研究简报

Am在花岗岩中的吸附行为

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研究了大气、低氧2种条件下,北山地下水中 241 Am在花岗岩及其成岩矿物上的吸附行为,观察了pH 值、核素浓度以及腐殖酸等多种因素对吸附行为的影响,得到了各种条件下Am在花岗岩上的分配系数,并初步 ²⁴¹Am, 其组分磁黄铁矿在吸附中起主要作用。 探讨了吸附机理。实验结果表明,花岗岩能很好的吸附 关键词 Am; 吸附; 花岗岩

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Sorption Behavior of Americium on Granite

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Abstract

In this paper, the sorption behavior of Am on granite and its rock-forming minerals in Beishan gro undwater under the aerobic and anoxic

conditions was studied by batch experiment. The equilibrium time was determined firstly and effec ts of some factors such as concentration of Am.

pH value of aqueous and the presence of humic acid were investigated, and sorption mechanis m was discussed simply. The results of the experiment

show that granite has great adsorptive capacity of Am, and pyrite plays an important part in the s orption behavior.

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