Supplementary Information

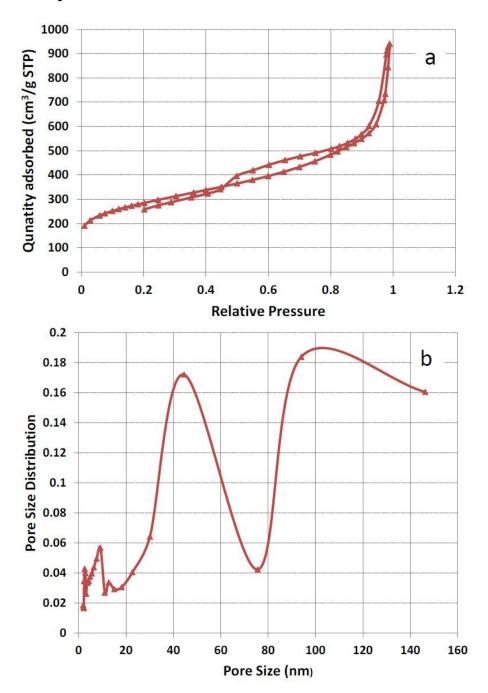


Figure S1. BET Surface Area Analysis of Hybrid 1. (a) N_2 adsorption-desorption isotherm; (b) Pore size distribution for Hybrid 1.

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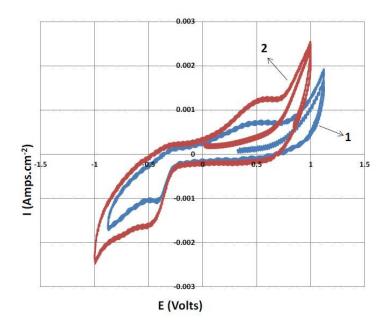


Figure S2. Cyclic Voltammetry curves for (1) GNSs and (2) N-GNSs in 0.1 M KOH at 25 °C at scan rate of 5 mV·min⁻¹.

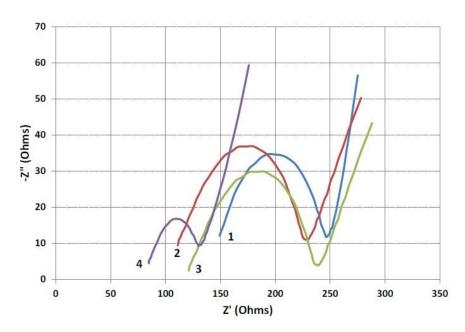


Figure S3. Nyquist plots of lithium-oxygen cell before discharge at 75 °C using (1) GNSs, (2) *N*-GNSs; (3) Ex-*N*-GNSs and (4) Hybrid 1 as cathode.

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