



葛宁洁, 柏林. 大别山麻粒岩和TTG片麻岩的Sr, Nd, Pb同位素地球化学[J]. 地质学报, 2001, 75 (3) :379-384

大别山麻粒岩和TTG片麻岩的Sr, Nd, Pb同位素地球化学 [点此下载全文](#)

[葛宁洁](#) [柏林](#)

[1]中国科学技术大学地球与空间科学系, 合肥230026 [2]安徽省地质学会, 合肥230001

基金项目: 国家自然科学基金(编号49673197), “大陆深俯冲和折返过程中壳幔及岩石圈和软流圈之间的相互资助的成果

DOI:

摘要点击次数: 122

全文下载次数: 86

摘要:

北大别4个麻粒岩和4个TTG片麻岩样品的Sr, Nd同位素分析结果表明, 样品普遍具有较高的锶同位素比值, 较低的Nd同位素比值 ($^{143}\text{Nd}/^{144}\text{Nd}=0.5108-0.5124$), 表现出明显的壳源特征, 结合铅同位素的组成来看, 锶同位素成分相当于一地壳。岩石的特源为古老的地壳, 大约在2-3Ga之间, 少数样品的同位素特征可能暗示源区有

关键词: [麻粒岩](#) [TTG片麻岩](#) [大别山](#) [锶](#) [钕](#) [铅同位素](#) [地球化学](#)

Sr, Nd and Pb Isotope Geochemistry of Granulites and TTG Gneisses from the North Dabie Orogen
[Fulltext](#)

GE Ningjie, LI Huiyu, QIN Liping, HOU Zhenhui, BO Linl) Department of Earth and Space Sciences, University of China, Hefei, Anhui, 230026 2) Geological Society of Anhui Province, Hefei, Anhui, 230001

Fund Project:

Abstract:

Sr, Nd and Pb isotope analysis of four granulite samples and four gneiss samples from the northern Dabie Orogen was carried out. All the samples have relatively high Sr isotope ratios ($^{87}\text{Sr}/^{86}\text{Sr}=0.706-0.746$) and low Nd isotope ratios ($^{143}\text{Nd}/^{144}\text{Nd}=0.5108-0.5124$). These results together with Pb isotopic compositions suggest that the granulites and TTG gneisses of the northern Dabie Orogen are equal to those of the younger crustal materials in their sources. The Sr-Nd-Pb isotopic characteristics of some of the samples show that these rocks are very old, c. 2-3Ga.

Keywords: [Sr](#) [Nd](#) [Pb isotope](#) [granulite](#) [TTG gneiss](#) [the North Dabie orogen](#)

[查看全文](#) [查看/发表评论](#) [下载PDF阅读器](#)