

## عنوان مقاله:

Enhancement of Photocatalytic Properties of TiO<sub>2</sub>/CdS nanoparticles/ graphene composite for waste water processing

## محل انتشار:

اولین کنفرانس ملی کاربرد نانوتکنولوژی در صنایع نفت و پتروشیمی (سال: 1391)

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## خلاصه مقاله:

A new type of TiO<sub>2</sub>/CdS decorated Graphene photocatalysts were prepared by solution-based method. The catalytic activity of the prepared nanocomposites for the photocatalytic degradation of acid orange 7 was measured. X-ray diffraction, scanning electron microscopy and UV-vis diffuse reflectance spectroscopy were used to investigate the structure, and the optical absorbance. The broad peaks in the XRD patterns indicate that the TiO<sub>2</sub>/CdS nanoparticles were about 35 nm. The results showed that Graphene could enhance the activity of the TiO<sub>2</sub>/CdS photocatalyst

## کلمات کلیدی:

TiO<sub>2</sub>/CdS; Graphene; acid orange 7 ; photocatalyst; SEM

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/179540>

