

Supplementary Material

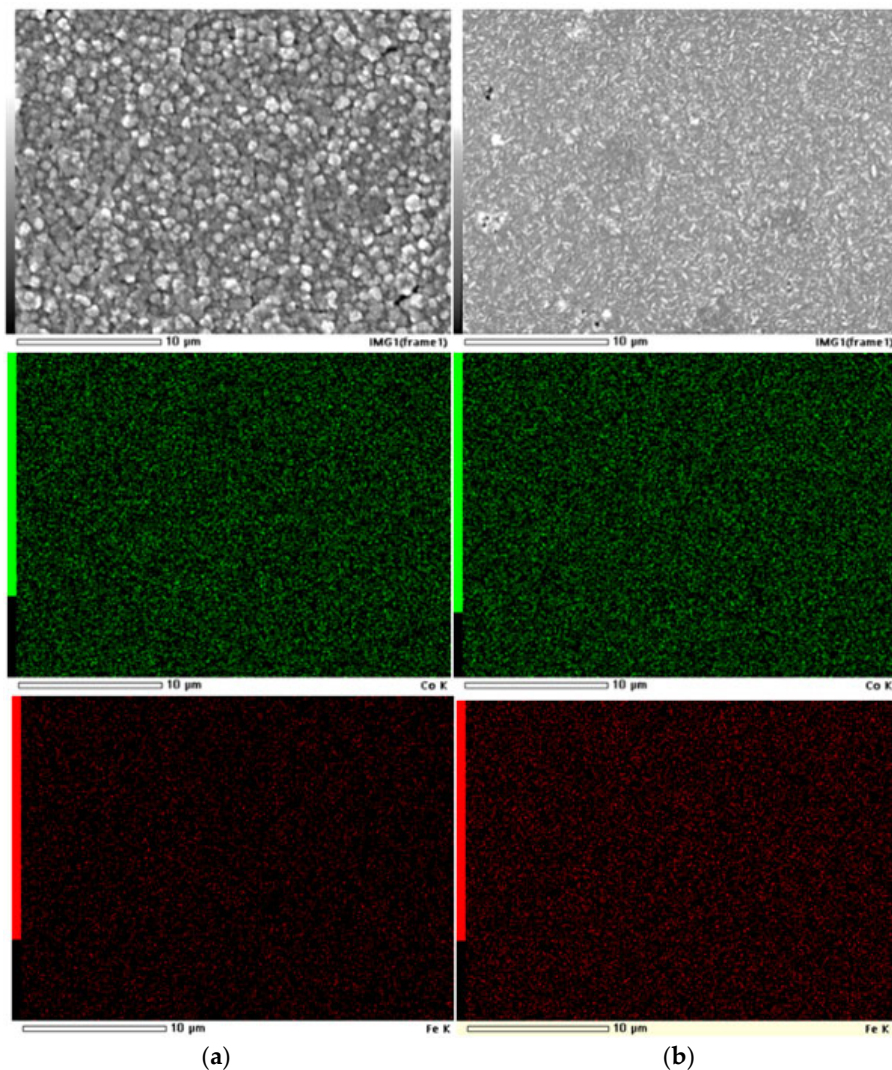
## Synthesis of Co–Fe 1D Nanocone Array Electrodes Using Aluminum Oxide Template

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**Figure S1.** SEM images, mapping analysis and chemical compositions of Co–Fe bulk alloys, synthesized from electrolytes containing (a) 6.5 mM CoSO<sub>4</sub>, 1.6 mM FeSO<sub>4</sub> and 98.4 mM Na<sub>2</sub>SO<sub>4</sub> and (b) 6.5 mM CoSO<sub>4</sub>, 3.3 mM FeSO<sub>4</sub> and 96.8 mM Na<sub>2</sub>SO<sub>4</sub>.