

عنوان مقاله:

Preparation of TiO₂-pillared montmorillonite; degradation of methylene blue by photocatalyst

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

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نویسنده:

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خلاصه مقاله:

In this study TiO₂-pillared montmorillonite was prepared using TiCl₄ hydrolysis to form TiO₂ particles into the interlayer space of montmorillonite. The structural analysis of the pillaredmontmorillonite were determined by X-ray diffraction (XRD), and BET method. Then degradation of methylene blue was carried out with TiO₂- montmorillonite in aqueous solution under UV irradiation. TiO₂-montmorillonite had high photocatalytic activity because of its high specific surface area caused by pillaring and loading of TiO₂ for photooxidation

کلمات کلیدی:

Pillared montmorillonite , photocatalyst , specific surface area

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