

Electronic Supporting Information
for
**Novel Synthesis of Bismuth Tungstate Hollow Nanospheres
in Water-ethanol Mixed Solvent**

Daxiong Wu, Haitao Zhu, canying Zhang and Lei Chen

*College of Materials Science and Engineering, Qingdao University of Science and
Technology, Qingdao 266042, China*

Experimental detail

In a typical process to synthesize Bi_2WO_6 hollow nanospheres, 15 mL of $\text{Bi}(\text{NO}_3)_3$ (59.8 mg, 0.15 mmol) aqueous solution was added into 150 mL absolute ethanol to get suspension A. Then 15 mL of Na_2WO_4 (44.0 mg, 0.15 mmol) aqueous solution was added into 150 mL absolute ethanol, resulting in Na_2WO_4 precipitate. Na_2WO_4 precipitate was then separated by centrifugation and dispersed into suspension A to get suspension B. After treated with ultrasonic for 10 minutes, 40 mL of suspension B was then heated in a sealed autoclave (50 mL capacity) for 8 hours at 100 °C. The resulted precipitates were then washed with distilled water and dried to get the final products.

Characterization of $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$

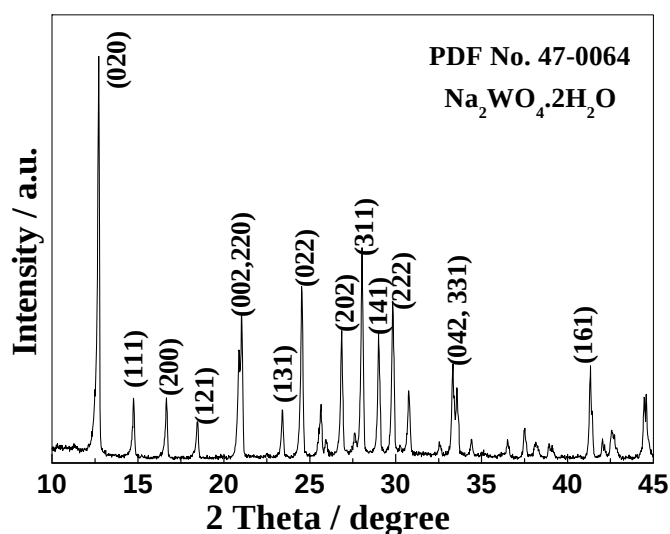


Fig. S1. XRD pattern of $\text{Na}_2\text{WO}_4 \cdot 2\text{H}_2\text{O}$ precipitates

Characterization of Bi source templates

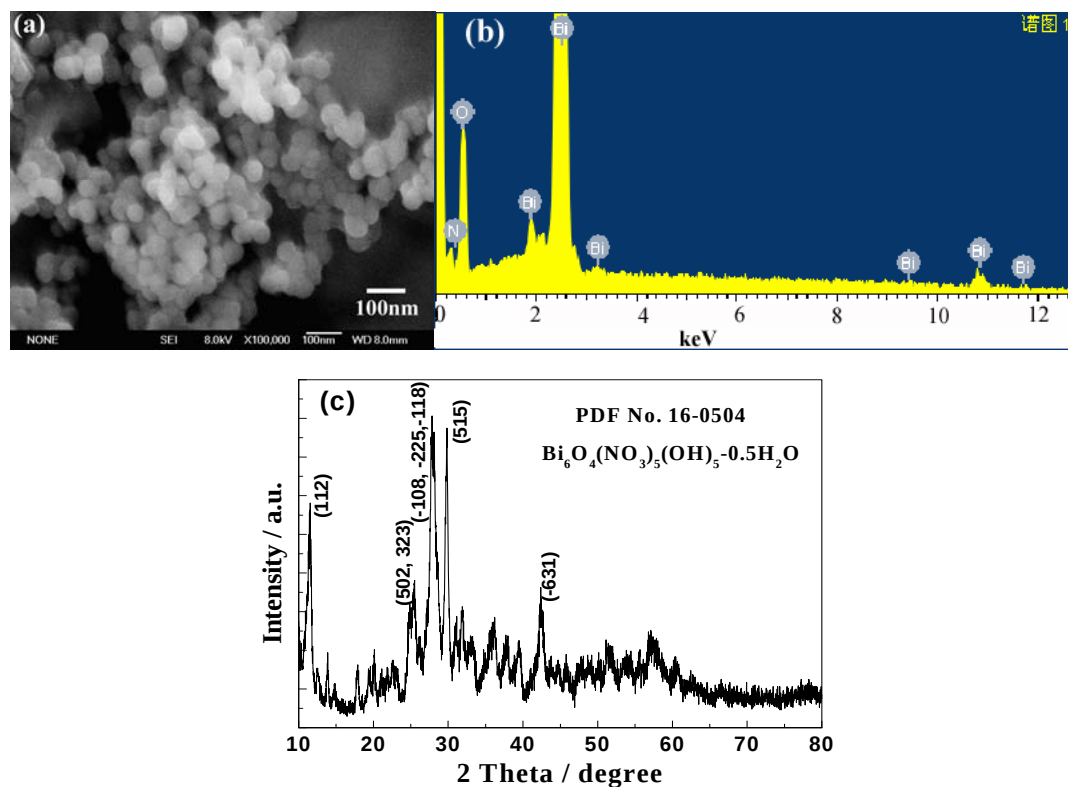


Fig. S2. (a) SEM image, (b) EDX pattern and (c) XRD pattern of the precipitates (Bi source templates) obtained by adding $\text{Bi}(\text{NO}_3)_3$ aqueous solution into absolute ethonal.