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富金斑岩铜矿床研究进展 [点此下载全文](#)

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摘要:

富金斑岩型铜矿床作为斑岩型矿床的一类, 自20世纪70年代起逐渐引起了人们的重视。近年来又取得了几个方面: ①富金斑岩型铜矿不仅在全世界范围内大量发现, 而且部分矿床规模巨大; ②绝大多数富金斑岩型矿床以第三纪最为普遍; ③富金斑岩型铜矿床不仅仅发育于汇聚板块边缘的岩浆弧环境, 在大陆碰撞带甚至是陆内环矿斑岩绝大多数为钙碱性岩浆系列, 但部分矿床与高钾钙碱性(甚至钾玄质)岩浆密切相关; ④富金斑岩型矿床时代、含矿斑岩性质、围岩性质、蚀变与矿化类型等因素关系不大, 而主要受地幔岩浆过程、岩浆热液过程

关键词: [富金斑岩型铜矿](#) [大地构造背景](#) [高钾钙碱性岩浆](#) [富金机制](#)

Progress of Research on the Characteristics and Genesis of Gold Rich Porphyry type Deposits [Download Fulltext](#)

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Abstract:

The gold rich porphyry copper deposits, one group of porphyry deposits, have aroused much attention after 1970s. On the basis of previous researches in classification, distribution, geological epoch settings, intrusive rock compositions, and hydrothermal alteration mineralization types, a great deal of progress has been made in recent years, which can be summarized in following five aspects. ① Gold rich porphyry Cu deposits are discovered worldwide and most of them are large scale. ② The most gold rich porphyry Cu deposits discovered are Cenozoic and Mesozoic, commonly Tertiary. ③ Gold rich porphyry Cu deposits occur commonly in magmatic arcs at convergent plate boundaries, but a great number of such deposits are found recently in the continental intracontinental environments. ④ Most of the ore bearing porphyry are calc alkaline magmas series. This kind are closely related to high K calc alkaline and shoshonitic magmas. And finally, the characteristics of gold rich porphyry type deposits has little relation with geotectonic setting, metallogenic age, intrusives composition, hydrothermal alteration mineralization types, but are controlled by mantle hydrothermal process and hydrothermal process.

Keywords: [gold rich porphyry Cu deposit](#) [geotectonic setting](#) [high K calc alkaline magmas](#) [gold rich mechanism](#)