

# Fuelling your energy research



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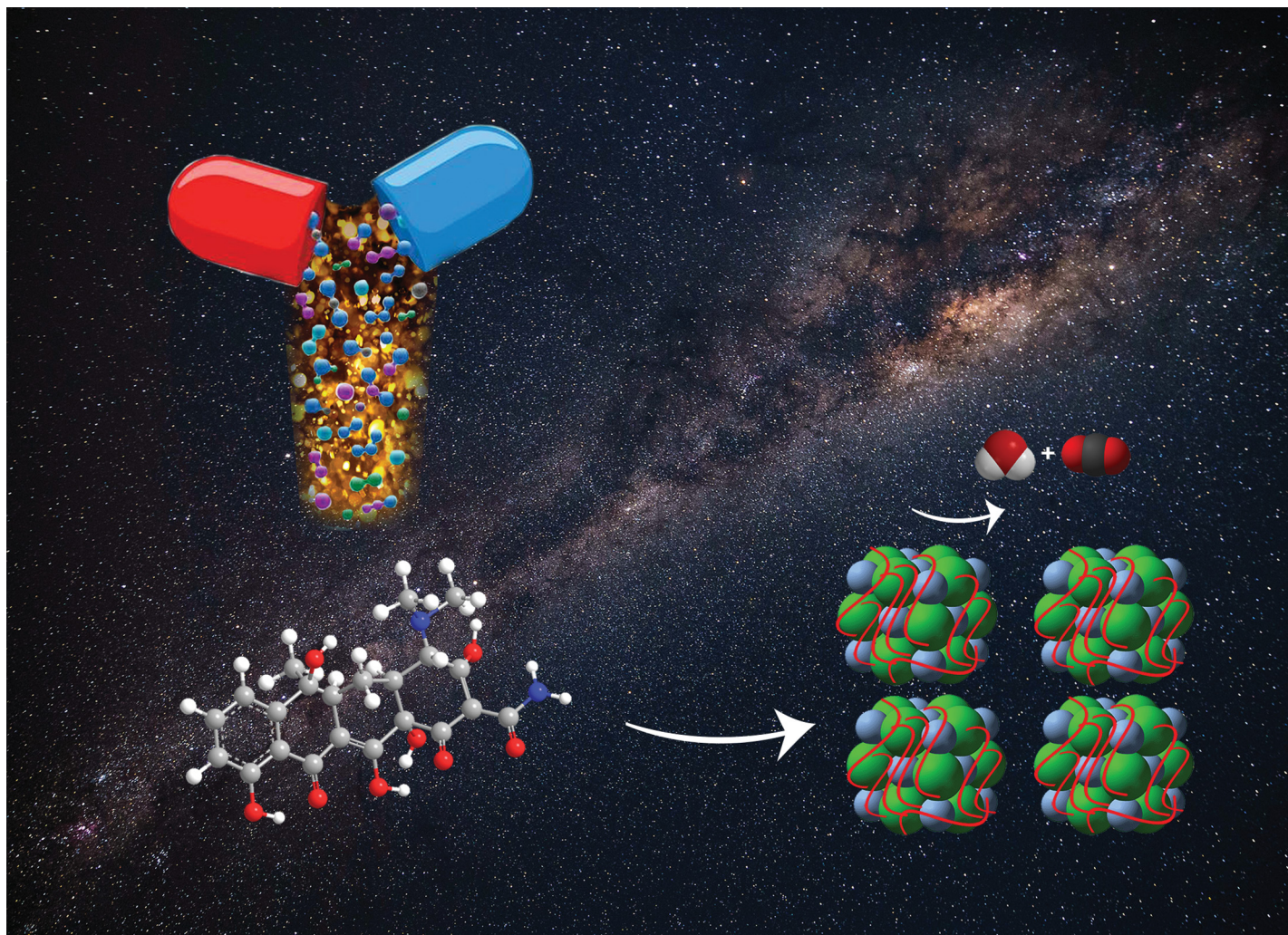
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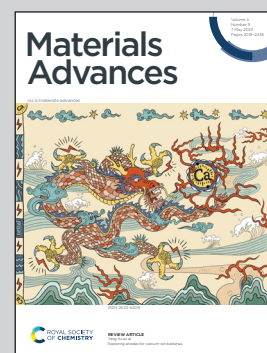
Showcasing research from Professor Chowdhury's laboratory, Material Nanochemistry Laboratory, Institute of Advanced Study in Science and Technology, Guwahati, India.

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 ( $\text{ZnTiO}_3$ )-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  $\text{ZnTiO}_3$ -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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As featured in:



See Jahnabi Gogoi and Devasish Chowdhury, *Mater. Adv.*, 2023, 4, 2088.