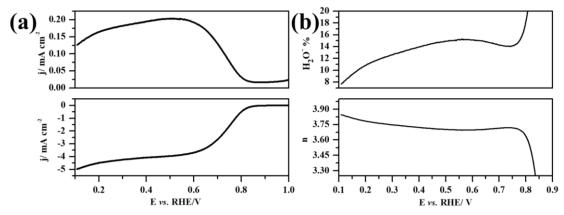
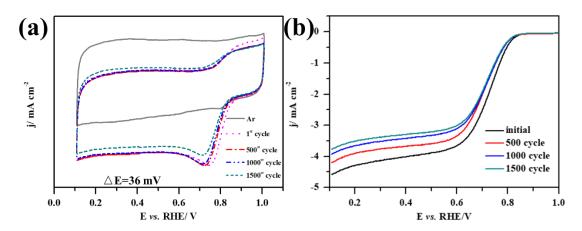
## supporting information Nitrogen-doped Ordered Mesoporous Carbons Supported Co<sub>3</sub>O<sub>4</sub> Composite as an Bifunctional Oxygen Electrode Catalyst

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**Figure S1.** (a) Ring (top) and disk (down) current density from RRDE measurements of Co<sub>3</sub>O<sub>4</sub>/N-HNMK-3 samples after annealing at different temperature in O<sub>2</sub>-saturated 0.1 M KOH at 25 °C with a sweep rate of 5 mV s<sup>-1</sup> at a rotating speed of 1600 rpm; (b) Molar fraction of HO<sub>2</sub><sup>-</sup> formation and electron transfer number n from rotating ring-disk electrode (RRDE) curves in (a).



**Figure S2.** (a) CVs of Co<sub>3</sub>O<sub>4</sub>/N-HNMK-3 from 0.1 V to 1.0 V at 100 mV s<sup>-1</sup> in O<sub>2</sub>-saturated 0.1 M KOH from 1<sup>st</sup> cycle to  $1500^{th}$  cycle; (b) LSVs of Co<sub>3</sub>O<sub>4</sub>/N-HNMK-3 from 0.1 V to 1.0 V at 5 mV s<sup>-1</sup> in O<sub>2</sub>-saturated 0.1 M KOH from 1<sup>st</sup> cycle to  $1500^{th}$  cycle.