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贵州板其原生金矿石氧化焙烧——氧化浸出的研究 [点此下载全文](#)

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摘要:

贵州板其原生金矿石属碎屑岩类微细浸染型难选冶矿石, 在氧化浸出之前需进行预处理。采用化学分析、X射线衍射、红外光谱、扫描电镜等方法, 研究了矿石经不同温度氧化焙烧后各组成矿物结构变化与金的浸出率变化关系, 对焙烧法预处理工艺的微观研究进行了新的探索和尝试。其结果可望有助于矿床成因, 构造控矿等方面的微观研究。

关键词: [金矿](#) [金矿石](#) [氧化焙烧](#) [氧化浸出](#) [矿物结构](#)

X-ray Powder Diffraction and Infrared Spectroscopic Studies of Roasted and Cyanide Infused Primary Gold Ore at the Banqi Gold Deposit, Guizhou [Download Fulltext](#)

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Abstract:

Primary gold ore from Bangqi, Guizhou, belongs to a clastic-type, finely disseminated, refractory particles. It is difficult to extract gold from the ore by cyanide infusing. So a pretreatment should be performed on the primary ore before cyanide infusing. By means of chemical, X-ray powder diffraction, infrared spectroscopic and scanning electron microscopic analyses the relationship between the change of the mineral structure and the quantity of Au cyanide infused from the ore samples after roasting in air at different temperatures has been studied. This paper explores the microstructure of these samples and its application in the pretreatment. The result obtained may be useful for the study on the genesis and structural control of the ore.

Keywords: [gold ore](#) [Banqi](#) [Guizhou](#) [roasting in air](#) [structure of mineral](#)

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