

Supplementary Materials:
**Remazol Black Decontamination Study Using a Novel One Pot
Synthesized S and Co Co-Doped TiO₂ Photocatalyst**

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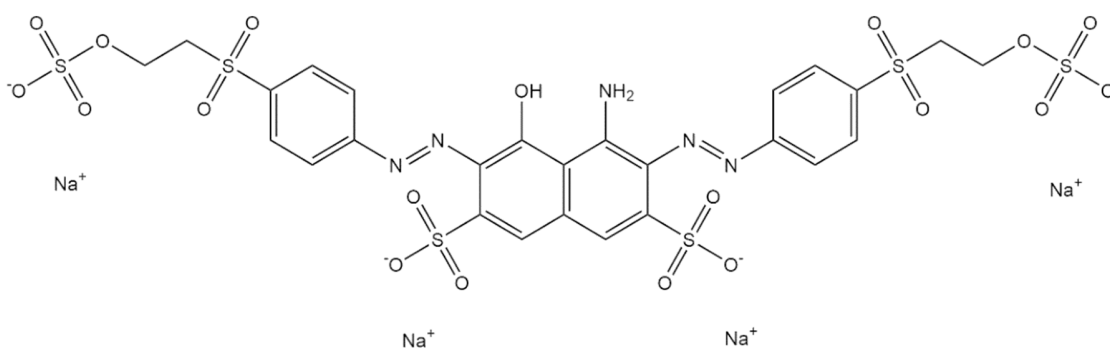


Figure S1. Chemical structure of Remazol Black (RBB)

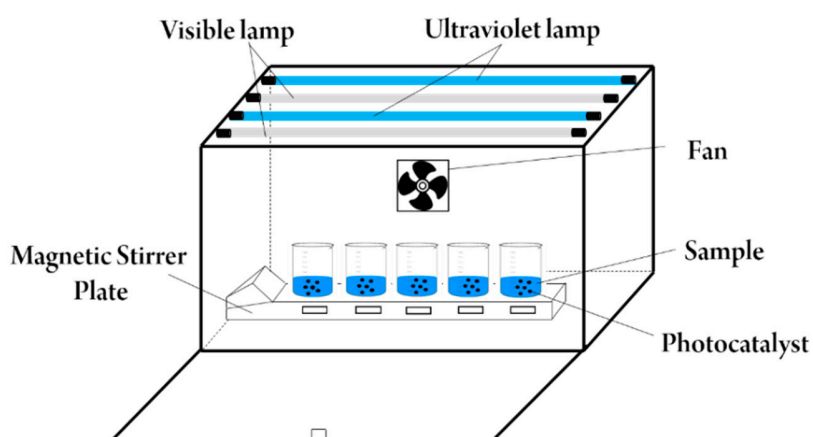
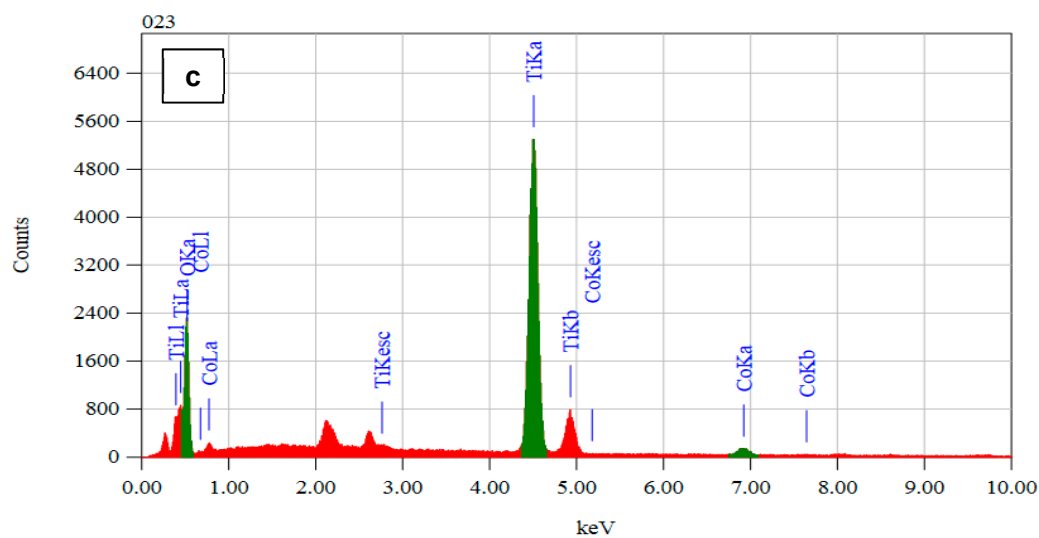
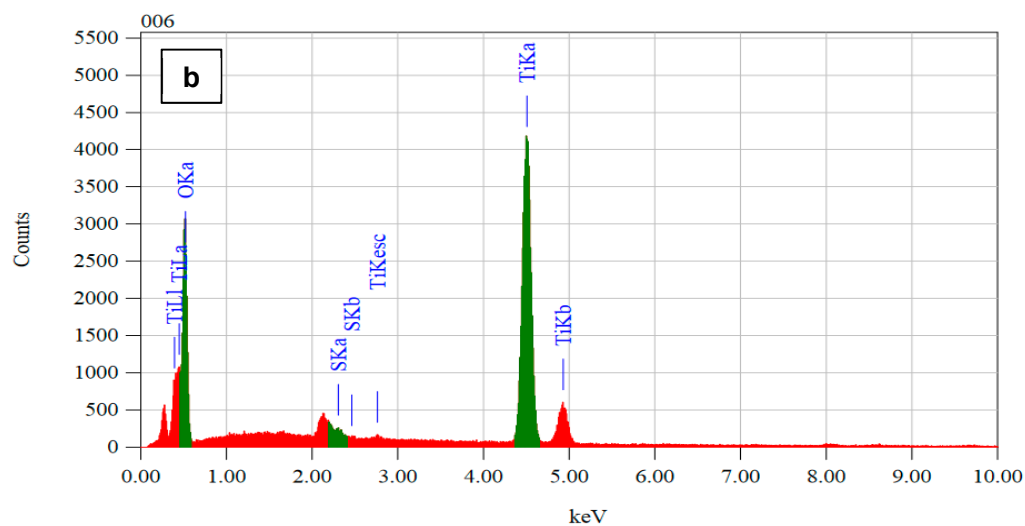
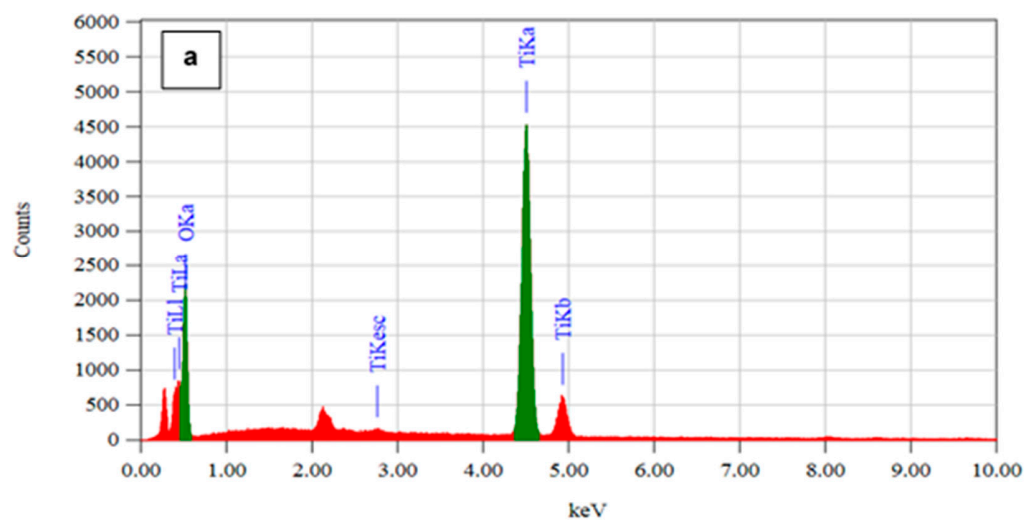
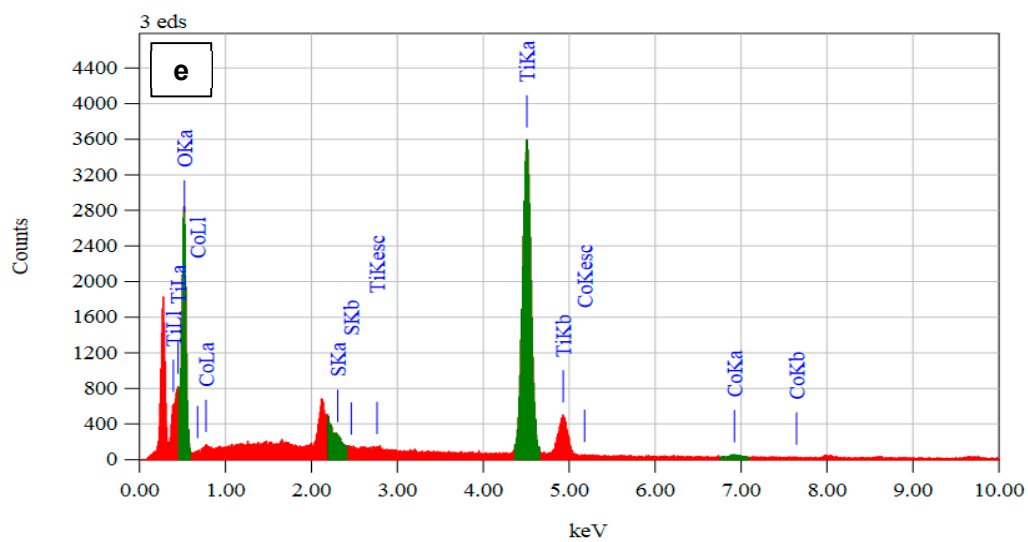
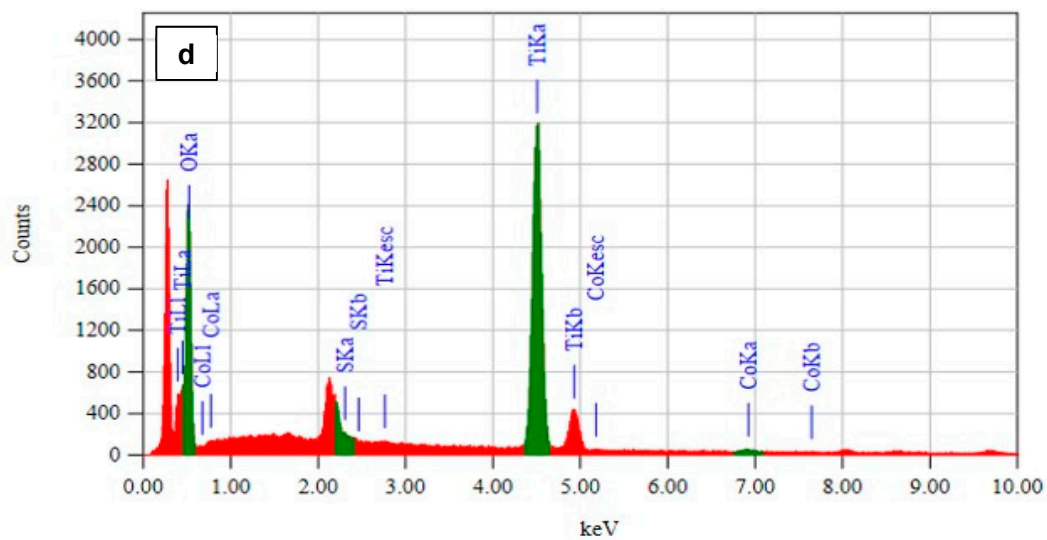


Figure S2. Schematic diagram of photoreactor for photocatalytic experiment





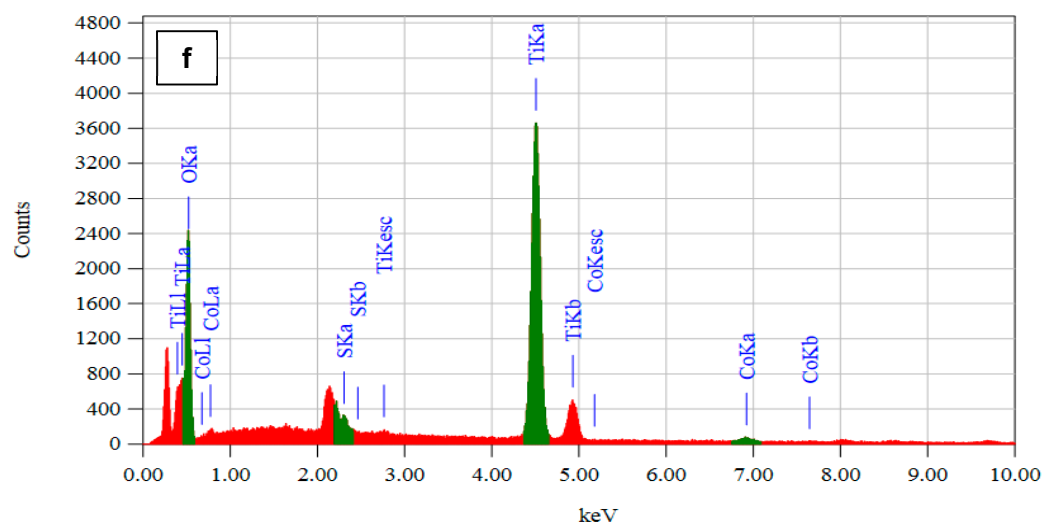


Figure S3. EDX pattern of (a) TiO_2 , (b) S-TiO_2 , (c) Co-TiO_2 , (d) S-Co-TiO_2 4%, (e) S-Co-TiO_2 6%, and (f) S-Co-TiO_2 8%

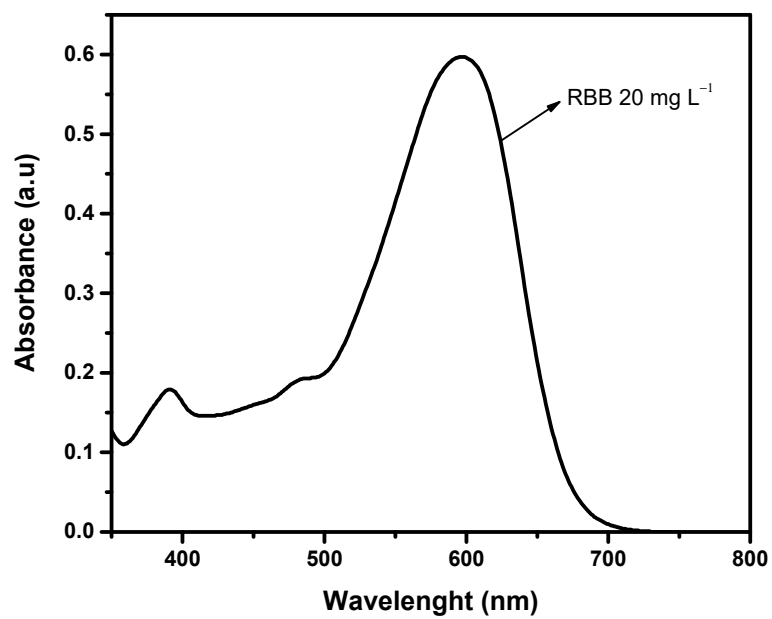


Figure 4. Absorption spectrum of Remazol Black analyzed by spectrophotometry, Remazol Black concentration: 20 mg L⁻¹

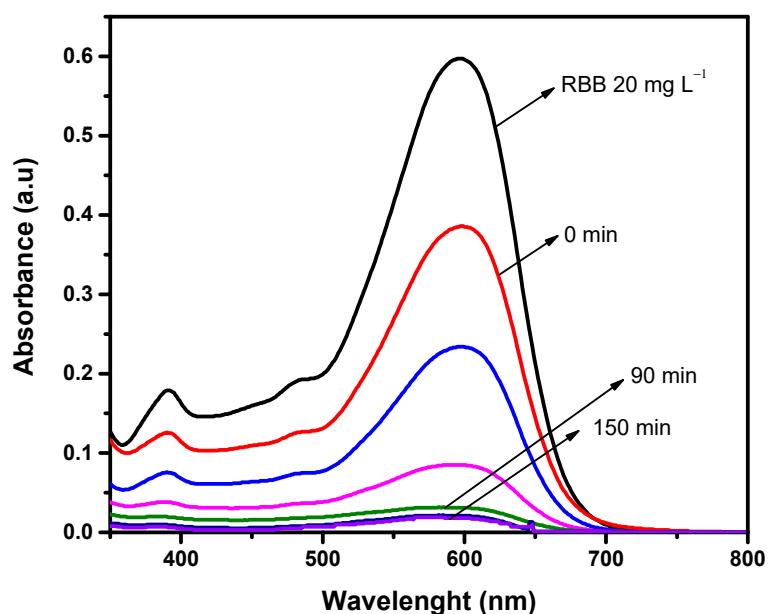


Figure S5. Spectrum of Remazol Black after decolorization by S-Co-TiO₂ 8% photocatalyst for 150 minutes visible light irradiation, photocatalyst dose: 1.0 g L⁻¹, initial pH: 5.5, Remazol Black concentration: 20 mg L⁻¹

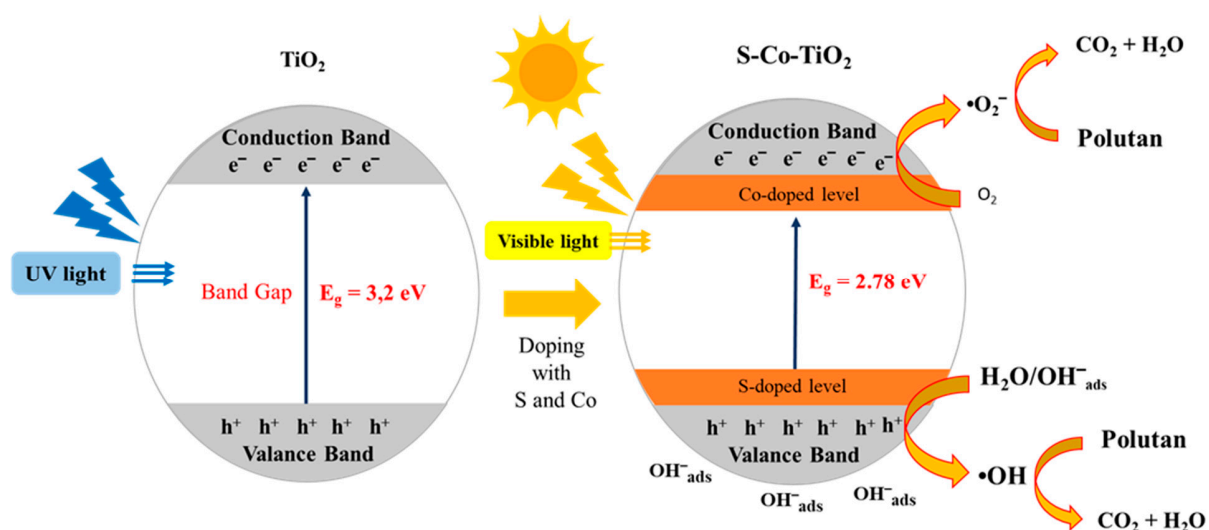


Figure S6. Schematic diagram of photocatalytic decolorization of RBB by S-Co-TiO₂ photocatalyst