

Supplementary Information

Carbonaceous layer interfaced TiO₂/RGO hybrids with enhanced visible-light photocatalytic performance

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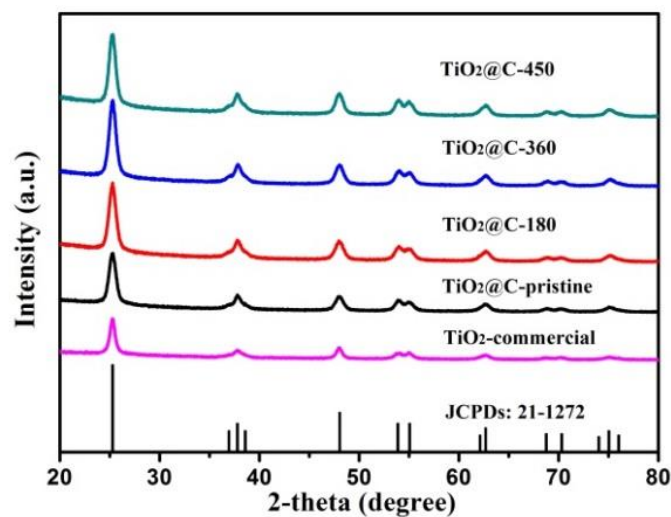


Fig. S1 XRD patterns of TiO₂@C samples.

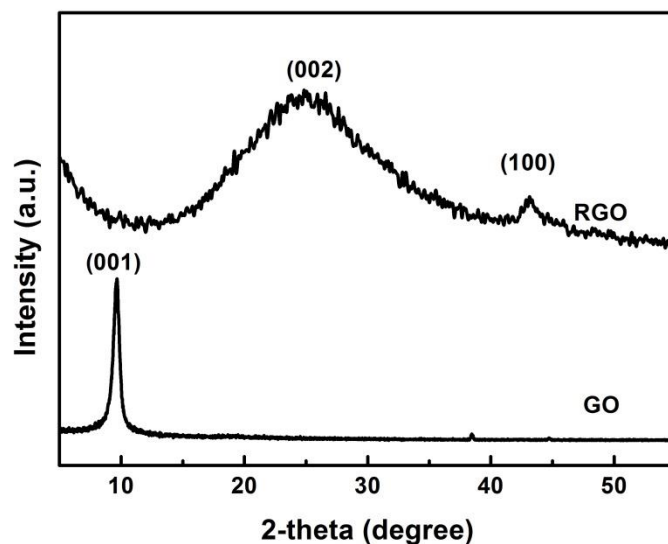


Fig. S2 XRD patterns of graphene oxide and reduced graphene oxide after solvothermal process at 120 °C for 3 hours.

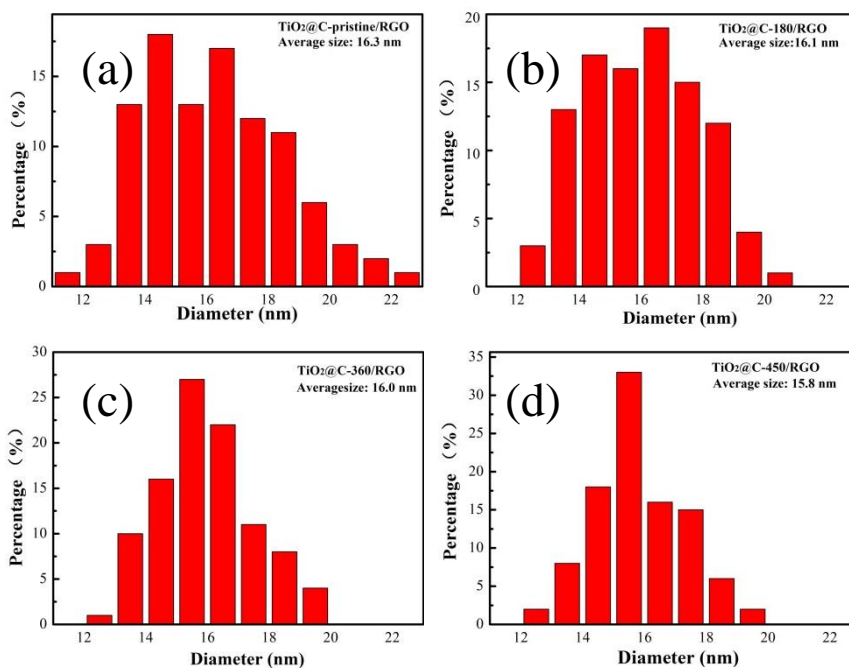


Fig. S3 The average size of the TiO₂@C/RGO samples calculated by Nano Measurer software: TiO₂@C-pristine/RGO (a), TiO₂@C-180/RGO (b), TiO₂@C-360/RGO (c), and TiO₂@C-450/RGO (d).

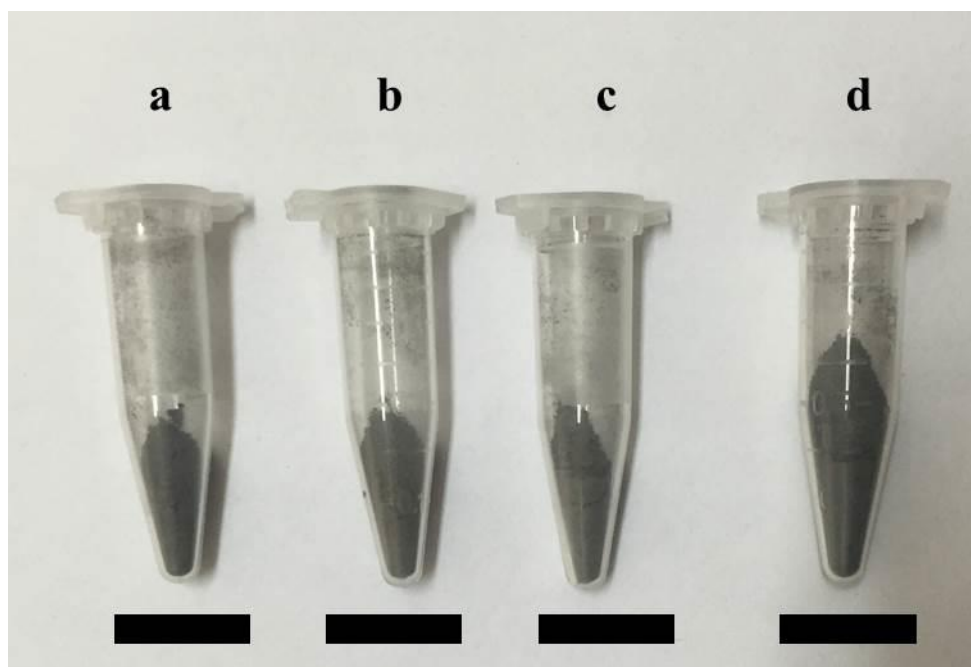


Fig. S4 The photography of the $\text{TiO}_2@C/\text{RGO}$ samples: $\text{TiO}_2@C$ -pristine/RGO (a), $\text{TiO}_2@C$ -180/RGO (b), $\text{TiO}_2@C$ -360/RGO (c), and $\text{TiO}_2@C$ -450/RGO (d).

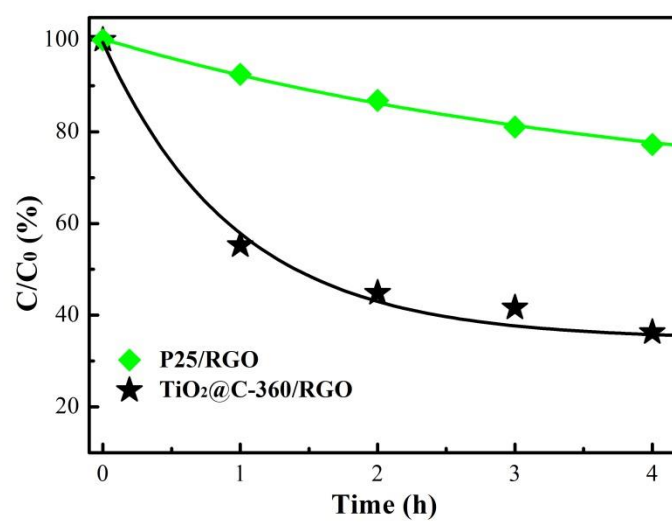


Fig. S5 Photocatalytic degradation curves of MO within the presence of P25/RGO and $\text{TiO}_2@C$ -360/RGO.