

Facile Construction of 2D/2D ZnIn₂S₄-Based Bifunctional Photocatalysts for H₂ Production and Simultaneous Degradation of Rhodamine B and Tetracycline

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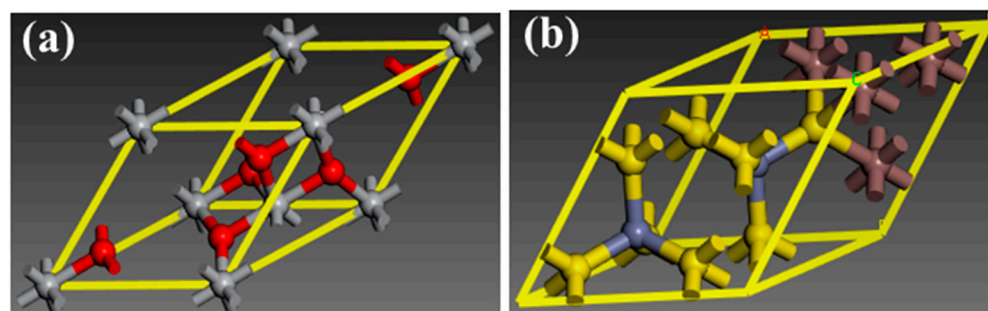


Figure S1. Structure models of TiO₂ (a) and ZnIn₂S₄ (b).

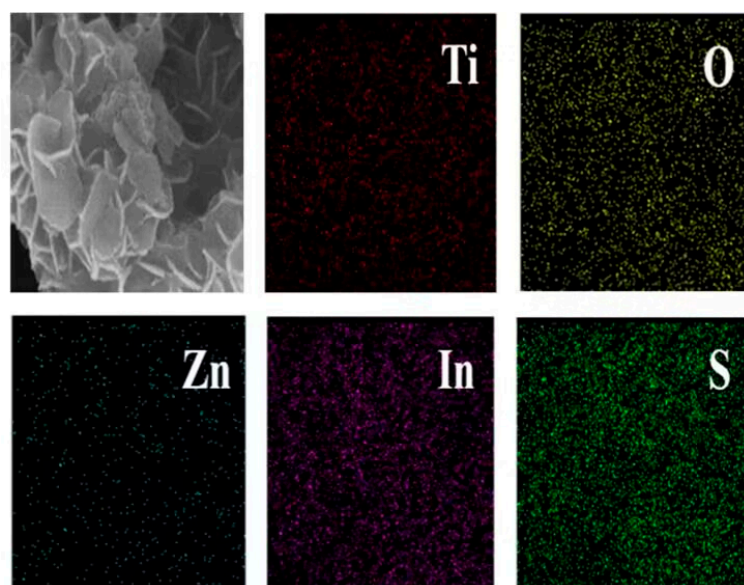


Figure S2. The elemental mapping images of TiO₂/ZnIn₂S₄-10 wt%.

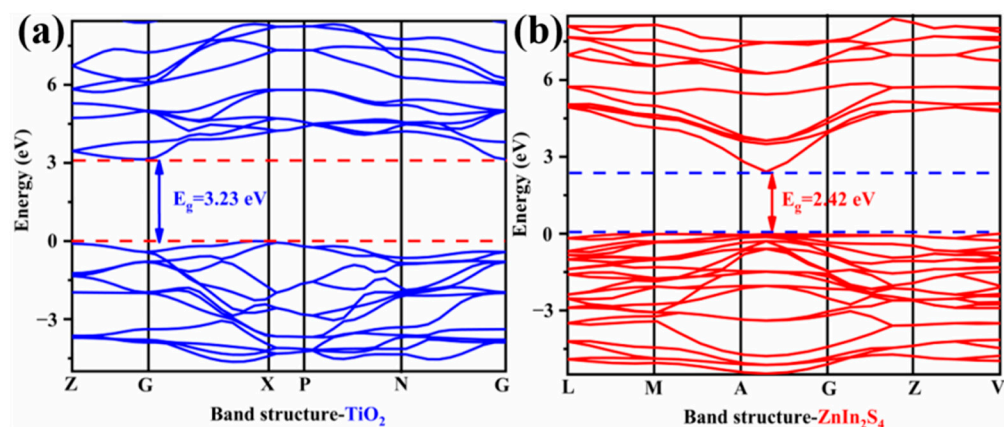


Figure S3. Calculated band structures of TiO_2 (a) and ZnIn_2S_4 (b).

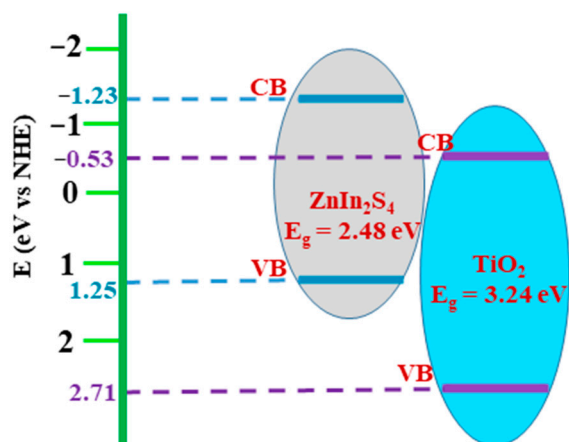


Figure S4. The energy band structure of TiO_2 and ZnIn_2S_4 .

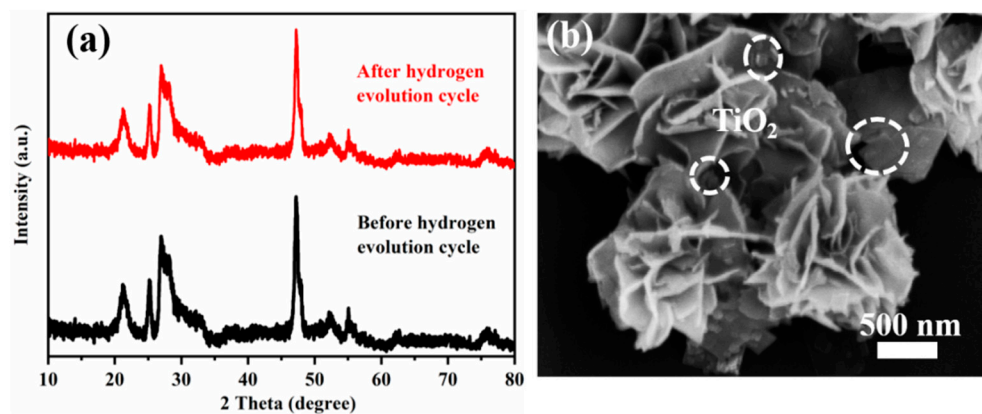


Figure S5. The XRD patterns (a) and SEM image (b) of $\text{TiO}_2/\text{ZnIn}_2\text{S}_4$ -10 wt% in the recycled photocatalytic H_2 development.

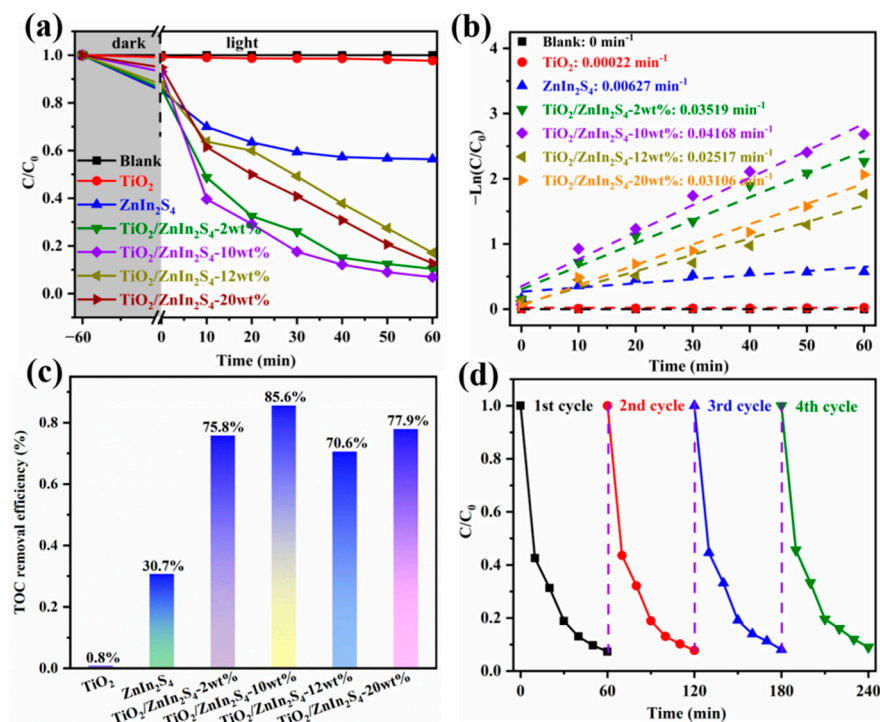


Figure S6. Photocatalytic degradation rate (a), the pseudo-first-order kinetics fitted curves (b), and TOC removal rate (c) of RhB over all samples; Maintenance of catalytic performance of $\text{TiO}_2/\text{ZnIn}_2\text{S}_4$ -10 wt% (d).

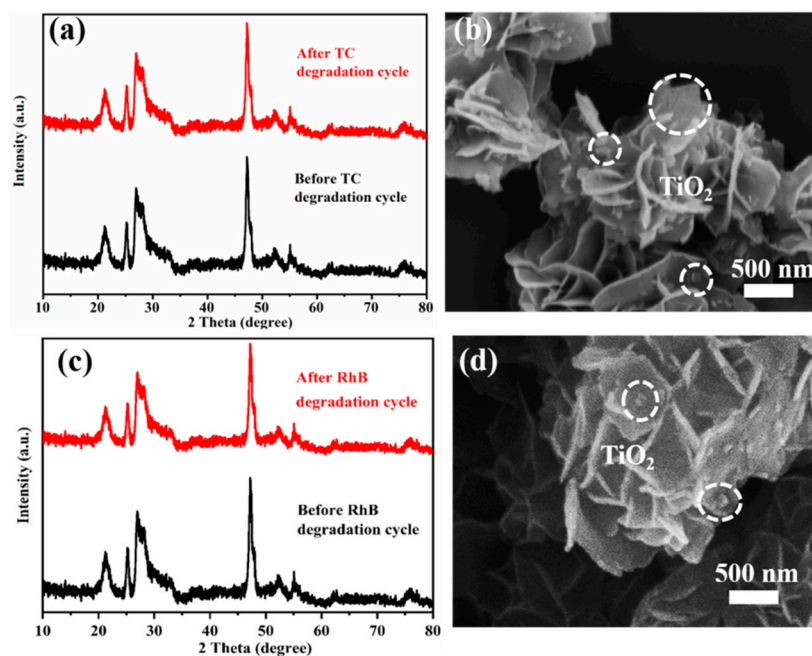


Figure S7. The XRD patterns and SEM images of $\text{TiO}_2/\text{ZnIn}_2\text{S}_4$ -10 wt% in the recycling photocatalytic degradation of TC (a,b) and RhB (c,d).