## **Supporting Information**

## Synthesis of $MoO_2$ hierarchical peony-like microspheres without template and their application in lithium ion batteries

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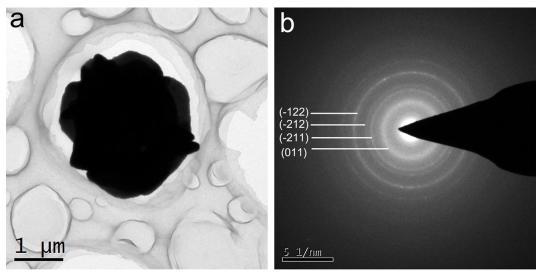


Fig. S1 TEM images of hierarchical peony-like MoO<sub>2</sub> microspheres by 12 h.

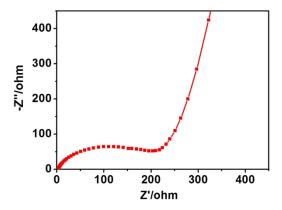


Fig. S2 Electrochemical impedance spectra of the  $MoO_2$  microspheres obtained by 12 h.