

عنوان مقاله:

PREPARATION AND PHOTOCATALYTIC CHARACTERISTICS OF BA₅CD₅SR₁TFE₀HOLLOW NANOSPHERES

محل انتشار:

سومین کنفرانس بین المللی مواد فوق ریزدانه و نانوساختار (سال: 1390)

تعداد صفحات اصل مقاله: 9

نویسندگان:

RAHMA TOLLAH RAHIMI - *Department of Chemistry, Iran University of Science and Technology, NarmakTehran*

AZADEH TADJARODI - *Department of Chemistry, Iran University of Science and Technology, NarmakTehran*
۱۶۸۴۶-۱۳۱۴, Iran

MAHBOUBEH RABBANI - *Department of Chemistry, Iran University of Science and Technology, NarmakTehran*
۱۶۸۴۶-۱۳۱۴, Iran *Department of Chemistry, Islamic Azad University, Saveh Branch, Saveh, Iran*

HAMED Kerdari - *Department of Chemistry, Iran University of Science and Technology, NarmakTehran* ۱۶۸۴۶-۱۳۱۴,
Iran Department of Chemistry, Islamic Azad University, Saveh Branch, Saveh, Iran

خلاصه مقاله:

product were investigated in details by X-ray diffraction (XRD) and scanning electron microscopy (SEM). Magnetic hysteresis measurement carried out on vibrant sample magnetometer (VSM) shows strong ferromagnetic property at room temperature. These magnetic spheres, which could be easily recovered by a magnet, exhibited high efficiency in the photocatalytic decomposition of dye contaminants from water. Because of the high specific surface area, nano-scale particle size and hollow porous material, BaoisCd₅SrTiFe₁₀₀₁₉ hollow spheres showed favorable degradation behavior for Congo red. Factors affecting decomposition, such as, initial dye concentration, pH and contact time were evaluated.

کلمات کلیدی:

hollow nanospheres, photocatalytic decomposition, Congo red

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/613228>

