Porous TiO_2/Carbon dots Nanoflowers with Enhanced Surface Areas for Improving Photocatalytic Activity

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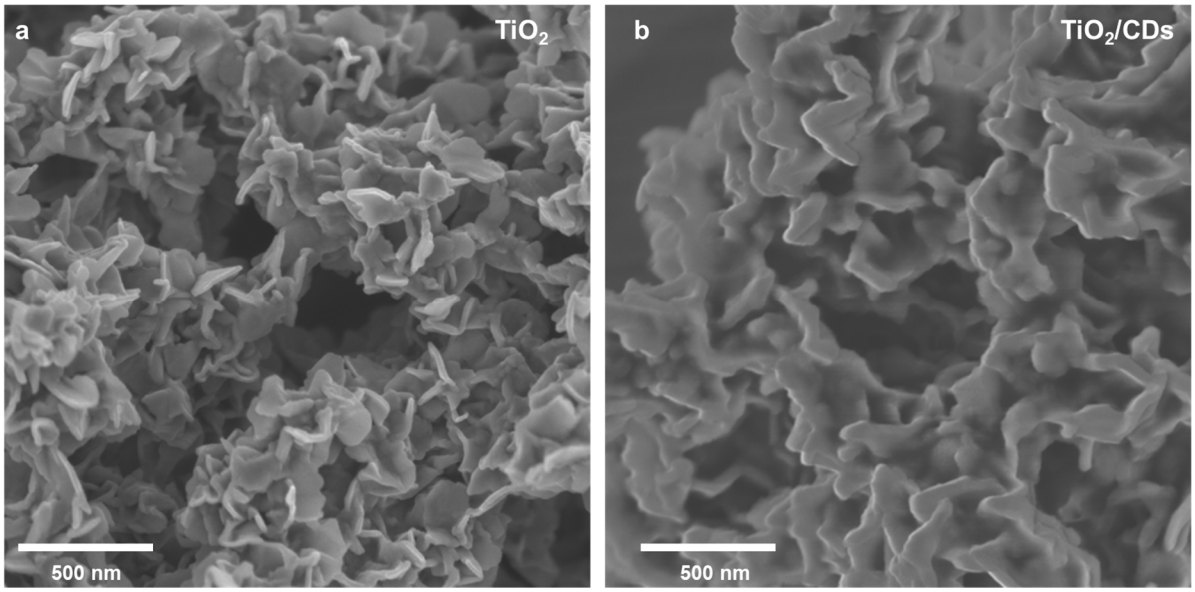

Figure S1. SEM image of (a) porous TiO_2 and (b) hybrid TiO_2/CDs.

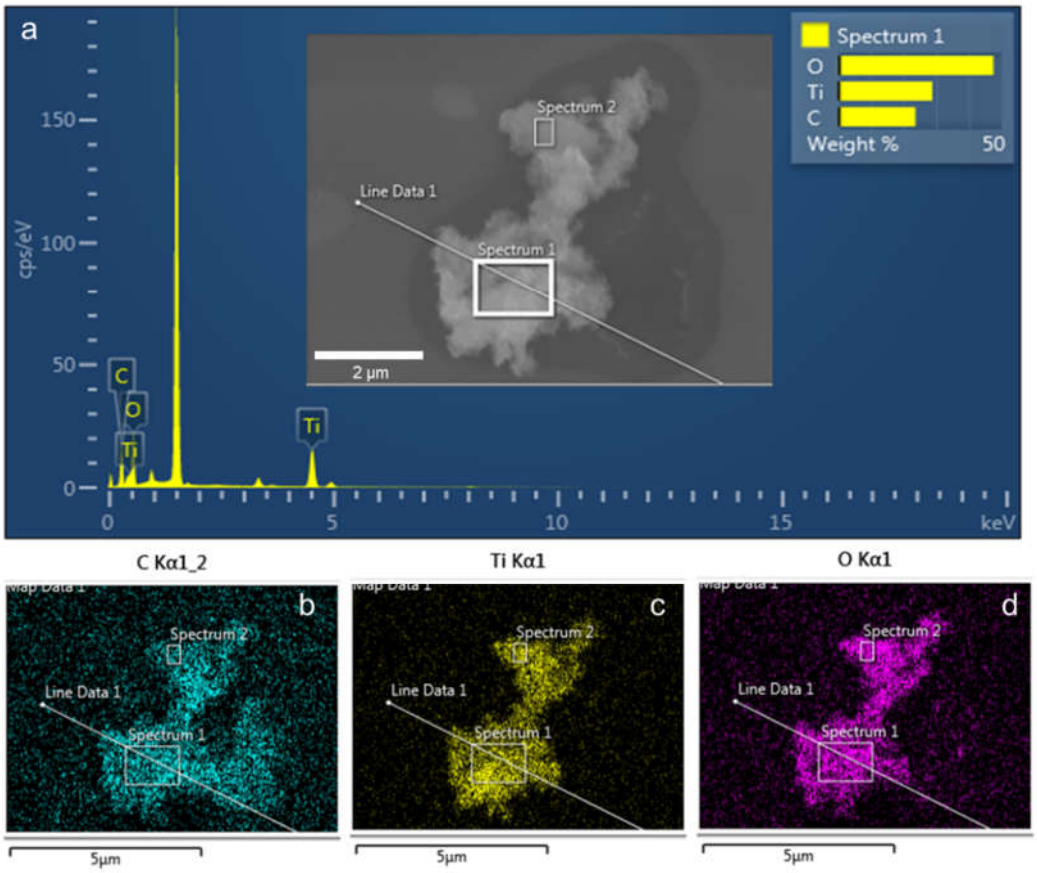

Figure S2. (a) EDX spectra of hybrid TiO_2/CDs after CDs incorporation. Inset: SEM image of hybrid TiO_2/CDs. (b-d) EDS mapping profiles of the rectangular area in panel (a) for (b) carbon, (c)titanium and (d) oxygen.

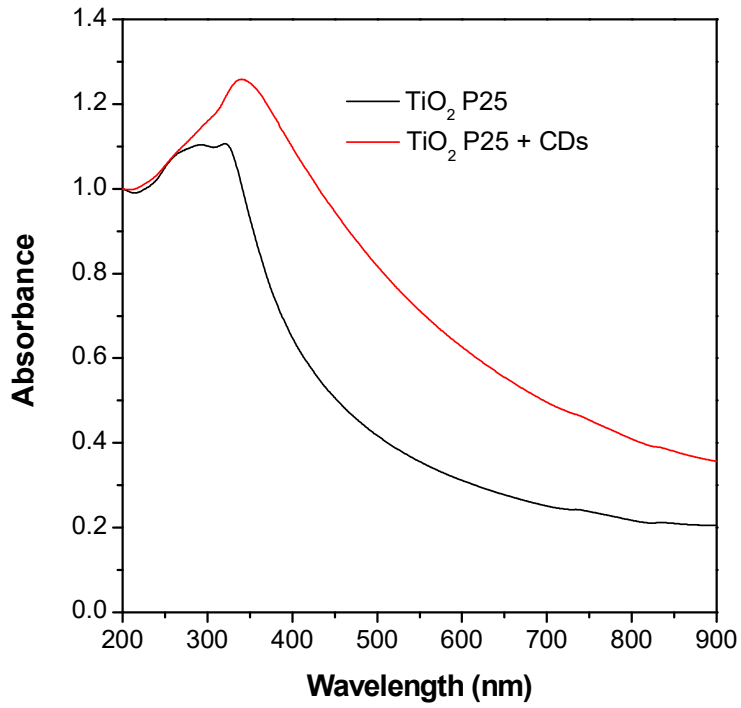

Figure S3. UV-Vis spectrums of pure P25 and P25 with CDs.

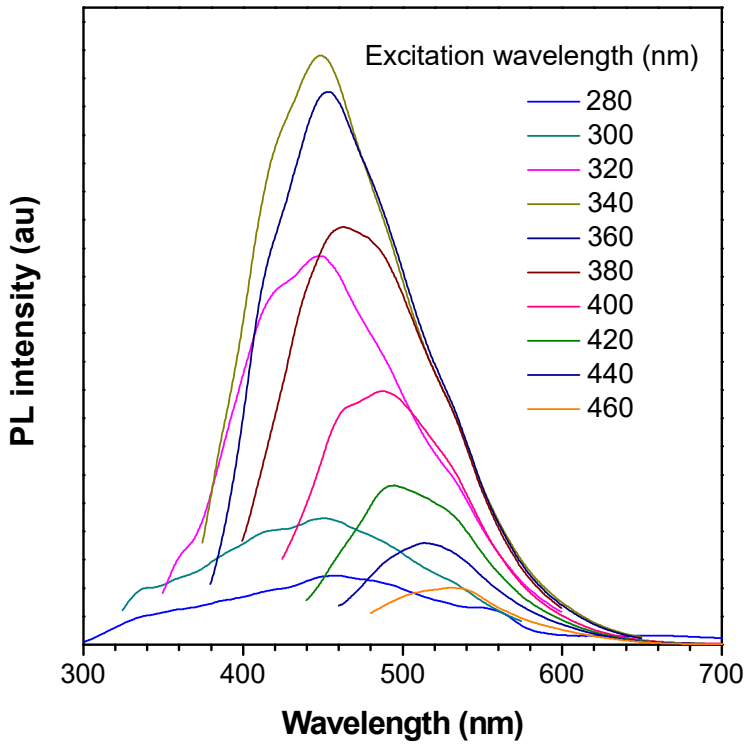

Figure S4. Photoluminescence spectrum of CDs with different excitation (add up-conversion).

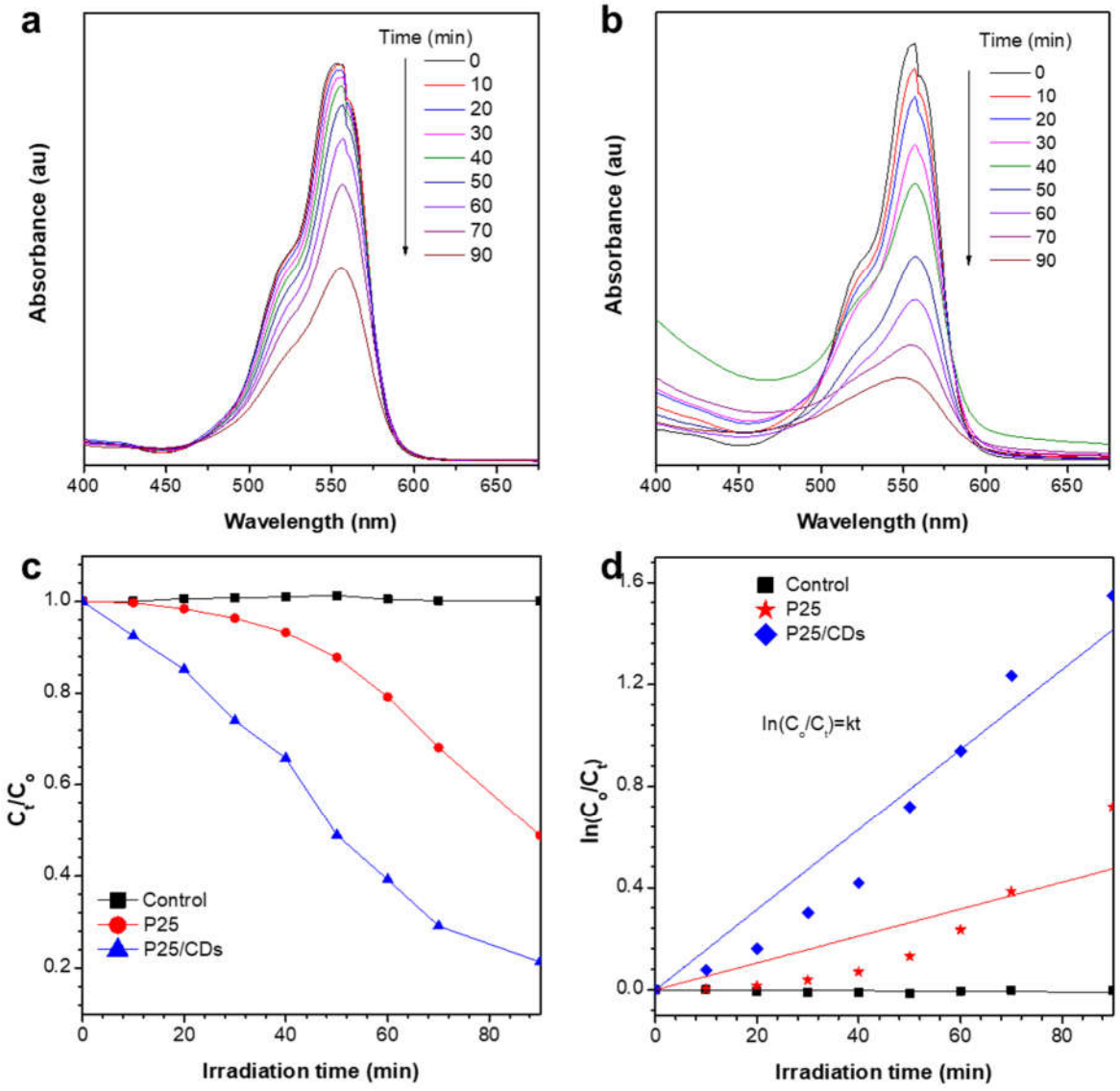

Figure S5. UV-Vis spectra of RhB-degradation with (a) P25 and (b) P25/CDs under UV light at different irradiation time. (c) Photocatalytic degradation curves of P25 and P25/CDs at different time under UV light irradiation. (d) Pseudo-first-order fitted degradation of RhB by P25 and P25/CDs.