

Supplementary Materials: Article Sulfur-doped TiO₂: structure and surface properties

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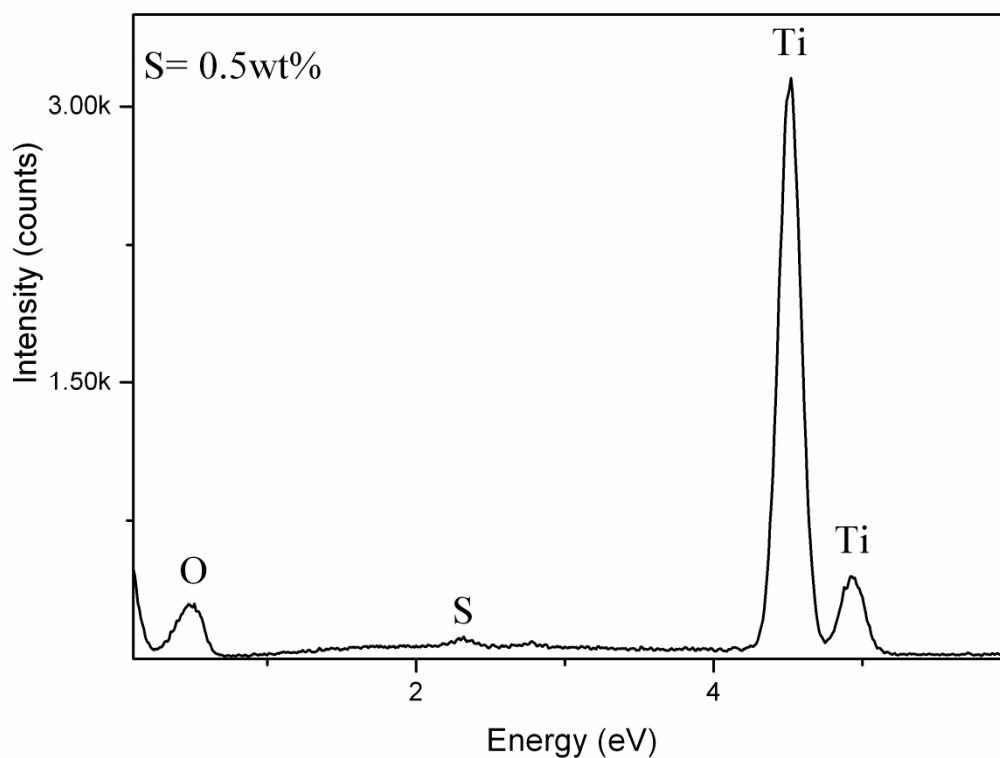


Figure S1. EDAX spectrum of TiO₂/H₂S.

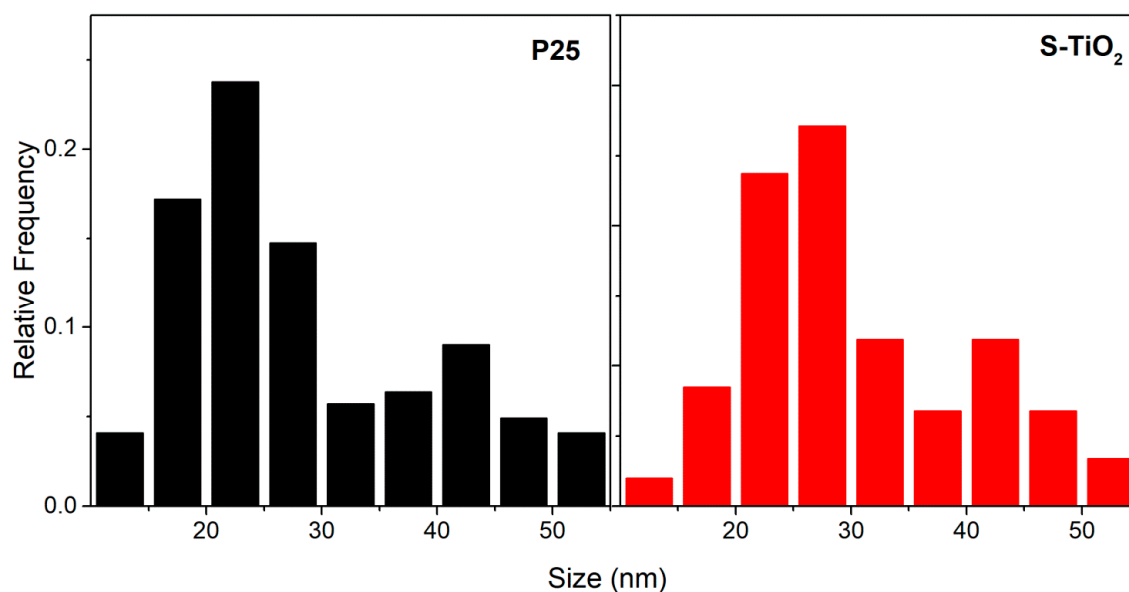


Figure S2. Particle size distributions (PSDs) of TiO₂ P25 (left panel) and of S-TiO₂ (right panel).

Table S1. Mean crystal sizes of anatase and rutile nanoparticles in TiO₂ P25 and S-TiO₂ samples, as obtained from XRD peak broadening (black and red patterns in Figure 1).

TiO ₂ P25	
(101) Anatase	25 nm
(110) Rutile	40 nm
S-TiO ₂	
(101) Anatase	26 nm
(110) Rutile	41 nm

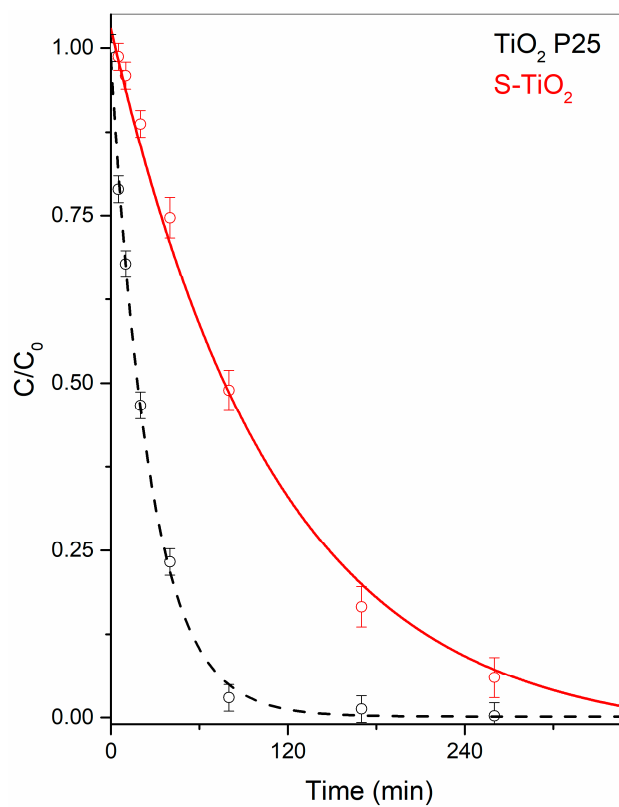


Figure S3. Time dependence of C/C_0 upon solar light exposure of S-TiO₂ (red line) as compared to the TiO₂ P25 (black dotted line), for photodegradation of methylene blue.

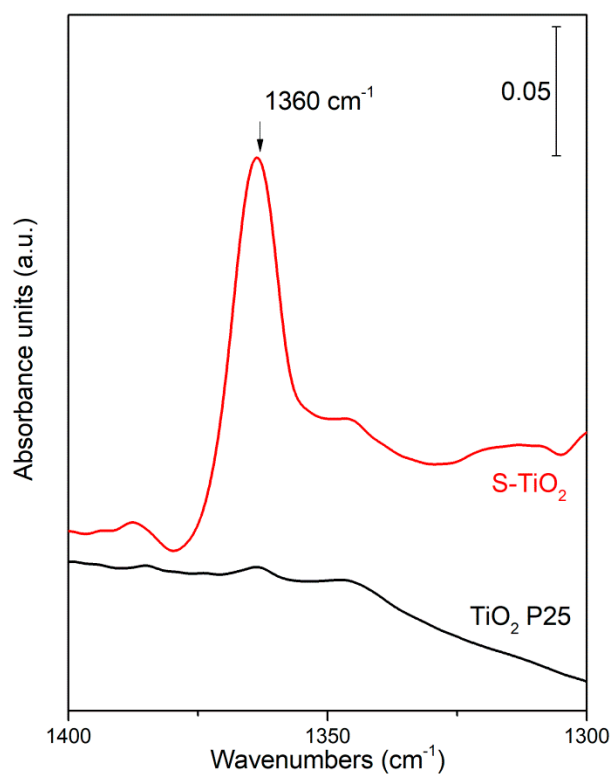


Figure S4. FTIR spectra, recorded before CO dosage, of TiO_2 (black curve) and $\text{TiO}_2/\text{H}_2\text{S}$ (red curve).