سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها
گواهی ثبت مقاله در سیویلیکا
CIVILICA.com

عنوان مقاله:

Adsorption isotherms study of direct blue dye from aqueous solution onto NiFe2O4/activated carbon magnetic nanocomposites

محل انتشار:

کنفرانس بین المللی یافته های نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1394)

تعداد صفحات اصل مقاله: 3

نویسندگان:

Milad Jamal Livani - *M.Sc student of Babol Noshirvani University of Technology, Babol, Iran*

Mohsen Ghorbani - *Faculty of Chemical Engineering, Babol Noshirvani University of Technology, Babol, Iran*

Hasan Mehdipour - *Faculty of Chemical Engineering, Babol Noshirvani University of Technology, Babol, Iran*

خلاصه مقاله:

A NiFe2O4/activated carbon magnetic nanocomposites was synthesized by hydrothermal method and was used as an adsorbent for the removal of direct blue dye from aqueous solution. The experimental data were analyzed by the Langmuir and Freundlich and Sips models of adsorption. Equilibrium data fitted well with the Sips model. The maximum adsorption capacity (qmax) of direct blue dye was 152.43 mg/g. Results was indicated that NiFe2O4/AC .could be used as a promising and effective adsorbent to remove the anionic dyes

کلمات کلیدی:

Adsorption, Isotherm, NiFe2O4, Activated carbon, Nanocomposites, Direct blue

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/412775