## 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

## نویسندگان:

Ebrahim Shahed - Chemical Engineering Faculty, Sahand University of Technology, P.O. Box 21876-1995, Sahand .New Town, Tabriz, Iran

m zabihi - Chemical Engineering Faculty, Sahand University of Technology, P.O. Box מורים-1915, Sahand New Town, .Tabriz,Iran

j rahbar shahrouzi - Chemical Engineering Faculty, Sahand University of Technology, P.O. Box ۵1 PP - 1919, Sahand .New Town, Tabriz, Iran

### خلاصه مقاله:

In the present study, the supported copper MOF on the boehmite in the presence of trimesic acid by a facile coprecipitation 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 Ao% 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

