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四川会理小青山铜(金)矿钠长石英板岩的发现及其意义 [点此下载全文](#)

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摘要:

四川会理小青山铜(金)矿区的钠长石英板岩主要由钠长石及石英组成。钠长石英板岩的化学成分中富有SiO<sub>2</sub>、Al<sub>2</sub>O<sub>3</sub>及Na<sub>2</sub>O, 贫K<sub>2</sub>O, FeO及MgO; 稀土元素特征为: ΣREE=3013-42.11, ΣCe/ΣY=1.80-1.98, δEu=0.23-0.34, δCe=0.48-0.59。

关键词: [钠长石英板岩](#) [钠交代作用](#) [铜矿床](#) [金矿床](#)

The Discovery of Adinole in the Xiaoqingshan Copper (Gold) Deposit, Huili County, Sichuan Province [Download Fulltext](#)

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Abstract:

Na-metasomatic rocks in Xiaoqingshan, Huili County, Sichuan Province, have been recognized as adinoles. The rocks are distributed along major faults or adjacent to small mafic intrusions. The protolith of adinoles is metapelites, such as sericite phyllite and carbonaceous slate. The adinoles consist of albite, quartz and minor tourmaline and rutile. They are characterized by various kinds of metasomatic textures. Most of the rocks were superposed by late alteration marked by the assemblage of carbonate-chlorite-pyrite-auriferous chalcopyrite. Mass balance calculation indicates that K<sub>2</sub>O, MgO, FeO, Fe, Rb, Ba and REE were removed from the metapelites, while Na<sub>2</sub>O and SiO<sub>2</sub> were added. In contrast, Al<sub>2</sub>O<sub>3</sub> was almost immobile. It is important that Cu (Au) mineralization occurred during the metasomatizations. The authors suggest that alkaline fluids from the deep levels were responsible for the Na and late-stage metasomatism and mineralization during the extension of the crust.

Keywords: [adinole](#) [Na-metasomatism](#) [copper \(gold\) deposit](#) [Huili County](#) [Sichuan Province](#)

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