

Supplementary Information

Carbon Quantum Dots/ Ag_3PO_4 Complex Photocatalysts with Enhanced Photocatalytic Activity and Stability under Visible Light

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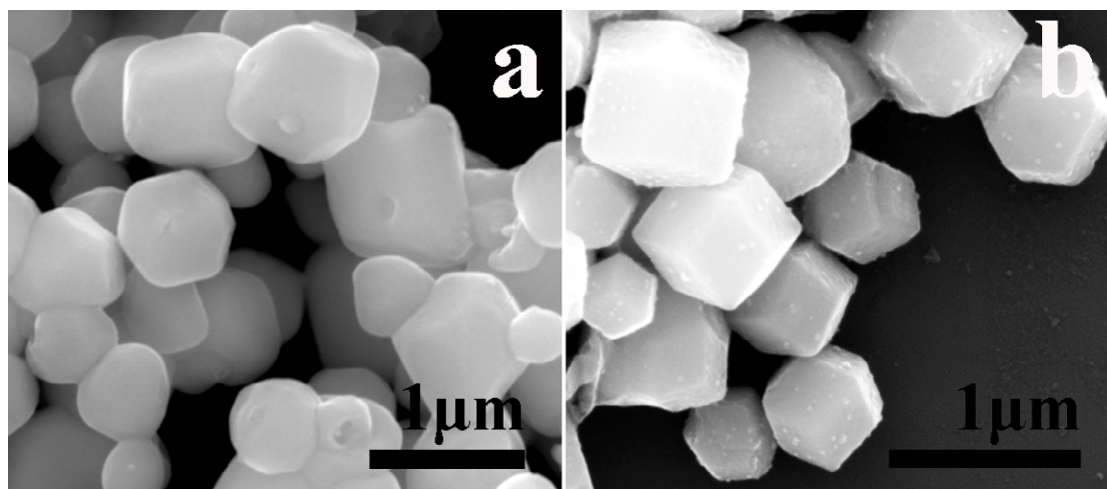


Fig. S1 SEM images of (a) Ag_3PO_4 nanoparticles and (b) $\text{Ag}/\text{Ag}_3\text{PO}_4$ composites.

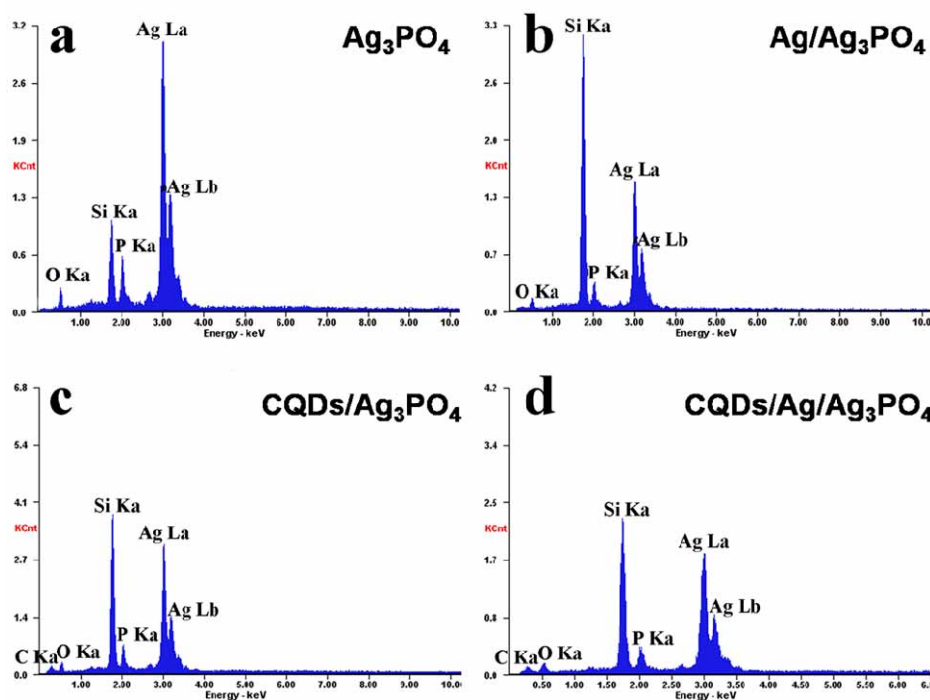


Fig. S2 EDS patterns of (a) Ag_3PO_4 crystals; (b) $\text{Ag}/\text{Ag}_3\text{PO}_4$ nanocomposites; (c) CQDs/ Ag_3PO_4 nanocomposites; (d) CQDs/ $\text{Ag}/\text{Ag}_3\text{PO}_4$ nanocomposites.

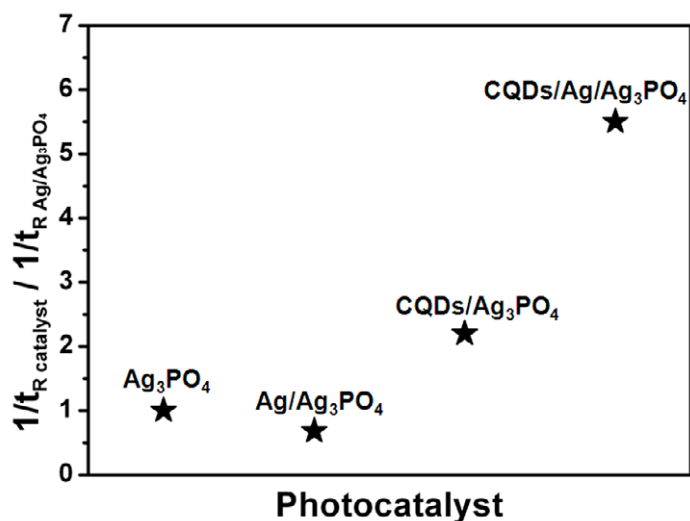


Fig. S3 A detailed comparison on the photocatalytic ability of $\text{Ag}/\text{Ag}_3\text{PO}_4$, $\text{CQDs}/\text{Ag}_3\text{PO}_4$ and $\text{CQDs}/\text{Ag}/\text{Ag}_3\text{PO}_4$ with Ag_3PO_4 , t_R is the reaction time for MO solution decomposed completely.

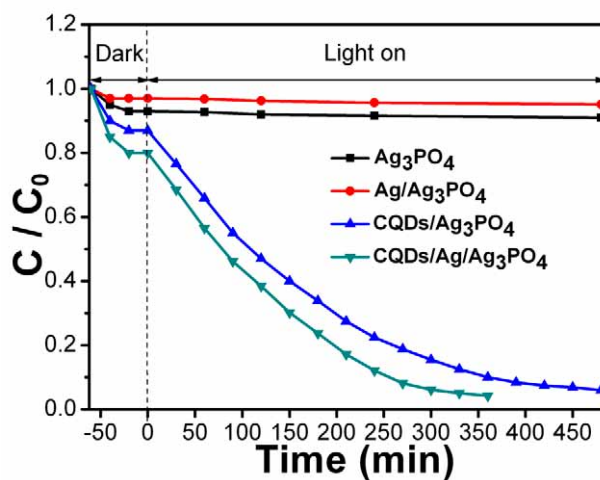


Fig. S4 Photocatalytic activities of Ag_3PO_4 , $\text{Ag}/\text{Ag}_3\text{PO}_4$, $\text{CQDs}/\text{Ag}_3\text{PO}_4$ and $\text{CQDs}/\text{Ag}/\text{Ag}_3\text{PO}_4$ for MO degradation under near-infrared-light ($\lambda \geq 700 \text{ nm}$) irradiation

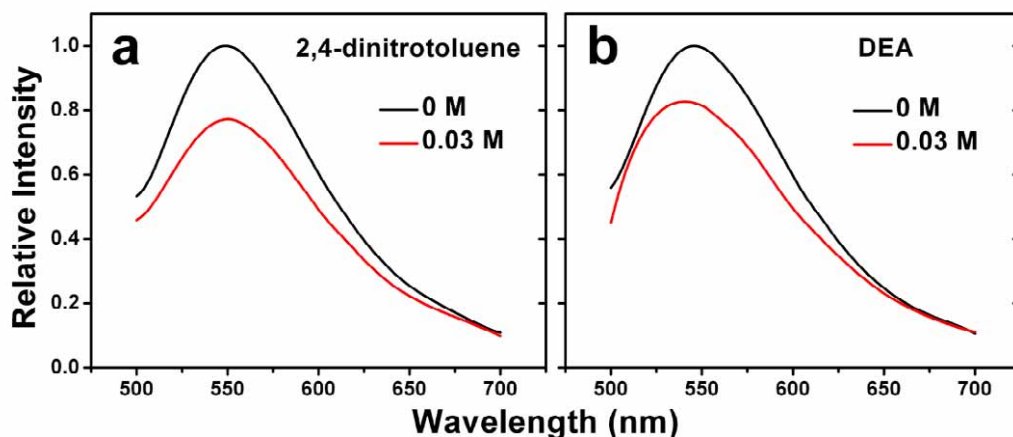


Fig. S5 Luminescence emission spectra (485 nm excitation) of the CQDs in toluene without and with the quenchers (both 0.03 M)