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[陈琰](#) [李峰](#) [坚润堂](#) [罗思亮](#) [姚巍](#)

昆明理工大学, 昆明理工大学地球科学系, 昆明理工大学, 昆明理工大学, 昆明理工大学

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摘要:

澜沧老厂矿山继上世纪80年代末在钻孔中揭露到花岗岩斑岩细脉以来, 2007年又在ZK153101、ZK14827中揭露了查明隐伏花岗岩体的年代, 本文应用SHRIMP锆石U-Pb同位素法对老厂花岗岩进行了精确的定年, 获得的加表花岗岩的结晶年龄。继承锆石的年龄为 (529.3 ± 13) Ma, 反映了岩浆的源岩年龄。年代学研究表明, 花岗岩成矿母岩。澜沧老厂斑岩钼矿的成岩成矿作用发生在新生代陆内碰撞造山的主碰撞阶段, 与三江地区新生代斑岩钼矿的成岩成矿表明“三江”地区在澜沧江断裂以西也存在新生代斑岩成矿作用。

关键词: [花岗岩斑岩](#), [锆石SHRIMP U-Pb年龄](#), [辉钼矿体](#) [澜沧老厂](#)

Zircon SHRIMP dating of the Laochang granite porphyry and its geological significance
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Abstract:

Following the granite porphyry veins had been exposed by drilling in the 80's of the last century, and main rock mass were successively discovered in ZK153101, ZK14827 drillings hole after 2007. The U-Pb dating of the Laochang granite porphyry for finding out the age of concealed granite porphyry: average age of (44.6 ± 1.1) Ma. This shows the crystalline age of the Laochang granite porphyry. The (529.3 ± 13) Ma, it reflects the age of source rock. The chronology data shows that the granite porphyry and it is mineralization mother rock of Mo ore body. The diagenesis and mineralization of the Laochang place in the main collision stage of the Cenozoic intracontinental collision orogenics, which fits the Metallogenic peak period of porphyry type deposits in the three-river area. This suggests that the Mo deposits in the west of the Lancang River fault.

Keywords: [granite porphyry](#) [zircon SHRIMP U-Pb age](#) [molbdenite body](#) [Laochang in Lancang](#)