عنوان مقاله:

Synthesis of TiOY/CD and TiOY/Ag/CD Nanocomposites and Investigation of Their Visible Light Photocatalytic Activities in the Degradation of Methylene Blue

محل انتشار:

نشریه متدهای شیمیایی, دوره 8, شماره 3 (سال: 1403)

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خلاصه مقاله:

The surface of bio-synthesized TiOY nanoparticles was modified with a silane agent to generate the chemical link to the preparation of TiOY/β-cyclodextrin and TiOY/Ag/β-cyclodextrin nanocomposites. The structure of synthesized nanocomposites was identified using different techniques, including FTIR, DRS, XRD, ICP, TGA, FESEM, and EDX MAPPING. The photocatalytic activity of the nanocomposites was investigated in the degradation of methylene blue dye in aqueous solution under sunlight irradiation (**··-\forall \cdot \

كلمات كليدي:

 β –cyclodextrin, TiOY nanocomposites, photocatalyst, Methylene blue, Visible light

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