

Electronic Supplementary Information

Electrochemical performance of reduced graphene oxide surface-modified with 9-anthracene carboxylic acid

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Key words: CV curves, galvanometric charge discharge graph and impedance spectra of MWNT, CV curves and galvanometric charge discharge of ACA-rGO at -1~0 V. FT-IR spectra of ACA-rGO after 10000 cycle. Capacitance value calculated from CV curves in different scan rate in Table S1

Result and discussion

1. Electrochemical performance of MWNT

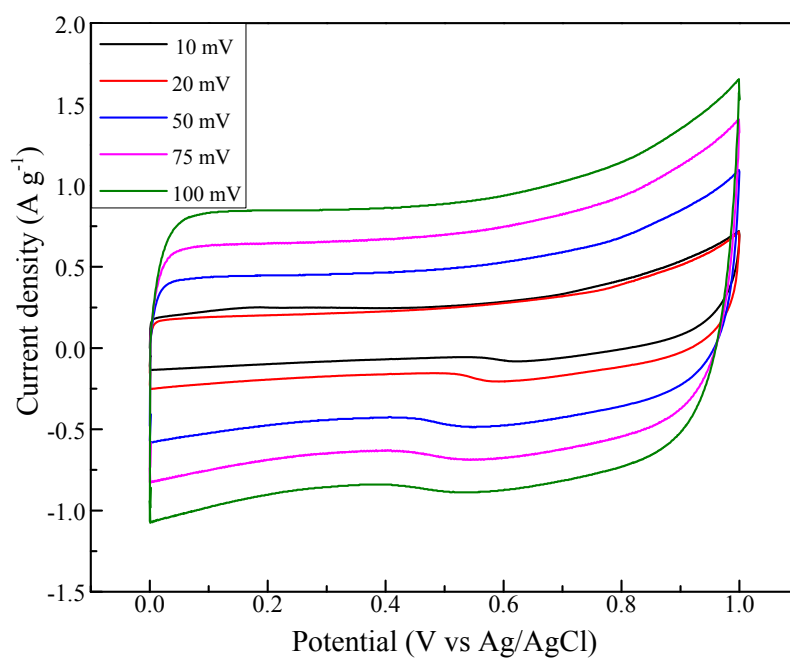


Fig. S1 CV of MWNTs with different scan rate

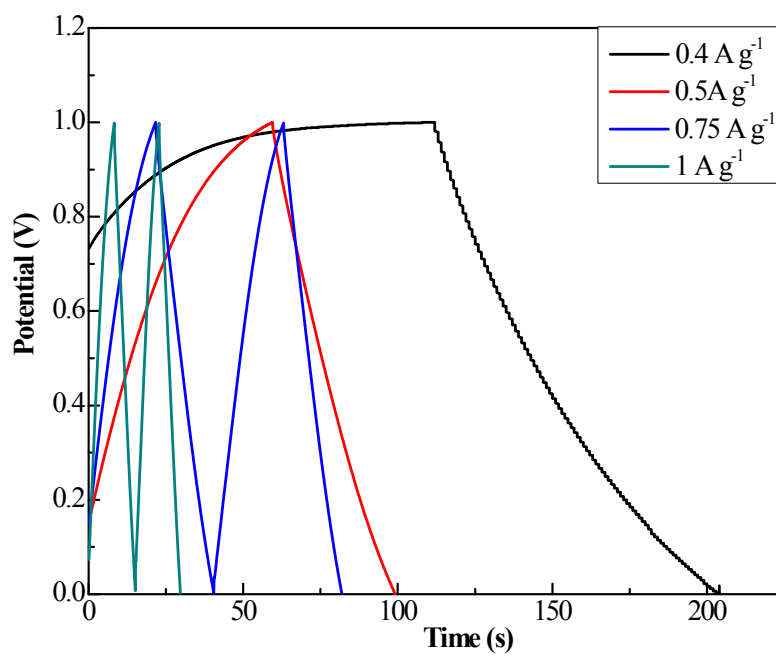


Fig. S2 Galvanometric charge-discharge graph of MWNTs

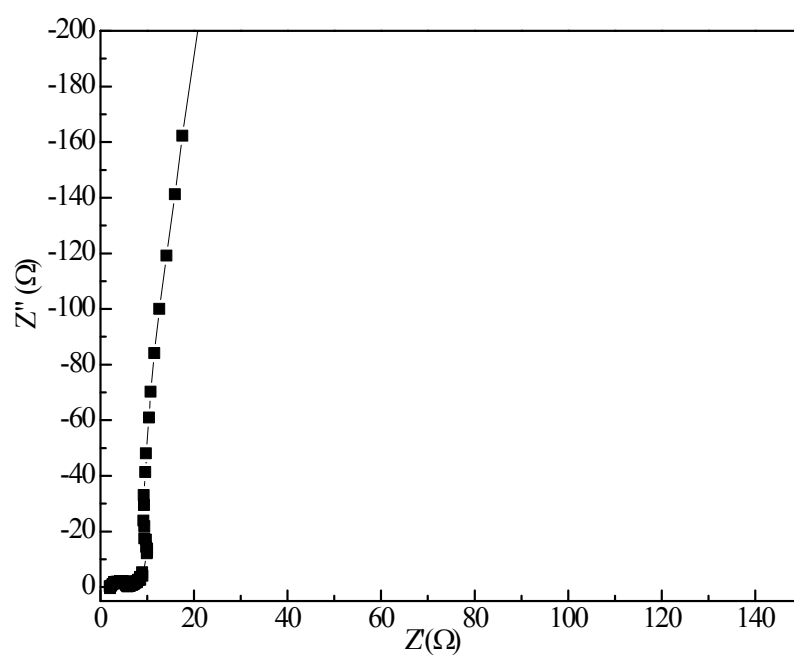


Fig. S3 Impedance spectra of MWNT

2. Electrochemical performance of ACA-rGO at -1~0 V

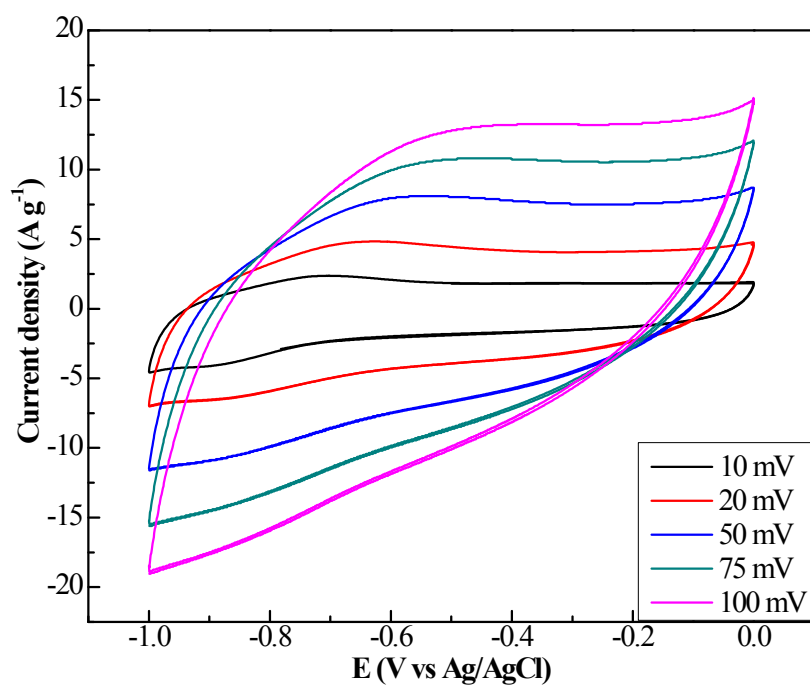


Fig. S4 CV curves of ACA-rGO at -1~0 V in 1M Na₂SO₄

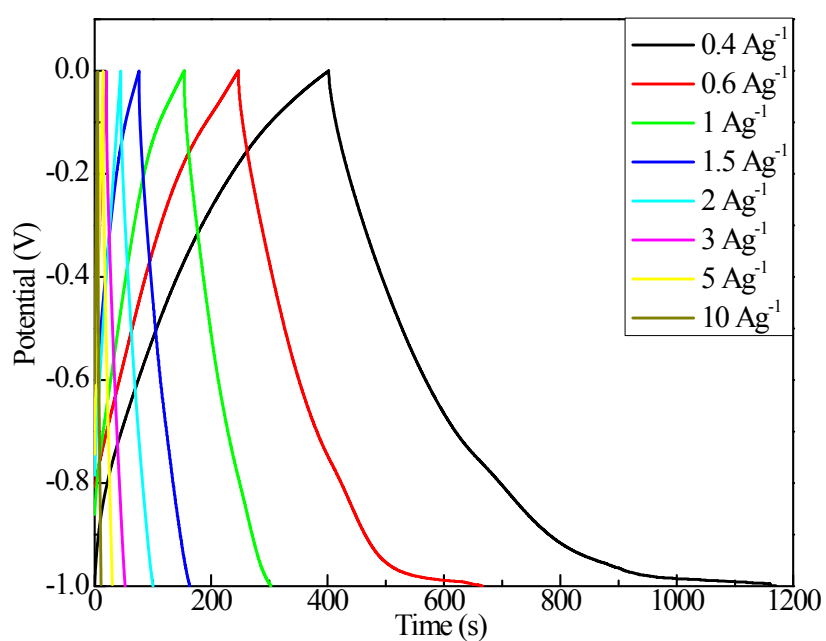


Fig. S5 Galvanometric charge-discharge of ACA-rGO

Table S1. Specific capacitance value (F g⁻¹) calculated from CV curves with different scan rate

	10 mV	20 mV	50 mV	75 V	100 mV
Sample					
ACA-rGO	425.8	375.6	329.8	297.8	271.7
rGO	218.4	203.2	142.7	127.2	110.1
GO	144.4	73.1	51.2	40.1	36.2