

## ***Supplementary Materials***

### **Synthesis and application of Bi<sub>2</sub>WO<sub>6</sub> for the photocatalytic degradation of two typical fluoroquinolones under visible light irradiation**

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## Figure captions

**Fig. S1** (a) Ultraviolet absorption spectrum and (b) Working curve of 0.1-10 mg/L NOR.

**Fig. S2** (a) Ultraviolet absorption spectrum and (b) Working curve of 0.1-10 mg/L ENR.

**Fig. S3** TEM image of 450-Bi<sub>2</sub>WO<sub>6</sub> sample.

**Fig. S4** Adsorption of NOR and ENR on the different prepared Bi<sub>2</sub>WO<sub>6</sub> samples.

**Fig. S5** Kinetics of effects of the operation parameters on the degradation. Amount of 450-Bi<sub>2</sub>WO<sub>6</sub> for degradation of (a) NOR and (b) ENR with 10 mg/L initial concentration at initial pH; initial concentrations of (c) NOR and (d) ENR with 0.5 g/L catalyst at initial pH; pH values in degradation of (e) NOR and (f) ENR with 0.5 g/L catalyst and 10 mg/L initial concentration.

**Fig. S6** Variations of TOC of NOR and ENR aqueous solutions with irradiation time under the optimal degradation conditions

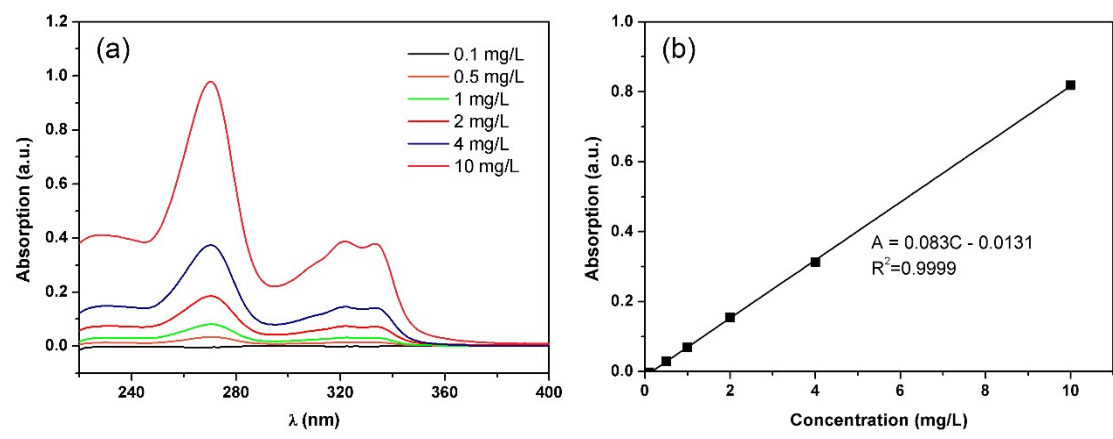


Fig. S1 (a) Ultraviolet absorption spectrum and (b) Working curve of 0.1-10 mg/L NOR

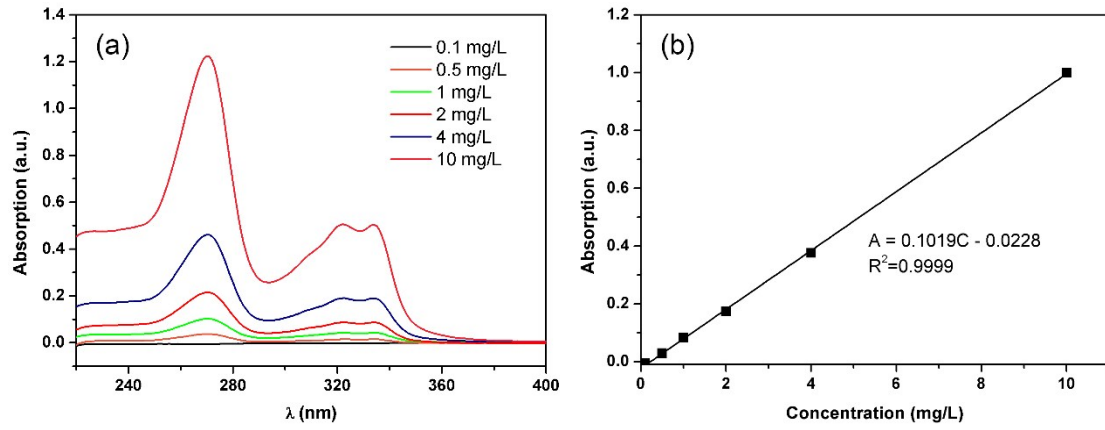


Fig. S2 (a) Ultraviolet absorption spectrum and (b) Working curve of 0.1-10 mg/L ENR

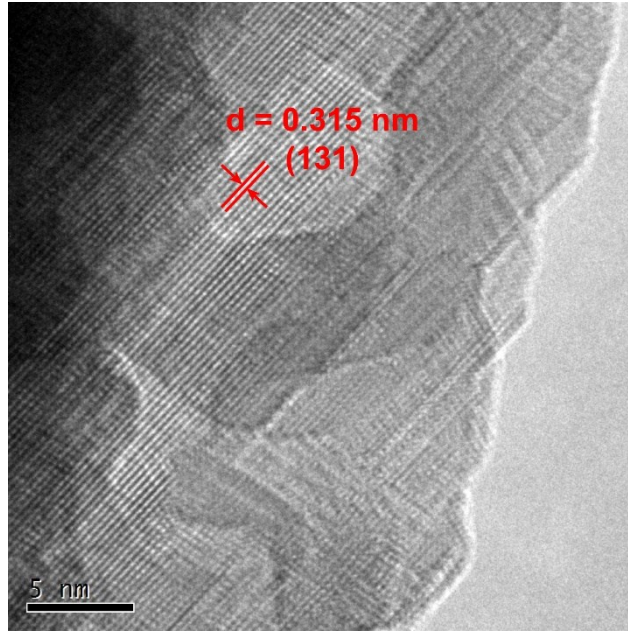


Fig. S3 TEM image of 450-Bi<sub>2</sub>WO<sub>6</sub> sample.

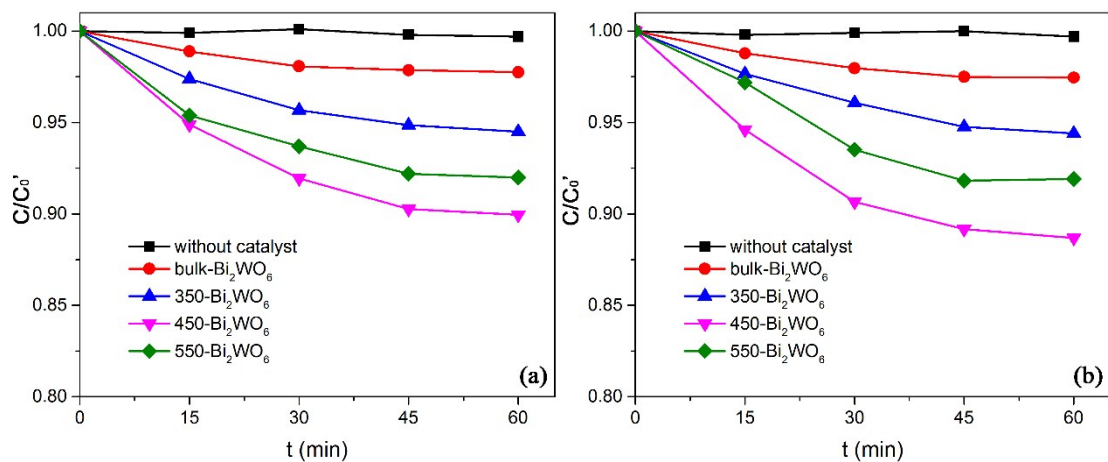


Fig. S4 Adsorption of NOR (a) and ENR (b) on the different prepared Bi<sub>2</sub>WO<sub>6</sub> samples (10 mg/L drug solution, 0.5 g/L photocatalyst, initial pH of 10.2 for NOR and of 10.7 for ENR).

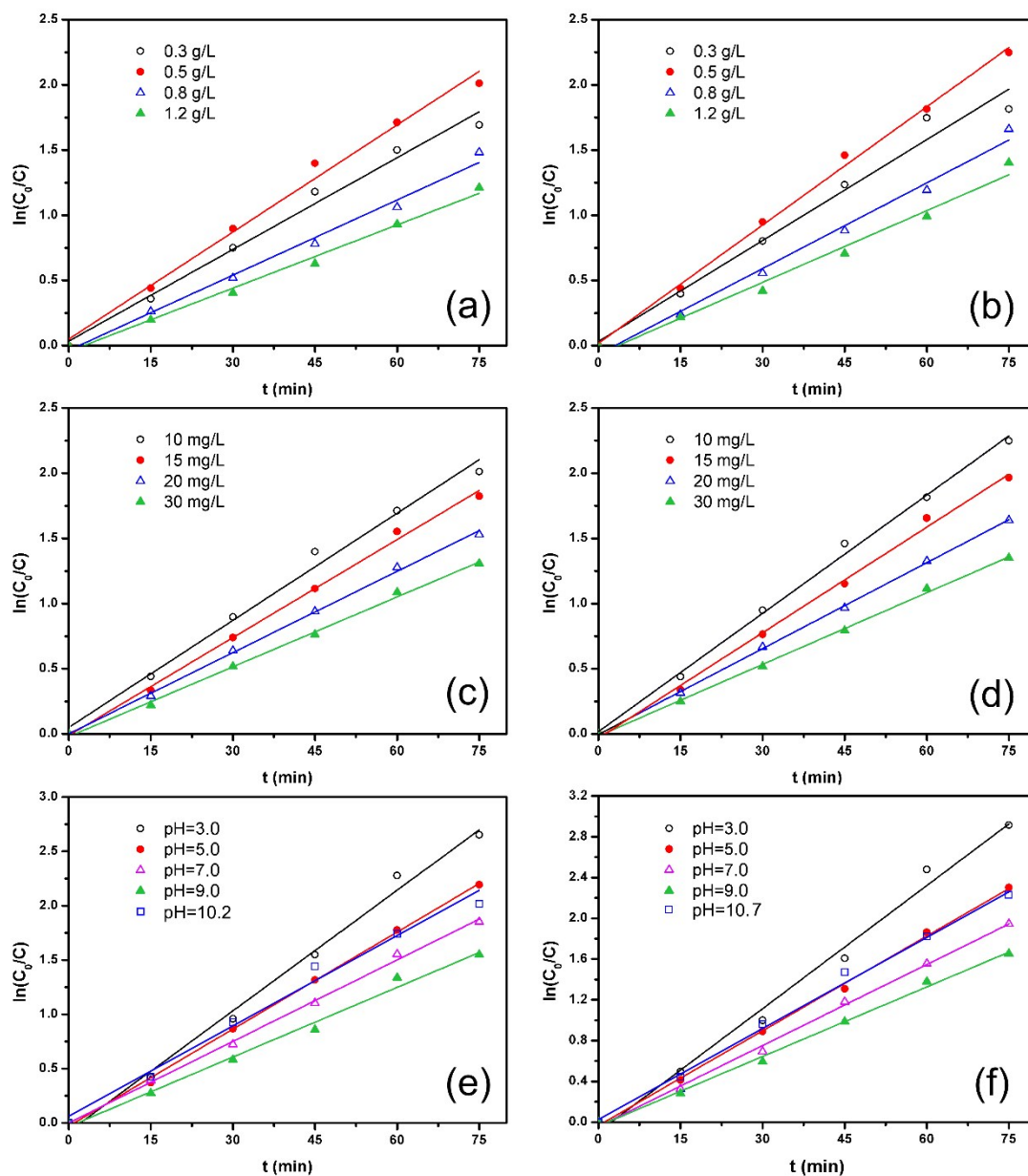


Fig. S5 Kinetics of effects of the operation parameters on the degradation of NOR or ENR (Different amounts of  $450\text{-Bi}_2\text{WO}_6$  for the solutions with the initial concentration of  $10\text{ mg/L}$  initial pH; solutions with different initial concentrations at  $450\text{-Bi}_2\text{WO}_6$  dosage of  $0.5\text{ g/L}$  and initial pH; solutions with the initial concentration of  $10\text{ mg/L}$  at  $450\text{-Bi}_2\text{WO}_6$  dosage of  $0.5\text{ g/L}$  and different initial pH).

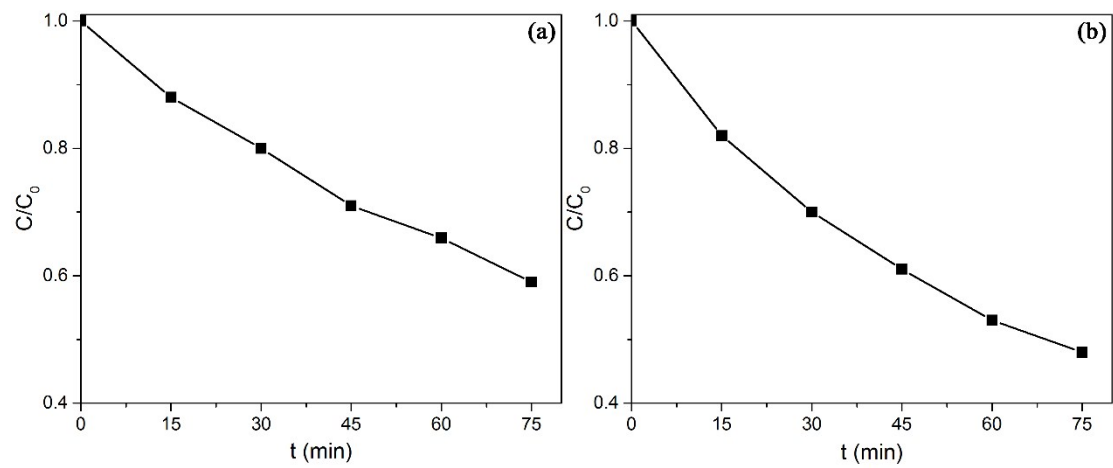


Fig. S6 Variations of TOC of NOR (a) and ENR (b) aqueous solutions with irradiation time under the optimal degradation conditions (10 mg/L NOR and ENR aqueous solutions at initial pH of 3 with 0.5 g/L 450-Bi<sub>2</sub>WO<sub>6</sub>).