

عنوان مقاله:

USING METAL-ORGANIC FRAMEWORK Mg-MOF-74 FOR Cu (II) IONS REMOVING FROM AQUEOUS SOLUTIONS

محل انتشار:

چهارمین کنفرانس بین المللی پژوهش های نوین در علوم مهندسی و تکنولوژی (سال: 1394)

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خلاصه مقاله:

In the current work Mg-MOF-74 synthesized through a simple solvothermal method and the application of metal-organic framework (MOF) Mg- MOF-74 as adsorbent for copper ions removing from aqueous solution was examined. The structure of synthesized Mg-MOF-74 was characterized using X-ray diffraction (XRD) and Brunauer–Emmett–Teller (BET). The influence of different factors were investigated, such as initial solution pH, adsorbent dosage and contact time. The Mg- MOF-74 presented the highest uptake for copper at the pH value of 4 and the initial copper concentration of 60 mg/L with amount of 0.017 g adsorbent

کلمات کلیدی:

Metal organic framework, Mg MOF-74, copper, adsorption

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