

## Supporting information

### Porous Cobalt-Manganese Oxide Nanocubes Derived from Metal Organic Frameworks as Cathode Catalysts for Rechargeable Li-O<sub>2</sub> Batteries

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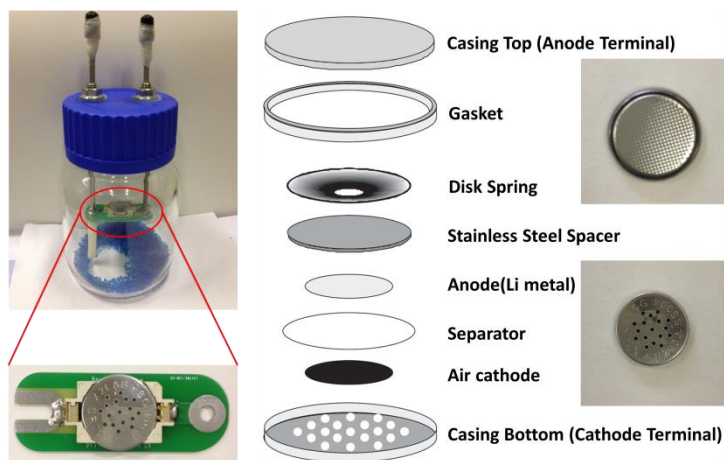


Fig. S1 Photographic images of the Li-O<sub>2</sub> battery system and schematic of modified coin cell

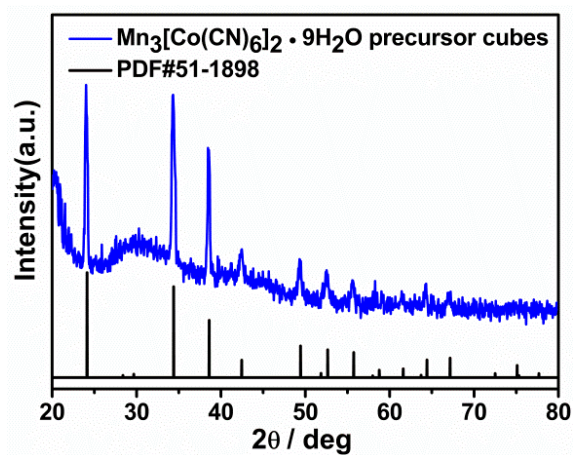


Fig. S2 The XRD pattern of Mn<sub>3</sub>[Co(CN)<sub>6</sub>]<sub>2</sub>·9H<sub>2</sub>O precursors

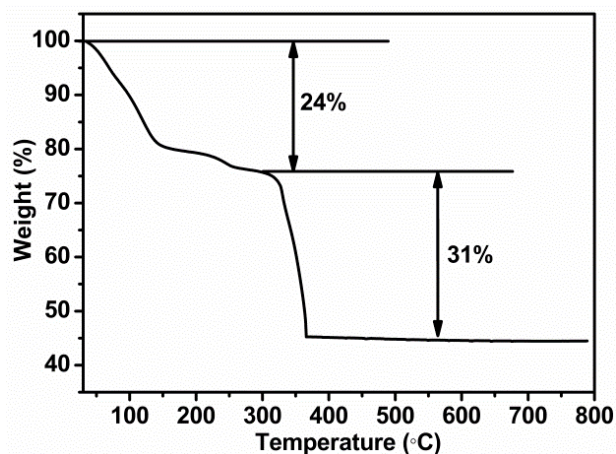


Fig. S3 Thermogravimetry (TG) of  $\text{Mn}_3[\text{Co}(\text{CN})_6]_2 \cdot 9\text{H}_2\text{O}$  precursors

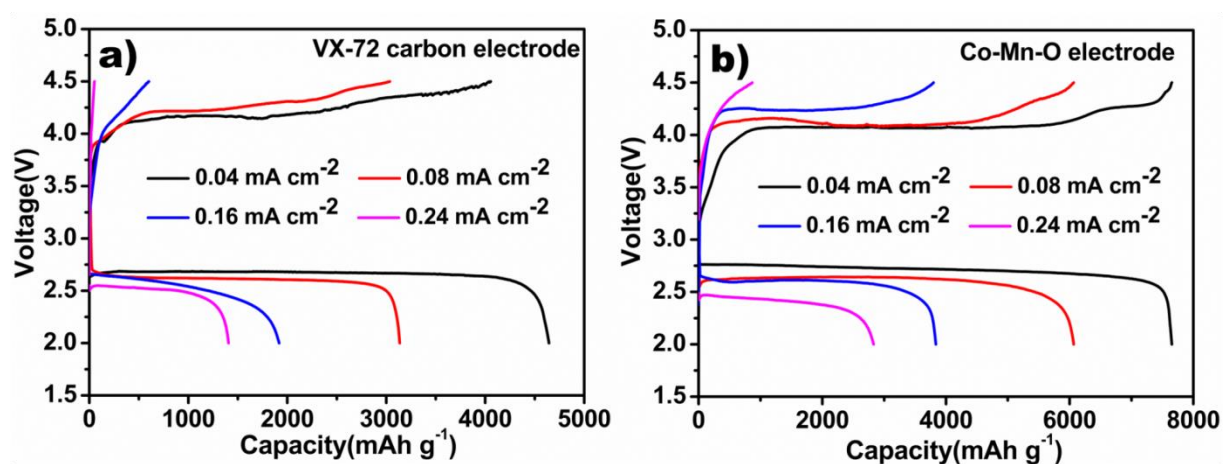


Fig. S4 First discharge-charge curves of  $\text{Li-O}_2$  batteries with (a) VX-72 carbon and (b) porous Co-Mn-O nanocubes electrodes at various current densities.

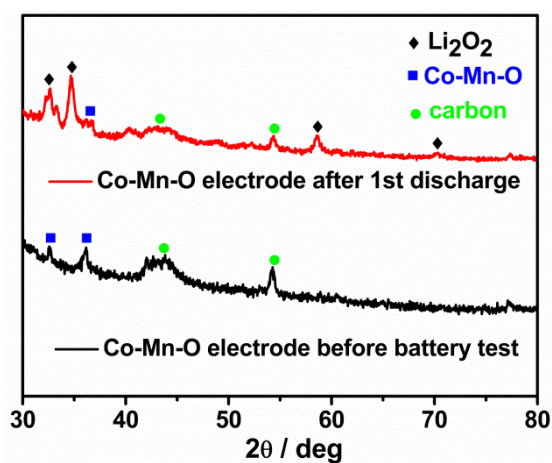


Fig. S5 XRD pattern of porous Co-Mn-O electrode before and after 1<sup>st</sup> discharge