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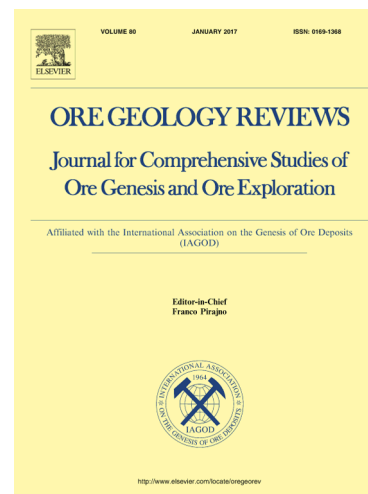
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## Structural controls on the Lala Iron-Copper Deposit of the Kangdian metallogenic province, southwestern China: Tectonic and metallogenic implications

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**ABSTRACT:** The Lala Fe-Cu deposit is a typical iron-oxide copper-gold (IOCG) deposit of the Kangdian region, southwestern China. Structural controls on the orebodies are suggested but not well-understood. Herein, structural analysis is conducted in the Luodang open-pit of the Lala deposit. It reveals that the Lala deposit has undergone multiple deformation events. The D1 stage is the earliest and corresponds to a late Paleoproterozoic rifting, resulting in the Hekou Group (host rock) deposition and the development of bedding-parallel foliation. The D2 event is syn-mineralization and coincident with an ESE-trending compression. During the D2 compression, the bedding-parallel foliations were preferentially dilated and facilitated

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