

#### عنوان مقاله:

Investigation of MnFerOf@ZnO-GO and MnFerOf@ZnO-rGO Magnetic Nanocomposites as an efficient Photocatalyst under visible light irradiation

### محل انتشار:

هشتمین کنفرانس بین المللی شیمی ، مهندسی شیمی و نفت (سال: 1399)

تعداد صفحات اصل مقاله: 11

# نویسندگان:

azam Zamani - Department of Chemistry, Science and Research Branch, Islamic Azad University, Tehran, Iran

Alireza Mahjoub - Department of Chemistry, Science and Research Branch, Islamic Azad University, Tehran, Iran

Mirabdullah Seyed Sadjadi - Department of Chemistry, Tarbiat Modares University, Tehran, Iran

#### خلاصه مقاله:

a facile hydrothermal synthesis route was used to synthesize MnFeYOF@ZnO-GO and MnFeYOF@ZnO-rGO nanocomposites at low temperature of IAo °C for ۳h. Our synthesis of MnFeYOF@ZnO modified by the different weight percentages of GO and RGO. The assynthesized samples were investigated by techniques XRD, FE-SEM, TEM, BET. Magnetic studies demonstrated that the MnFeYOF@ZnO-GO and MnFeYOF@ZnO-rGO nanocomposites can be used as a magnetically separable photocatalyst. The photodegradation efficiency of the prepared materials Was evaluated by the decomposition of Congo Red (CR) in The min of natural sunlight irradiation. Among the synthesized .(% materials, the MnFeYOF@ZnO-GO photocatalyst showed maximum photocatalytic activity (99.&F

# کلمات کلیدی:

MnFeYOf@ZnO-GO, MnFeYOf@ZnO-rGO, nanocomposite, photodegradation, Congo Red

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