

## 陕西省洛南县莲花沟岩体LA-ICP MS锆石U-Pb年龄及地质意义

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中文摘要: 在西起陕西省的金堆城地区,东至河南省栾川南泥湖-三道庄-上房沟、嵩县雷门沟地区的华北地台南缘的东秦岭钼矿带上产出的南泥湖、三道庄、上房沟等一系列钼矿床,均与燕山期中酸性小岩体成矿关系密切,并且成岩成矿年龄集中在110~160 Ma.同样位于该钼矿带上的洛南县莲花沟岩体,其侵位特点与岩石化学特征非常相似.笔者从陕西省洛南县莲花沟岩体地质背景入手,通过LA-ICP-MS锆石U-Pb定年,获得莲花沟岩体年龄为(147.7±2.0)Ma.恰处于东秦岭钼主成岩成矿年龄范围,这对进一步指导该区的找矿工作,具有重要地质意义.

中文关键词: [侵入岩体](#) [U-Pb年龄](#) [地质意义](#) [洛南](#) [莲花沟](#)

## U-Pb Age of the Lianhuagou Intrusive Rocks in Luonan County, Shaanxi Province and Its Geological Implications

**Abstract:** Lying in the area from Jinduicheng of Shaanxi Province to Nannihu-Sandaozhuang-Shangfanggou in Luanchuan County and Leimengou in Songxian County of Henan Province, the East Qinling molybdenum belt in the south of the North China Plate possesses such large-superlarge Mo deposits as Nannihu, Sandaozhuang and Shangfanggou. These ore deposits are related to the Yanshanian intermediate-acid intrusive rocks, with the rock-forming and ore-forming ages concentrated on 110~160 Ma. The Lianhuagou intrusive rocks are located in the East Qinling belt, and their magmatic bodies and petrochemical characteristics are very similar to each other. This paper emphatically studied regional geological settings, and obtained a U-Pb age of (147.7±2.0)Ma by means of LA-ICP MS for Lianhuagou intrusive rocks in Luonan County. This age falls into the Mo-bearing range of the East Qinling belt, thus having great geological implications for further regional prospecting.


**keywords:** [intrusive rocks](#) [U-Pb age](#) [geological implications](#) [Luonan](#) [Lianhuagou](#)

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