



于学峰, 唐好生, 韩作振, 李长有. 山东郯山-龙宝山地区与碱性岩有关的稀土矿床地质特征及成因[J]. 地质学报, 2014, 38(1): 1-10.

山东郯山-龙宝山地区与碱性岩有关的稀土矿床地质特征及成因 [点此下载全文](#)

[于学峰](#) [唐好生](#) [韩作振](#) [李长有](#)

山东省地质科学研究所, 276125, 临沂

基金项目: 本文为国家自然科学基金项目(编号40572136)和全国地层委员会课题(编号1212010511702)联合项目

摘要点击次数: 712

全文下载次数: 570

摘要:

郯山和龙宝山稀土矿具有相似的成矿地质背景、控矿岩体特征及矿床地质特征。燕山早期碱性侵入岩与矽线岩共存于杂岩体内及其附近围岩中; 稀土元素和同位素研究表明, 含矿质的富碱岩浆可能属壳幔混源型, 碱性岩浆及幔同一部位, 而在岩浆上侵过程中同化混染了地壳物质。郯山稀土矿为单一富轻稀土矿床, 矿脉类型以含稀土矿物以氟碳铈矿和氟碳钙铈矿为主, 碳酸铈钠矿和菱钙铈矿属国内首次发现。龙宝山稀土矿为稀土、金共生矽线角砾岩; 含稀土矿物主要有氟碳铈矿、氟碳铈镧矿、氟碳钙铈矿; 金矿物有自然金、银金矿等。成矿时代稍晚于晚白垩世; 矿床成因类型为碱性岩浆期后中-低温热液稀土矿床。

关键词: [稀土矿床](#) [碱性岩](#) [地质特征](#) [壳幔混源](#) [山东郯山](#)

Geological Characteristics and Origin of Rare Earth Deposits Related with Alkaline Rock Area in Shandong Province [Download Fulltext](#)

[yuxuefeng](#) - - -

shddky, -, - and -

Fund Project:

Abstract:

Rare earth deposits in Chishan and Longbaoshan area have similar geological mineralization characteristics and geological characteristics of deposits. Alkaline intrusive rock in early Yanshan period coexists with rare earth deposit. Rare earth ore bodies mainly occurred in complex and country rocks in situ. According to the study on rare earth elements and isotope results, it is regarded that ore-bearing alkaline magma belongs to crust-mantle magma source mixed type, and alkaline magma and ore-forming materials may come from different parts of the mantle, while crust materials were mixed and assimilated in the process of magma intrusion. The rare earth deposit is a single light rare earth deposit. Rare earth bearing carbonate quartz barite veins and silicified breccia veins are its major vein types. Rare earth bearing minerals are mainly composed of harmartite and parisite deposits, while carbonate cerium minerals are mainly composed of fluorocarbonite, fluorocarbonite-lanthanite and fluorocarbonite-calcium cerium. Longbaoshan rare earth deposit is a rare earth and gold deposit. Quartz veins and silicified breccia veins are its major vein types. Gold minerals are mainly composed of native gold and silver gold. Its ore-forming period is later than the formation of igneous rocks in the Mesozoic Yanshan period; It is alkaline magmatic low-temperature hydrothermal rare earth deposit.

Keywords: [Rare earth deposit](#) [alkaline rock](#) [geological characteristics](#) [mixed source from crust](#) [Shandong province](#)