

Supporting Information

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Electrochemical Water Oxidation in Acidic Solution Using Titanium Diboride (TiB₂) Catalyst

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Supporting Information

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Figure S1. Cross-section SEM image of TiB₂ drop-coated FTO substrate.

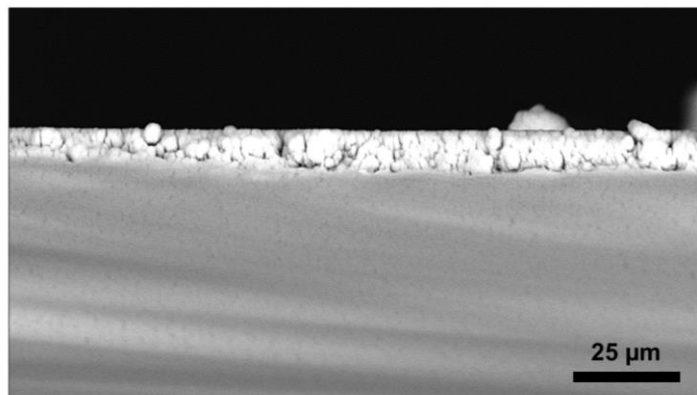


Figure S2. Chronopotentiometry measurements at a current density of $j = 10 \text{ mA cm}^{-2}$ for TiB_2/FTO electrodes in 1.0 M HClO_4 solution.

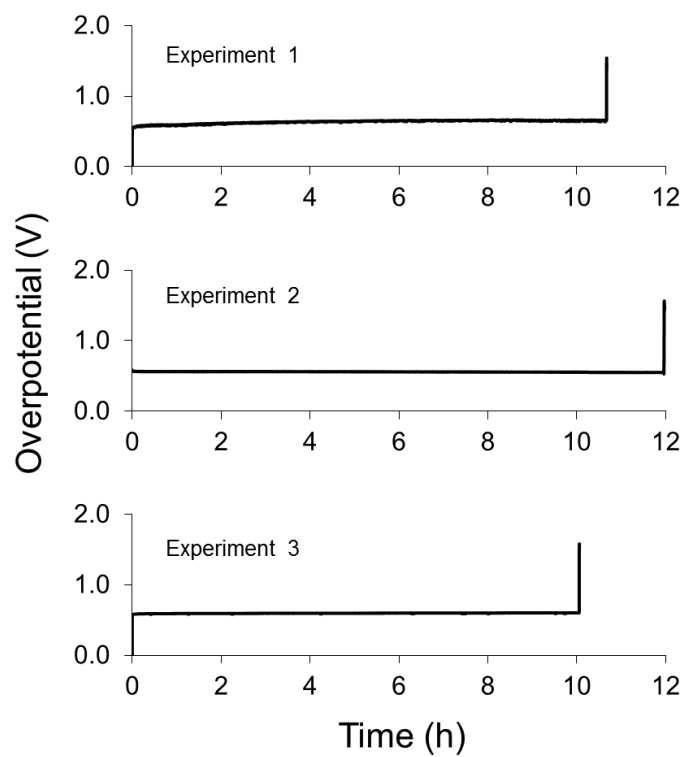


Figure S3. (A) Chronopotentiometry measurement at current density of 10 mA cm^{-2} and (B) Faradaic efficiency measurements for TiB_2 electrocatalyst for OER in $1.0 \text{ M H}_2\text{SO}_4$.

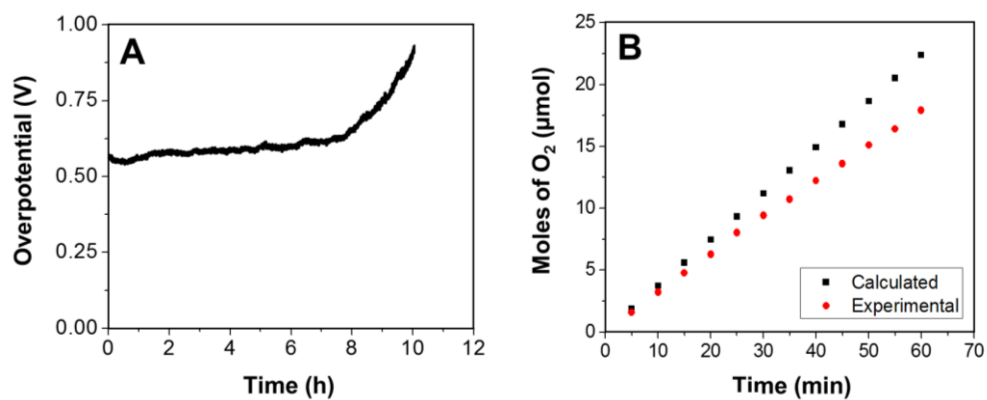


Figure S4. Survey XP spectra of TiB₂/FTO electrodes before and after 8 h of OER at a current density of $j = 10 \text{ mA cm}^{-2}$ in 1.0 M HClO₄ solution.

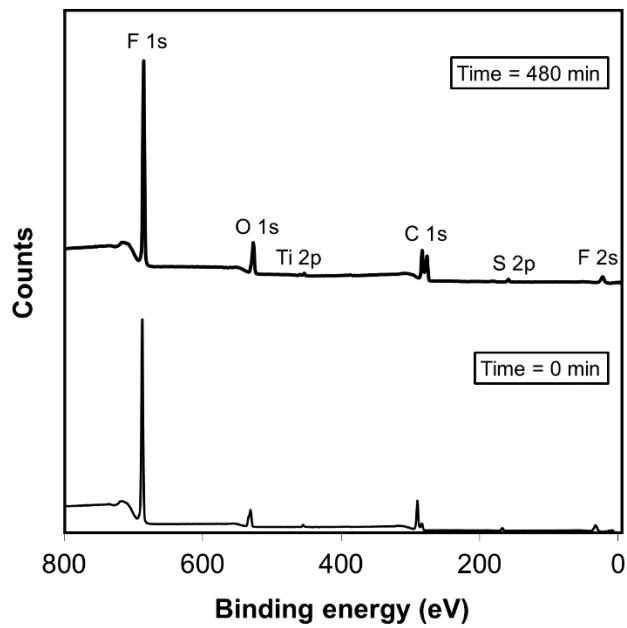


Figure S5. SEM images of the TiB₂/FTO electrodes after various durations of performing OER in 1.0 M HClO₄ at $j = 10 \text{ mA cm}^{-2}$.

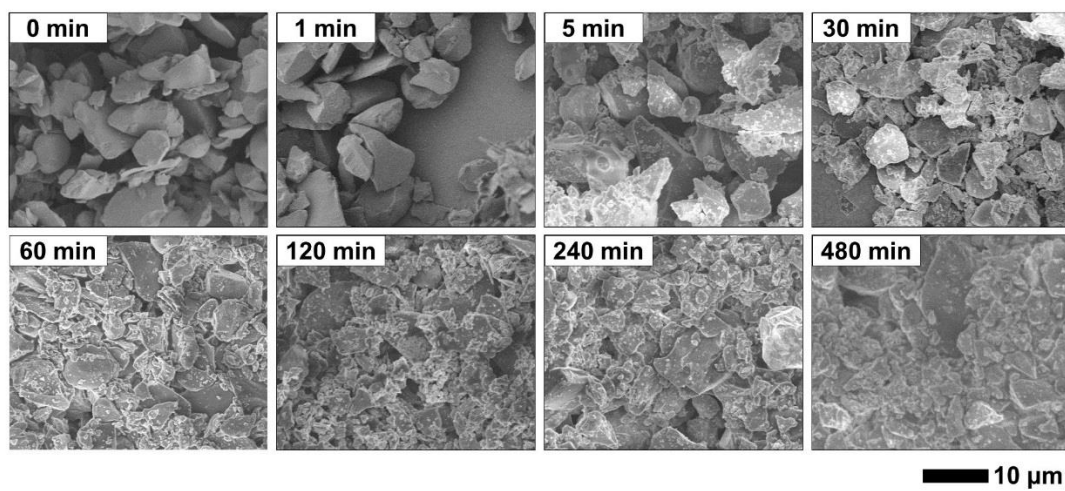


Figure S6. Chronopotentiometry measurement at current density of 10 mA cm^{-2} for the blank Nafion coated FTO substrates.

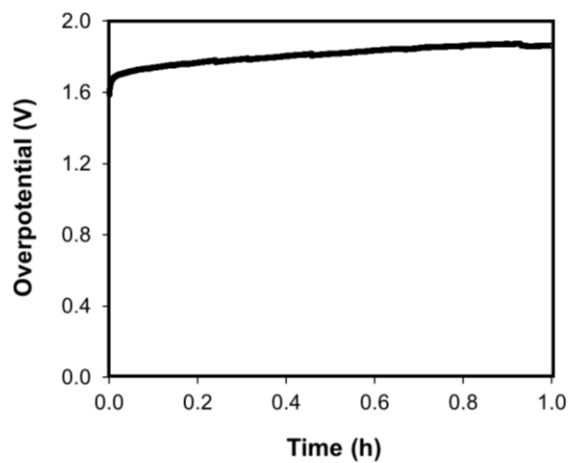


Figure S7. Chronopotentiometry measurement at current density of 10 mA cm^{-2} for the B_2O_3 coated FTO substrates.

