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摘要:

采用阴极荧光图像分析、LA-ICP-MS 锆石U-Pb年龄测定方法, 对塔里木盆地中央隆起西北部麻扎尔塔格碱岩体产出的细粒钾长花岗岩中锆石进行了内部结构、微量元素组成分析和U-Pb年龄测定, 表明这两类岩石的成岩年龄为283.3±1.8 Ma, 揭示塔里木盆地北缘二叠纪早期存在碱性基性岩浆活动, 为塔里木地区石炭—二叠纪地幔柱岩浆活动产找矿方向研究提供了重要证据。

关键词: [塔里木盆地](#) [麻扎尔塔格](#) [碱性杂岩体](#) [LA-ICP-MS](#) [锆石U-Pb年龄](#)

The Zircon U-Pb Age of Mazha' er Tage Alkalic Complex in the Tarim Basin and Its Geological Significance [Download Fulltext](#)

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Abstract:

By using the Cathode fluorescence image analyse and LA-ICP-MS U-Pb age dating method of zircon trace element compositions and U-Pb age of the zircons of pyroxene syenite and fine potash-feldspar vein in the complex body of Mazhaertage located in the northwest of central uplift in Tarim basin. The results of zircon analysis show that the diagenesis ages of two types of rock are 283.3±1.8 Ma separately, these dates open out that there is the activity of alkaline magma during early Permian in Tarim basin, and provide the important evidence of mantle plume magmatism and direction of research exploration about diamond, oil and gas from the Carboniferous to Permian period.

Keywords: [Tarim Basin](#) [Mazha' er Tage](#) [Alkalic Complex](#) [LA-ICP-MS](#) [Zircon U-Pb Age](#)

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