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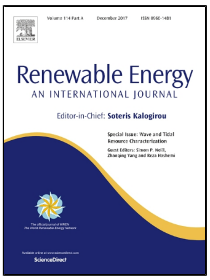

Effective harvesting of UV induced production of excitons from Fe_3O_4 with proficient rGO-PTh acting as BI-functional redox photocatalyst

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HIGHLIGHTS

- This paper aims in synthesizing novel nanocomposite containing reduced graphene oxide and Fe_3O_4 accompanied by polythiophene.
- This nanocomposite in solid state was utilized as photocatalyst.
- This photocatalyst shows efficient hydrogen production, dye degradation and acts as an effective UV shielding layer.