

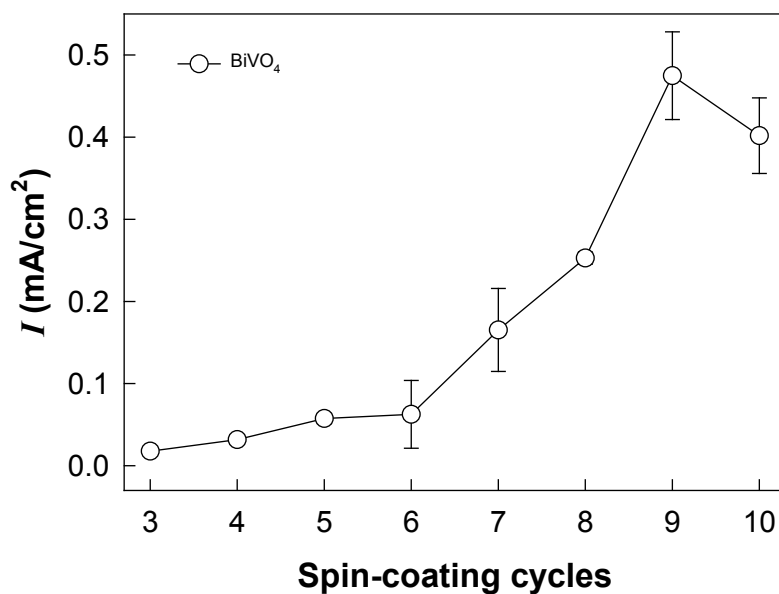
## Supplementary Information

### Cobalt-Phosphate Complexes Catalyze the Photoelectrochemical Water Oxidation of BiVO<sub>4</sub> Electrodes

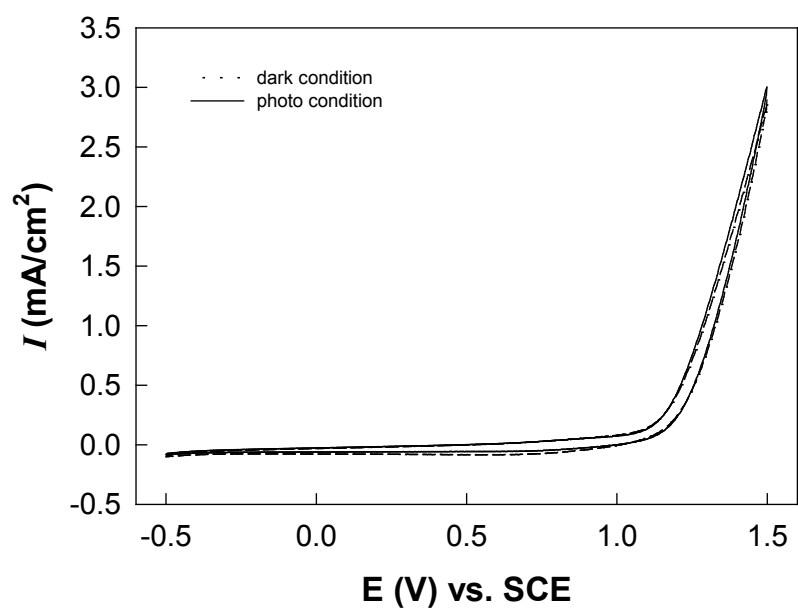
Tae Hwa Jeon,<sup>1</sup> Wonyong Choi,<sup>2</sup> and Hyunwong Park<sup>1,\*</sup>

<sup>1</sup>*School of Energy Engineering, Kyungpook National University, Daegu 702-701, Korea*

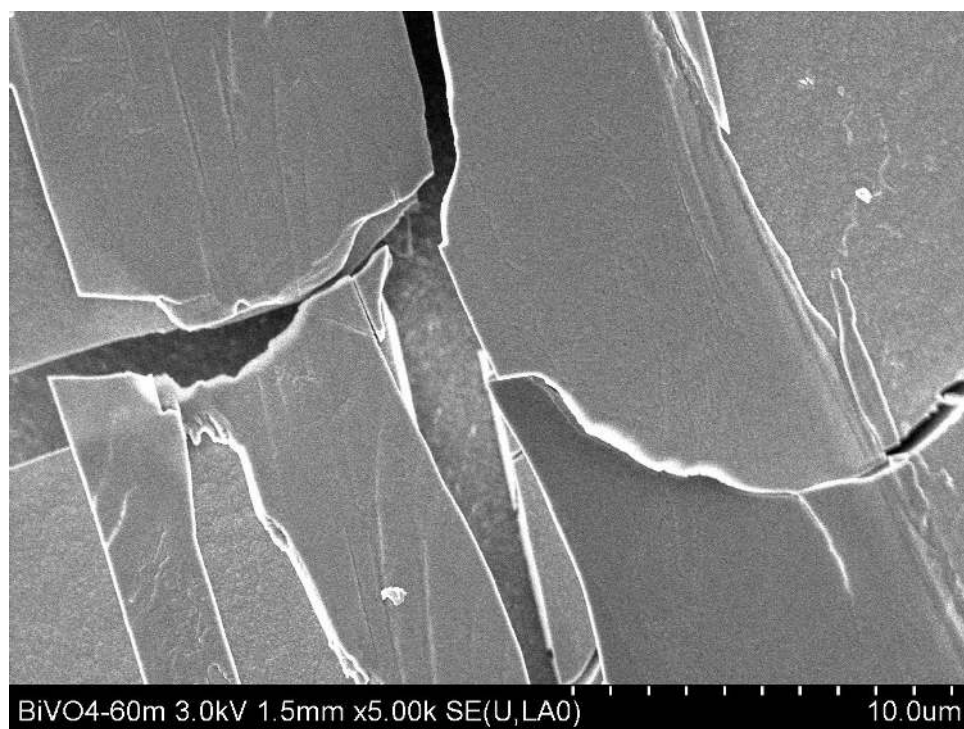
<sup>2</sup>*School of Environmental Science & Engineering, POSTECH, Pohang 790-784, Korea*



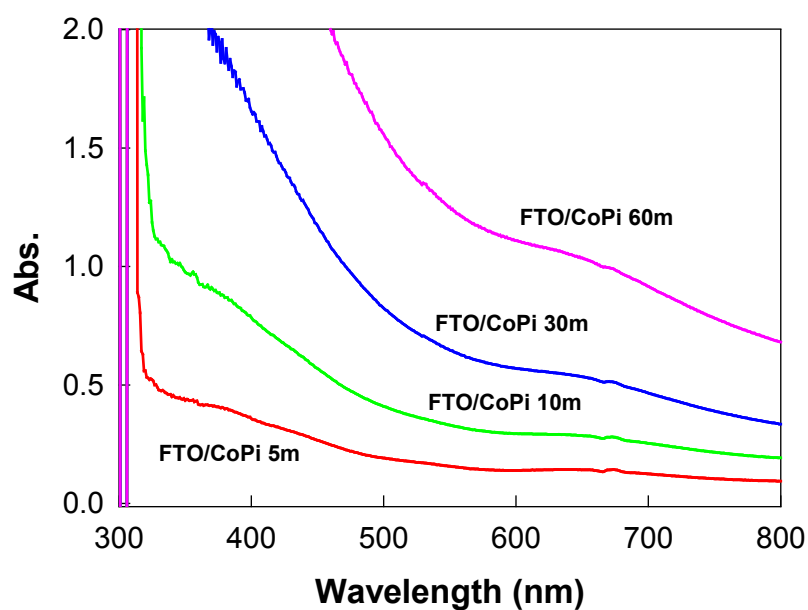
**Fig. S1.** Photocurrents of BiVO<sub>4</sub> electrodes with different coat cycles in 0.1 M potassium phosphate under  $\lambda > 400$  nm. E = 1.0 V vs. SCE



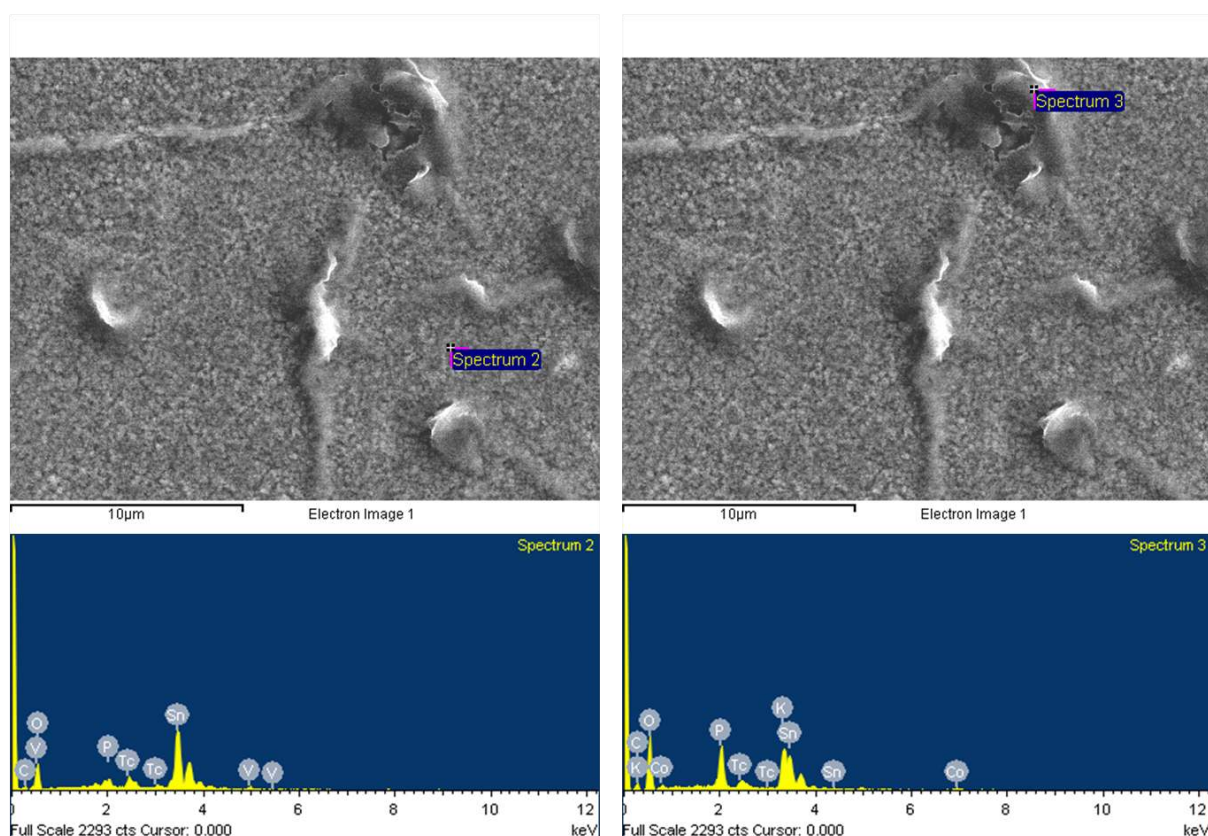
**Fig. S2.** Cyclic voltammograms of FTO/CoPi in 0.1M potassium phosphate (pH 7) electrolyte under AM 1.5-irradiation.



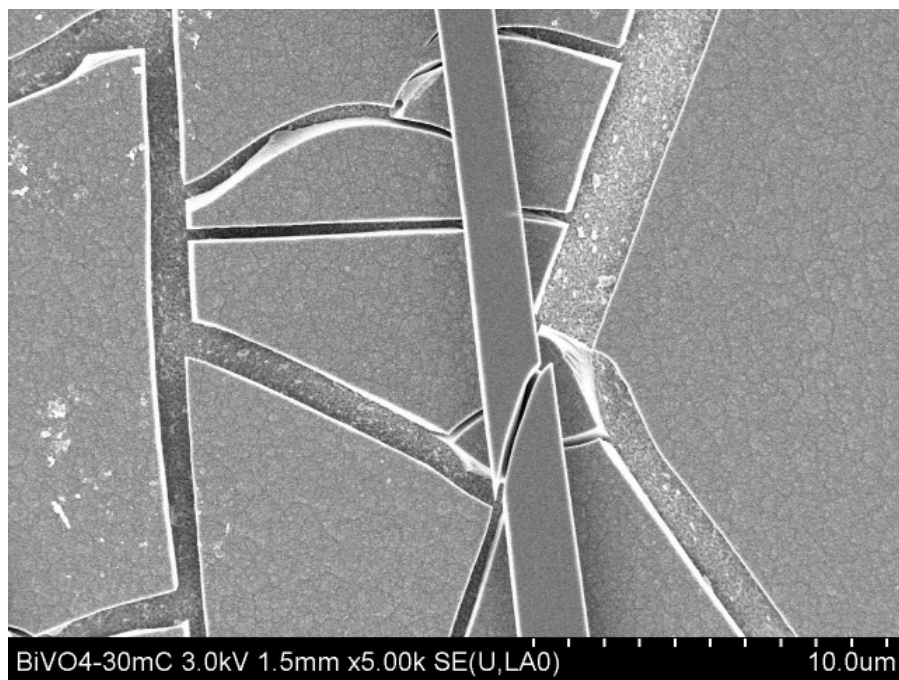
**Fig. S3.** SEM image of BiVO<sub>4</sub>/CoPi (S-ED 60 min)



**Fig. S4.** Absorption spectra of CoPi electrodeposited on FTO for different periods of time.



**Fig. S5.** EDX analysis of BiVO<sub>4</sub>/CoPi (S-PD 30 min).



**Fig. S6.** SEM images of BiVO<sub>4</sub>/CoPi (continuous ED 30 min). CoPi was continuously electrodeposited for 30 min.