

عنوان مقاله:

Binary visible-light-activated ZnO/CuCo₂O₄ photocatalysts for degradation of Congored dye through persulfate activation

محل انتشار:

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خلاصه مقاله:

In this study, we investigated photocatalytic performance of ZnO/CuCo₂O₄ nanocomposites under visible light in removal of Congo red using persulfate anions. Among the fabricated materials, the ZnO/CuCo₂O₄ (۲۰%) nanocomposite presented the best performance. The photocatalytic removal rate constant in the ZnO/CuCo₂O₄ (۲۰%)/persulfate/Vis system was ۳۸.۹, ۵.۵۲, and ۱.۵۴-folds higher than the ZnO, ZnO/persulfate, and ZnO/CuCo₂O₄ (۲۰%) systems, respectively. Furthermore, the photocatalyst presented good reusability in the photocatalysis processes.

کلمات کلیدی:

ZnO/CuCo₂O₄, Persulfate ions, Congo red degradation

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