

Rare-earth mineralization in early Carboniferous coals of the Volga-Ural region

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Abstract

© 2014, Allerton Press, Inc. This study presents new ICP spectroscopy data on lanthanide concentrations in early Carboniferous coal deposits in the Volga-Ural region. The results confirmed an overall LREE over HREE enrichment and emphasized the role of carbonate host strata as a major factor that is responsible for REE enrichment and geochemical anomalies. The results of this study were also used to identify the modes of REE occurrences in the organic and inorganic constituents of coal.

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Keywords

forms of element occurrences, fossil coals, inorganic coal material, rare-earth elements, scanning electron microscopy, X-ray microanalysis