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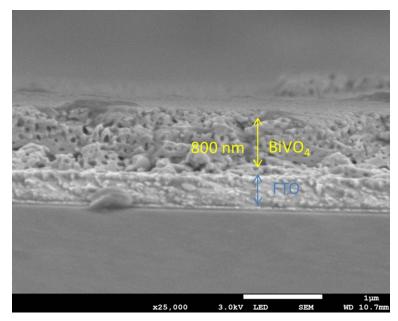


Figure S1. Cross-section SEM image of the BiVO<sub>4</sub> film.

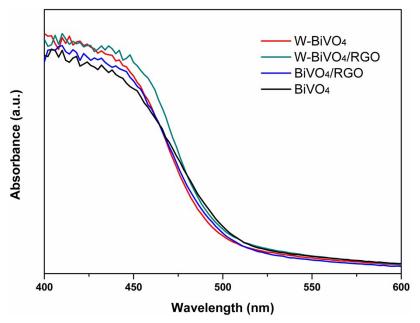


Figure S2. UV-Visible absorption spectrum of the pure and modified films.

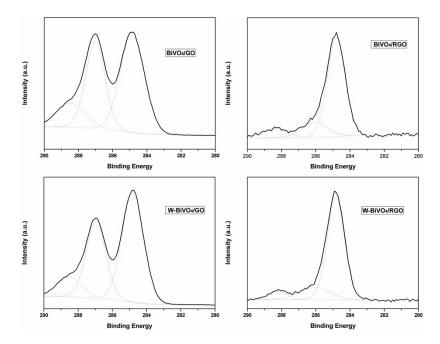


Figure S3. C 1s XPS spectra BiVO4/GO, BiVO4/RGO, W-BiVO4/GO and W-BiVO4/RGO

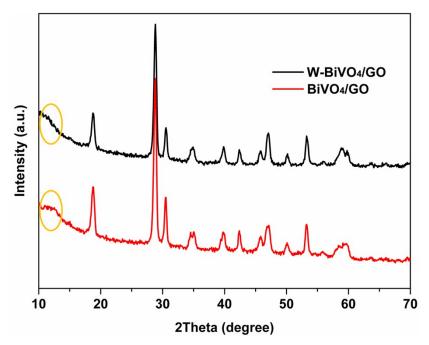


Figure S4. XRD patterns of BiVO<sub>4</sub>/RGO and W-BiVO<sub>4</sub>/RGO.

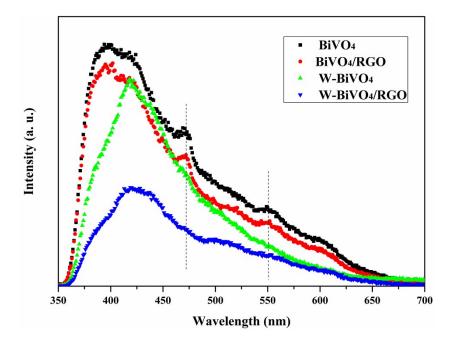


Figure S5. Photoluminescence spectra (PL) of BiVO<sub>4</sub>, W-BiVO<sub>4</sub>, BiVO<sub>4</sub>/RGO and W-BiVO<sub>4</sub>/RGO with the excitation wavelength of 325 nm.