Supporting Information

The impact of iron-boron electrocatalysts on the charge transport and

oxygen evolution reaction of bismuth vanadate photoanodes

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Fig. S1 Tauc plots of $Mo:BiVO_4$ and $Fe-B_i/Mo:BiVO_4$ photoanodes.



Fig. S2 XPS spectra of (a), (b) Bi 4f; (c), (d) V 2p; (e), (f) O 1s; and (g), (h) Mo 3d orbits in Mo:BiVO₄ and Fe-B_i/Mo:BiVO₄ samples.



Fig. S3 XPS spectra of B 1s orbits in Fe-B_i/Mo:BiVO₄ samples: (a) 0.8 mM, (b) 1.6 mM, (c) 2.4 mM, (d) 3.2 mM.



Fig. S4 J-V curves of Mo:BiVO₄ and various Fe-B_i/Mo:BiVO₄ photoanodes in KB_i (pH = 9.2).



Fig. S5 J-V curves of Mo:BiVO₄ photoanodes with different amounts of Mo in KB_i (pH = 9.2).



Fig. S6 J–V curves of the pure BiVO₄ photoanode in dark and under illumination.