

Supplementary Materials: Synergistic Mechanism of Rare-Earth Modification TiO₂ and Photodegradation on Benzohydroxamic Acid

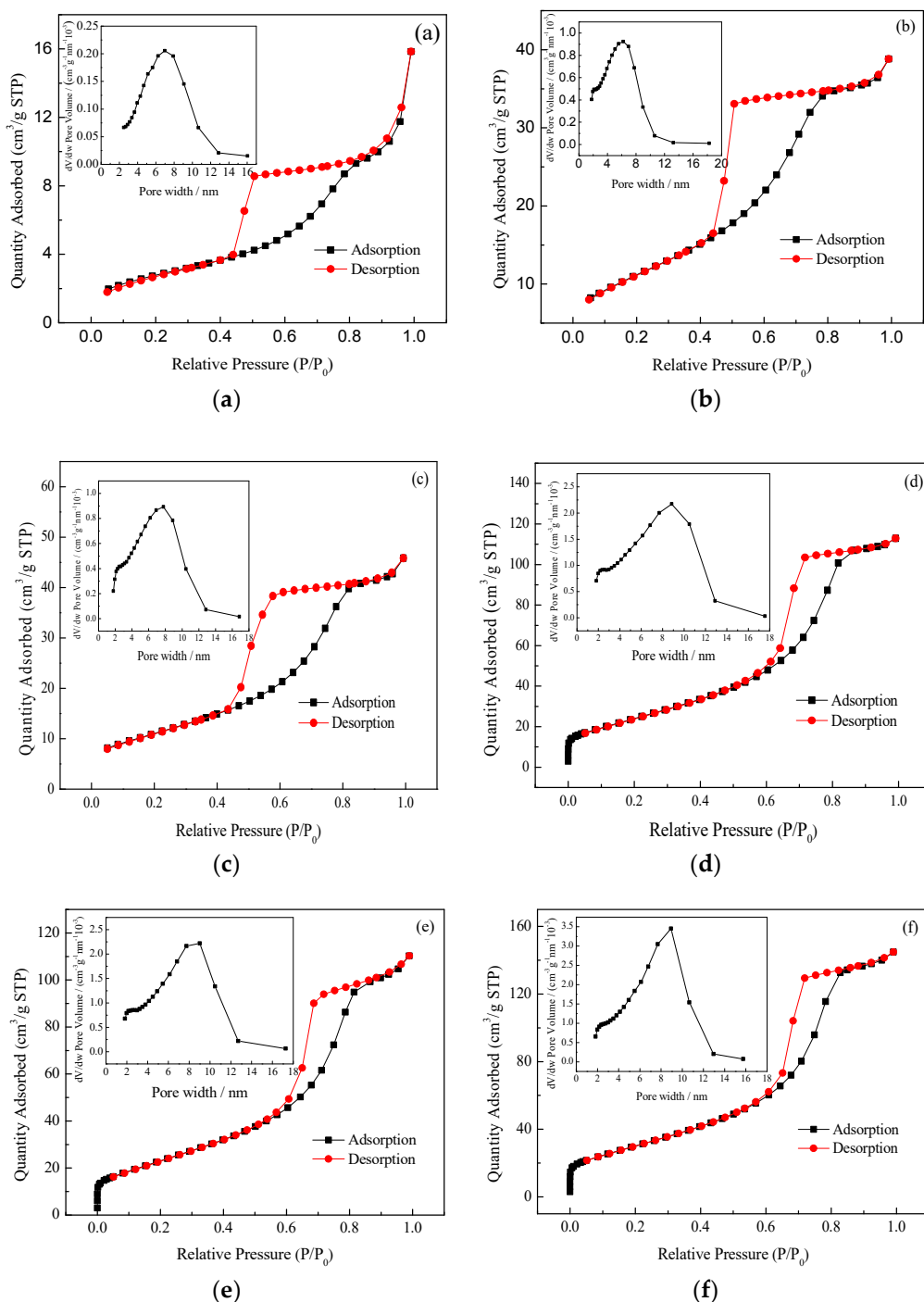


Figure S1. N₂ adsorption-desorption isotherms and pore size distributions (inset) of pure TiO₂ (a,e) and RE/TiO₂ (b,c,d,f). (a) Pure TiO₂ (500 °C); (b) 0.75% La/TiO₂ (500 °C); (c) 0.20% Ce/TiO₂ (500 °C); (d) 0.70% Gd/TiO₂ (500 °C); (e) Pure TiO₂ (450 °C); (f) 0.50% Yb/TiO₂ (450 °C).

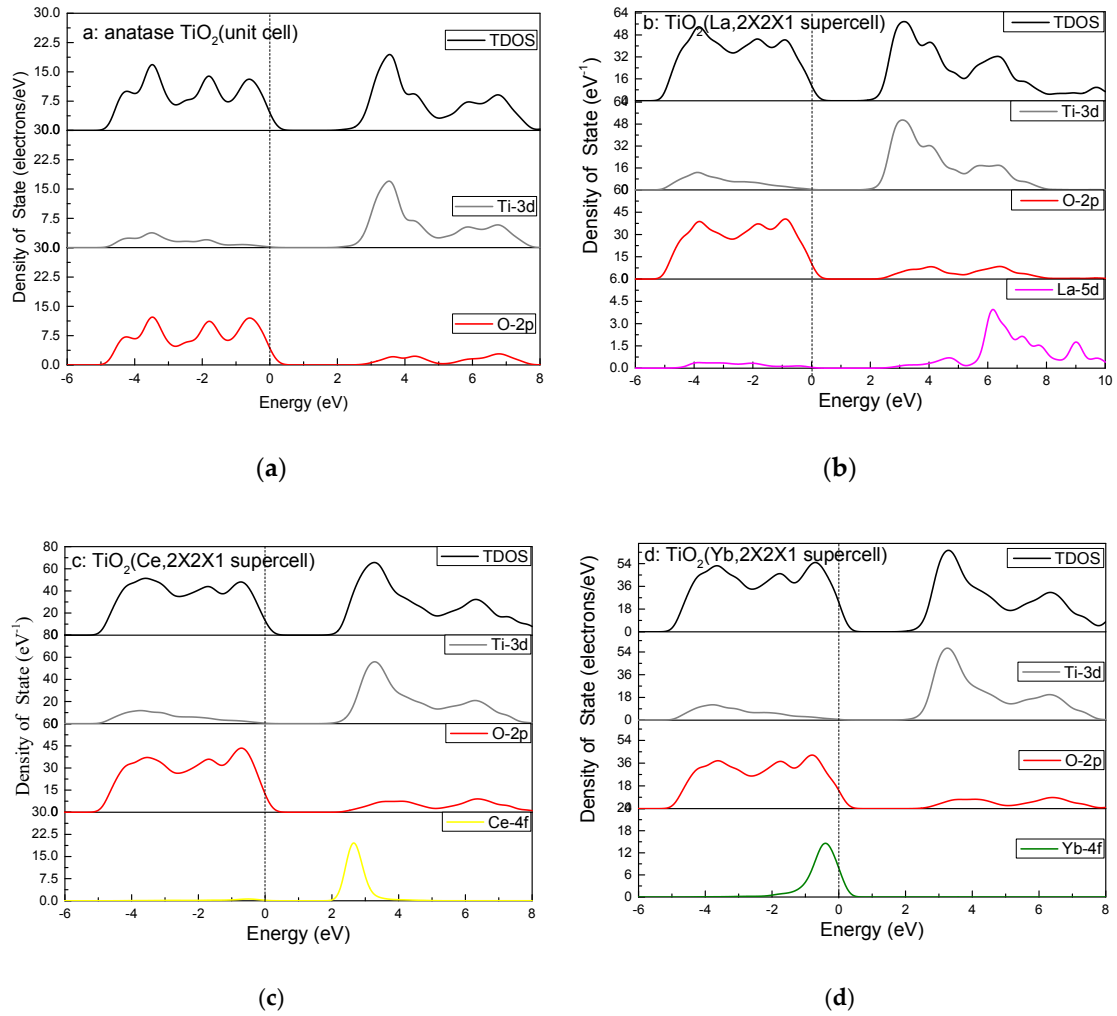


Figure S2. TDOS and PDOS of anatase TiO_2 (unit cell) and RE/ TiO_2 ($2 \times 2 \times 1$ supercell, La/ TiO_2 , Ce/ TiO_2 , Yb/ TiO_2).