

## عنوان مقاله:

Fabrication of TiO<sub>2</sub>/Ag<sub>2</sub>S nano-composites via a new method for photocatalytic degradation of para red

## محل انتشار:

همایش کاربرد نانوتکنولوژی در صنایع نفت و پتروشیمی (سال: 1390)

تعداد صفحات اصل مقاله: 9

## نویسنده:

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## خلاصه مقاله:

In this study ,Ag<sub>2</sub>S doped TiO<sub>2</sub> photocatalyst was successfully prepared in different ratios for para red Photodegradation. Transmission electron microscope (TEM) and powder X-ray diffraction (XRD) were used to characterize the microstructure and morphology of the products. The TiO<sub>2</sub>/Ag<sub>2</sub>S photocatalyst showed high photocatalytic activity during the degradation of para red under UV- visible light and solar irradiation. The results show that an appropriate amount of Ag<sub>2</sub>S dopant can greatly increase the amount of hydroxyl radicals generated by TiO<sub>2</sub> .nanoparticles, which are responsible for the obvious increase of photocatalytic activity

## کلمات کلیدی:

TiO<sub>2</sub>/Ag<sub>2</sub>S; nanocomposite; ; para red, photocatalyst; morphology; X-ray diffraction

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/112590>

