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Although the Pan African basement of Cameroon has been widely studied, recent scrutiny of mineralization within these granitoids has spurred more research on their petrology. Zircon compositional data is exceedingly rare, despite the fact that age data is commonly accessible.

This review uses magmatic zircon data (trace and rare earth elements) from published works in the eastern goldfield of Cameroon, to establish the regional trend of the ...

We derive a novel method for determining the oxidation state of a magma as zircon crystallized, with a standard error of ± 0.6 log unit fO_2 , using ratios of Ce, U, and Ti in zircon, without explicit ...

examine the application of zircon trace element compositions for petrogenetic constraints, and we used the Ti-in-zircon thermometer to determine the crystallization temperature of the magma.

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The Lint²³³ area belongs to the central part of the Adamawa-Yad²³³ Domain (AYD) within the Pan-African Central African Fold Belt (CAFB) in Cameroon. This area is dominated by Neoproterozoic high-K calc-alkaline syenite and monzonite intruding Archean to Palaeoproterozoic gneisses.

Cameroon, has potential for uranium and molybdenum mineralization. Here, we present LA-ICP-MS U-Pb ages, Lu-Hf isotope characteristics, trace element concentrations and Ti-geothermometry of zircon from this granite hosting U-Mo mineralization in pegmatitic pods. The majority of zircon are CL-dark though some CL-bright cores were also ...

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The Ekomedion two-mica granite, southwestern Cameroon, has potential for uranium and molybdenum mineralization. Here, we present LA-ICP-MS U-Pb ages, Lu-Hf ...

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