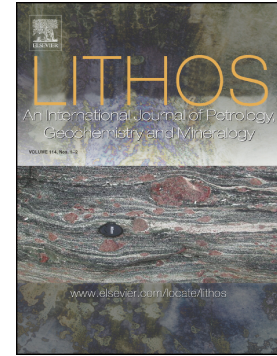


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Highly differentiated magmas linked with polymetallic mineralization: a case study from the Cuihongshan granitic intrusions, Lesser Xing'an Range, NE

China

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Abstract

The genetic link between granitoids and polymetallic skarn mineralization has remained equivocal. The Cuihongshan skarn-porphyry W-Mo-Pb-Zn-(Fe-Cu) deposit in the eastern part of the Central Asian Orogenic Belt provides a unique example to address this issue. The major rock types in the mine area are Early Paleozoic intrusions composed of biotite syenogranite and biotite porphyritic granite and Early Mesozoic intrusions represented by porphyritic quartz monzonite, biotite monzogranite, and porphyritic granite. The diagnostic mineralogical and geochemical features indicate that the rocks belong to A2-type granites. The Early Paleozoic suite shows zircon U-Pb ages of ~501 Ma, and $\epsilon_{\text{Hf}}(t)$ values of -4.4 to +2.7 and +2.4 to +7.6,

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