Electronic Supplementary Material (ESI) for RSC Advances.

Electronic Supplementary Information

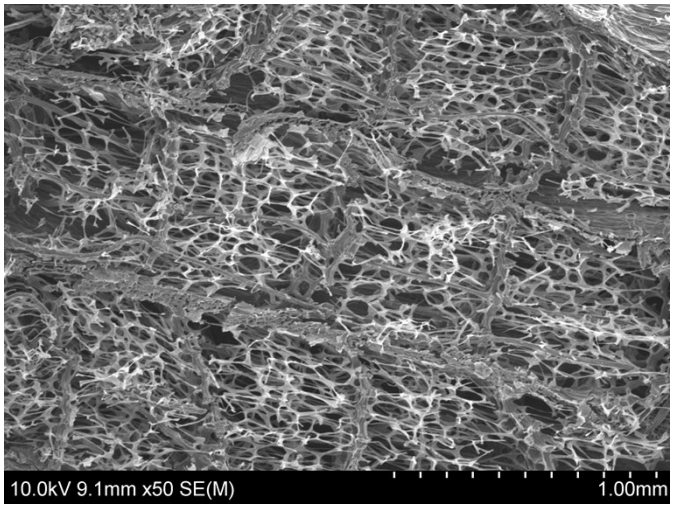

Fig. S1 SEM image of porous typha angustifolia.

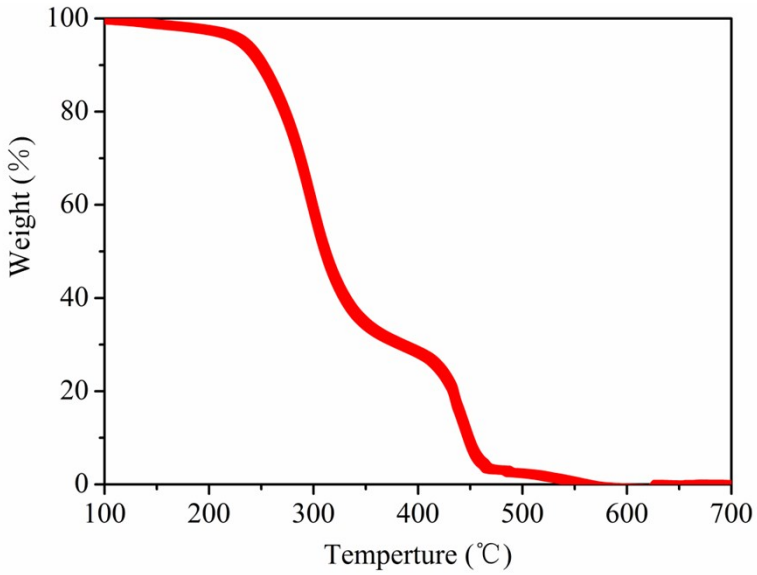

Fig. S2 The thermal gravimetric (TG) curve of the typha angustifolia as earth-abundant cost-free biotemplate.

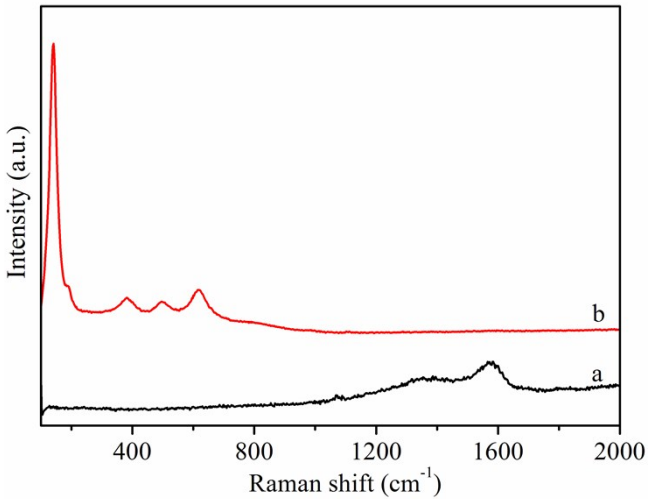

Fig. S3 Raman spectra of porous typha angustifolia biotemplate (a) and the stable mesoporous black TiO_2 nanosheets T600 (b).

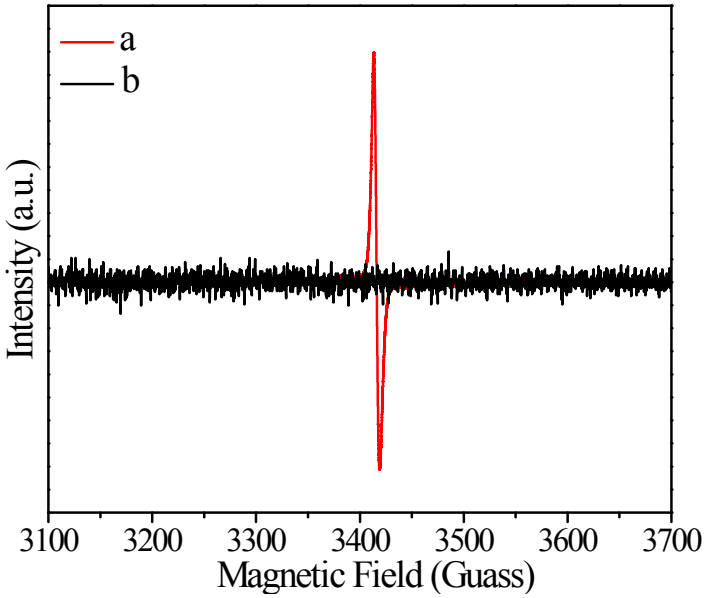

Fig. S4 Electron paramagnetic resonance (EPR) spectroscopy of the stable mesoporous black TiO_2 nanosheets after being calcined at 600 °C with (a) and without (b) surface hydrogenation.

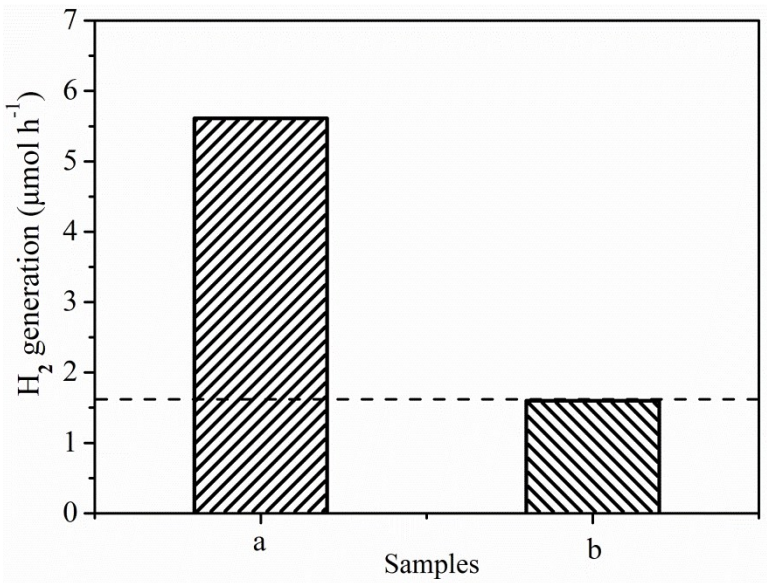

Fig. S5 Photocatalytic hydrogen evolution of the stable mesoporous black TiO_2 nanosheets after being calcined at 600 °C with (a) and without (b) surface hydrogenation under AM 1.5 without Pt cocatalylsts for 1 h.