

## عنوان مقاله:

Investigation Langmuir and Freundlich Equations in the Removal of Manganese Ions from Aqueous Solution Using Polyaniline Nanocomposite

## محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

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## خلاصه مقاله:

Present study deals with the adsorption of manganese ions from aqueous solution on polyaniline/HPC nanocomposite. Batch studies were performed to evaluate the influence of various experimental parameters adsorbent dosage. Optimum conditions for manganese removal were found to be adsorbent dosage of 10 g/L. The equilibrium adsorption isotherm was better described by Langmuir adsorption isotherm model. The adsorption capacity ( $q_{max}$ ) of polyaniline nanocomposite for manganese ions in terms of monolayer adsorption was 95.51 mg/g

## کلمات کلیدی:

polyaniline, nanocomposite, manganese, removal, surfactant

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/340861>

