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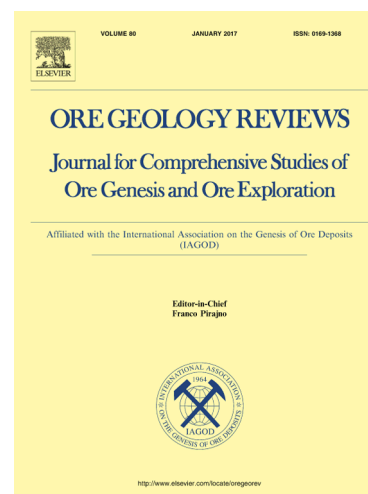
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# Isotope geochemistry and geochronology of the Niujuan silver deposit, northern North China Craton: Implications for magmatism and metallogeny in an extensional tectonic setting

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## Abstract

The Niujuan breccia-type silver deposit forms part of the North Hebei metallogenic belt along the northern margin of the North China Craton. The Hercynian Baiyingou coarse-grained granite and the Yanshanian Er'daogou fine-grained granite are the major Mesozoic intrusions exposed in this region. Here we investigate the salient characteristics of the mineralization and evaluate its genesis through zircon U-Pb and fluorite Sm-Nd age data, and Pb, S, O, H, He and Ar isotope data. The orebodies of the Niujuan silver deposit are hosted in breccias, which contain angular fragments of the Baiyingou and Er'daogou granitoids. The  $\delta^{34}\text{S}$  values of pyrite from the silver mineralized veins range from 2.4‰ to 5.3‰. The  $^{206}\text{Pb}/^{204}\text{Pb}$ ,

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