## Electronic Supplementary Information

## Ethylenediamine-mediated synthesis of Mn<sub>3</sub>O<sub>4</sub> nano-octahedrons and their performance as electrocatalysts for oxygen evolution reaction

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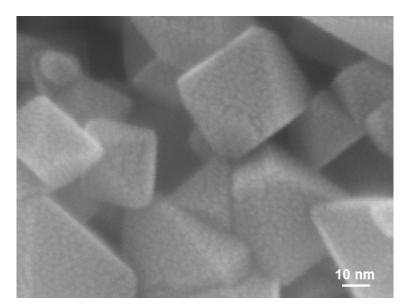


Figure S1. High-magnification FESEM image of Mn<sub>3</sub>O<sub>4</sub> nano-octahedrons.

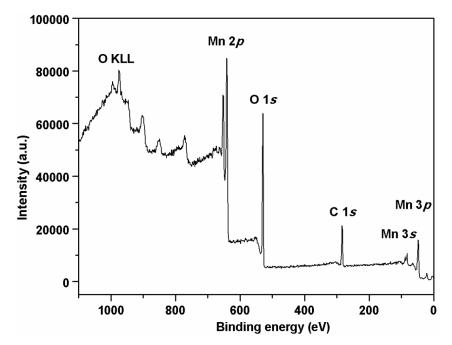


Figure S2. XPS survey spectrum of Mn<sub>3</sub>O<sub>4</sub> nano-octahedrons.

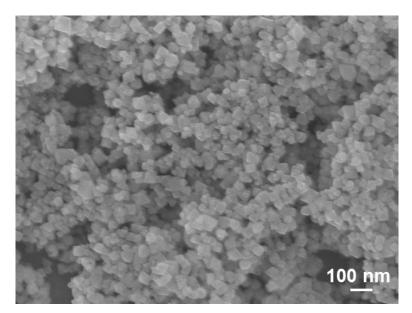
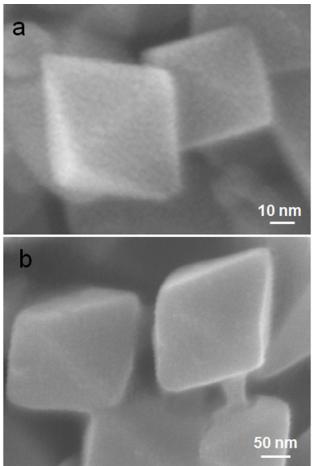


Figure S3. FESEM image of Mn<sub>3</sub>O<sub>4</sub> nano-octahedrons obtained after 12 h.



**Figure S4.** FESEM images of (a) 50-nm Mn<sub>3</sub>O<sub>4</sub> nano-octahedrons and (b) 160-nm Mn<sub>3</sub>O<sub>4</sub> octahedrons.