

عنوان مقاله:

DETERMINATION OF OPTIMUM PH FOR REMOVAL OF PB2+ IONS BY CHITOSAN NANOPARTICLES

كنفرانس بين المللى كشاورزي، محيط زيست و منابع طبيعى در هزاره سوم (سال: 1396)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

In the present work, thiosemicarbazide modified chitosan nanoparticles structure (TCS NPs) have been successfully synthesized for the removal of highly toxic Pb2+ ions and its properties were characterized. Prepared nanocomposite properties were characterized by Fourier transform infrared (FTIR) spectroscopy. The results showed that the TCS nanoparticles were successfully synthesized. The Pb2+ removal by the TCS adsorbent was investigated using batch adsorption technique and The effect of pH on Pb2+ removal was considered in the pH range of 2-5 at the contact time of 3 h, adsorbent amount 22 mg and all stages were performed at room temperature. Adsorption of Pb2+ ions on the surface of the adsorbent depends on the pH of the solution. In this study, pH 5.2 was chosen as an optimum pH for .Pb2+ ions rejection

کلمات کلیدی: Pb2+ ions, Thiosemicarbazide, Removal

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