Supporting information

$MnCo_2O_4$ Anchored on P-doped Hierarchical Porous Carbon as an Electrocatalyst for High-performance Rechargeable Li-O_2 Batteries

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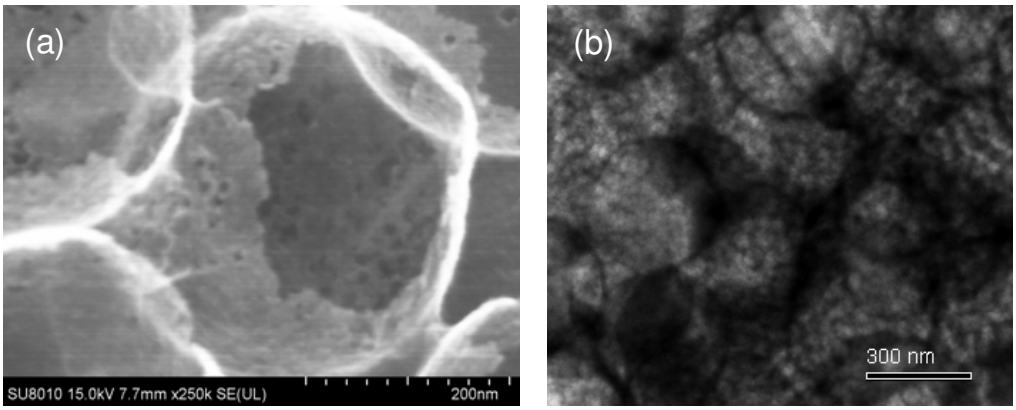

Figure S1. SEM image (a) and TEM image (b) of P-HPC.

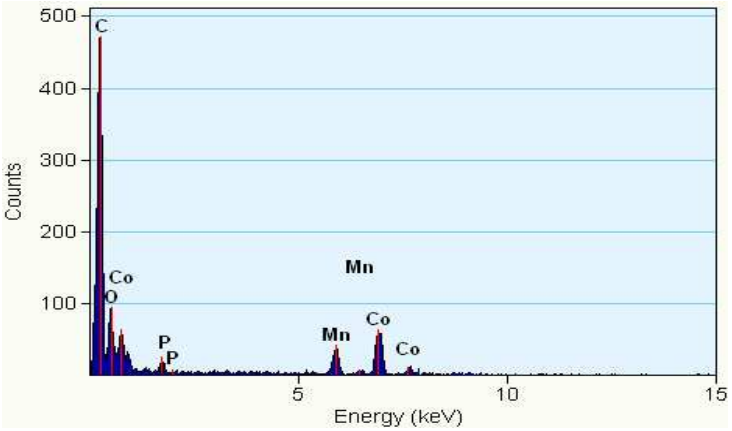

Figure S2. EDX spectrum of MCO/P-HPC.

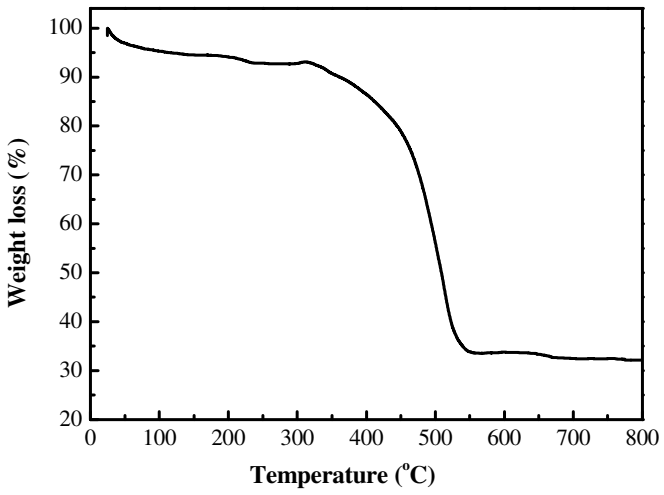

Figure S3. Thermogravimetric analysis of MCO/P-HPC hybrid.

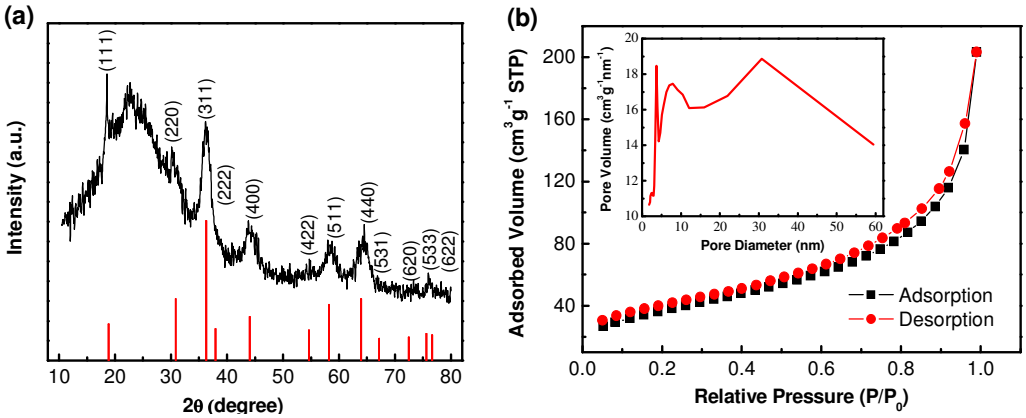

Figure S4. (a) XRD pattern of MCO/P-HPC; (b) BET surface area and pore size distribution (inset) of MCO/P-HPC.

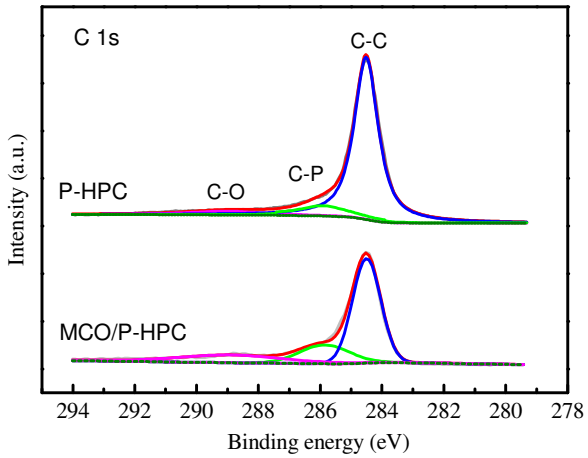

Figure S5. High-resolution C1s spectra of MCO/P-HPC and P-HPC.

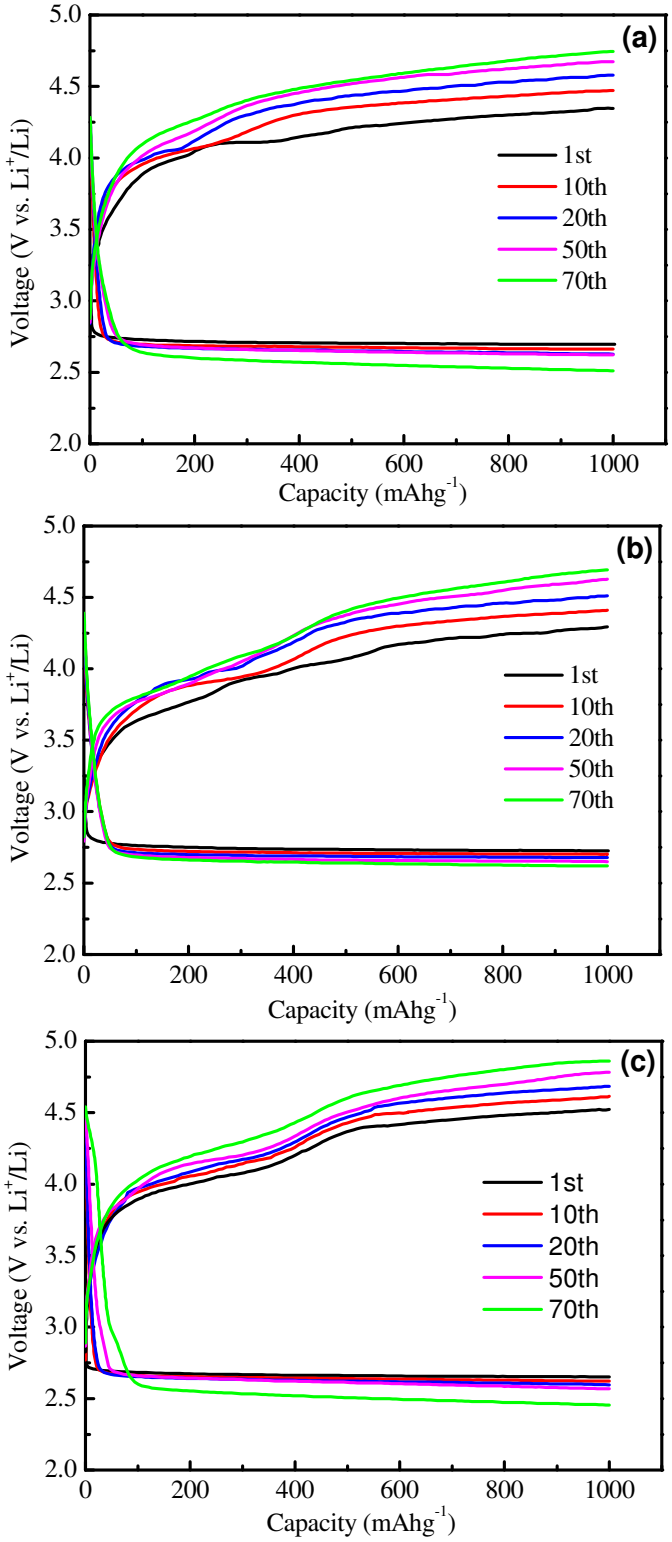

Figure S6. The cycling performance of MCO (a), P-HPC (b) and acetylene black (c) cathode at a limited depth of discharge of 1000 mAh g^{-1} and a current density of 200 mA g^{-1}.

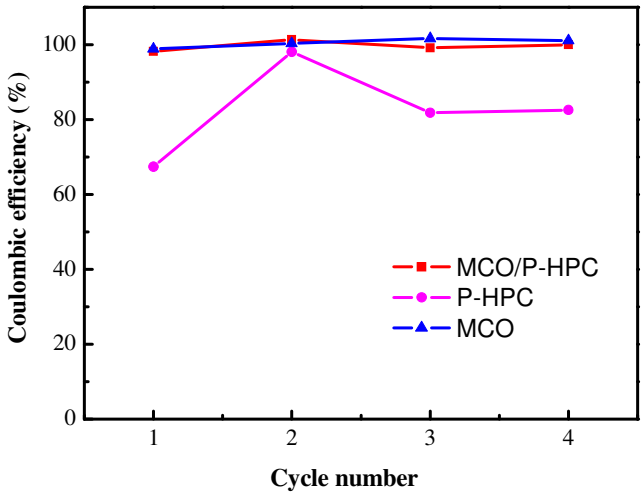

Figure S7. Coulombic efficiency of MCO/P-HPC, P-HPC and MCO for the first four cycles.