

Supporting information

Co₃O₄/TiO₂ nanocomposite formation leads to a tremendous improvement in UV-Vis-IR driven thermocatalytic activity due to novel photoactivation and photocatalysis-thermocatalysis synergetic effect

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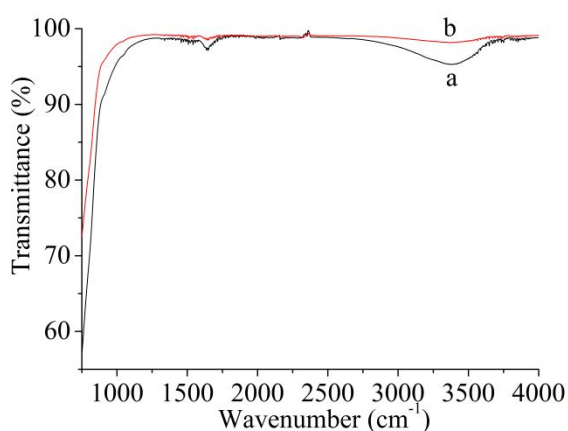


Figure S1. FTIR spectra of the fresh Co₃O₄/TiO₂-C sample (a) and the used Co₃O₄/TiO₂-C sample after the benzene oxidation under the UV-Vis-IR irradiation for 40 min (b).

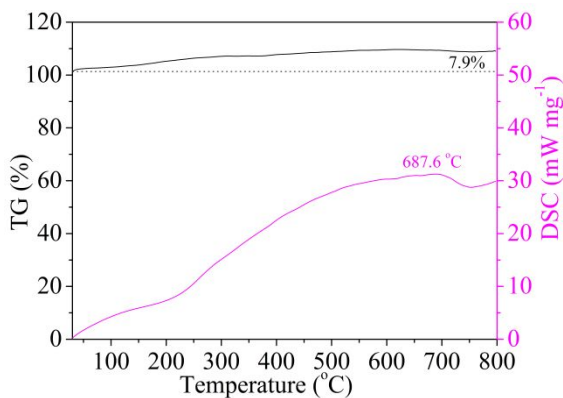


Figure S2. TG-DSC profiles of the used Co₃O₄/TiO₂-C sample after the benzene oxidation under the UV-Vis-IR irradiation for 40 min.

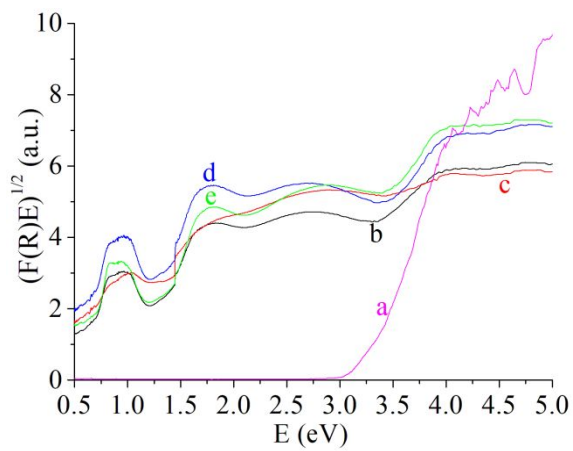


Figure S3. Kubelka-Munk function of the samples: (a) $\text{TiO}_2(\text{P25})$, (b) $\text{Co}_3\text{O}_4/\text{TiO}_2\text{-A}$, (c) $\text{Co}_3\text{O}_4/\text{TiO}_2\text{-B}$, (d) $\text{Co}_3\text{O}_4/\text{TiO}_2\text{-C}$, and (e) $\text{Co}_3\text{O}_4/\text{TiO}_2\text{-D}$.