

Supporting Information for

**Upconversion-P25-Graphene Composite as an Advanced Sun Light
Driven Photocatalytic Hybrid Materials**

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Addition Figures.

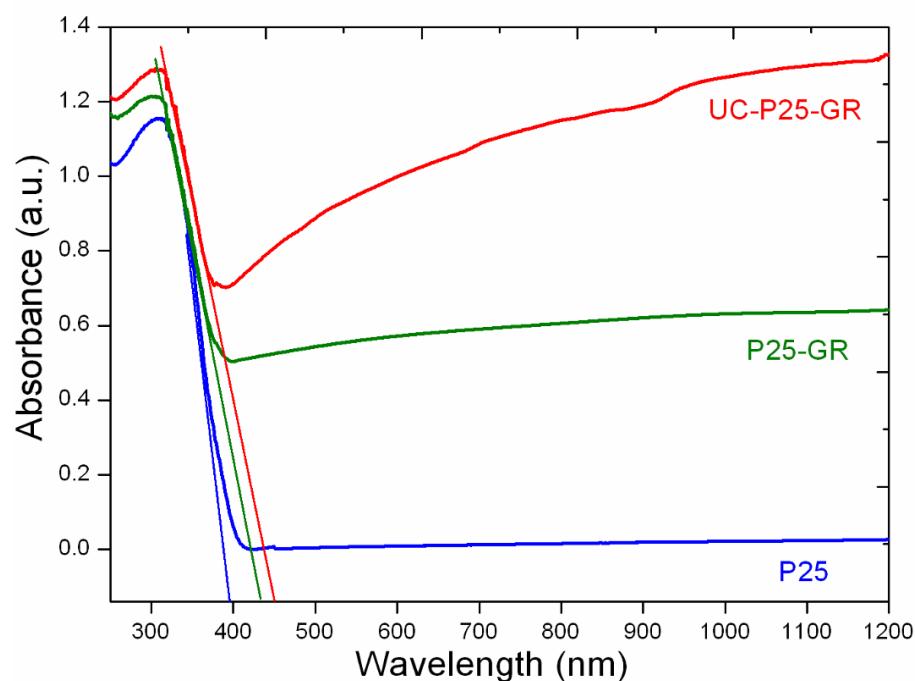


Figure S1. Diffuse reflectance absorption spectra of P25, P25-GR and UC- P25-GR, respectively.

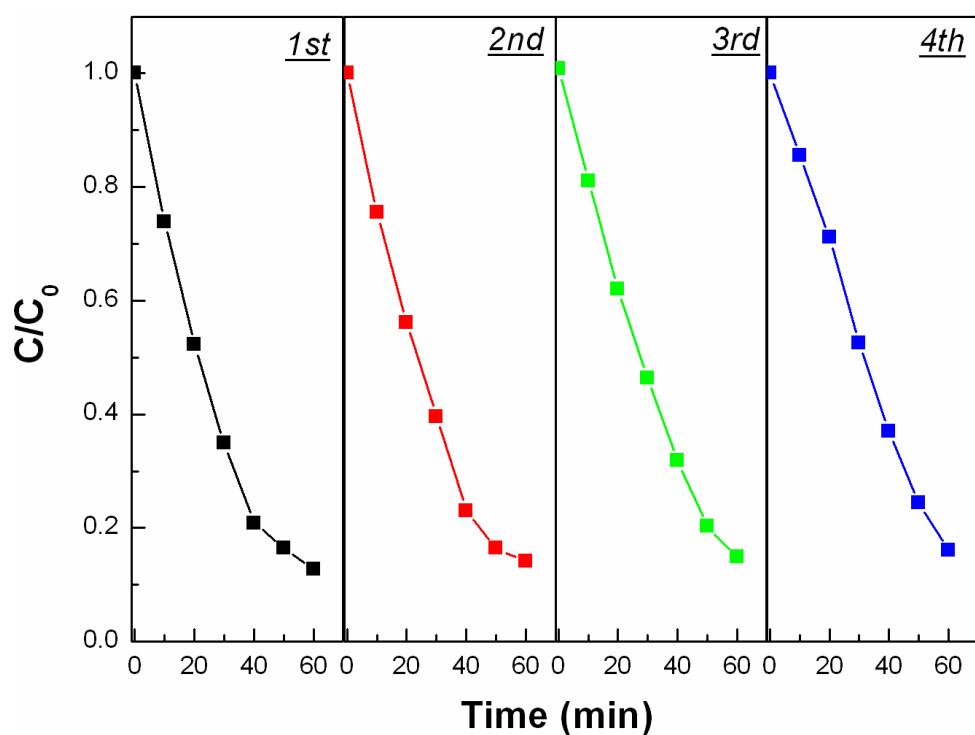


Figure S2. Cycling runs in the photodegradation of methyl orange in the presence on UC-P25-GR under simulated sunlight; addition of methyl orange (0.02 g/L, 100 mL, per run), UC-P25-GR (0.3 g/L, per run).

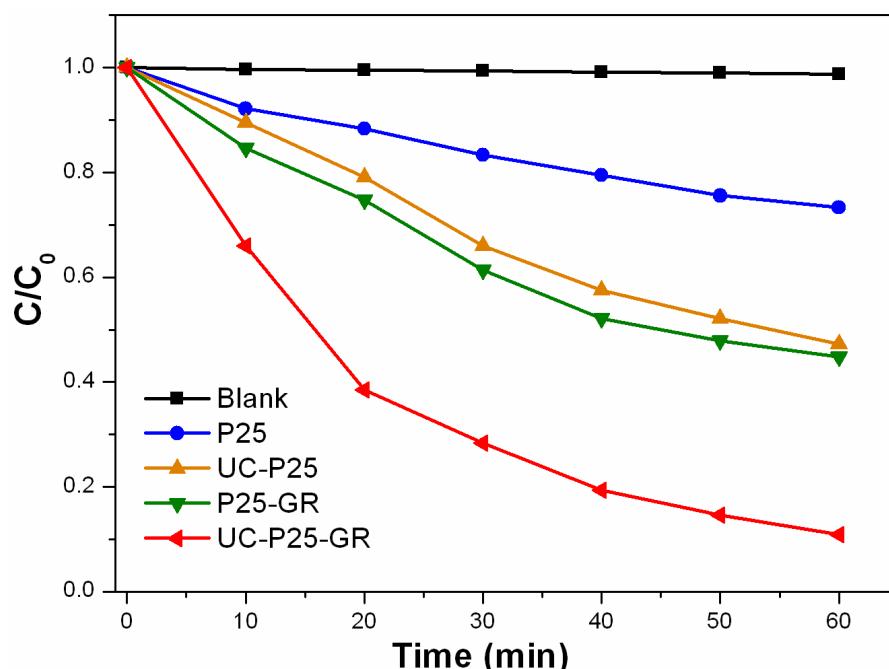


Figure S3. Photodegradation of MB by P25, UC-P25, P25-GR and UC-P25-GR composites with reaction time of 60 min under irradiation of simulated sunlight.