Electronic Supplementary Information (ESI)

High-Energy Lithium-Ion Hybrid Supercapacitors Composed of Hierarchical Urchin-like WO_3/C Anodes and MOF-derived Polyhedral Hollow Carbon Cathodes

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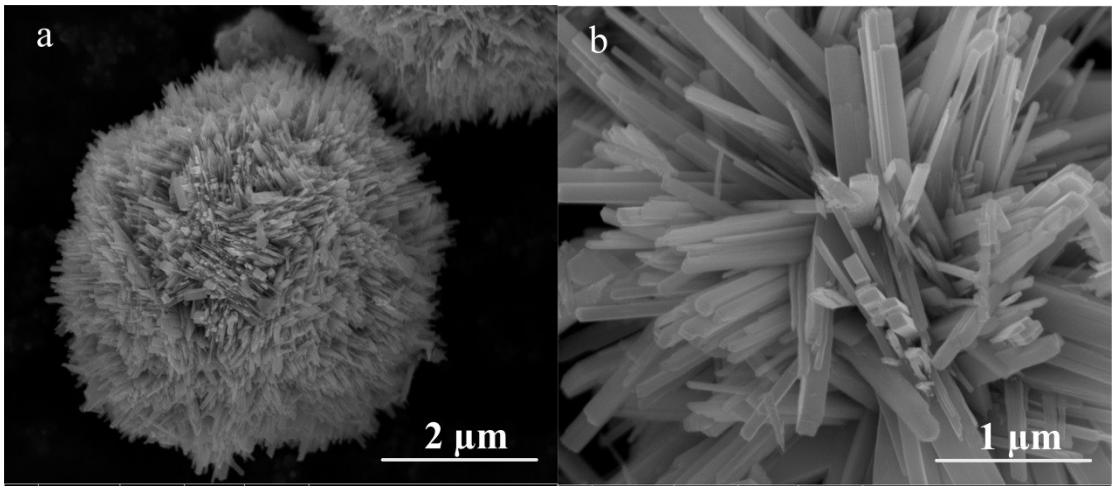

Figure S1. Characterization of pristine WO_3: (a) The SEM of WO_3, (b) The high-magnification SEM of WO_3 nanorod.

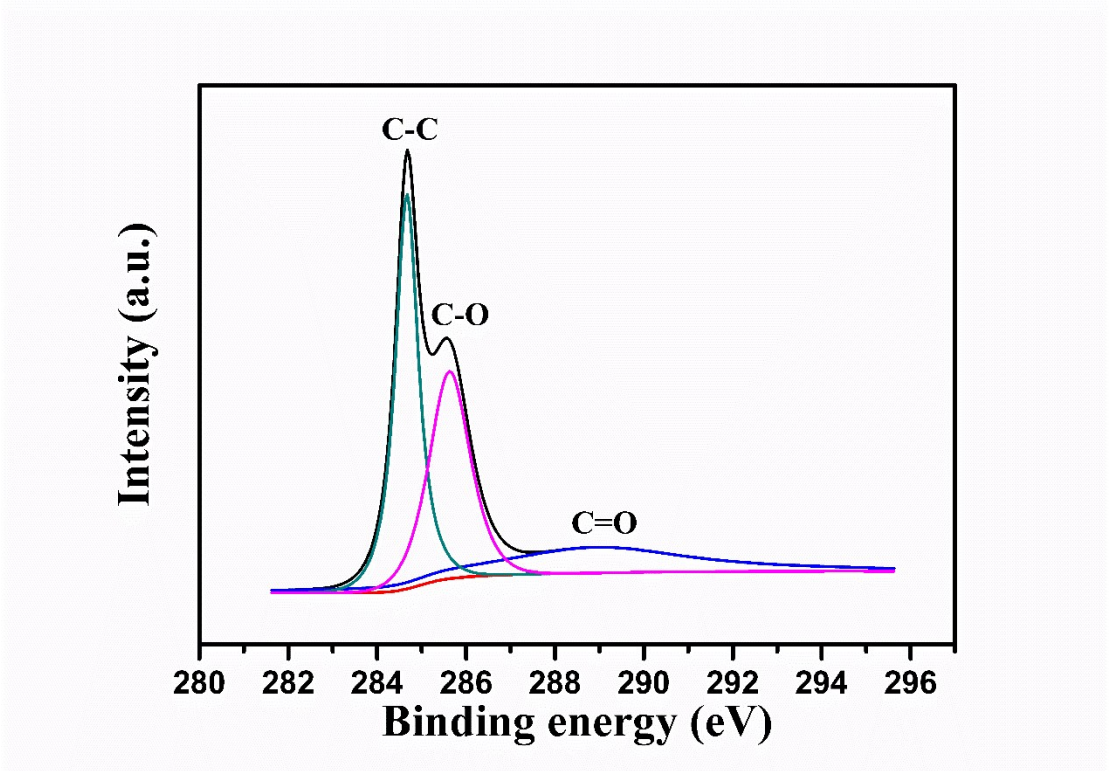

Figure S2. High-resolution XPS spectra of Urchin-like Carbon Coated WO_3 Microspheres of C1s.

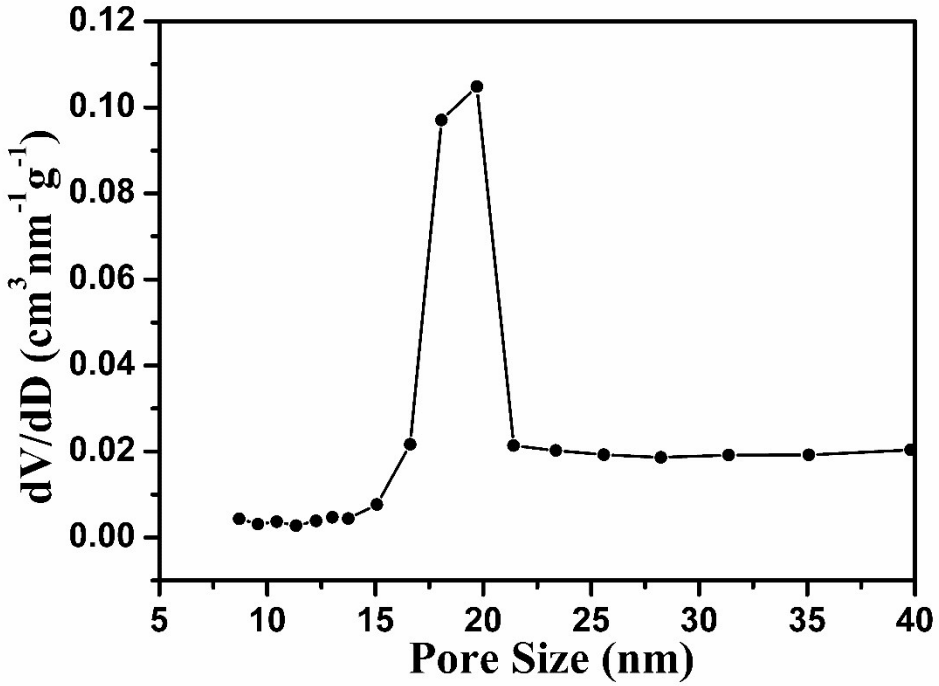

Figure S3. Pore size distribution plot of urchin-like WO_3/C microspheres.

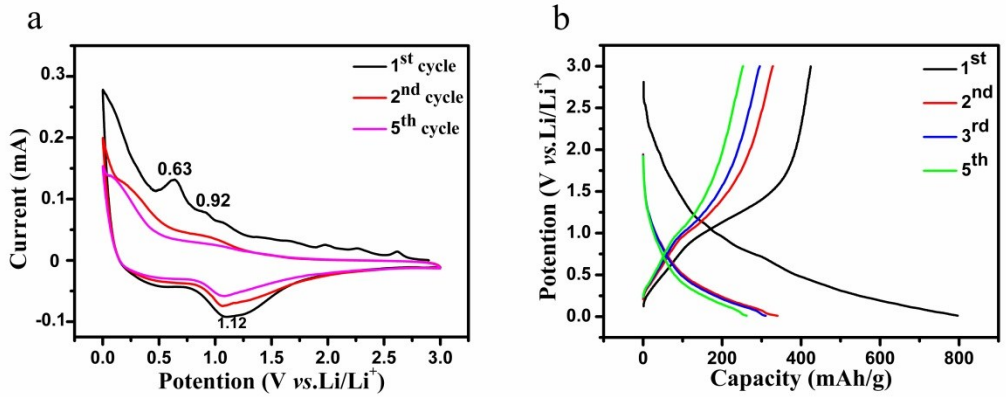

Figure S4. The CV curves and first five discharging-charging cycles of pristine WO_3//Li half-cells in the voltage range of 0-3.0 V *vs.* Li / Li^+.

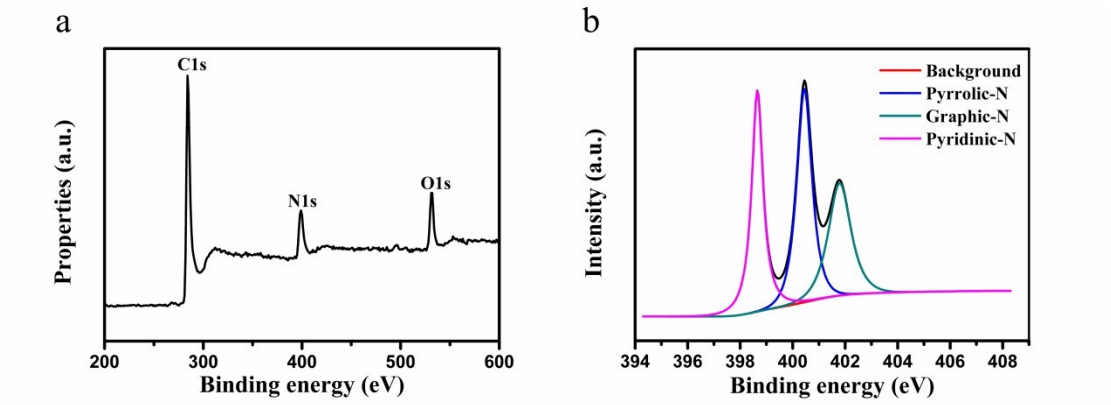

Figure S5. (a) High-resolution XPS spectra of MOF-NC. (b) The high-resolution N 1s spectrum can be deconvoluted into pyridinic N (398.6 eV), pyrrolic N (400.4 eV), and graphitic N (401.8 eV).