

عنوان مقاله:

Cesium sorption stu dies on mesoporous MCM-F1 impregn ated with potassium zinc hexac yanoferrate

محل انتشار:

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خلاصه مقاله:

The m anagement of radioactive wastes has become a major concern, particularly with regard to the release of r adioactive m aterials in the environm ent. IMVCs and IMACs are among the main fission products in radioactive wastes [1]. Among various inor ganic ion-exchange materials exhibiting selecti ve sorption properties for radiocesium, the hexacyanoferrates of transition elements have been studied extensively due to the stabilizing effect of the large cesium ion on the crystal structu re of the s orbent. MC M-F1 is on e of the im portant inorganic adsor bents, which possess unique features such as large uniform pore sizes (\.\(\infty\)-\(\lorepsilon\) nm), highly ordered nanochannels and large surface areas (~\\0.00 mY/g), and large pore volu me with re gular hexagonal structu re [Y]. In this work, Mesoporous MCM-F\ .was chosen for supp orting potassium zinc hexacyanoferrate (KZnCF) to prepare a new Cs-se lective mat erial

كلمات كليدي:

Mesoporous MCM-F1, Zinc hexacyanofe rrate, Cesium sorption

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