

عنوان مقاله:

Removal of Cd (II) from aqueous solution using nano alumino silicagel geopolymer, synthesized from Equisetum arvense plant

محل انتشار:

ششمین کنفرانس بین المللی مهندسی محیط زیست و منابع طبیعی (سال: 1399)

تعداد صفحات اصل مقاله: 11

نویسندگان:

Somaye Esfandiarpour - *Department of Chemistry, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran*

Majid Moradian - *Department of Chemistry, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran*

Habib Allah Tayebi - *Department of Textile Engineering, Qaemshahr Branch, Islamic Azad University, Qaemshahr, Iran*

خلاصه مقاله:

In this study, specific type of nano alumino silicagel (NAS), synthesized from fly ash, was used in our batch adsorption experiments in order to adsorb Cd from aqueous solution. The resulting products are characterized by Scanning electron microscope (SEM), Transmission electron microscope (TEM) and X-Ray diffraction (XRD). The resulting products have been employed as adsorbent for the removal of Cd from water. Batch studies were performed to evaluate the influence of various experimental parameters like pH, adsorbent dosage and contact time. Optimum conditions for Cd removal were found to be pH 10, adsorbent dosage of 1 g/L, equilibrium time 45 min

کلمات کلیدی:

Adsorption, Cd, Equisetum arvense plant, Wastewater, Removal

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