

Supporting information for
A Free-Standing-type Design for Cathode of Rechargeable Li-O₂
Batteries

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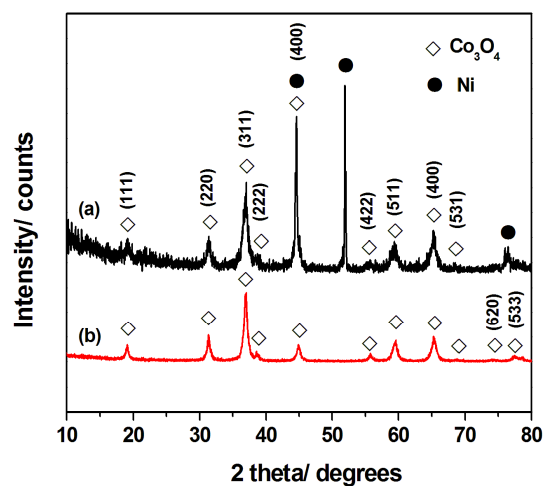


Fig. S1 XRD patterns of Co₃O₄ catalysts: (a) Co₃O₄ nanorods grown on Ni foam, (b) Co₃O₄ nanorods prepared with the similar process as Co₃O₄@Ni absent of Ni foam.

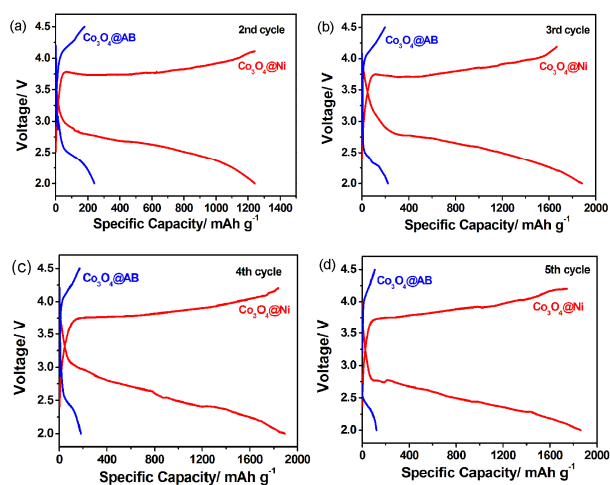


Fig. S2 The following four discharge/charge profiles of Co₃O₄@AB (blue) and Co₃O₄@Ni (red) based Li-O₂ cells at 0.1 mA cm⁻².

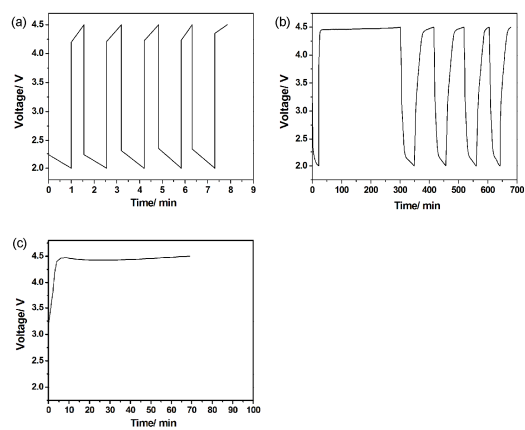


Fig.S3 Discharge/charge profiles of only Ni foam based Li-O₂ cells at (a) 0.1 mA cm⁻² and (b) 0.02 mA cm⁻²; (c) The charging potential of the Co₃O₄@Ni during first charge from OCV at 0.02 mA cm⁻² in 1atm of O₂.