

**Supplementary Material (ESI) for RSC Advances**

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**Electronic Supplementary Information**

**Facile synthesis of nitrogen-doped unzipped carbon nanotubes  
and their electrochemical properties**

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**Figure S1.** TGA curves of MWCNTs and N-UCNTs

**Figure S2.** FTIR spectra of MWCNTs and O-UCNTs

**Figure S3.** CV curves of N-UCNTs at the scan rate of 5, 20, 50 and 100  $\text{mV s}^{-1}$  in 6 M KOH electrolyte

**Figure S4.** Nyquist impedance plot of N-NCNTs and UCNTs at open circuit potential

**Figure S5.** The cycle stability of N-UCNTs at a scan rate of 100  $\text{mV s}^{-1}$  for 10000 cycles in 6 M KOH electrolyte