

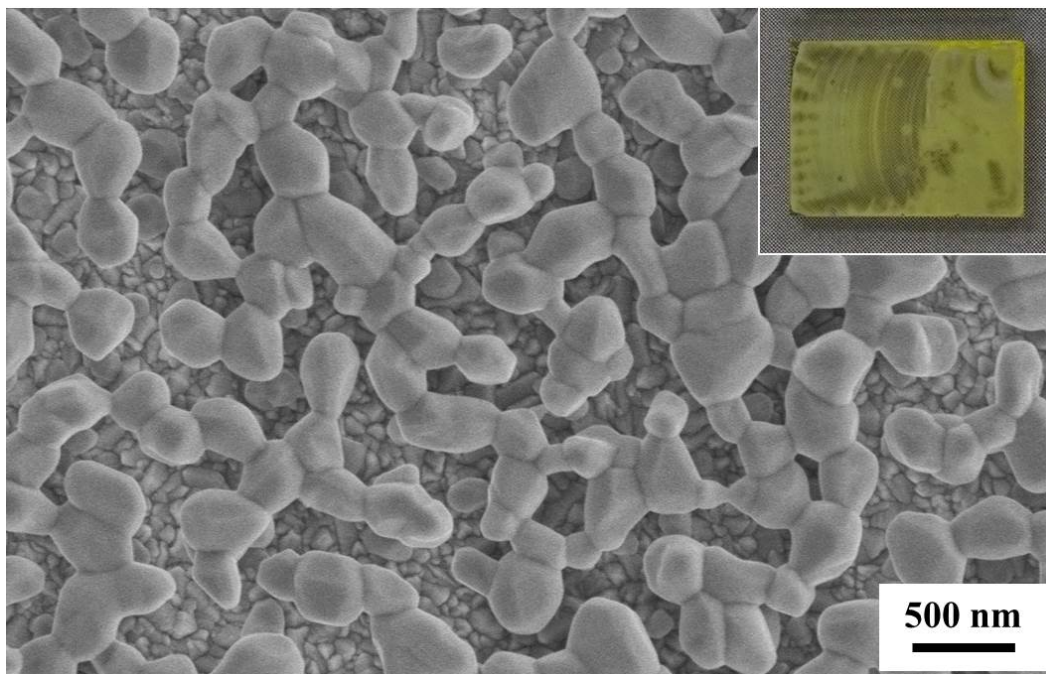
## Supporting Information

### **Efficient Photoelectrochemical Water Oxidation by a Metal-doped Bismuth Vanadate Photoanode with a FeOOH Electrocatalyst**

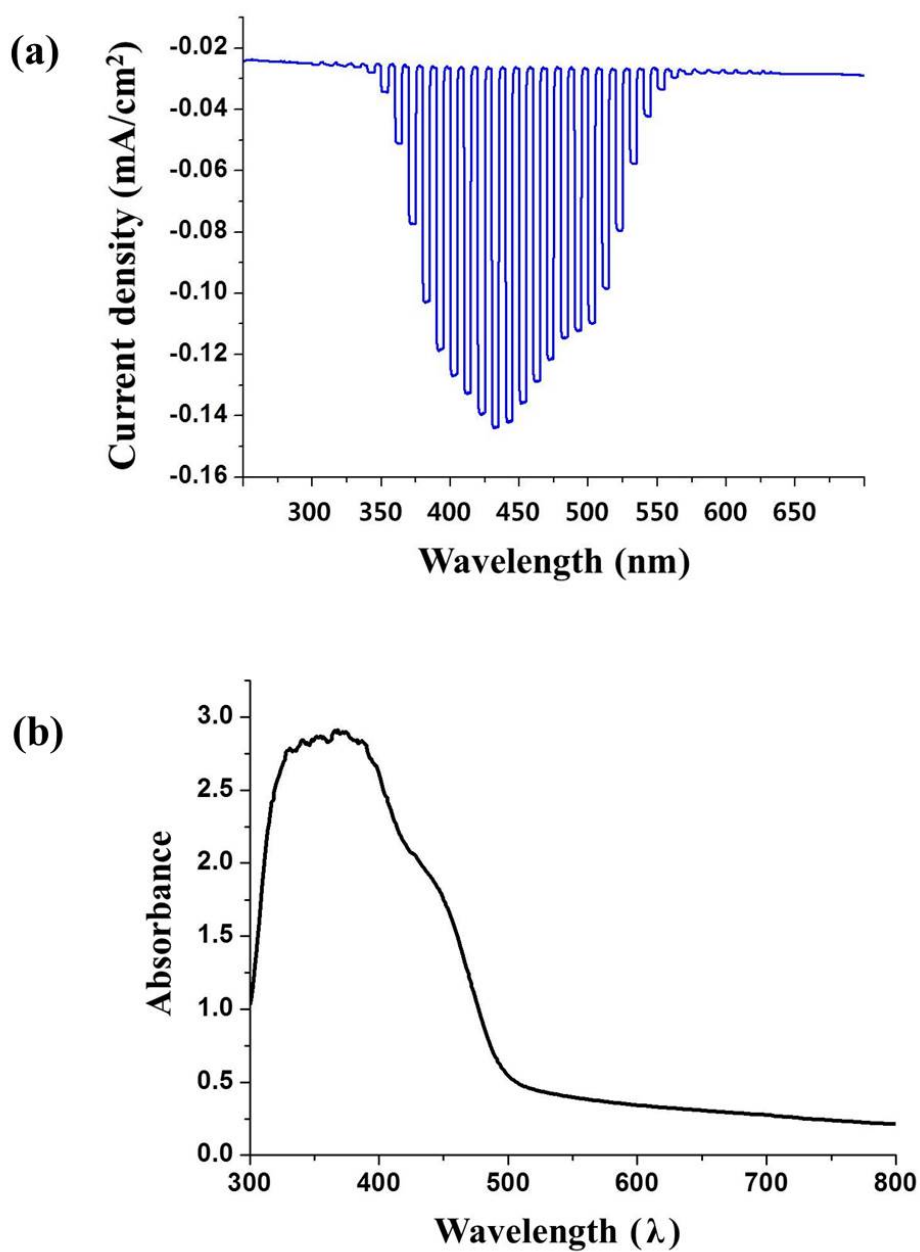
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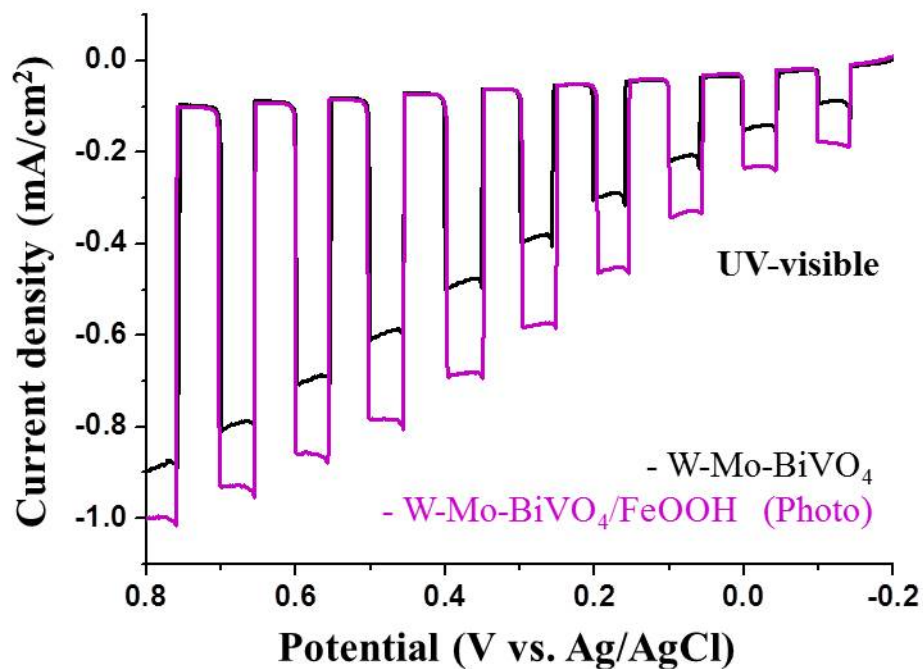
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**Figure S1.** SEM top-view image and photographic image (inset) of W-Mo-doped BiVO<sub>4</sub> (without Nafion surfactant in the preparation step).



**Figure S2.** (a) Action spectrum of W-Mo-doped BiVO<sub>4</sub> electrode at an applied potential of 0.3 V versus Ag/AgCl under UV-visible illumination in 0.1 M Na<sub>2</sub>SO<sub>3</sub> + 0.1 M Na<sub>2</sub>SO<sub>4</sub>. (b) UV-vis absorption spectrum of W-Mo-doped BiVO<sub>4</sub> electrode.



**Figure S3.** LSVs of W-Mo-doped BiVO<sub>4</sub> and W-Mo-doped BiVO<sub>4</sub>/FeOOH (photodeposited) electrodes under UV-visible illumination in phosphate buffer (pH 7). Scan rate: 20 mV/s. Light intensity: 100 mW/cm<sup>2</sup>.