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عنوان مقاله:

Uranium Removal from Its Liquid Waste Using ChemicallyTreated Rice Husk

محل انتشار:

مجله زمین شناسی،محیط زیست و علوم بهداشتی, دوره 2, شماره 2 (سال: 1395)

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خلاصه مقاله:

In this study, rice husk (RH) was modified by HCl and HNO3, and the activated RHs were used as adsorbents for removal of UO22+ ions from aqueous solutions through batch equilibrium technique. Materials and methods: The influence of pH, equilibrium time,temperature, adsorbent dosage, and initial uranium concentration on adsorption percent was investigated. Results: Obtained results declaredthat the pH of aqueous solutions had affected UO22+ ions removal, which was indicated by the increased removal efficiency with increasingsolution pH till pH 3. Conclusion: Experimental data were verified with Langmuir and other isotherms and were found to be well fitting .withLangmuir isotherm models. A feasibility study for the whole process was performed

کلمات کلیدی:

Adsorption, feasibility study, isotherm models, modified rice husk, uranium

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