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摘要:

五台山区的金矿床都是叠加成因的矿床。金源层的微量分散金, 被构造热事件所活化, 迁移到容矿构造中成矿, 致使金品位逐次升高, 形成矿床。这些金矿床具多源性、多期性、多成因和多类型叠加之特征。

关键词: [构造热事件](#) [金矿床](#) [容矿构造](#) [成因](#) [活化作用](#) [叠加成矿](#)

FEATURES OF MULTI-SOURCE, POLY-PERIOD, POLY-GENETIC AND-POLY-TYPE SUPERPOSITIONAL MINERAL DEPOSITS IN THE WUTAI MOUNTAIN, SHANXI [Download Fulltext](#)

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Fund Project:

Abstract:

The Wutai Mountain area is one of the gold-producing districts in China, where there occur Wutai stratabound gold deposits, vein gold deposits in Proterozoic-Mesozoic ductile and brittle shear zone carbonate stratabound gold deposits. The gold is believed to be mainly derived from granite-greenstone conglomerate at the base of the Hutuo Group, carbonate rocks of the Changchen System, Proterozoic and granitic plutons. During the Wutai period, Hutuoan, middle-late Proterozoic and Yanshanian multiple activities, influenced by deep faults, regional metamorphism, magmatism and infiltrating fluids, scale-hosted structures such as bedding shear zones, ductile shear zones, brittle shear zones, interlayer intersecting fracture sets. Gold deposits were formed by superimposition of a variety of gold ore forming various types of ore solutions such as the H<sub>2</sub>O-CO<sub>2</sub>, H<sub>2</sub>-Na<sup>+</sup>, K<sup>+</sup>-Cl<sup>-</sup> type, H<sub>2</sub>O-H<sub>2</sub>-Ca<sup>++</sup>, Na<sup>+</sup>-H<sub>2</sub>-Ca<sup>++</sup>, K<sup>+</sup>-SO<sub>4</sub><sup>2-</sup>-HCO<sub>3</sub><sup>-</sup> type, H<sub>2</sub>O-CO<sub>2</sub>-Ca<sup>++</sup>, K<sup>+</sup>-Cl<sup>-</sup>-HCO<sub>3</sub><sup>-</sup> type, CH<sub>4</sub>-CH<sub>4</sub>-CaCO<sub>2</sub>-Ca<sup>++</sup>, K<sup>+</sup>-F<sup>-</sup>-HCO<sub>3</sub><sup>-</sup> type in various structural environments, e.g. at deep levels, relative levels and ground surface. Each deposit underwent mineralization 2 or 3 times and shows the features of period, poly-genetic and poly-type superpositional mineralization. Most of the gold deposits in the area show the above features.

Keywords: [Wutai Mountain](#) [Shanxi](#) [gold deposits](#) [multi-source](#) [poly-period](#) [poly-genetic and poly-mineralization](#)