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## 内蒙古赤峰金厂沟梁金矿区花岗岩类年代学、地球化学特征及其地质意义

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### 摘要:

本文对内蒙赤峰地区金厂沟梁金矿区内的金厂沟梁、西台子、对面沟花岗质岩体开展了相关研究.金厂沟梁岩体岩性主要为片麻状二长花岗岩,LA-ICP-MS锆石U-Pb测年结果为 $249.9 \pm 1.4$ Ma,为早三叠世.构造环境判别为大陆碰撞造山(CCG).西台子岩体岩性为似斑状二长花岗岩,其LA-ICP-MS锆石U-Pb测年结果为 $216.7 \pm 1.8$ Ma,为晚三叠世,构造环境判别图解中位于后造山(POG)区域.对面沟岩体为早白垩世,其中心相岩性是石英二长斑岩,边缘相是石英二长岩,在构造环境判别图中均属于火山弧环境.结合区域地质资料和前人研究成果,推测古亚洲洋构造域在晚三叠世已到末期,从而进入大陆碰撞造山的末期陆内造山阶段.本文提出岩基对后期成矿的控制作用,认为早于成矿时期所形成的板状侵入体为后期成矿提供必要条件,较为合理的解释金厂沟梁地区金矿分布的成因,并可能具有普遍意义.

### 英文摘要:

This paper studies the granitic rocks of Jinchanggouliang, Xitaizi and Duimiangu in Chifeng area, Inner Mongolia. Jinchang gouliang granitic rocks are mainly composed of gneissose mozonitic granite, the zircon LA-ICP-MS U-Pb dating of it gave an age of  $249.9 \pm 1.4$ Ma, i.e., Early Triassic. These rocks are all plotted in the area of CCG in the diagrams for discrimination of tectonic settings. Zircon LA-ICP-MS U-Pb dating of Xitaizi porphyritic mozonitic granite gave an age of  $216.7 \pm 1.8$ Ma, i.e., Late Triassic. In the diagrams for discrimination of tectonic settings, they are plotted in the area of POG. Duimiangu granitic rocks are composed of beschtaiuite and quartz monzonite, which intruded in Early Cretaceous, the center phase are beschtaiuite, while the edge phase are quartz monzonite. In the diagrams for discrimination of tectonic settings, they are plotted in the VAG area. Combined with previous studies and the regional geology, in the Late Triassic, Paleo-Asian Ocean had been ending, and this area had stay in the end of a continental collision orogenic intra continental orogenic stage. This paper puts forward the controlling role of the batholith to the later mineralization, that the plate which is formed before the mineralization provides the necessary conditions for the later mineralization, it reasonably explains the distribution gold in the area of Jinchanggouliang gold field, and may have a universal significance.

**关键词:** [金厂沟梁地区花岗岩](#) [锆石U-Pb年龄](#) [三叠纪](#) [岩基后成矿模式](#) [内蒙古](#)

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