

## عنوان مقاله:

Removal of Acid Yellow 23 Azo Dye in Water Solutions by Adsorption onto Powder Fe<sub>2</sub>O<sub>3</sub>: Study Kinetic and Isotherm

## محل انتشار:

دومین کنفرانس بین المللی یافته های نوین پژوهشی در شیمی و مهندسی شیمی (سال: 1395)

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## خلاصه مقاله:

In this paper, removal of Acid Yellow 23 (AY23), from aqueous solutions using powder Fe<sub>2</sub>O<sub>3</sub> was studied. The kinetic and isotherm of dye adsorption were studied. The effects of operational parameter such as pH, adsorbent dosage and contact time on the process were studied and optimized. The results showed that dye adsorption onto powder Fe<sub>2</sub>O<sub>3</sub> followed Langmuir isotherm. Adsorption kinetics of AY23 dye onto powder Fe<sub>2</sub>O<sub>3</sub> followed the pseudo-second-order kinetic model.

## کلمات کلیدی:

removal, kinetic model, adsorption, Fe<sub>2</sub>O<sub>3</sub>

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/477617>

