

Supporting Information

Ionic-Liquid-Assisted One-Pot Synthesis of Cu₂O Nanoparticles/Multi-Walled Carbon Nanotubes Nanocomposite for High-Performance Asymmetric Supercapacitors

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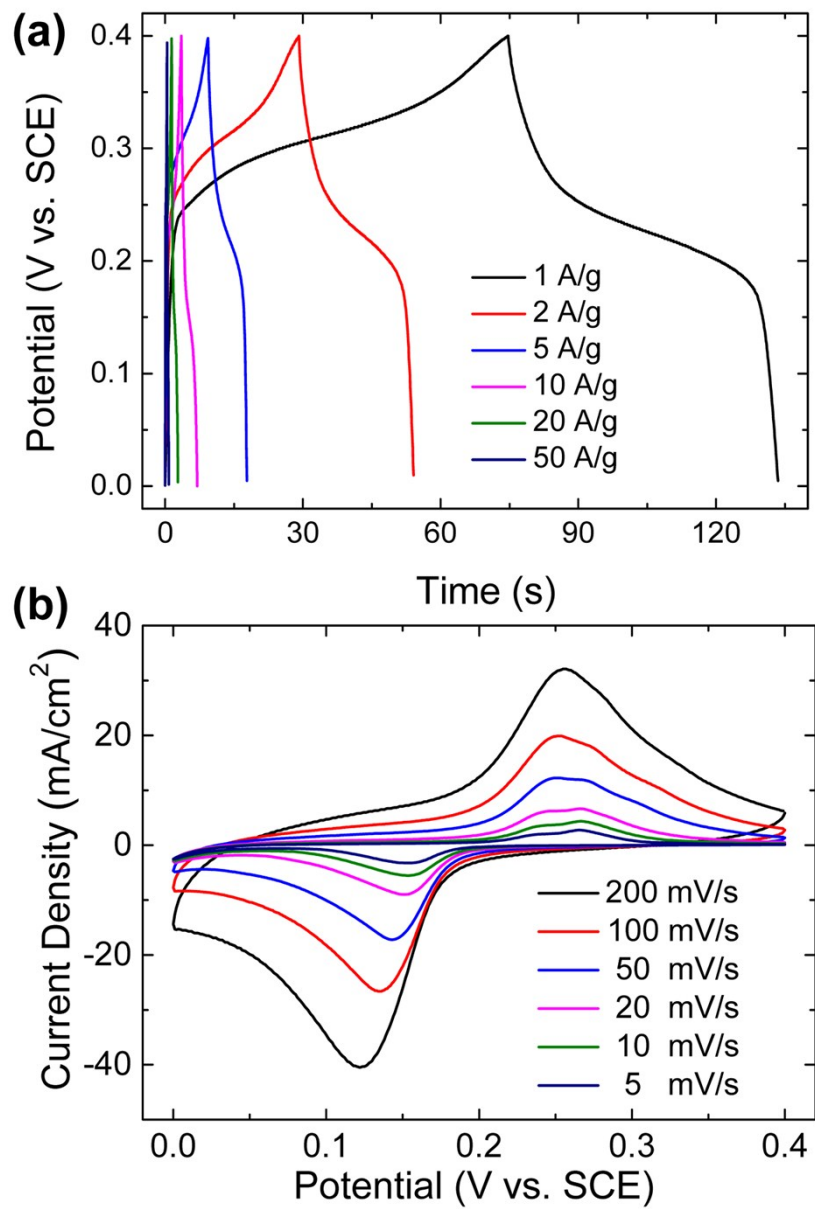


Fig. S1 Electrochemical performances of pristine carbon nanotubes in 6 M KOH aqueous solution: (a) GCD curves at various current densities ranging from 1 to 50 A/g. (b) CV curves at the scan rate ranging from 5 to 200 mV/s.

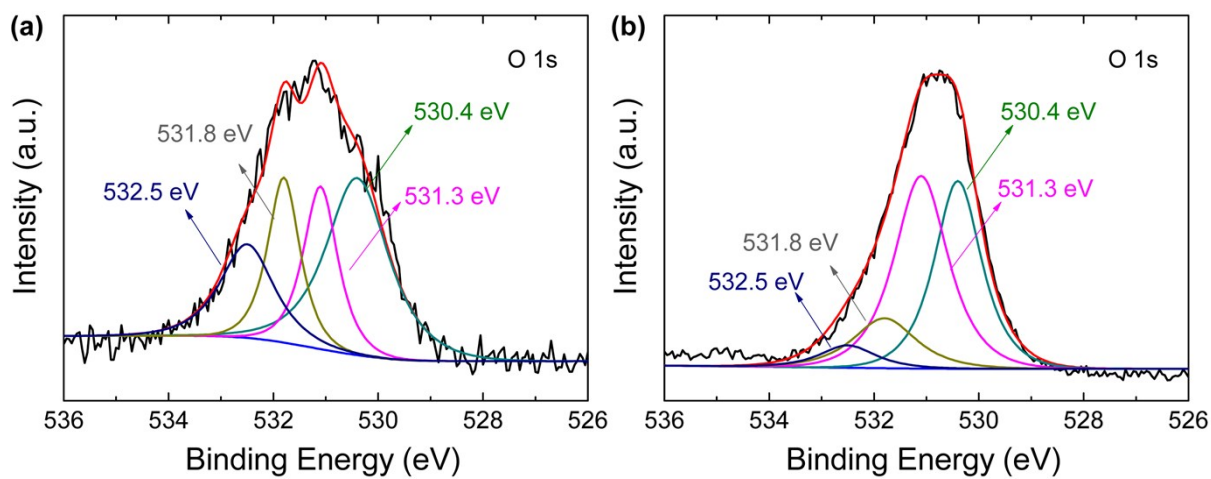


Fig. S2 XPS O 1s spectra of (a) Cu₂O/MWCNTs and (b) r-Cu₂O/MWCNTs nanocomposite

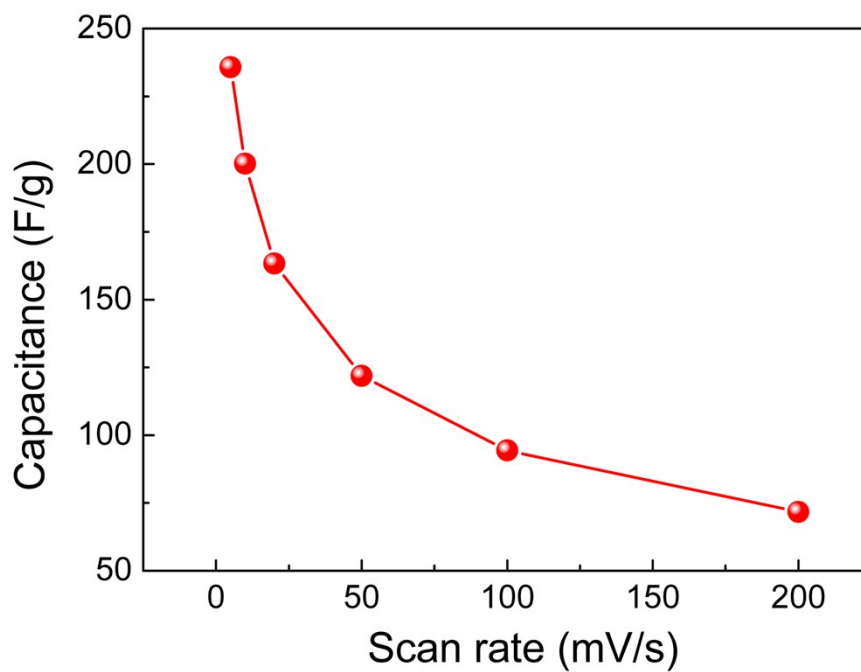


Fig. S3 Capacitance value of the ASC device as a function of the scan rate

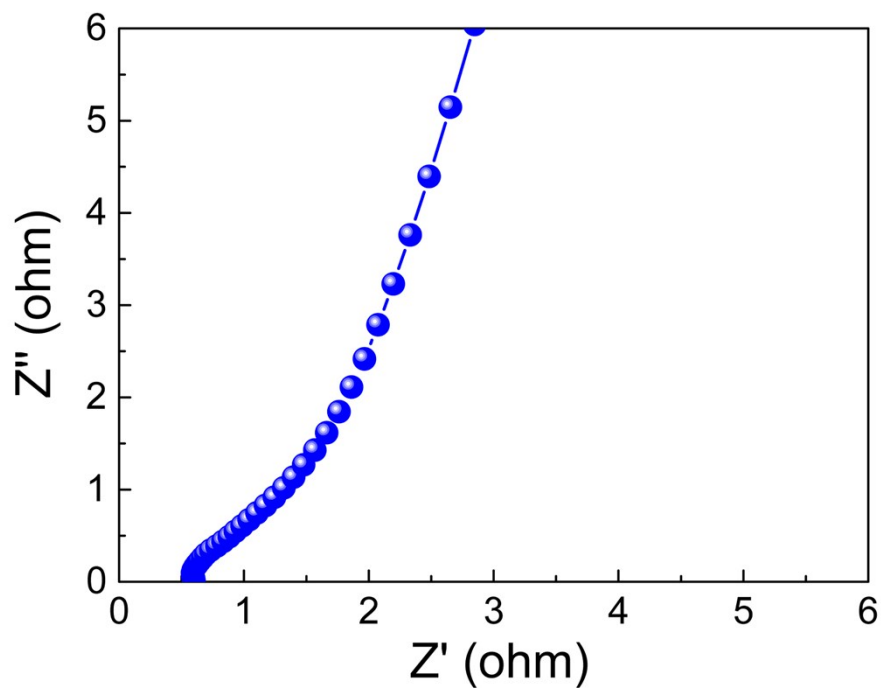


Fig. S4 Magnified part for the low real impedance part of the Nyquist plot.

Table S1. O1s XPS Peak Deconvolution Results

Sample	O ²⁻ (%)	O ₂ ²⁻ /O ⁻ (%)	-OH or O ₂ (%)	H ₂ O (%)
Cu ₂ O/MWCNTs	41	20.7	19.7	18.6
r-	37.5	43.9	13.3	5.3
Cu ₂ O/MWCNTs				