

**A new carboxyl-functionalized P3HT/TiO₂ composite
photocatalyst: preparation, structure and prompted activity
through interfacial engineering**

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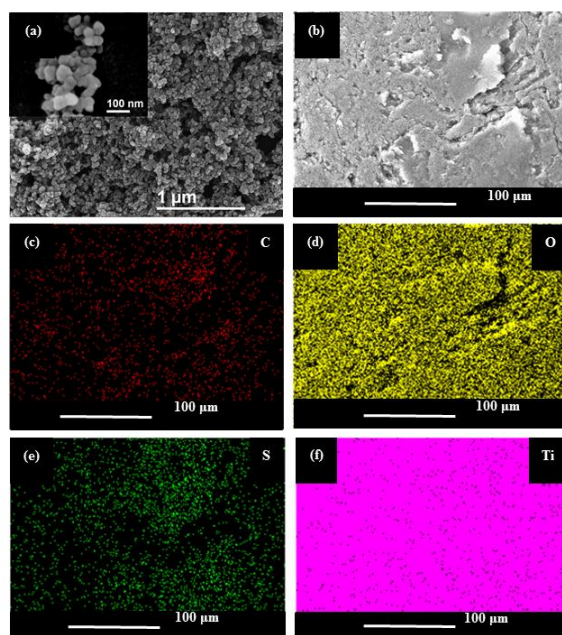


Figure S1. (a) SEM images of CPT-15 composites and (b-f) elemental mapping images of C, O, S, Ti in the CPT-15 composites.

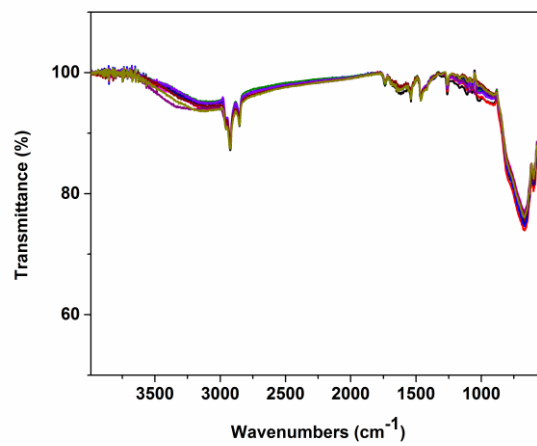


Figure S2. ATR-FTIR spectra of CPT-15 measured in ten different spots of the composites slice.

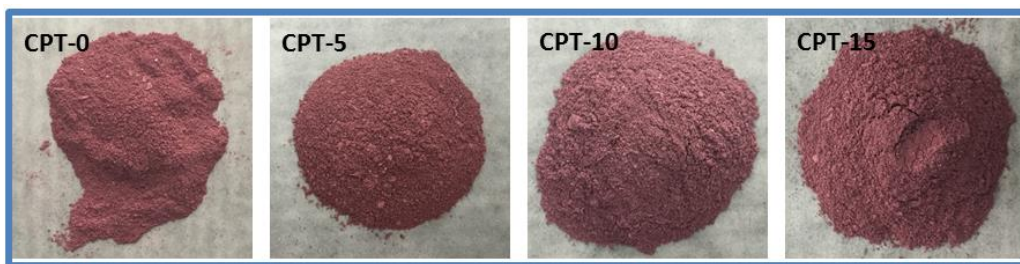


Figure S3. Photo images of CPT-0, CPT-5, CPT-10 and CPT-15 composites.