

Supplementary Materials

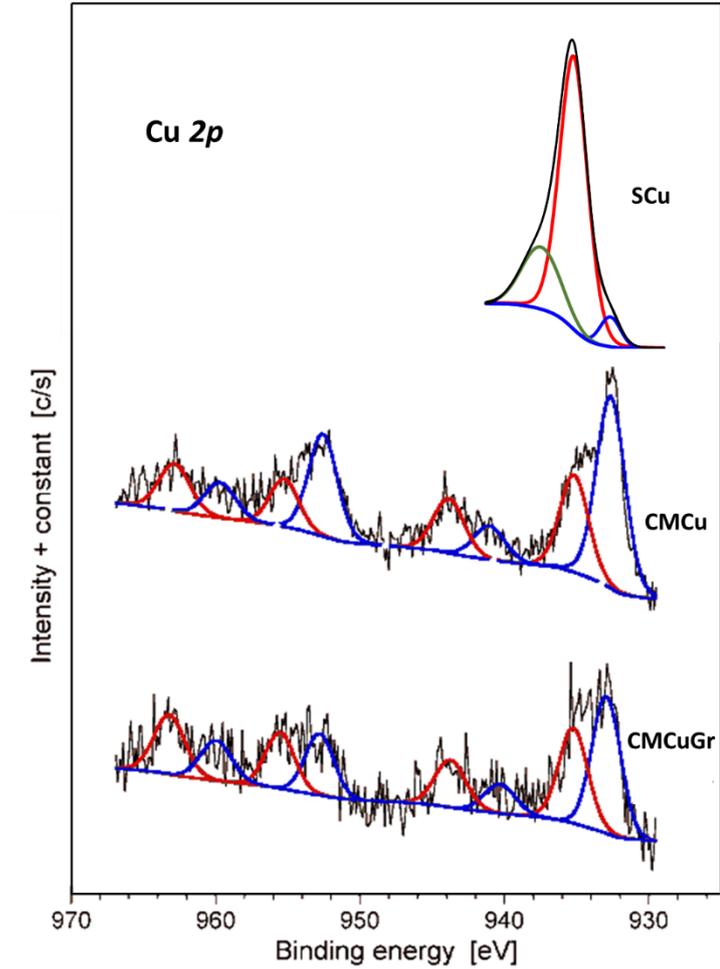


Figure S1. XPS spectra of main Cu p3/2 signal for all samples.

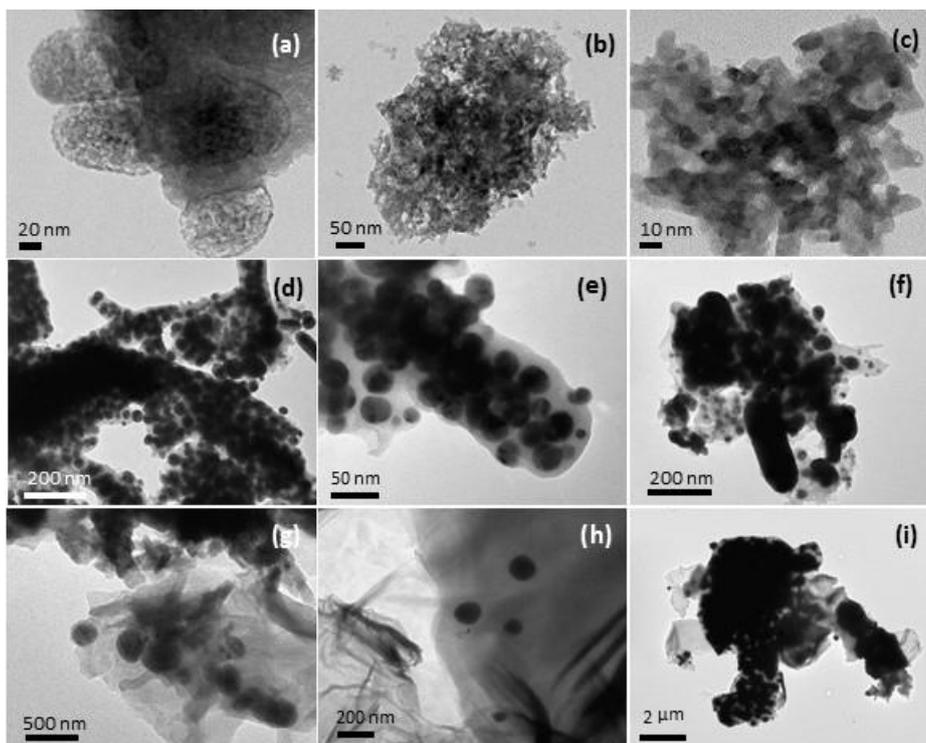


Figure S2. Representative TEM images of the (a) S, (b–c) SCu, (d–f) CMCu, and (g–i) CMCuGr samples.

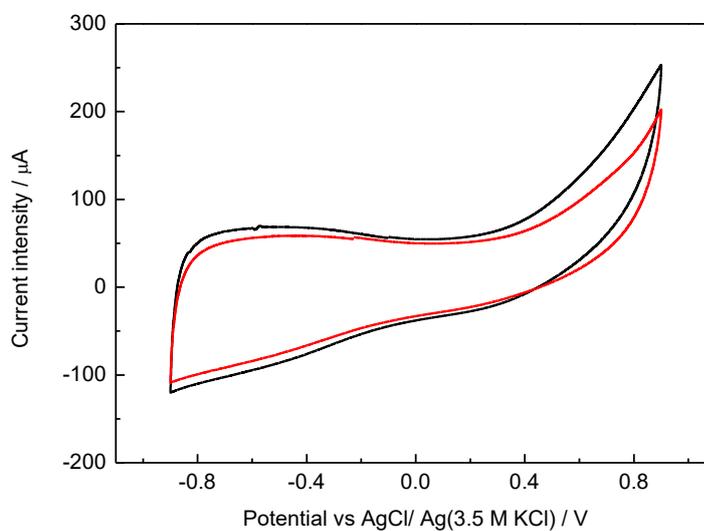


Figure S3. Cyclic voltammograms of the electrochemical response of undoped S carbon in 0.1 M NaOH (black line) and in presence of 0.02 M PGA (red line). 40 wt.% Nafion ionomer in the catalytic ink. Third scan recorded. Scan rate 10 mV s⁻¹.