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前寒武纪地质学在当代地球科学中的地位与作用 [点此下载全文](#)

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摘要:

前寒武纪地质学是地球科学的主要研究领域之一。在前寒武纪岩层中蕴藏着丰富的矿藏, 为人类的生存和发展提供了大量的有用资源。前寒武纪还是大陆地壳生长的主要时期, 大陆地壳的形成、成因、演化过程及其模式是地球科学家最关心的问题之一。现在出露地表的前寒武纪中、深变质岩已成为研究深部地壳的窗口, 为岩石圈研究开辟了新途径, 提供了新信息。而生命起源及其早期演化则必须依赖前寒武纪地层中的生命化石记录进行研究。纵观地球科学的发展历史, 前寒武纪地质学是地球科学中其它分支学科无法替代的研究领域。

关键词: [前寒武纪](#) [地质学](#) [地球科学](#) [地位](#) [作用](#)

POSITION AND ROLE OF PRECAMBRIAN GEOLOGY IN EARTH SCIENCES [Download Fulltext](#)

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Abstract:

Precambrian geology is one of the major research fields of earth sciences. There are abundant mineral resources in the Precambrian rock formations, on which the survival and development of mankind depend. And the Precambrian was a main period of the growth of the continental crust. Therefore the origin, formation and evolution of the continental crust and their model are some of the most important problems to which earth scientists pay close attention. The outcrops of the Precambrian middle- to high-grade metamorphic rocks are regarded as "windows" for studying the deep levels of the crust, which starts a new means and provides new information for the lithospheric research. The study of organic origin and its early evolution must be based on fossils in Precambrian strata. Through an overview of the development history of earth sciences, the author holds that Precambrian geology is a significant research field that can not be replaced by other subdisciplines of earth sciences.

Keywords: [Precambrian](#) [mineral resources](#) [continental growth](#) [organic evolution](#)

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