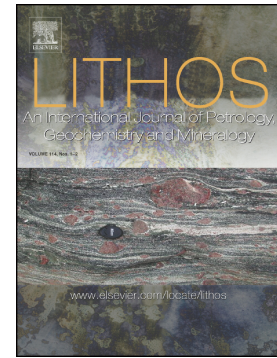


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**The formation of the world-class Zhuxi scheelite skarn
deposit: implications from the petrogenesis of
scheelite-bearing anorthosite**

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Abstract

A quartz-free scheelite-bearing fine- to medium-grained anorthosite occurs as a dike in the world-class Zhuxi scheelite skarn deposit of South China. The anorthosite mainly comprises An-rich plagioclase ($An_{avg}=91$, ~90 vol.%) + scheelite (~3 vol.%) + apatite (~2.5 vol.%) + ilmenite (~1.5 vol.%) + titanite (~1 vol.%), as well as minor (~2 vol.%) fluorite, prehnite, chalcopyrite, pyrrhotite, pyrite, sphalerite, rutile, and uraninite.

This paper reports the first occurrence of scheelite-bearing anorthosite of

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