

عنوان مقاله:

Adsorption of Uranium from Aqueous Solution by Nanoporous Silicate MCM-41:pH, Kinetic and Thermodynamic study

محل انتشار:

اولین کنفرانس ملی علوم و فناوری نانو (سال: 1389)

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خلاصه مقاله:

In this study, nanoporous silicates MCM-41 was prepared in various conditions with cetyltrimethylammonium bromide and dodecyltrimethylammonium bromide as template. The adsorbents was characterized using XRD, SEM, TEM and BET. The distribution coefficient of uranium ion on the nanoporous silicates MCM-41 was enhanced in the synthesized adsorbent by C12TAB. Adsorption behavior of uranium on the adsorbents was studied. The effect of pH and adsorption kinetics was also studied using batch method.

کلمات کلیدی:

Nanoporous, MCM-41, Adsorption behavior, Uranium

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