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桐柏蔡家凹岩片内寒武纪高肌虫的发现及其地质意义 [点此下载全文](#)

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摘要:

本文描述了河南桐柏西北部蔡家凹大理岩丰富的高肌虫化石 *Tongbaiella xinjiensis* gen. et sp. nov., *Xiangzheella henanensis* sp. nov. 和 *Mononotella* cf. *chuanshanensis* Huo et Shu 及小壳化石 *Conotheca* sp. 共有 4 属 4 种。据此确定含化石地层为寒武系, 属浅海沉积环境。该生物群的发现为解决桐柏大别造山带与

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Cambrian Bradoriids from Caijia'ao Marble Body, Tongbai, Henan and Their Geological Significance [Download Fulltext](#)

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Abstract:

Caijia'ao marble body is a upper superimposed on the Guozhuang litho-formation of Lower Proterozoic, and bounded by the Haohanpo ductile-shear zone and Songpa ductile fracture. That marble body may originally be a part of the Cambrian Liushanyan litho-formation, according to the results of 1:50000 regional geological survey in the Tongbai area. However, the Caijiawa marble was placed into the Proterozoic Yindonggou Formation of the Maojie Group, or into the Cambrian Dahe Formation, and correlated with the Yanlinggou Formation of the Qingling Group by previous researchers. That marble, about 30 km long and 50-1000 m wide, crops out about 15 km away from northwest Tongbai. It consists of serpentinous olivine marble, dolomite marble, dolomitic marble, graphite marble, and marble intercalated with plagioclase hornblende schist. Fairly abundant bradoriids including *Tongbaiella xinjiensis* (gen. et sp. nov.), *Xiangzheella henanensis* (sp. nov.), and *Mononotella* cf. *chuanshanensis*, a few small shelly fossils *Conotheca* sp., and some spherical fossils have been found from the crystalline limestone lens in the Caijiawa marble, Xiemaling Hill, Laoheshangmao Hill and Wawuzhuang Village, Tongbai County. Those fossils the Cambrian (most possibly Early Cambrian) in age. This is the only locality of Cambrian rocks with sufficient paleontological evidence in the Tongbai-Dabie orogenic belt (Henan part). Bradoriids of Caijiawa marble such as *Xiangzheella* and *Mononotella* *chuanshanensis* are the very common members of contemporaneous bradoriids of the South China region. Among them, *Xiangzheella* was found in the Yangtze biogeographic and Jiannan Provinces; while *Mononotella* in the western part of the Yangtze biogeographic province. Furthermore, *Conotheca* came from the South China biogeographic province of small shelly fossils.

Keywords: [bradoriids](#) [Cambrian](#) [Tongbai-Dabie orogenic belt](#) [Tongbai](#)

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