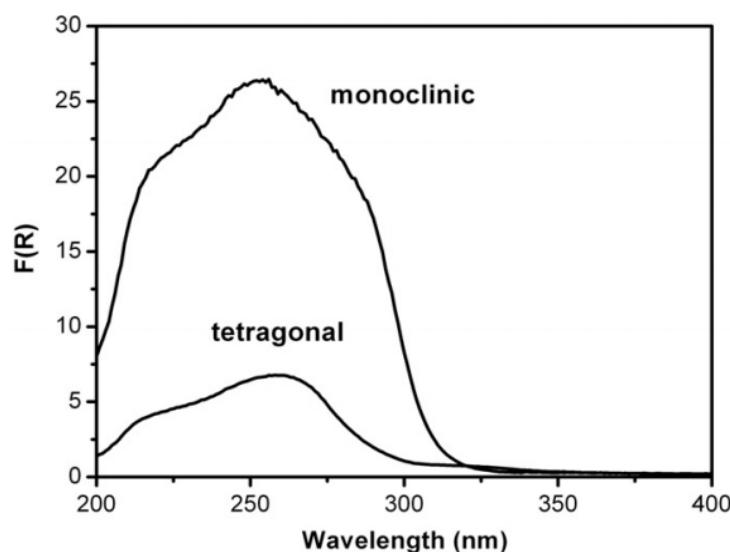
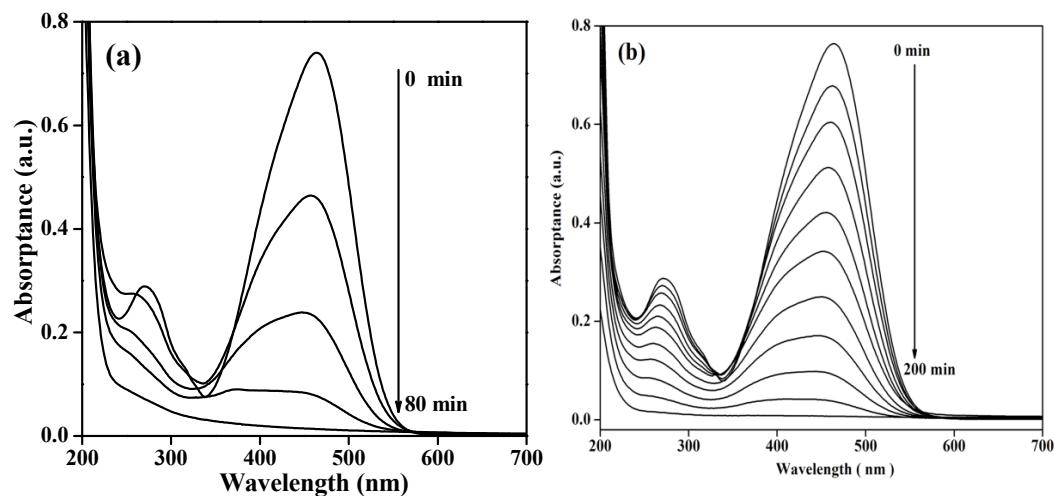


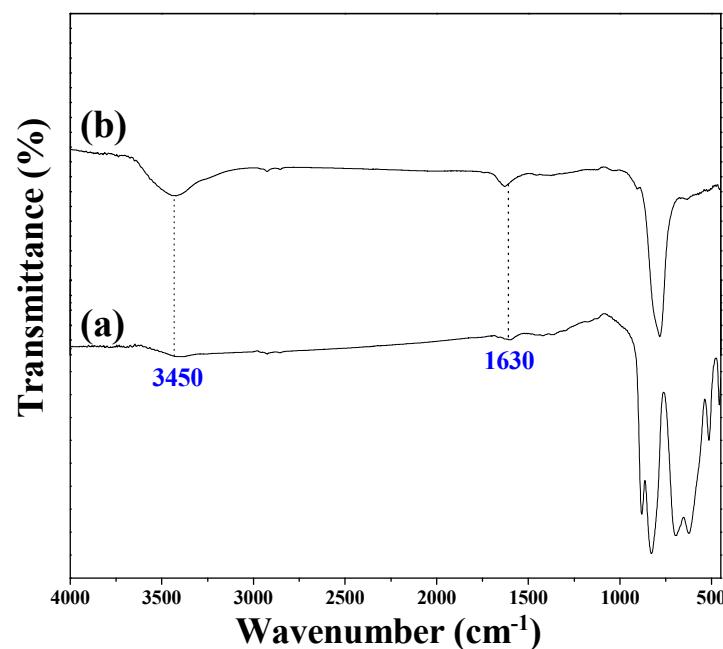
## Supporting information



**Figure S1.** UV–vis diffuse reflectance spectra for both polymorphs of monoclinic and tetragonal  $\text{CdWO}_4$ .

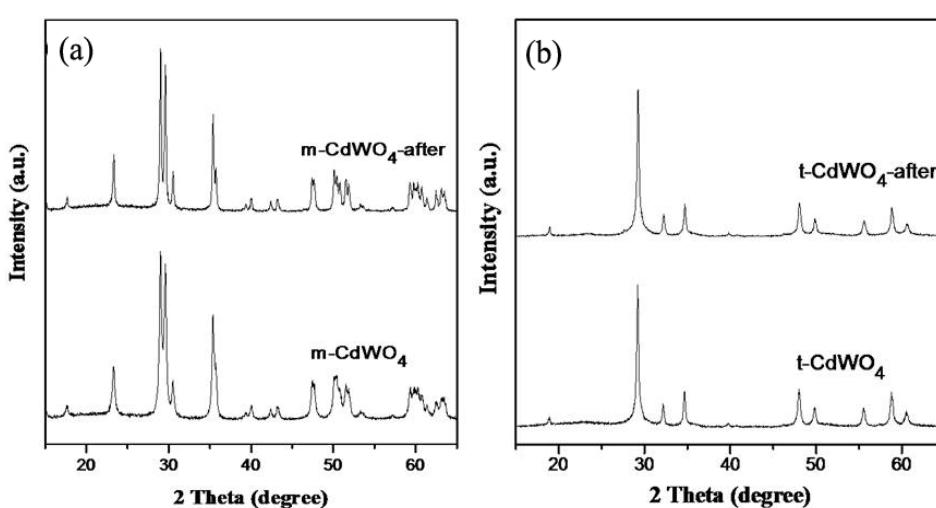


**Figure S2.** Time dependent absorption spectra of MO solutions in the presence of (a)  $m\text{-CdWO}_4$  and (b)  $t\text{-CdWO}_4$  under UV light irradiation. ( $m\text{-CdWO}_4$  was prepared in water at 200 °C for 10 h.  $t\text{-CdWO}_4$  was prepared in 1,2-propanediol at 200 °C for 10h.)



**Figure S3.** FT-IR spectrum for the as-prepared: (a) *m*-CdWO<sub>4</sub>, and (b) *t*-CdWO<sub>4</sub>.

Infrared spectra of the samples were measured on a Perkin-Elmer IR spectrophotometer at a resolution of 4 cm<sup>-1</sup> by KBr pellet technique. The band observed at 3450 cm<sup>-1</sup> is attributed to the vibrations of O–H bonds for the water absorbed on sample surfaces and the band centered at 1630 cm<sup>-1</sup> is associated with the deformation vibration for H–O–H bonds of the physisorption water. The bands appeared at 400~1000 cm<sup>-1</sup> are the characteristic of the intrinsic vibrations for *t*-CdWO<sub>4</sub> and *m*-CdWO<sub>4</sub>, which are apparently different.



**Figure S4.** XRD patterns of the as-prepared: (a) *m*-CdWO<sub>4</sub>, and (b) *t*-CdWO<sub>4</sub> before and after photocatalytic reaction.