽西南地区晚侏罗世—早白垩世壳源花岗岩浆。

关键词: [Re-Os同位素年龄](#) [辉钼矿](#) [北坑场钼多金属矿](#) [福建漳平](#)

Re-Os Isotopic age of Molybdenite of the Beikengchang Molybdenite and Multi-metal Deposit in Zhangping City, Fujian Province and its Geological Significance [Download Fulltext](#)

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Abstract:

The Beikengchang Molybdenite and multi-metal deposit in Zhangping city is located on the eastern depression of the southwestern Fujian province which has experienced the strong tectono-magmatic mineralization since Mesozoic. The previous isotopic chronological data in the southwestern Fujian there were mineralizations during early and middle Jurassic and early Cretaceous, but lack of the record related to the late Jurassic magmatism. This paper selected molybdenite of the Beikengchang to study the Re-Os isotopic chronology. The Re-Os dating result combining with the country rock a relationship between deposit and intrusion indicates that the molybdenite mineralization experienced the small scale Mo mineralization occurred at 148.8 ± 2.2 Ma. The main Mo mineralization, characterized by vein bearing inside sandstone of the lower Permian Cuipingshan Formation, was dated at the isochron of 139.8 ± 2.3 Ma~ 143.7 ± 2.1 Ma, representing late Jurassic and early Cretaceous mineralization event. And the magma originated from late Jurassic granite magma in the southwestern Fujian formed after transformation of the domain.

Keywords: [Re-Os Isotopic age](#) [Molybdenite](#) [Beikengchang Mo and Multi-metal deposit](#) [the Zhangping](#)