

变质细碎屑岩型金矿床的三阶段模式

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作者

[王秀璋](#), [程景平](#), [梁华英](#), [夏萍](#), [单强](#)

单位

[中国科学院广州地球化学研究所](#)

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中文摘要:变质细碎屑岩型金矿床在国内外分布广泛,其中部分矿床具有超大型规模。矿床由三个阶段形成:沉积阶段在相对半封闭还原海盆中发育,常夹火山物质及热水沉积且富含碳、硫、金的浊流沉积物,构成了金的矿源层;区域变质阶段随温度、压力增高,有机质破坏,粘土矿物消失,金被释出、归并、定向迁移、集中得到初步富集;成矿阶段的构造热液事件使金从变质细碎屑岩中淋出、迁移,或与其他来源的金汇集、沉淀构成矿床。矿床可分活化带型及造山带型,成矿主要为改造作用产物,少数矿床可能有岩浆叠加作用发生。

中文关键词:[沉积矿源层](#) [区域变质富集](#) [活化带及造山带成矿](#) [改造及叠加](#) [三阶段模式](#)

Three-stage metallogenic model for gold deposits of metamorphosed fine-clastic rock type

Abstract: Gold deposits of metamorphosed fine-clastic rock type are widely distributed both in China and abroad, with some of them being supergiant in size. The formation of these deposits might be divided into three stages: sedimentary stage, regional metamorphic stage and ore-forming stage. At the first stage, source beds of microclastic sediments, rich in carbon, sulfur and gold, were developed in a relatively euxinic semirestricted reducing basin. At the second stage, with the increase in temperature and pressure, organic matters were destroyed, clay minerals disappeared, and gold absorbed in these materials was released, and then attained preliminary enrichment through oriented migration and concentration. At the third stage, due to the action of the structural-hydrothermal event, gold was leached from metamorphosed microclastic rocks, moved to the favorable place, sometimes mixed with gold from other sources during its migration, and eventually formed ore deposits through precipitation. Gold deposits of this type can be further classified into activated zone type and orogenic belt type. They are mainly products of reworking with a few affected by magmatic superimposition.

keywords:[sedimentary source bed](#) [regional of activated zone and orogenic belt](#) [transformation metamorphism and enrichment](#) [mineralization and superimposition](#) [three-stage model](#)

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地址:北京市百万庄大街26号 邮编:100037 电话:010-68327284;010-68999546 E-mail: minerald@163.net
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