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Photodegradation of emerging contaminant tetracycline using a zinc titanate nanocellulose composite as an efficient photocatalyst

There is an urgent need to mitigate emerging contaminants, viz. pharmaceuticals, etc. In this work efforts have been made to develop zinc titanate (ZnTiO₃)-based efficient photocatalyst to photodegrade tetracycline. A composite of carbon dot-doped zinc titanate and zinc titanate-cotton nanocellulose was synthesized and examined for their photocatalytic activity in the degradation of tetracycline hydrochloride under light illumination. The photocatalytic studies demonstrated that ZnTiO₃-nanocellulose composite show the highest photocatalytic activity of degradation of tetracycline hydrochloride under light illumination. Such studies help in finding solutions to mitigation of emerging contaminants.

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