

ARTICLE SUPPLEMENTARY

Enhanced Photocatalytic Activity of nano WO₃ via Thermal Plasma Treatment and Porphyrin Hybridization

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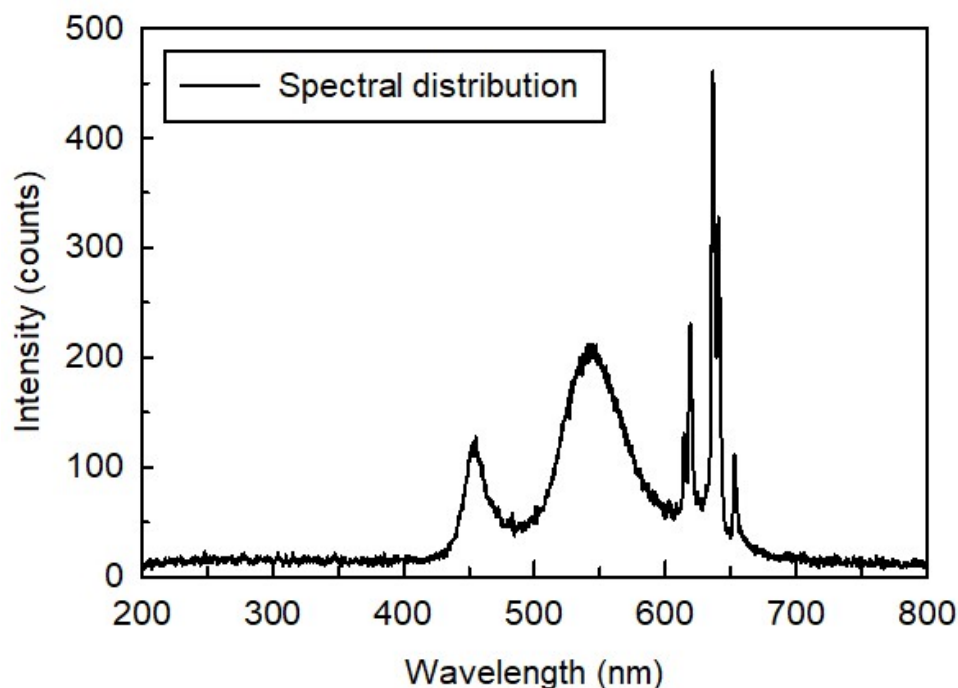
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Fig. S1: Spectral distribution of the light source

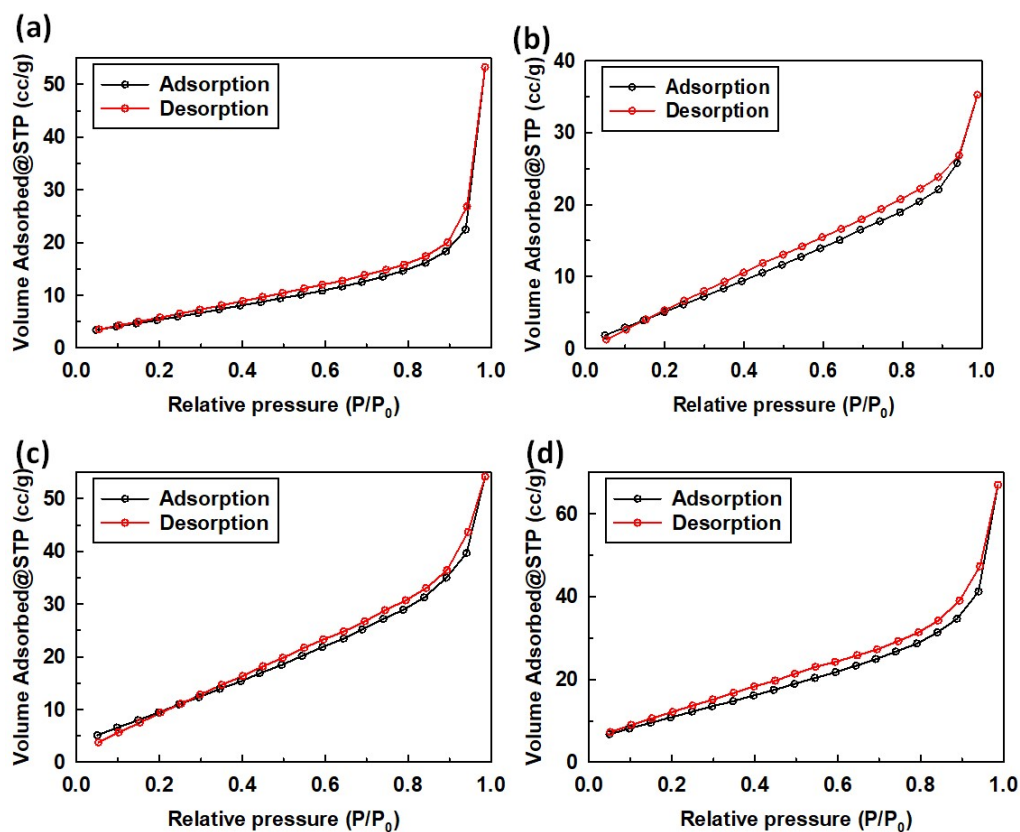


Fig. S2: Nitrogen adsorption–desorption isotherms of (a) $\text{WO}_3 \cdot \text{H}_2\text{O}$ precursor, (b) P01, (c) P02, and (d) P03 measured at 77 K

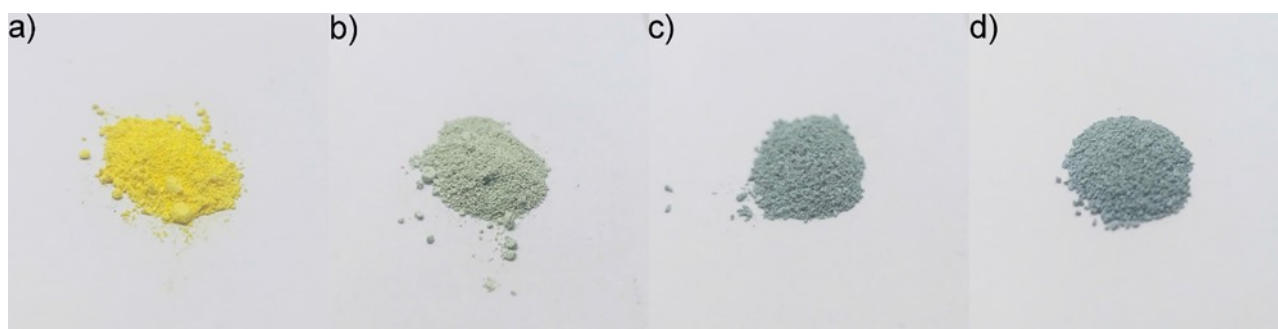


Fig. S3: Images of (a) $\text{WO}_3 \cdot \text{H}_2\text{O}$, (b) P01, (c) P02, and (d) P03

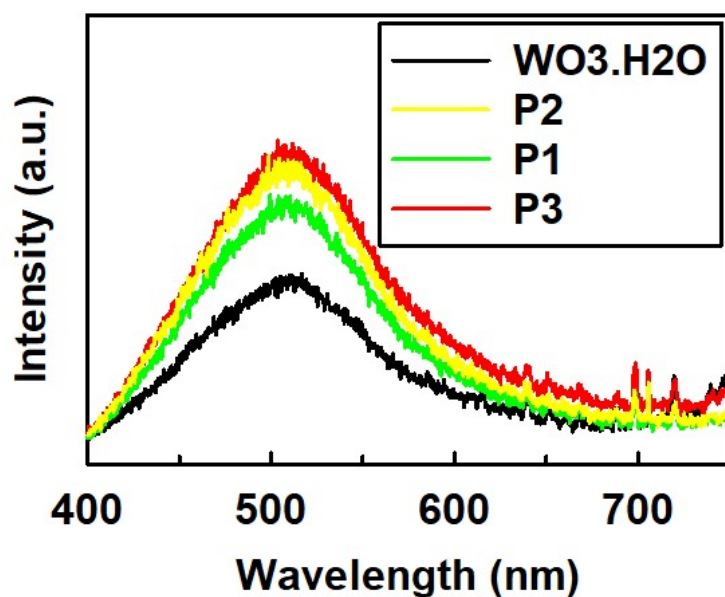


Fig. S4: PL emission spectra of $\text{WO}_3 \cdot \text{H}_2\text{O}$ precursor and P01–P03 measured by laser 355 nm

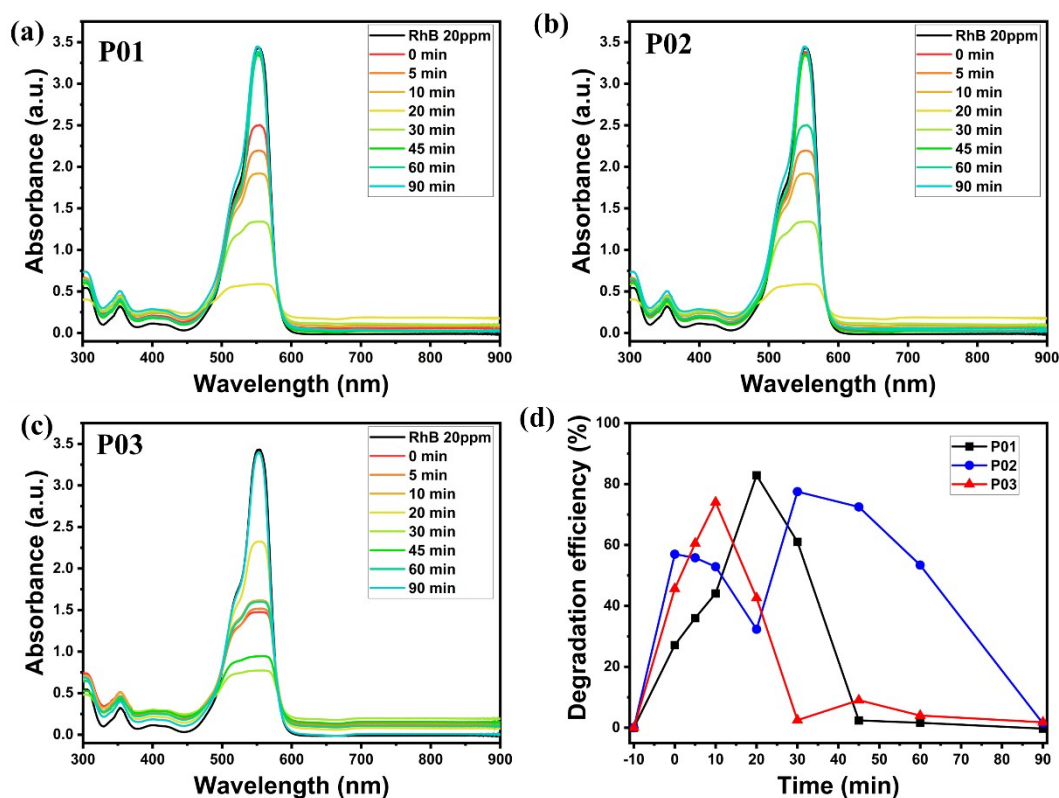


Fig. S5: Control experiments on plasma-treated WO_3 without TCPP: UV-Vis absorption spectra of P01 (a), P02 (b), and P03 (c), and (d) degradation efficiency curves

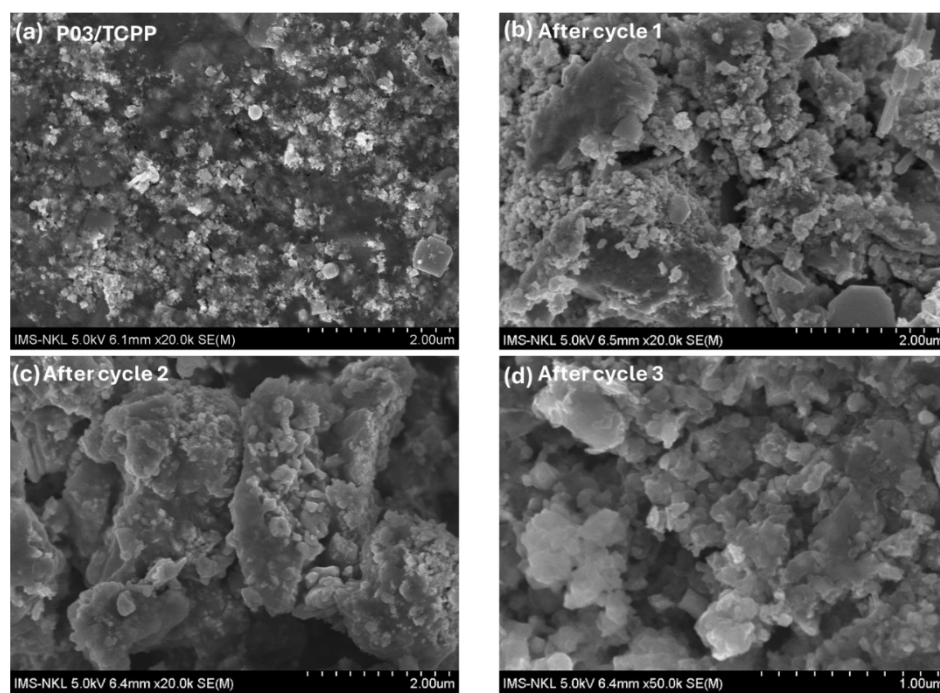


Fig. S6: SEM image of P03/TCPP after fabrication (a) and after photocatalysis cycle 1-3 (b-d)