Supporting Information

MOF-derived crumpled-sheet-assembled perforated carbon cuboids as highly effective cathode active material for ultra-high energy density Li-ion hybrid electrochemical capacitors (Li-HEC))

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Supporting Information S1

![Figure S1. Thermo-gravimetric curves for MOF-5 in Ar flow at 5 °C min⁻¹](image)

Figure S1. Thermo-gravimetric curves for MOF-5 in Ar flow at 5 °C min⁻¹
Supporting Information S2

Figure S2. (a) Cyclic voltammogram of MOF-DC based symmetric supercapacitor in the presence of 1 M LiPF₆ in EC/DMC solution tested between 0-3 V at various scan rates. Each electrode is composed on 4 mg active mass loading over stainless steel substrate, and (b) Typical galvanostatic charge-discharge profiles of MOF-DC/MOF-DC symmetric supercapacitor cycled at various current densities. The applied current density is based on total active mass loading (4+4=8 mg), for example 1 A g⁻¹ corresponds to the applied current of 8 mA.
Figure S3 (a) Galvanostatic charge-discharge curves of Li/Li$_4$Ti$_5$O$_{12}$ (Sigma-Aldrich, USA) half-cells cycled between 1-3 V at constant current density of 150 mA g$^{-1}$, and (b) Plot of discharge capacity vs. cycle number.