

Electronic supplementary information

Mesoporous ZnCo₂O₄ nanoflakes with bifunctional electrocatalytic activities toward efficiencies of rechargeable lithium-oxygen batteries in aprotic media

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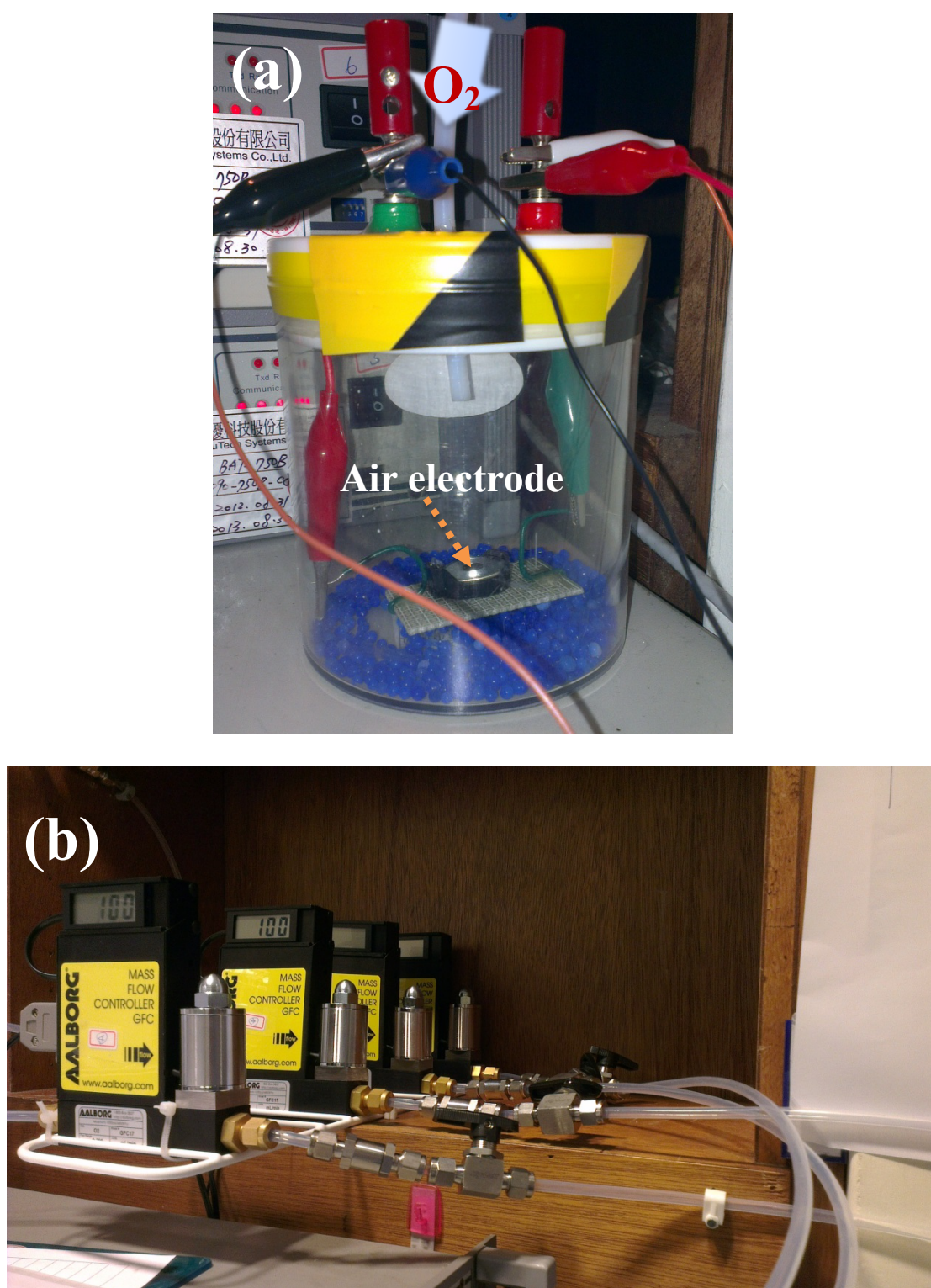


Fig. S1 Digital images of (a) set-up of aprotic Li-O₂ batteries testing and (b) 100 mL min⁻¹ of oxygen continuously inlet into (a) through a mass flow controller.

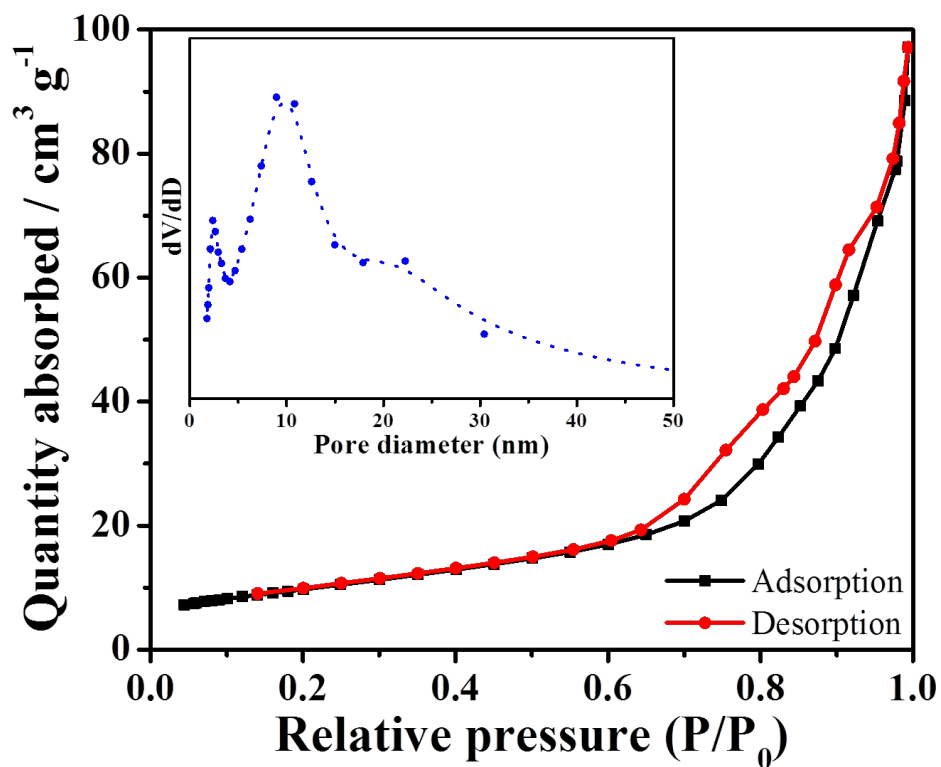


Fig. S2 Nitrogen adsorption-desorption isotherm of 2D mesoporous ZnCo₂O₄ NFs collected by an accelerated surface area and porosimetry system at 77 K. Inset showed the pore size distribution curve calculated by BJH model.

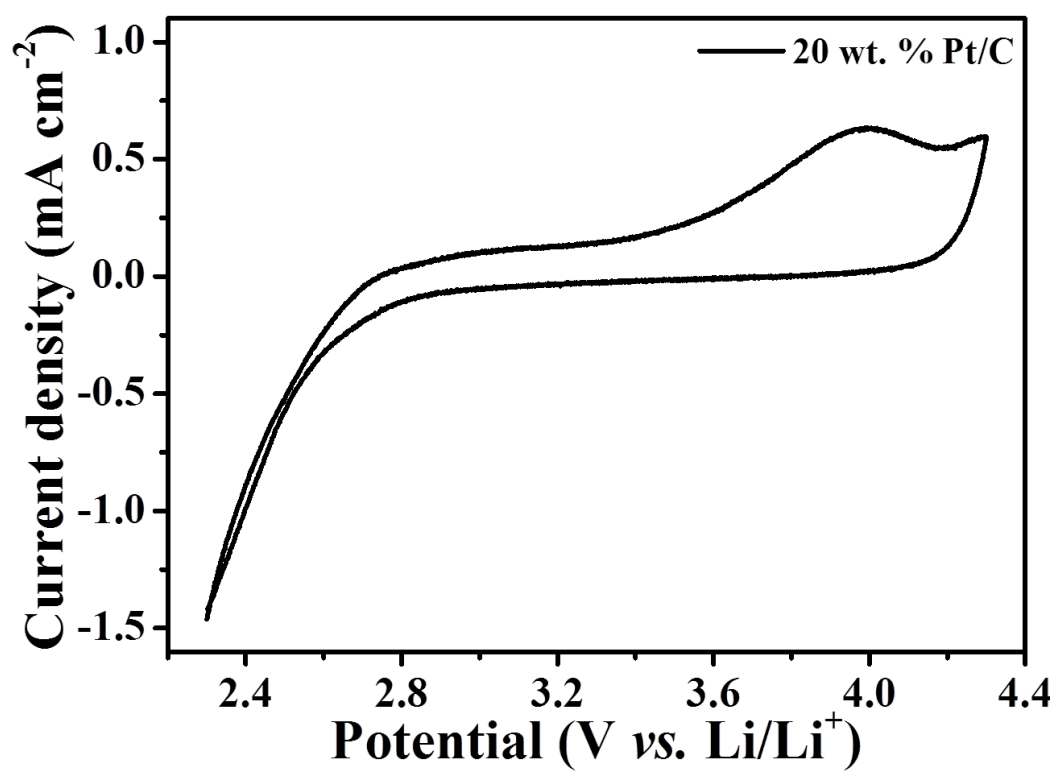


Fig. S3 CV curve of a commercial 20 wt. % Pt/C measured in 1 M LiTFSI/TEGDME electrolyte at a sweeping rate of 5 mV s⁻¹.

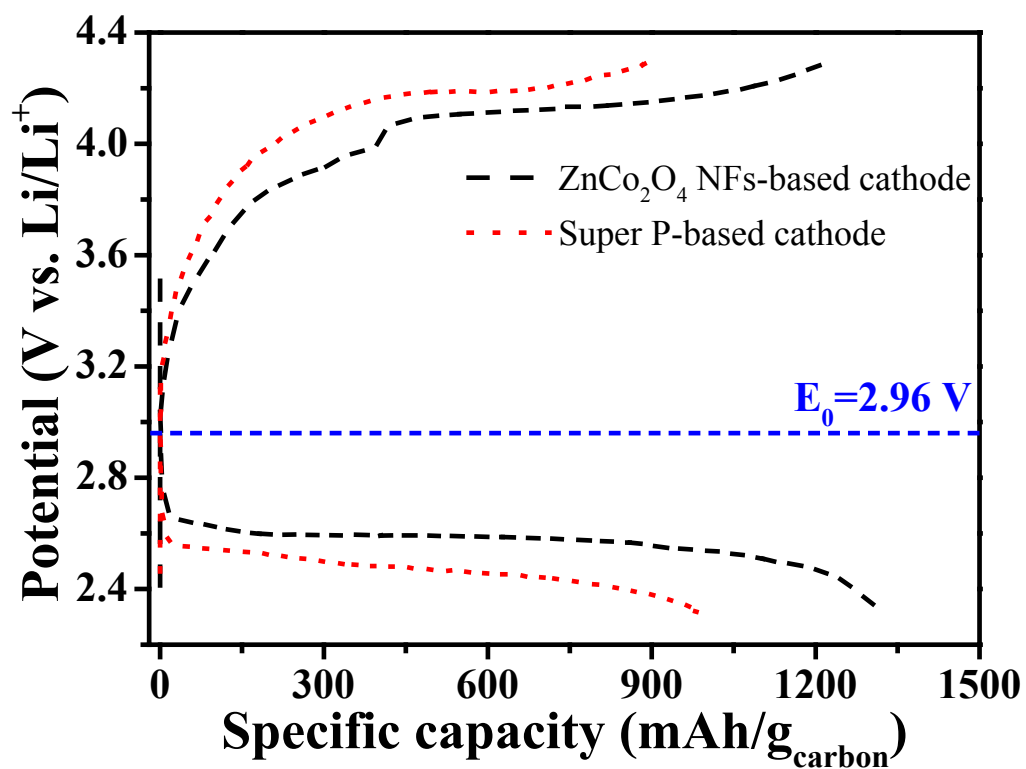


Fig. S4 1st capacity profiles of aprotic Li-O₂ batteries with 2D mesoporous ZnCo₂O₄ NFs and super P-based cathodes in 1 M LiTFSI/TEGDME electrolyte recorded between 2.3 V and 4.3 V vs. Li/Li⁺ at a current density of 0.1 mA cm⁻².