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## **Supporting Information**

## Electrocatalytic Water Oxidation over AlFe<sub>2</sub>B<sub>2</sub>

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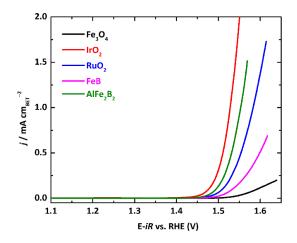
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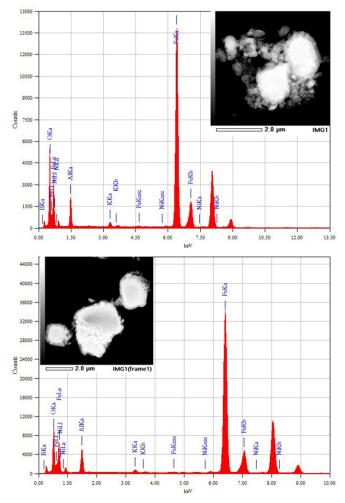
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**Figure S1.** Current density vs. applied potential curves measured for different OER electrocatalysts in a 1 M KOH electrolyte solution and normalized by the BET surface area of the catalyst.



**Figure S2.** EDX spectra of the AlFe<sub>2</sub>B<sub>2</sub> sample subjected to 20 cycles of electrocatalytic activation in a 1-M KOH electrolyte solution. The absence of any sizeable amount of Ni in the sample is obvious.