

鄂东铜绿山矿区石英正长闪长玢岩锆石SHRIMP U-Pb定年及其地质意义

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中文摘要:铜绿山铜金(铁)矿床位于长江中下游的鄂城-大冶-瑞昌铜金(铁)成矿带的西北部,阳新侵入岩体西北端.矿体赋存于下三叠统大冶群第四至第七岩性段.铜绿山石英正长闪长玢岩体与铜绿山矿床成矿关系密切,是该矿床的成矿母岩.笔者对铜绿山石英正长闪长玢岩体进行了锆石SHRIMP U-Pb定年,获得岩体的形成年龄为 $(146 \pm 1)\text{Ma}$ (95%可信度,MSWD=1.6).表明铜绿山铜金矿床的成矿母岩形成于晚侏罗世-早白垩世早期.鉴于接触交代成矿作用与成矿岩体的结晶时间大致同时,铜绿山矽卡岩型铜金(铁)矿床的形成时间亦发生于晚侏罗世-早白垩世.

中文关键词:[铜金\(铁\)矿](#) [锆石SHRIMP U-Pb年龄](#) [铜绿山](#) [地质意义](#)

SHRIMP U-Pb Zircon Dating of the Quartz-Orthoclase Diorite Porphyrite from the Tonglushan Orefield in Eastern Hubei Province and Its Geological Implication

Abstract: Located in the northwestern part of the Echen-Daye-Ruichang metallogenic belt in the middle and lower reaches of the Yangtze River, the Tonglushan Cu-Au(Fe) deposit occurs in the northwestern segment of the Yangxin quartz-orthoclase diorite porphyrite and lies in 4th-7th Members of the Lower Triassic Daye Group. The porphyrite as the parent rock of Cu-Au(Fe) mineralization is closely related to the deposit. Zircon SHRIMP U-Pb age of $(146 \pm 1)\text{Ma}$ (95% confidence, MSWD=1.2) shows that the porphyrite was formed in the Late Jurassic-Early Cretaceous period. According to the fact that contact metasomatic mineralization took place simultaneously with the crystallization of mineralized intrusion, it is concluded that the Tonglushan skarn type Cu-Au(Fe) deposit was also formed in the Late Jurassic-Early Cretaceous period.


keywords: [Cu-Au \(Fe\) deposit](#) [zircon SHRIMP U-Pb age](#) [Tonglushan](#) [geological significance](#)

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