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从砂岩成分探讨吐哈盆地构造演化 [点此下载全文](#)

[邵磊 Stattegger.](#)

[1]同济大学海洋地质教育部重点实验室, 上海200092 [2]Institute

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摘要:

陆源碎屑岩是陆相沉积盆地的主要充填物, 其成分主要受物源区母岩成分控制。通过系统分析碎屑岩成分特点可以再造沉积盆地的构造演化历史。对吐哈盆地分别采用岩矿和地球化学分析手段进行系统分析, 结果显示两种分析所得结构吻合性极好, 反映盆地的构造演化分为二叠纪、三叠纪—侏罗纪以及白垩纪—第三纪3个演化阶段, 在各阶段地层成分出现较大差异, 是盆地及相邻地区遭受构造运动改造的结果。

关键词: [砂岩](#) [沉积岩石学](#) [盆地演化](#) [吐哈盆地](#) [盆地构造](#) [陆源碎屑岩](#)

Determination of Tectonic Evolution of the Turpan Basin from Sandstone Components [Download Fulltext](#)

SHAO Lei, DU Fei, Karl STATTEGGER Laboratory of Marine Geology, Tongji University, Shanghai 200092, P. R. China Institute of Geoscience, University of Kiel, Germany

Fund Project:

Abstract:

Terrigenous sedimentary rocks are the dominant rock types in a continental sedimentary basin. The components of these rocks are mainly controlled by source rocks. Through systematical analysis of the components of terrigenous sedimentary rocks, the tectonic evolution of a sedimentary basin can be reconstructed. The Turpan Basin was examined using sandstone petrologic and geochemical methods and good consistency was obtained between the petrologic and geochemical results, indicating that the tectonic evolution of the basin can be divided into three stages: the Permian, the Triassic and Jurassic, and the Cretaceous and Tertiary. The components of sandstones of these three stages are different, which reflect the influence of tectonic movements on the evolution of the basin and surrounding areas.

Keywords: [sandstone](#) [sedimentary petrology](#) [basin evolution](#) [Turpan Basin](#)

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