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Supporting Information

## Electrochemical activated Cu<sub>2</sub>O/Co<sub>3</sub>O<sub>4</sub>nanocompositeson defective carbon nanotubes for hydrogen evolution reaction

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Figure S1. XPS survey spectrum of Cu<sub>2</sub>O/Co<sub>3</sub>O<sub>4</sub>/DC and Cu<sub>2</sub>O/Co<sub>3</sub>O<sub>4</sub>/CNTs.



**Figure S2.** The cyclic voltammograms (CVs) curves of (a) ECA Cu<sub>2</sub>O/Co<sub>3</sub>O<sub>4</sub>/DC and (c) Cu<sub>2</sub>O/Co<sub>3</sub>O<sub>4</sub>/DC; Charging current density differences ( $\Delta j = Ja - Jc$ ) plotted against scan rates: (b) ECA Cu<sub>2</sub>O/Co<sub>3</sub>O<sub>4</sub>/DC and (d) Cu<sub>2</sub>O/Co<sub>3</sub>O<sub>4</sub>/DC.