

### Supporting Information

**Fig. S1** The molecule structure of methyl orange (MO)

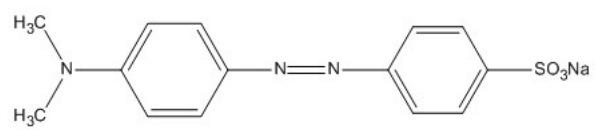
**Fig. S2** Thermogravimetric analysis of the as-prepared  $\alpha$ -SnWO<sub>4</sub>/RGO nanocomposite

**Fig. S3** N<sub>2</sub>-sorption isotherm of  $\alpha$ -SnWO<sub>4</sub>/RGO nanocomposite. (inset: BJH pore size distribution)

**Fig. S4** Temporal absorption spectral patterns of MO during the photodegradation process over (a)  $\alpha$ -SnWO<sub>4</sub> and (b)  $\alpha$ -SnWO<sub>4</sub>/RGO

**Fig. S5** Temporal change of MO concentration as monitored by the UV-vis absorption spectra at 464 nm over (a)  $\alpha$ -SnWO<sub>4</sub>/RGO in darkness, (b)  $\alpha$ -SnWO<sub>4</sub> and (c)  $\alpha$ -SnWO<sub>4</sub>/RGO under visible light irradiations ( $\lambda \geq 420$  nm)

**Fig. S1**



**Fig. S2**

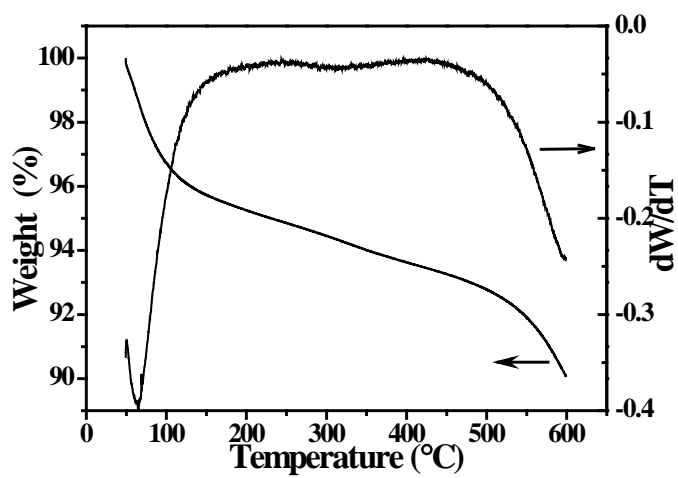


Fig. S3

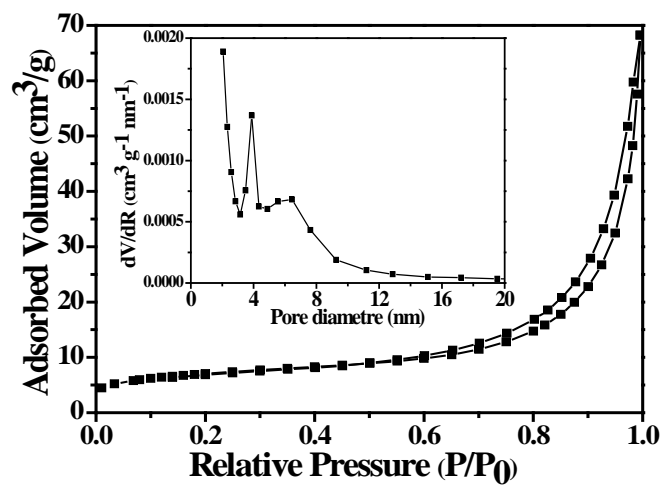


Fig. S4

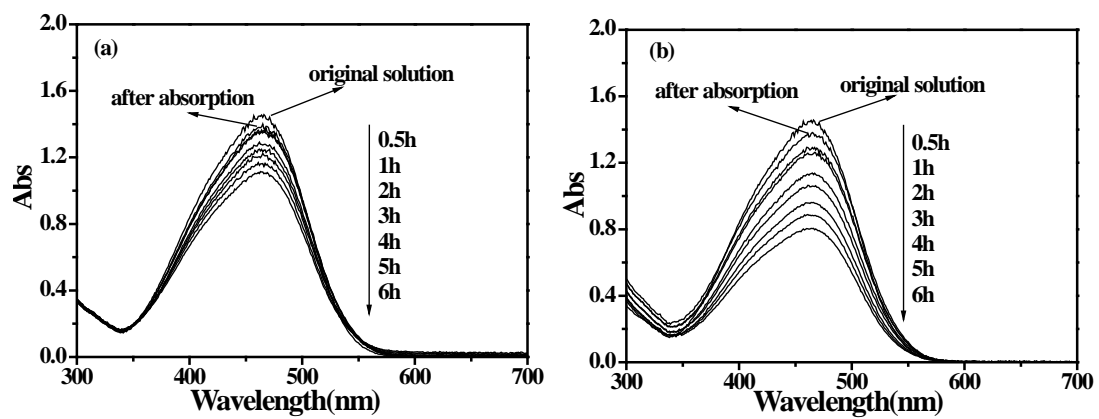


Fig. S5

