

Electronic supplementary information

Single-Crystalline Orthorhombic Molybdenum Oxide Nanobelts: Synthesis and Photocatalytic Properties

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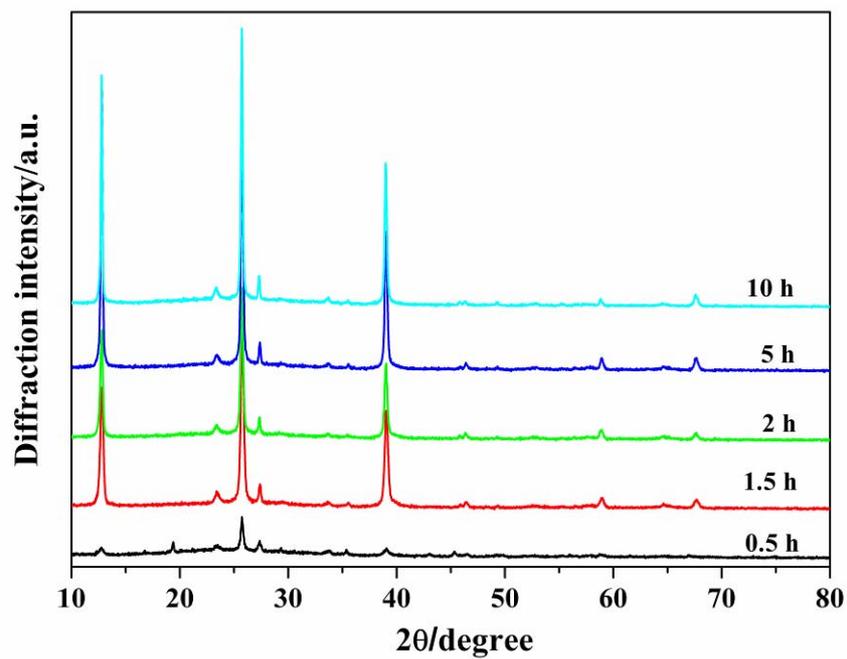


Fig. S1 XRD patterns of the products obtained at different reaction time intervals in the presence of TX-10

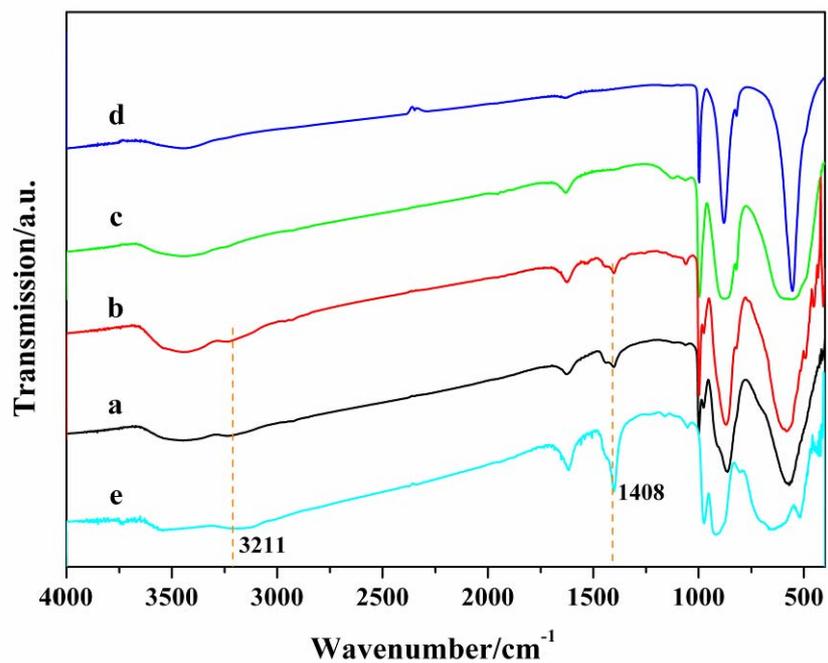


Fig. S2 FT-IR spectra of the products obtained at different reaction time intervals in the presence of TX-10. (a) 180 °C, 5 min; (b) 180 °C, 0.5 h; (c) 180 °C, 5 h; (d) 180 °C, 20 h; (e) 80 °C, 20 h

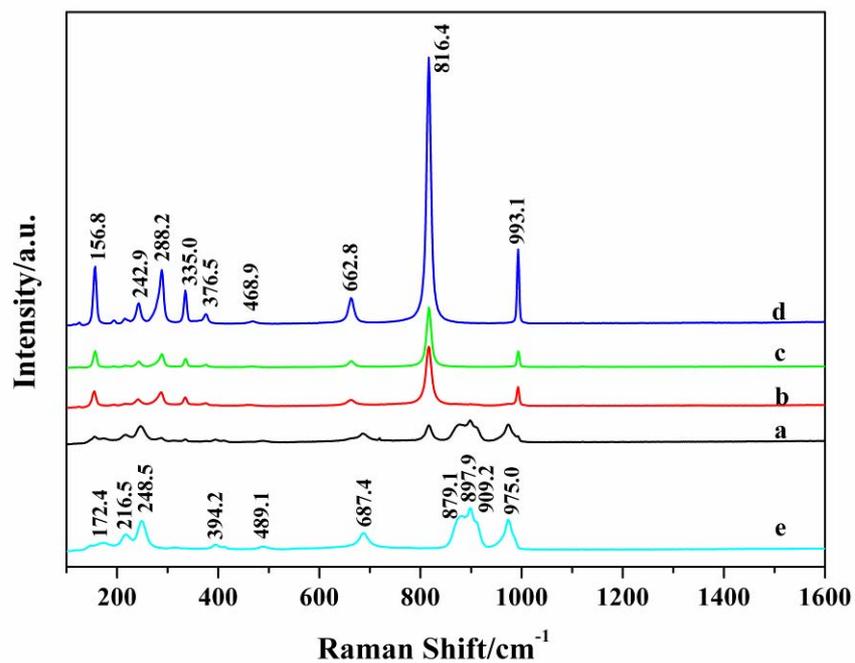


Fig. S3 Raman spectra of the products obtained at different reaction time intervals in the presence of TX-10. (a) 180 °C, 5 min; (b) 180 °C, 0.5 h; (c) 180 °C, 5 h; (d) 180 °C, 20 h; (e) 80 °C, 20 h

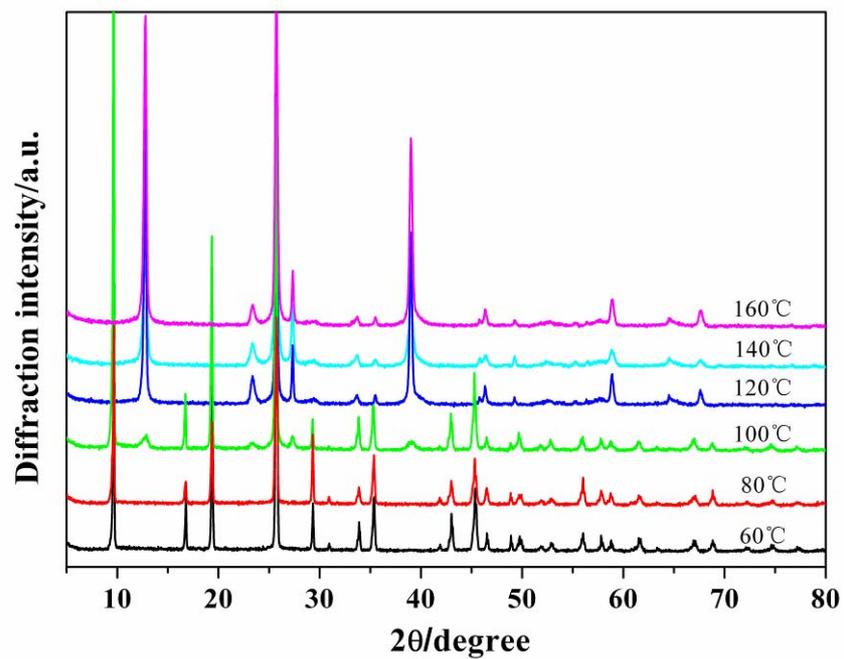


Fig. S4 XRD patterns of the products obtained at different reaction temperatures in the presence of TX-10

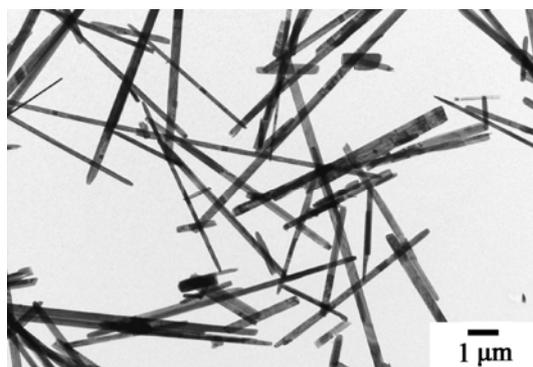


Fig. S5 TEM image of the product obtained in the absence of TX-10

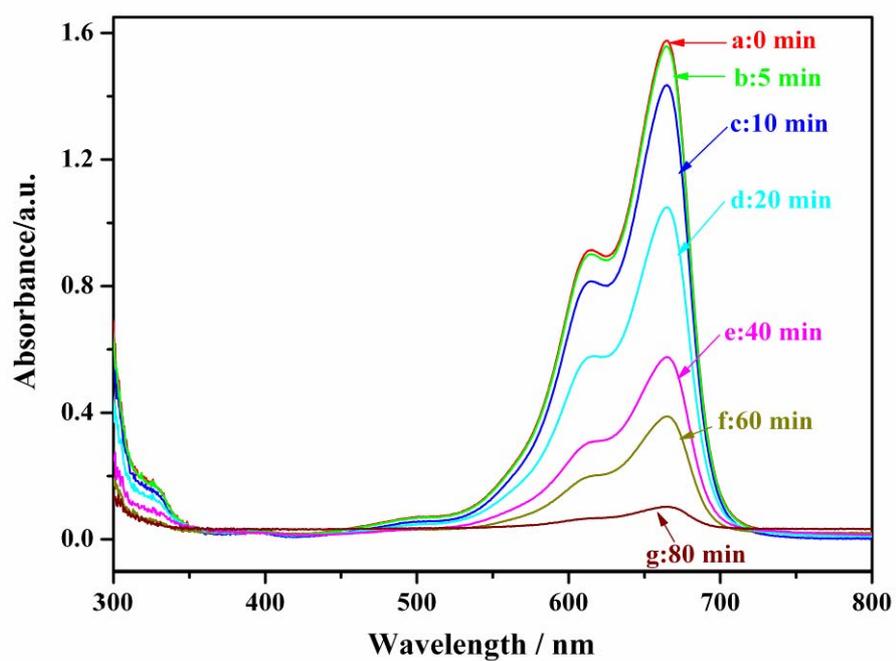


Fig. S6 Absorption spectra of the MB solution (10 mg/L, 100 mL) in the presence of 50 mg bulk MoO_3 at different time intervals

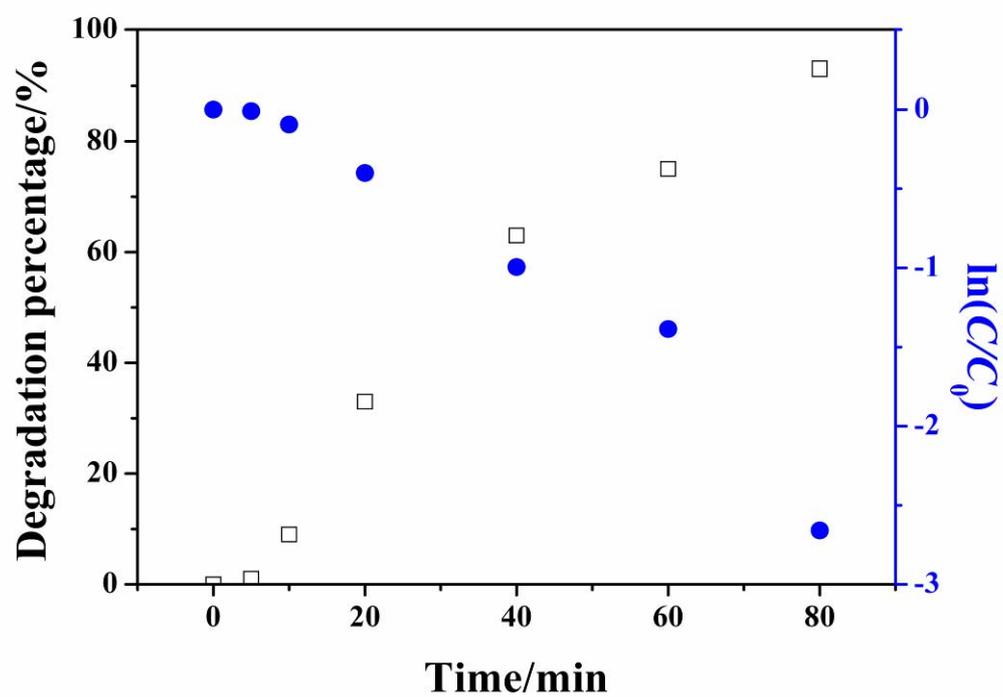


Fig. S7 Degradation percentage of MB (10 mg/L, 100 mL) in the presence of 50 mg bulk MoO₃ under visible light irradiation

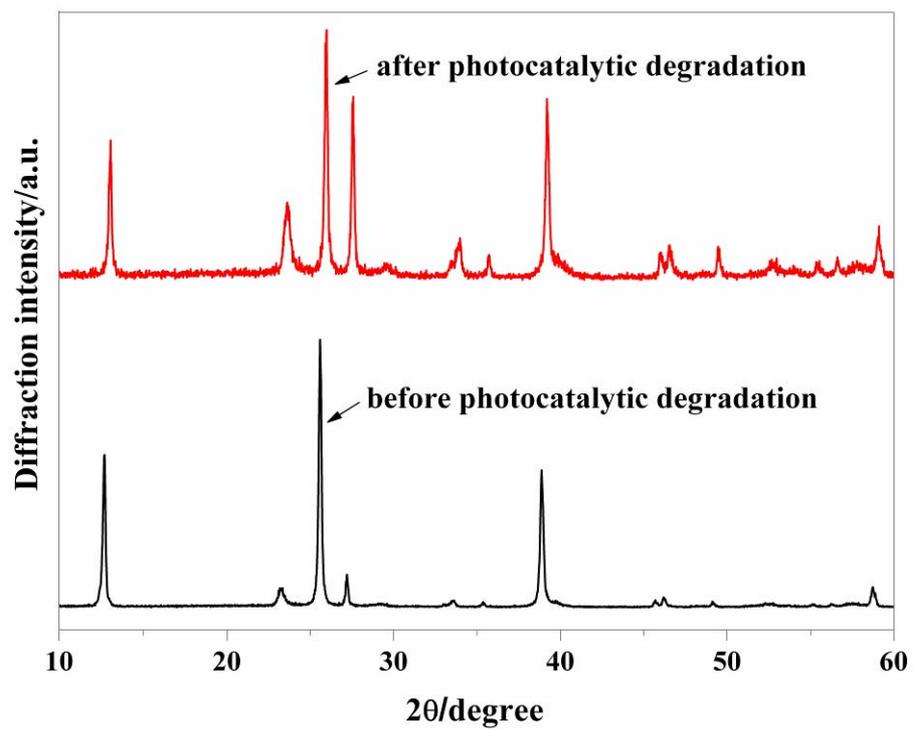


Fig. S8 XRD patterns of the as-synthesized MoO₃ nanobelts before and after photocatalytic degradation

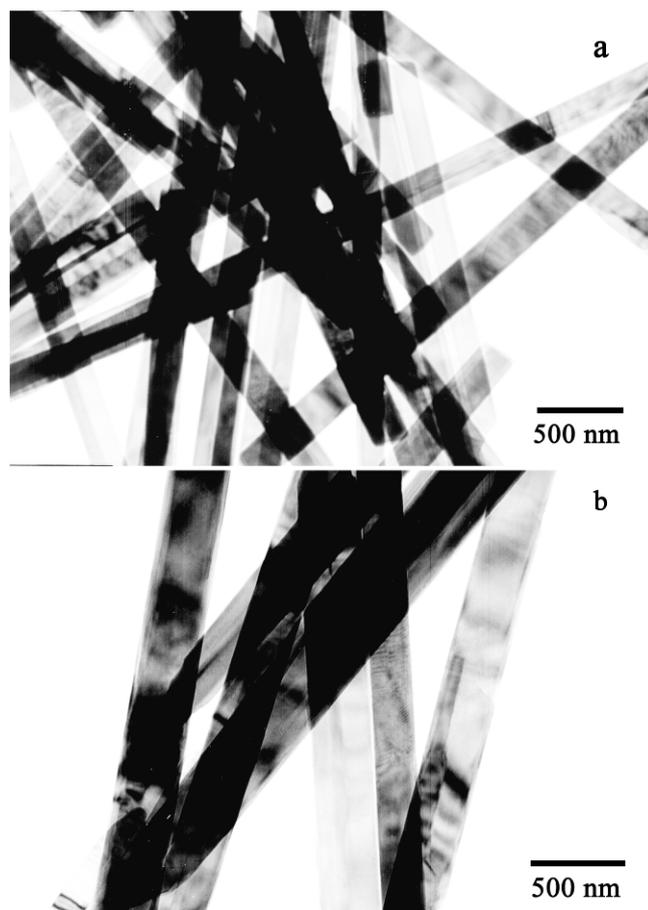


Fig. S9 TEM images of the as-synthesized MoO₃ nanobelts (a) before photocatalytic degradation; (b) after photocatalytic degradation

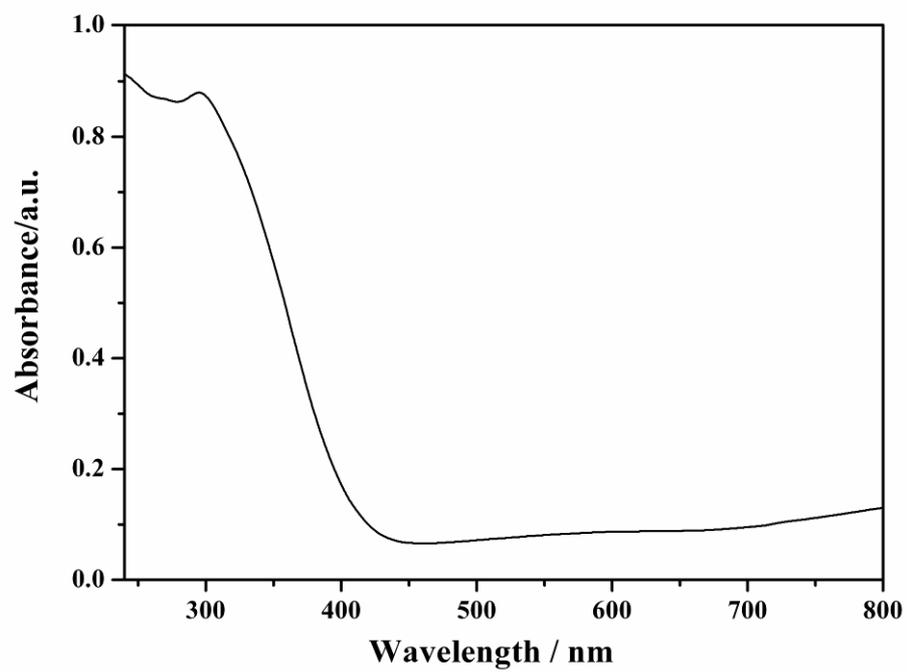


Fig. S10 Ultraviolet/visible (UV/vis) reflectance spectrum of the as-synthesized MoO₃ nanobelts