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贵州老万场红土型金矿地球化学特征及其成因 [点此下载全文](#)

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摘要:

对贵州西南部晴隆老万场红土型金矿与相关岩石(矿石)和喀斯特红土等进行了常量元素、微量元素和稀土元素地球化学比较研究, 阐明了矿床的各类元素的地球化学特征, 追溯了矿床的物质来源。研究表明, 本类红土型金矿的物质来源是高硅质(石英)、富铁质(黄铁矿等)的富金矿(岩)石; 具有Au-As-Sb-Hg-Tl-W-Ag-Ba的微量元素组合特征, 与卡林型金矿十分相似, 是原始卡林型金矿风化演化的产物。常量元素和稀土元

关键词: [红土型金矿](#) [地球化学](#) [红土化作用](#) [贵州](#) [成因](#)

Geochemical Features and Genesis of the Laowanchang Lateritic Gold Deposit in Guizhou [Download Fulltext](#)

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Fund Project:

Abstract:

Comparative studies have been conducted on the macroelement, microelement and REE geo-chemical characteristics of the Laowanchang lateritic gold deposit and its related rocks and/or ores and karst laterite in Dinglong county, southwestern Guizhou. The studies indicate that the material source of this type of lateritic gold deposit is Au-rich rocks and/or ores with high siliceous material (quartz SiO<sub>2</sub>) and rich ferruginous material (pyrite etc.). The deposit is very similar to the Carlin type gold deposit with respect to the Au-As-Sb-Hg-Tl-W-Ag-Ba microelement association. So it is considered to be the product of weathering evolution of a primary Carlin type gold deposits. Macroelement and REE geochemical studies indicate that ores of this lateritic gold deposit possess mixed features of the weathering product of a primary Carlin type gold deposit and karst laterite. The ore-forming process is as follows: the Carlin type gold deposit overlying the limestone of the Early Permian Maokou Formation collapsed and piled up in an ore-holding system with a negative karst landform during karst processes; then the primary orebodies were weathered and soil was formed, accompanied by karst lateritization. Karst lateritization imparted the features of laterite to the ores and also lowered the gold ore grade of the primary gold deposit.

Keywords: [lateritic gold deposit](#) [geochemistry](#) [lateritization](#) [Guizhou](#)

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