

Triple Planar Heterojunction of $\text{SnO}_2/\text{WO}_3/\text{BiVO}_4$ with Enhanced Photoelectrochemical Performance under Front Illumination

Swetha S. M. Bhat, Sol A Lee, Jun Min Suh, Seung-Pyo Hong and Ho Won Jang

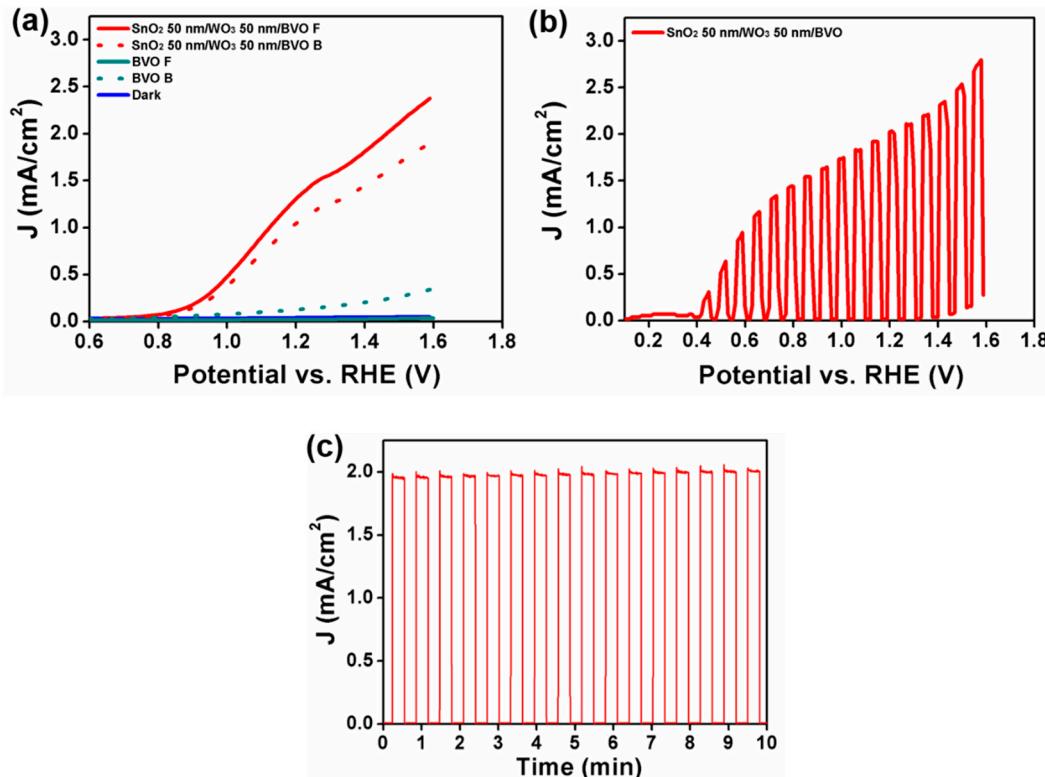


Figure S1. (a) LSV of $\text{SnO}_2/\text{WO}_3/\text{BiVO}_4$ measured using a three-electrode configuration in aqueous phosphate buffer (pH 7.0) with 0.5 M Na_2SO_4 in the absence of hole scavenger. (b) LSV of $\text{SnO}_2/\text{WO}_3/\text{BiVO}_4$ in aqueous phosphate buffer (pH 7.0) with 0.5 M Na_2SO_3 under chopped illumination. (c) Stability measurements of $\text{SnO}_2/\text{WO}_3/\text{BiVO}_4$ under chopped illumination in aqueous phosphate buffer (pH 7.0) with 0.5 M Na_2SO_3 .

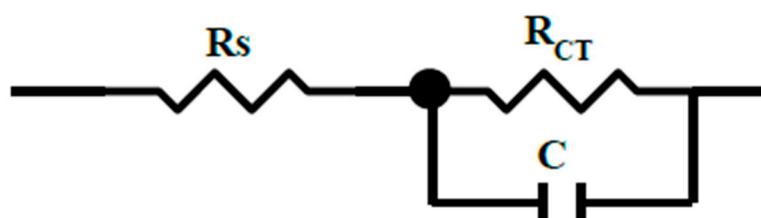


Figure S2. Equivalent circuit model of Nyquist plot for $\text{SnO}_2/\text{WO}_3/\text{BiVO}_4$ photoanode.

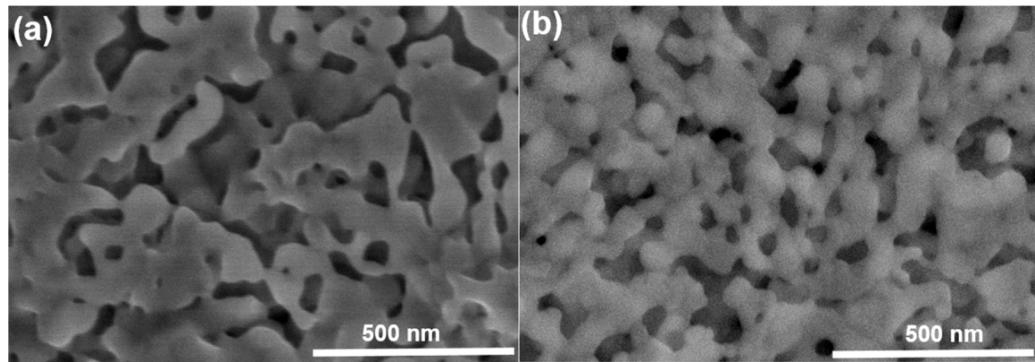


Figure S3. SEM images of $\text{SnO}_2/\text{WO}_3/\text{BiVO}_4$ (a) before and (b) after photostability measurement.

Table S1. Nyquist plot fitted results for $\text{SnO}_2/\text{WO}_3/\text{BiVO}_4$ photoanode.

Samples	$R_s (\Omega)$	$R_{ct} (\Omega)$
SnO_2 50 nm/WO_3 50 nm/BVO	44.36	4951
SnO_2 50 nm/WO_3 100 nm/BVO	88.18	6422
SnO_2 100 nm/WO_3 50 nm/BVO	76.82	7179
SnO_2 50 nm/BVO	102.51	10845
BVO	110.23	11287