

## عنوان مقاله:

Synthesis the Cu-BTC/Bo adsorbent for the removal of methylene blue ions from the wastewater

## محل انتشار:

هفدهمین کنگره ملی مهندسی شیمی ایران (سال: 1400)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

In the present study, the supported copper MOF on the boehmite in the presence of trimesic acid by a facile co-precipitation method. Various analysis including XRD and FTIR were applied to characterize the synthesized sample. The removal efficiency of methylene blue over the MOF nanocomposite was measured to be about ۸۰% under the ambient operating conditions. These features exhibited that Cu-BTC/BO MOF have potential for the adsorption of MB and can efficiently be used to treat wastewater. Kinetic model was also studied for the adsorption of MB which can confirm the experimental data with pseudo-first-order

## کلمات کلیدی:

,Nanocomposite, Metal-organic framework, Methylene blue, Co-precipitation

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1378393>

