

عنوان مقاله:

Synthesis, Characterization and Photocatalytic Evaluation of RGO/TiO₂NWs/Pd Nanocomposite for Efficient Dye Degradation

محل انتشار:

اولین کنگره بین المللی شیمی و نانو شیمی از پژوهش تا فناوری (سال: 1397)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Sarvin Mohammadi-Aghdam - *Department of Chemistry, Payame Noor University, P.O. Box19395-3697, Tehran, Iran*

Hossein Khojasteh - *Young Researchers and Elite Club, Mahabad Branch, Islamic Azad University, Mahabad, Iran*

Bahaaldin Rashidzadeh - *Department of Chemistry, Payame Noor University, P.O. Box19395-3697, Tehran, Iran*

خلاصه مقاله:

RGO/TiO₂NWs/Pd nanocomposites were synthesized by using hydrothermal and deposition methods. Nanodimantion structure of all samples was confirmed by SEM results. The photocatalytic degradation of rhodamine by TiO₂-NWs and RGO/TiO₂ NWs/Pd nanocomposites were compared under ultraviolet light irradiation in similar conditions. The obtained results confirmed that the RGO/TiO₂ NWs/Pd nanocomposite have high photocatalytic activity toward dye pollutant owing to the much higher available surface area of TiO₂ nanowires, the synergic effect of Pd species and high electric transport property of the graphene structure.

کلمات کلیدی:

RGO, Nanowires, Nanocomposite, Dye Degradation

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/814334>

