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关于峡东陡山沱组具刺疑源类化石研究的补充 [点此下载全文](#)

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摘要:

在峡东陡山沱组黑色燧石中前人报道了多种多样的具刺疑源类化石，笔者最近重新研究了陡山沱组岩石切片三维地保存了几乎没蚀变的条件下，这个生物群落包括Filisphaeridium, Baltisphaeridium, Comasphaeridium和Tianzhushania在外表及形态上可与产自挪威斯瓦尔巴德群岛晚里菲岩层中的Trachyhystriochosphaera aimika。aimika是晚前寒武纪最特殊和分布最广的一个分子，目前已知至少产自世界上15个地区的晚里菲岩层中，对于出色的指示化石，产自陡山沱组的Tianzhushania似乎支持Butterfield的观点，即：陡山沱组硅化碳酸盐沉积的时期，但是，由于化石只发展于少数岩石薄片上，因此，这些化石或许只代表峡东陡山沱组局部的生态环境及化石的保存。

关键词: [化石](#) [具刺疑源类](#) [陡山沱组](#) [震旦系](#) [湖北](#) [沉积环境](#)

An Additional Study on Spinose Acritarchs from the Doushantuo Formation in the Eastern Gorges [Download Fulltext](#)

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Fund Project:

Abstract:

The diversified spinose acritarchs have been reported in the Doushantuo black cherts from eastern China. The writer has restudied the spinose acritarchs in thin sections of the Doushantuo Formation. The microfossils are dimensionally preserved in a structurally little altered condition. The assemblage includes Filisphaeridium, Baltisphaeridium, Comasphaeridium and Tianzhushania. Among the taxa, Tianzhushania is comparable in size to Trachyhystriochosphaera aimika from the Svanbergfjellet Formation in northeastern Spitsbergen. Trachyhystriochosphaera aimika, one of the most distinctive and widely distributed of the late Proterozoic acritarchs, now known from all over the world, it occurs in rocks of Late Riphean age and appears to be an excellent index fossil for the Neoproterozoic. Tianzhushania from the Doushantuo Formation appears to support the about-mentioned view. If it is true, it seems that the sediments of the Doushantuo Formation are older than the diverse Ediacaran assemblage. As fossils are only found from a handful of the thin sections, these microfossils may represent the environment from the Doushantuo Formation in eastern Yangtze Gorges. The sedimentary environment and the tectonic environment of the Doushantuo Formation is discussed in this paper.

Keywords: [spinose acritarch](#) [Doushantuo Formation](#) [Siniian System](#) [eastern Yangtze Gorges](#) [Hubei](#)