Self-Assembled 3D Hierarchical Clew-like Bi_2WO_6 Microspheres: Synthesis，Photo-induced Charges Transfer Properties，and Photocatalytic Activities

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Supplementary Information:

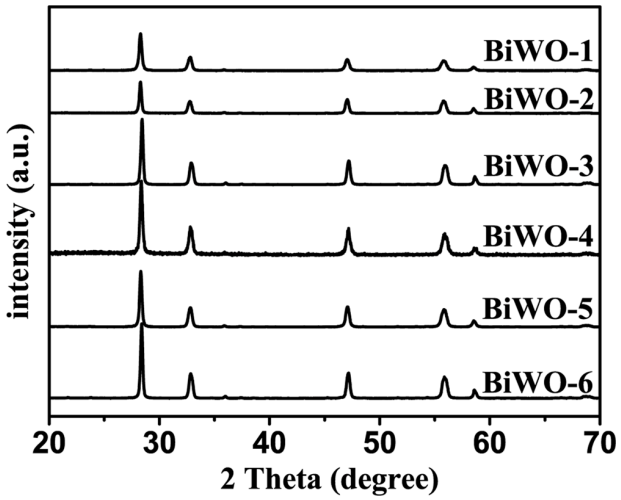

Fig. S1 XRD pattern of Bi_2WO_6 prepared at 180 °C for 24 h with different the volume ratio of H_2O/EG solution.

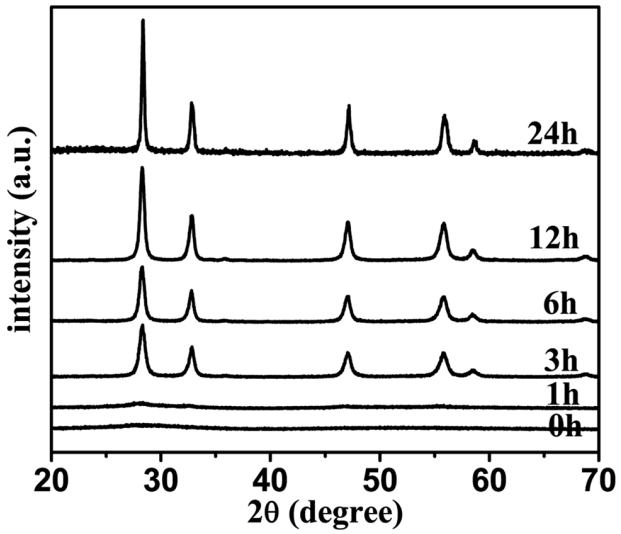

Fig. S2 XRD pattern of Bi_2WO_6 hierarchical clew-like structures prepared at 180 °C for different aging times; the volume ratio of H_2O/EG is (1:1) .

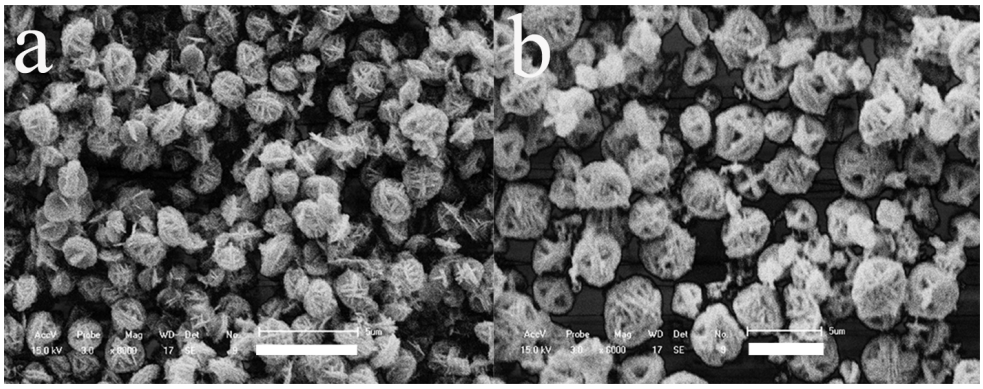

Fig. S3 SEM images of Bi_2WO_6 hierarchical clew-like structures; different volume ratio of H_2O/EG (a) 1:1.2, (b) 1:0.8; scale bar: 5μm.

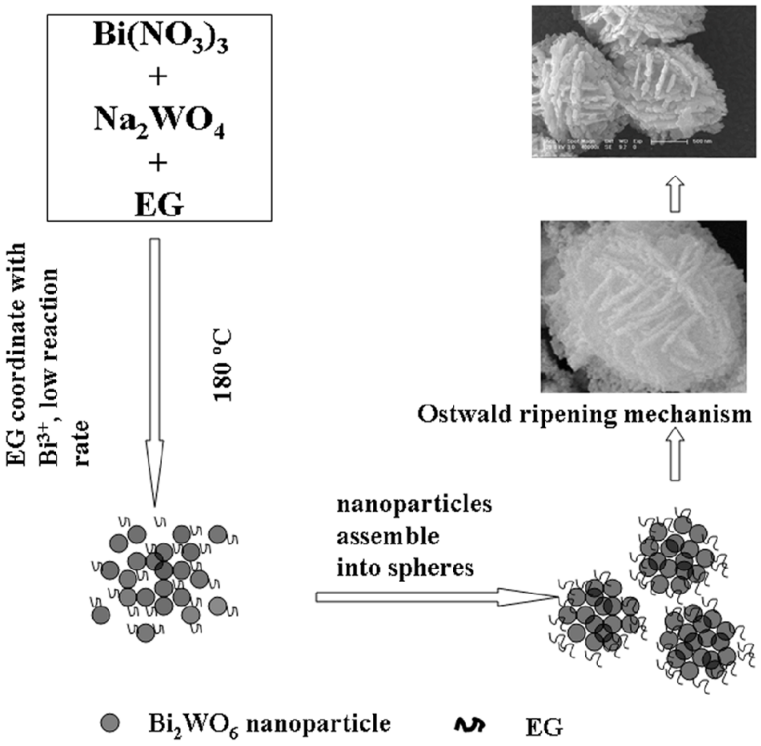

Fig. S4 A schematic of the formation mechanism of hierarchical clew-like Bi_2WO_6.

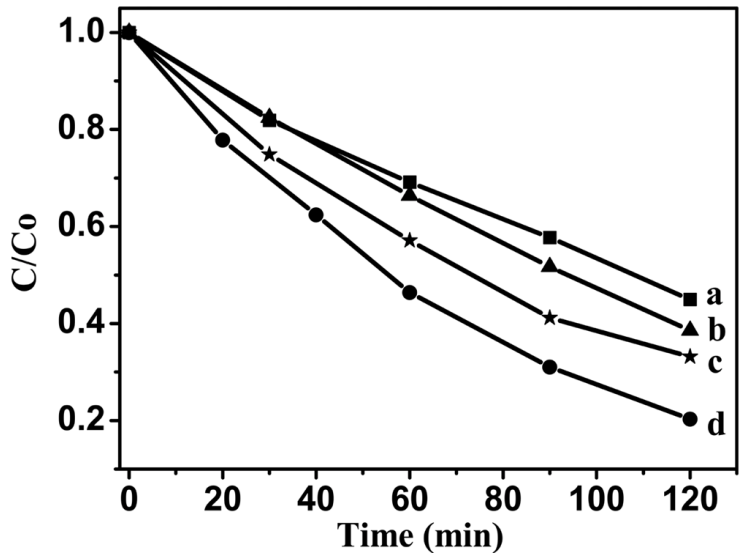

Fig. S5 Photocatalytic degradation of Orange-II (10 mg/L) under simulate solar light irradiation (without a UV cut-off filter) by taking different Bi_2WO_6 samples as photocatalysts, where *C* is the absorption intensity of Orange-II at the wavelength of 485 nm irradiated by different time and C_0 is the absorption intensity of Orange-II after the adsorption-desorption equilibrium on Bi_2WO_6 before irradiation. (a) BiWO-1, (b) BiWO-3, (c) BiWO-5, (d) BiWO-4.

Table S1 Degradation of Orange-II after 80 min under UV irradiation using Bi_2WO_6 samples[a,b].

sample	A	B
BiWO-1	40	18
BiWO-3	45	21
BiWO-4	70	55
BiWO-5	63	34

[a]A = Percent degradation of Orange-II recorded by UV-vis spectra. B = Percent of COD removal efficiency. [b]Initial COD value of Orange-II (10 mg/L) = 29 mg/L.