

## عنوان مقاله:

Using Fe<sub>2</sub>O<sub>3</sub> supported on Bentonite zeolite as a catalyst for photocatalytic degradation of Azo dye pollutant (Acid red 206) in water

## محل انتشار:

چهارمین همایش و نمایشگاه تخصصی مهندسی محیط زیست (سال: 1389)

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## خلاصه مقاله:

Organic dyes constitute one of the larger groups of pollutants in wastewater released from textile industries. Heterogeneous photo catalysis has been considered as a cost effective alternative for the purification of dye containing wastewater. Then the photo catalytic decomposition of organic compounds in wastewater has attracted a great deal of attention .A method of supporting Fe<sub>2</sub>O<sub>3</sub> on zeolite , without losing the photosensitization of Fe<sub>2</sub>O<sub>3</sub> and the adsorption properties of zeolite ,is the important aspect while preparing zeolite-Based photo catalysts. Results show that Fe<sub>2</sub>O<sub>3</sub>/Bentonite is an active photo catalyst for photo degradation of AR 206 pollutant in water. Based on these results ,a model highlighting the photo gradation activity of immobilized [Fe<sub>2</sub>O<sub>3</sub>/Bentonite] which may lead to .the development of an easy and effective technology in wastewater treatments, is proposed

## کلمات کلیدی:

Acid red 206(AR 206), Degradation , Photo catalytic , Fe<sub>2</sub>O<sub>3</sub>/Bentonite

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/92601>

