Evidences from Zircon Structures for the Origin of Zhaoanzhuang Iron Deposit in Henan Province

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Abstract: The Zhaoanzhuang iron deposit in Henan Province, hosted within Taihua Group along the southern North China Craton, is characterized by the occurrence of magnetite and serpentine (residual olivine), and associatedapatite, anhydrite and carbonate minerals, which is unique in the world's early Precambrian iron deposits. Due to high-grade metamorphism and concealment, the research on the Zhaoanzhuang iron orebodies is poor. There are two genetic model proposed, volcanic concealment, the research on the Zhaoanzhuang iron deposits. Due to high-grade metamorphism and carbonate minerals, which is unique in the world's early Precambrian iron deposits. There are two genetic model proposed, volcanic concealment, the research on the Zhaoanzhuang iron orebodies is poor. There are two genetic model proposed, volcanic concealment, the research on the Zhaoanzhuang iron deposits. Due to high-grade metamorphism and carbonate minerals, which is unique in the world's early Precambrian iron deposits.

Key words: serpentine-magnetite ores, zircon structure, Zhaoanzhuang iron deposit, southern North China Craton

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References

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Fig. 1. The zircon occurrences and CL images in the surrounding rocks in contact with ores from the Zhaoanzhuang iron deposit.