

Facile electrochemical synthesis of 3D nano-architected CuO

electrodes for high-performance supercapacitors

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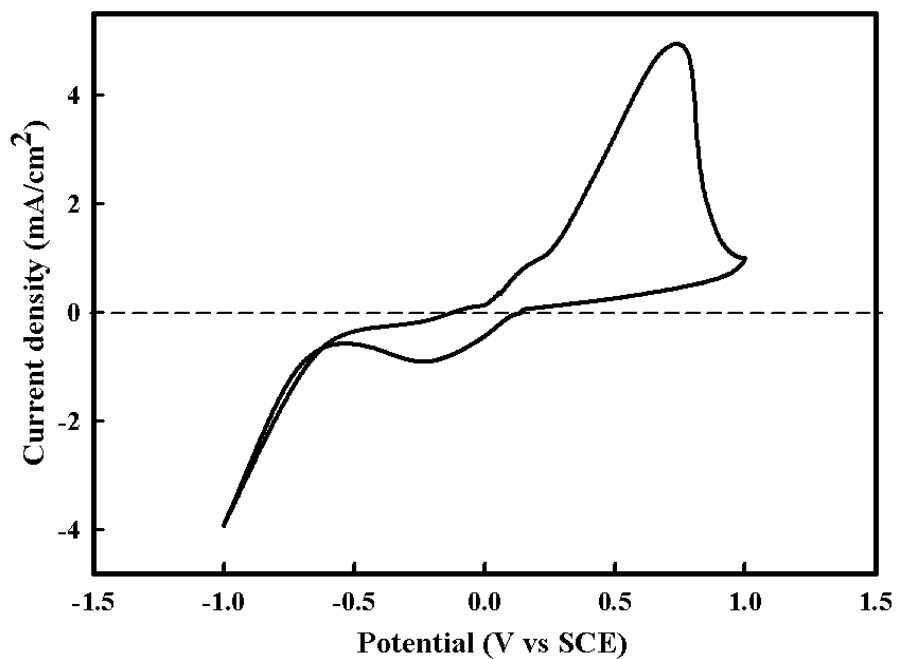


Figure S1 Cyclic voltammogram of the Ni foam electrode in solution (NiSO_4 0.5 M , NiCl_2 0.5 M , CuSO_4 0.01 M, H_3BO_3 1 M) at potential scan rate 10 mV s^{-1} .

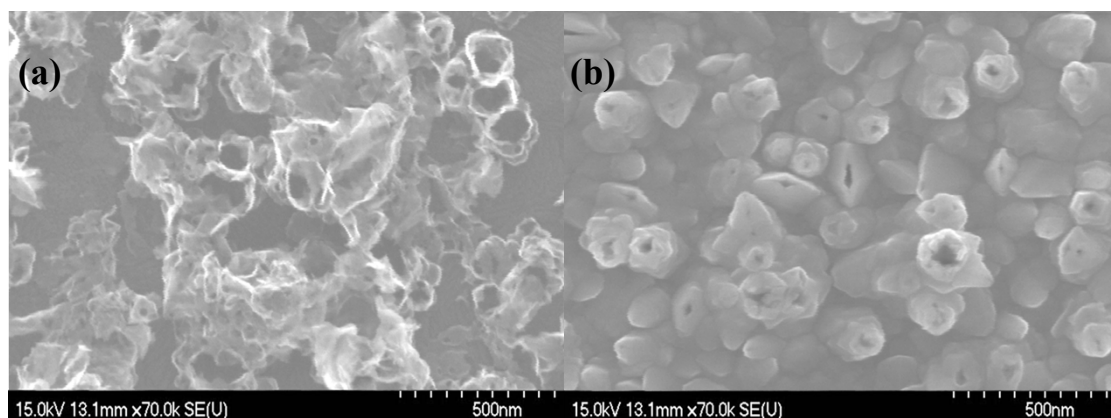


Figure S2 SEM micrographs of Ni-Cu alloy films that were electrodeposited at (a) - 0.70V and (b) -0.85V followed by selective dissolution at 0.80 V.

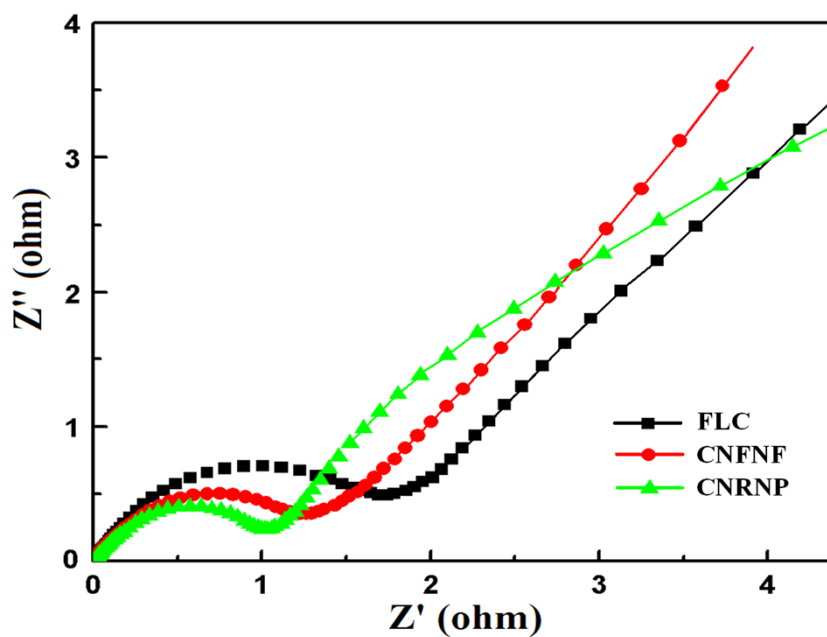


Figure S3 Nyquist plots of three electrodes for supercapacitors.

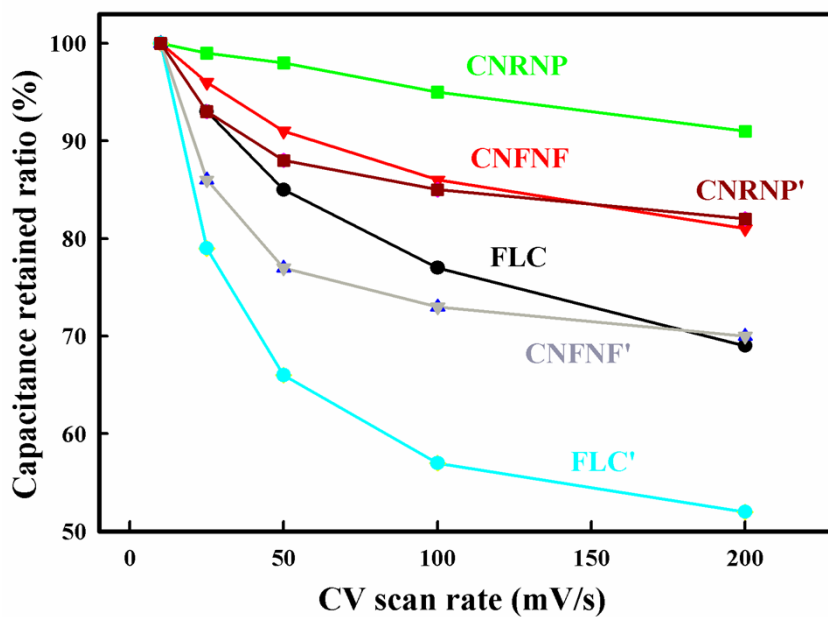


Figure S4 Capacitance-retention ratios as a function of the CV scan rate for CNRNP, CNFNF, FLC, CNRNP', CNFNF' and FLC' electrodes. The amounts of deposited CuO were 0.32 mg cm^{-2} (curves CNRNP, CNFNF, FLC) and 1.2 mg cm^{-2} (curves CNRNP', CNFNF', FLC').

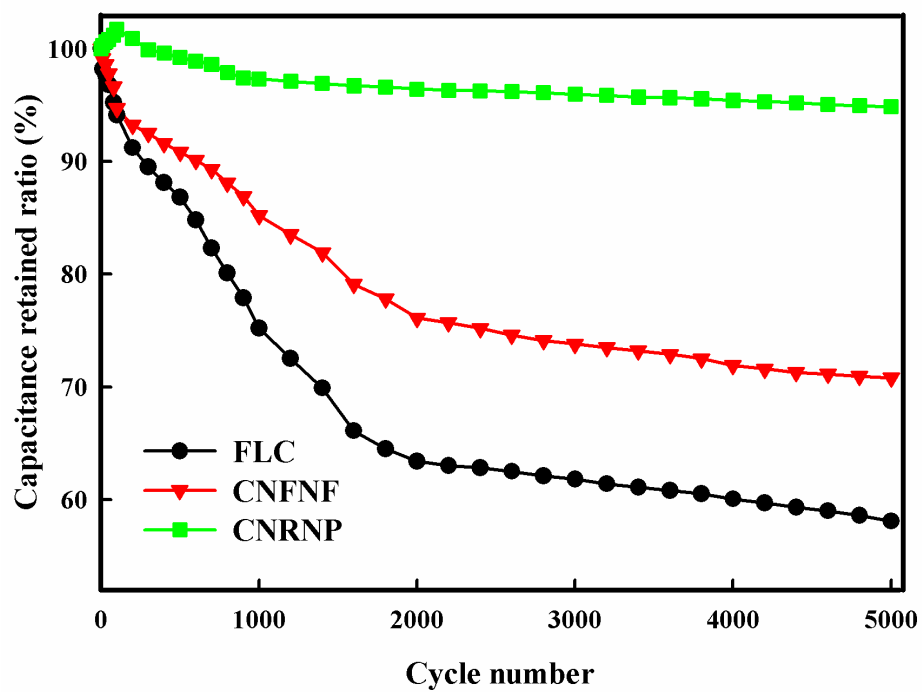


Figure S5 Cycle performance of the CNRNP, CNFNF and FLC electrodes.