Supporting Information for

Green synthesis of BiOBr modified Bi₂O₂CO₃ nanocomposites with

enhanced visible-responsive photocatalytic properties

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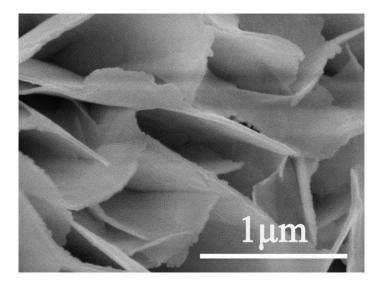


Fig. S1. SEM images of 60% Bi₂O₂CO₃/ BiOBr sample.

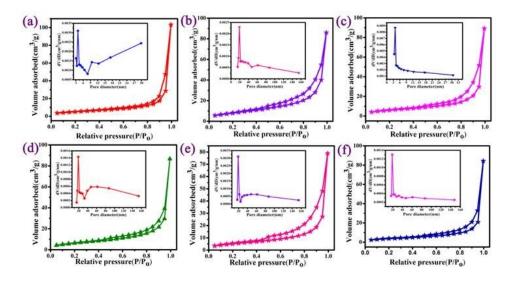


Fig. S2. Nitrogen adsorption-desorption isotherms and pore size distribution for: (a) Bi₂O₂CO₃, (b) 20% Bi₂O₂CO₃/BiOBr, (c) 40% Bi₂O₂CO₃/BiOBr, (d) 60% Bi₂O₂CO₃/BiOBr, (e) 80% Bi₂O₂CO₃/BiOBr and (f) BiOBr.

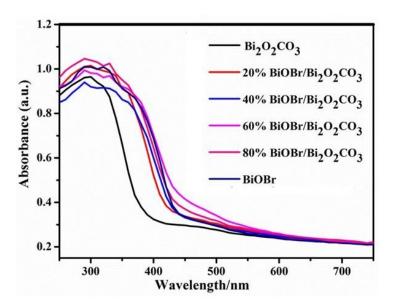


Fig. S3. UV-visible diffuse reflectance spectra of the as-prepared samples.

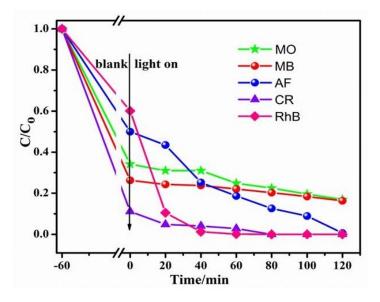


Fig. S4. Photocatalytic degradation curves of 60% Bi₂O₂CO₃/ BiOBr sample for methyl orange (MO, 10 mg/L), methyl blue (MB, 20 mg/L), acid fuchsin (AF, 20 mg/L), congo red (CR, 20 mg/L) and rhodamine B (RhB, 20 mg/L) under visible light irradiation.

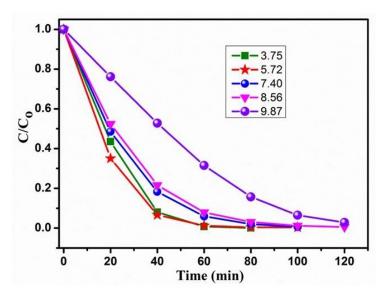


Fig. S5. Photocatalytic degradation curves of RhB solutions with diferent initial pH over 60% BiOBr/Bi₂O₂CO₃ sample.

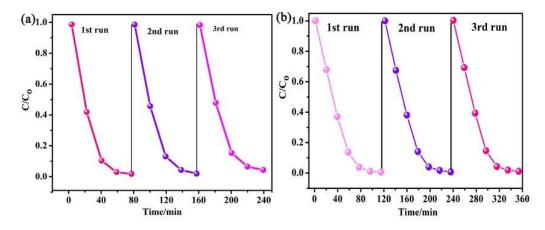


Fig. S6. Cycling runs of (a) 60% BiOBr/Bi₂O₂CO₃ and (b) single BiOBr samples under visiblelight irradiation.