

Supplementary Material

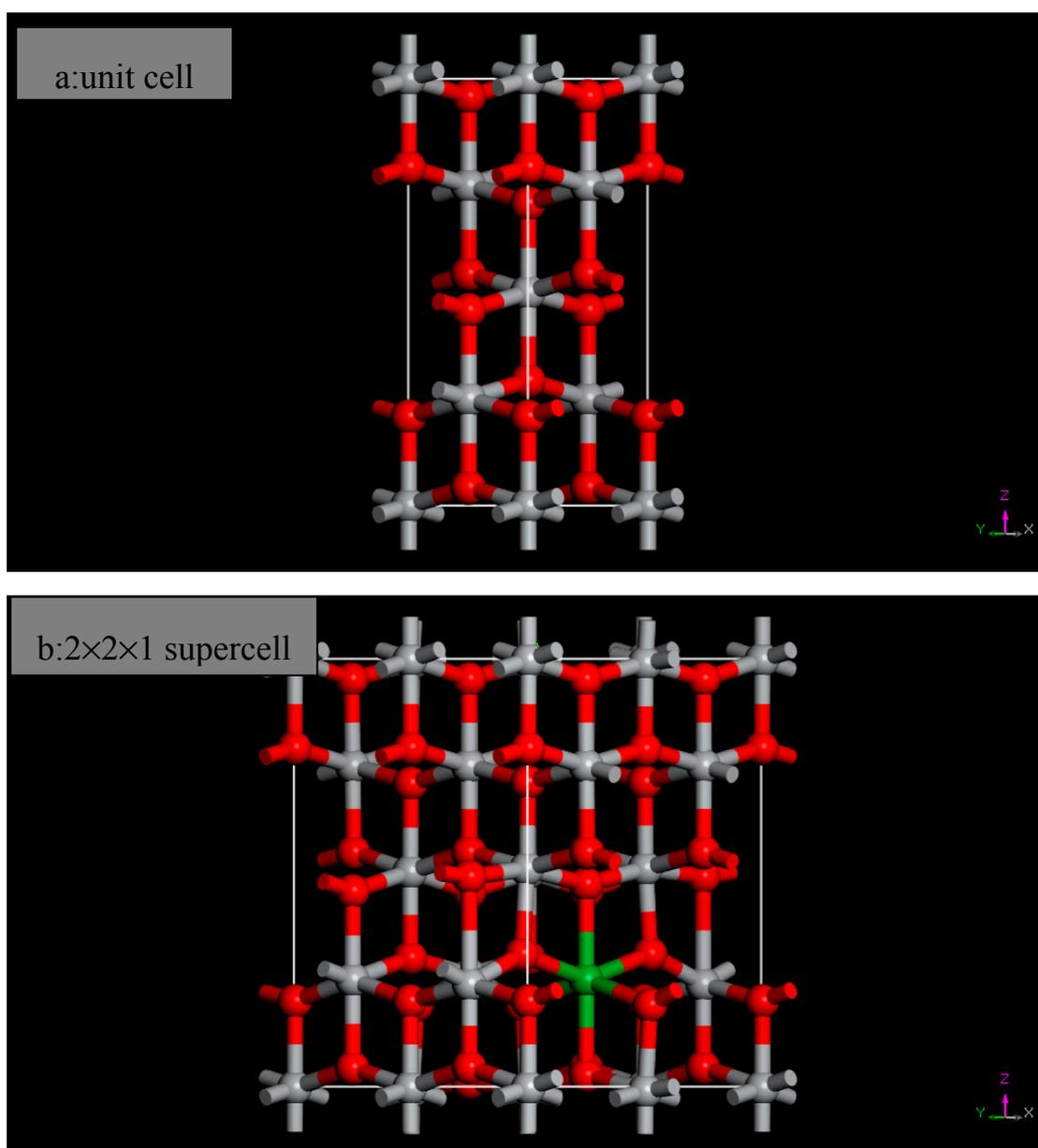


Figure S1. The unit cell of anatase TiO₂ (a) and a Yb-doped anatase TiO₂ supercell (b). The red, gray, and green spheres represent oxygen, titanium, and Ytterbium atoms, respectively.

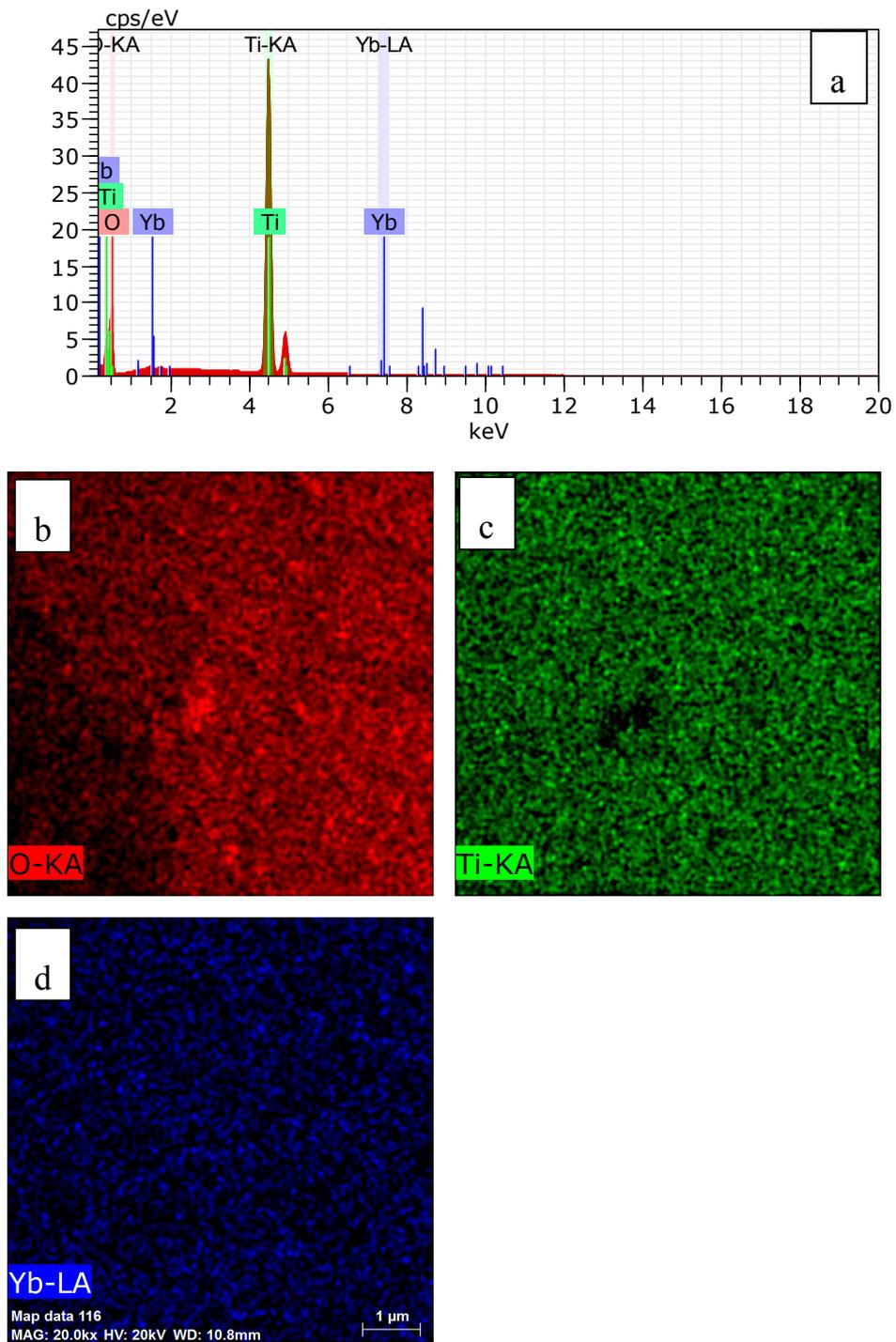


Figure S2. EDS of Yb/TiO₂ (a). Element mapping images of Ti (b), O (c), and Yb (d) of Yb/TiO₂. EDS: energy dispersive spectrometer.

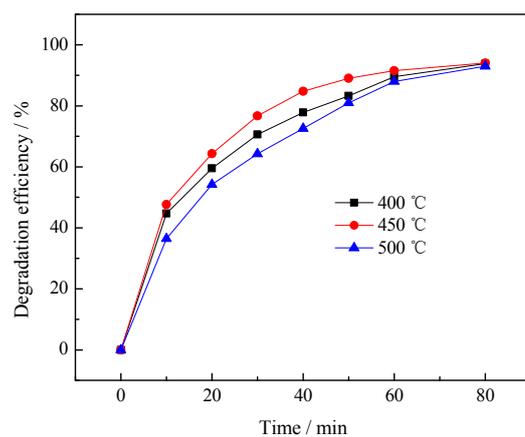


Figure S3. Effect of different calcination temperatures on photocatalytic degradation of benzohydroxamic acid (BHA). The BHA concentration was 30 mg/L, and the catalyst dosage was 0.3 g/L.

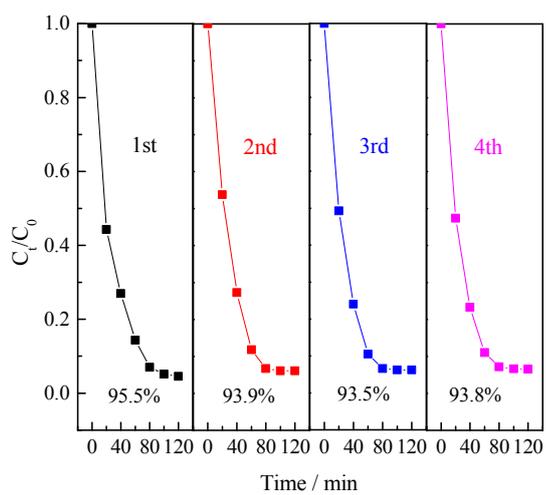


Figure S4. Recycle tests of Yb/TiO₂. The BHA concentration was 30 mg/L, and the catalyst dosage was 0.5 g/L.

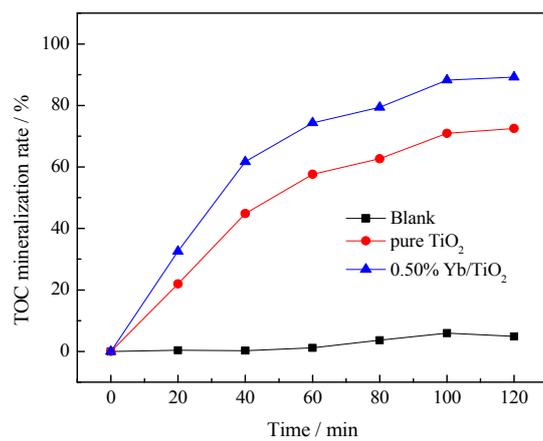


Figure S5. TOC (total organic carbon) efficiency by 0.50% Yb/TiO₂, pure TiO₂, and blank. The BHA concentration was 30 mg/L, and the catalyst dosage was 0.3 g/L.