Supplementary Material (ESI) for Journal of Materials Chemistry

Supporting Information

Synthesis of Rutile-Anatase Core-Shell Structured TiO_2 for Photocatalysis

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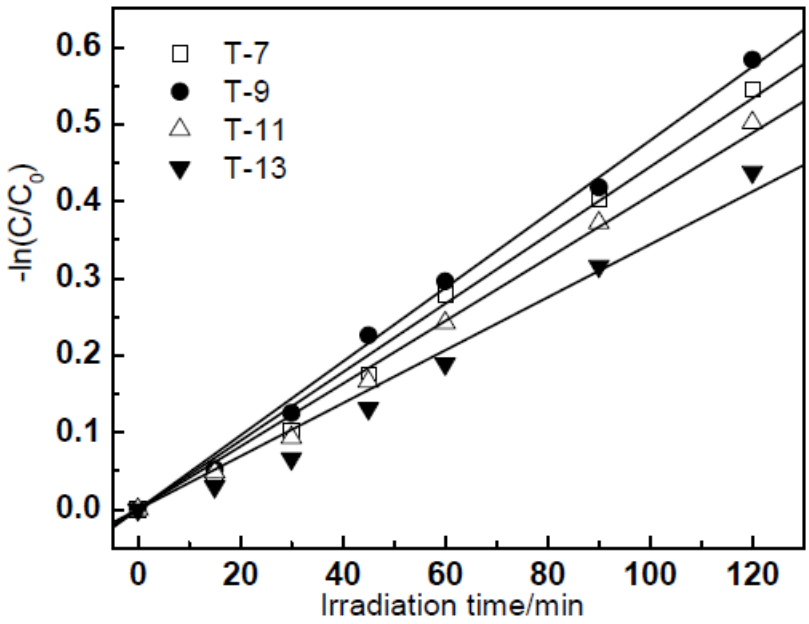

Fig. S1 Degradation kinetics of Rhodamine B with different samples (T-7, T-9, T-11 and T-13)

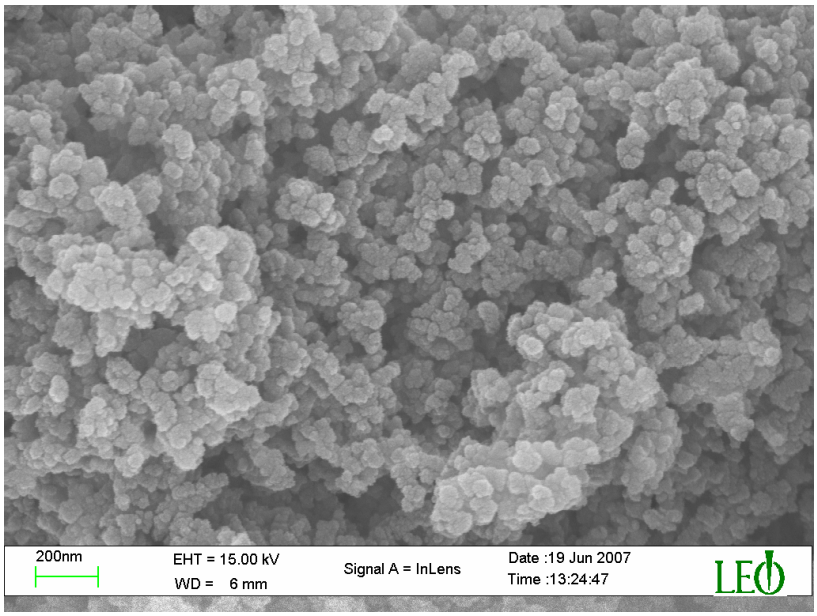

Fig. S2 Typical SEM image of TiO_xC_y/carbon composites

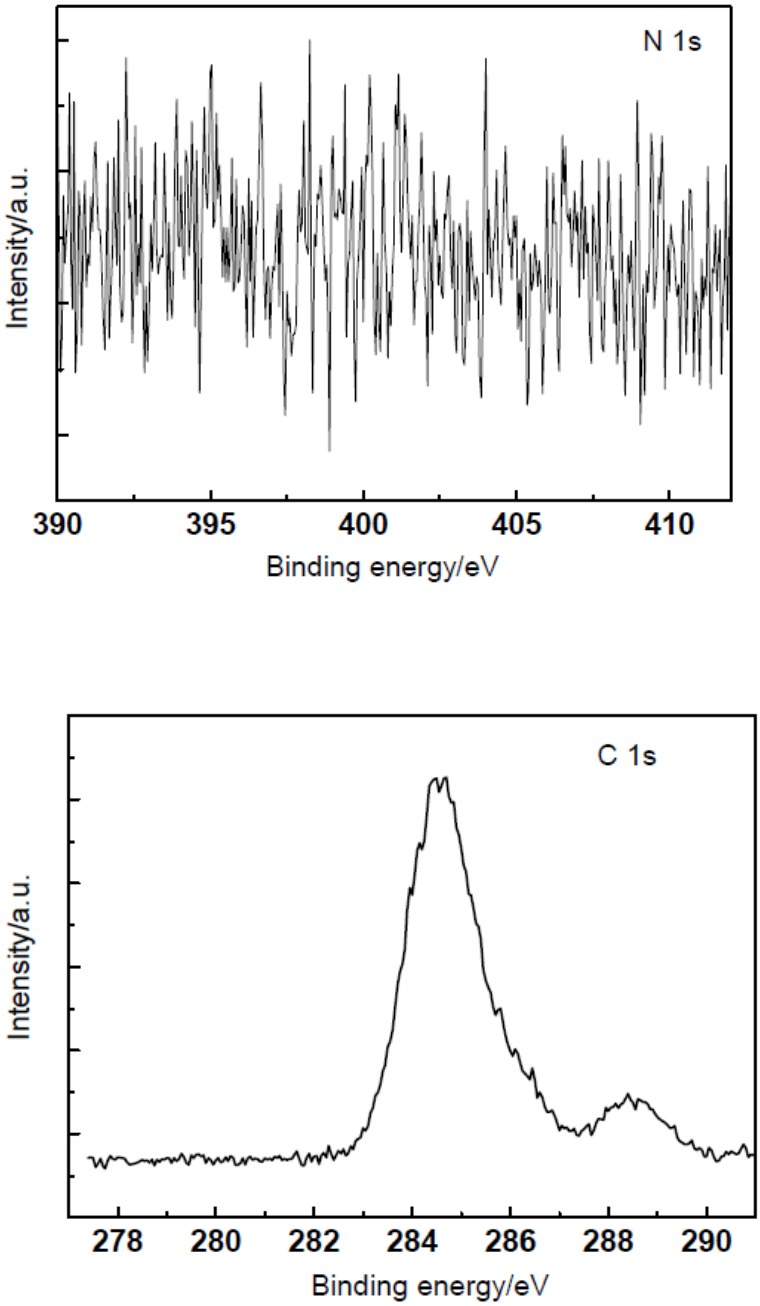

Fig. S3 High resolution spectra of C 1s and N 1s of the prepared rutile-anatase core-shell structured TiO_2.

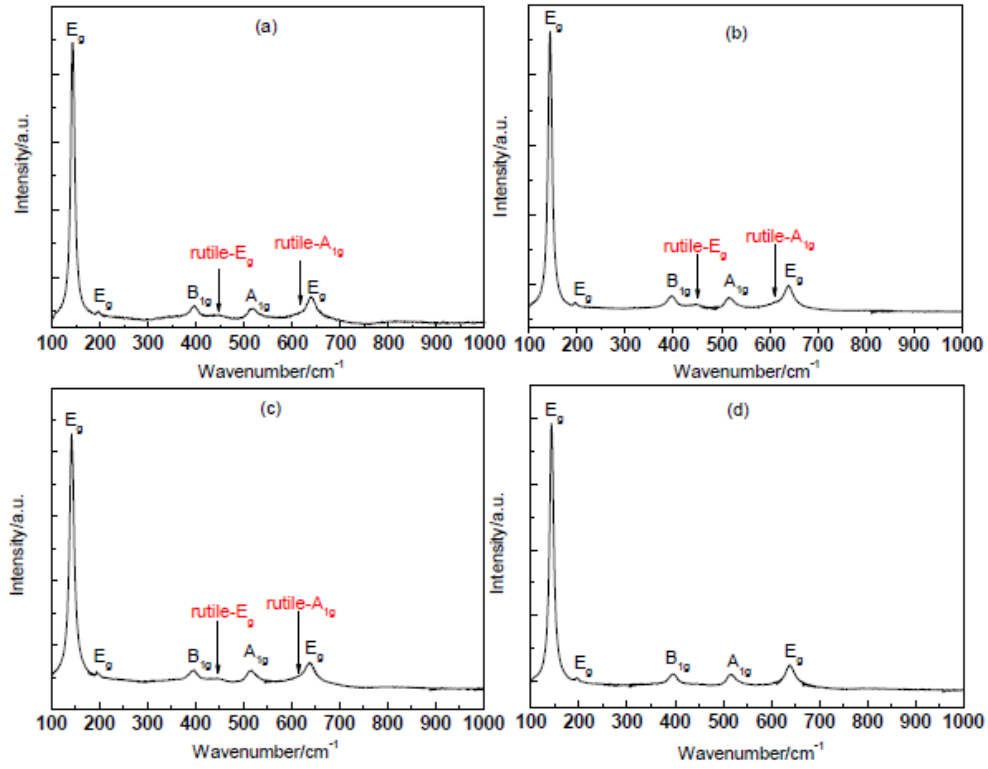

Fig. S4 Raman spectra of the different TiO_2 prepared: (a) T-7, (b) T-9, (c) T-11 and (d) T-13 prepared by calcining C-7, C-9, C-11 and C-13 at 700 ^{o}C in oxygen atmosphere, respectively

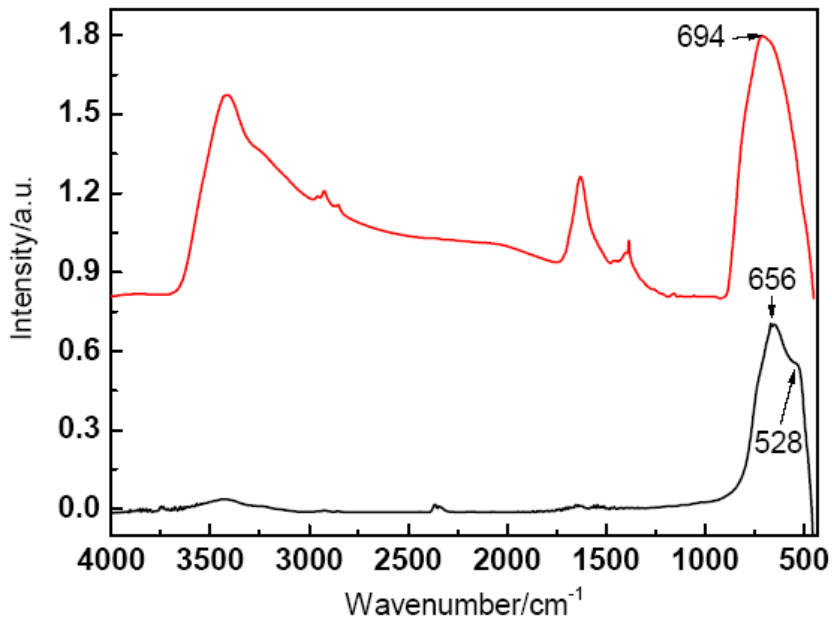

Fig. S5 FTIR spectra of the anatase (red line) and rutile (black line) TiO_2