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Supporting Information

Graphene oxide template-directed synthesis of porous carbon nanosheets from expired wheat flour for high-performance supercapacitors

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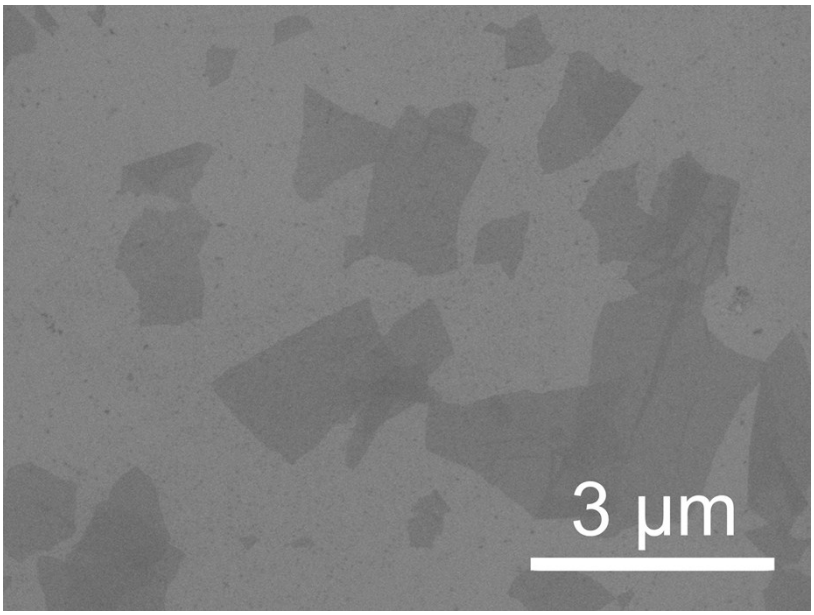

Figure S1. SEM image of GO.

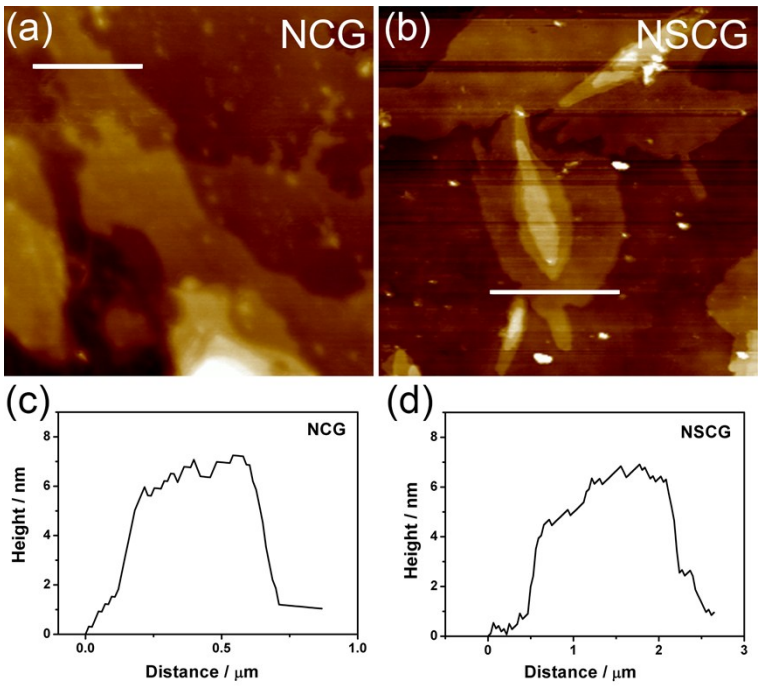

Figure S2. AFM images and corresponding height images (a, c) NCG; (b, d) NSCG.

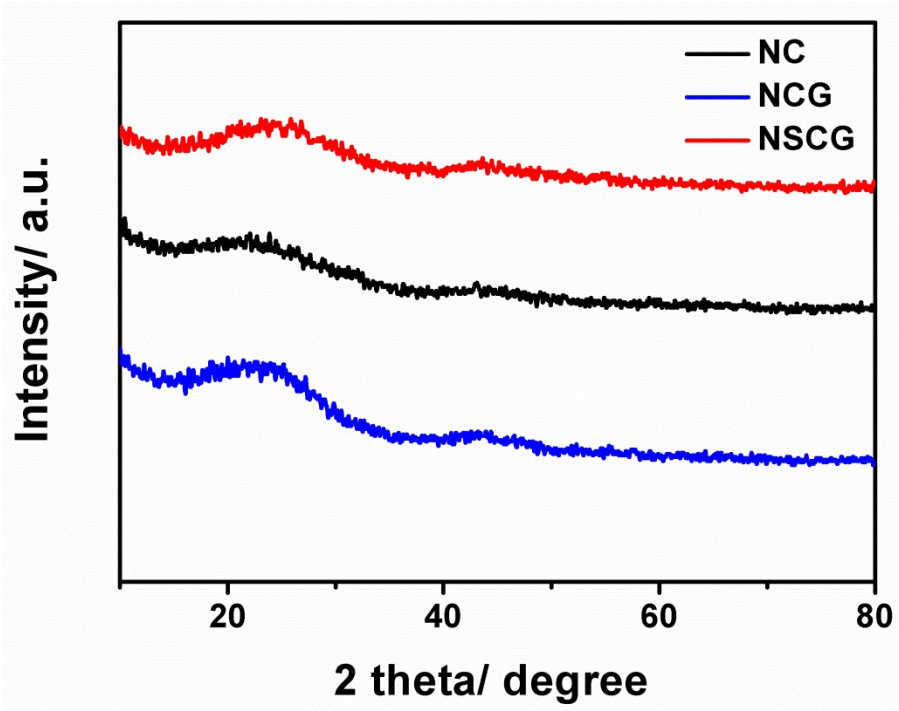

Figure S3. XRD patterns of NC, NCG and NSCG.

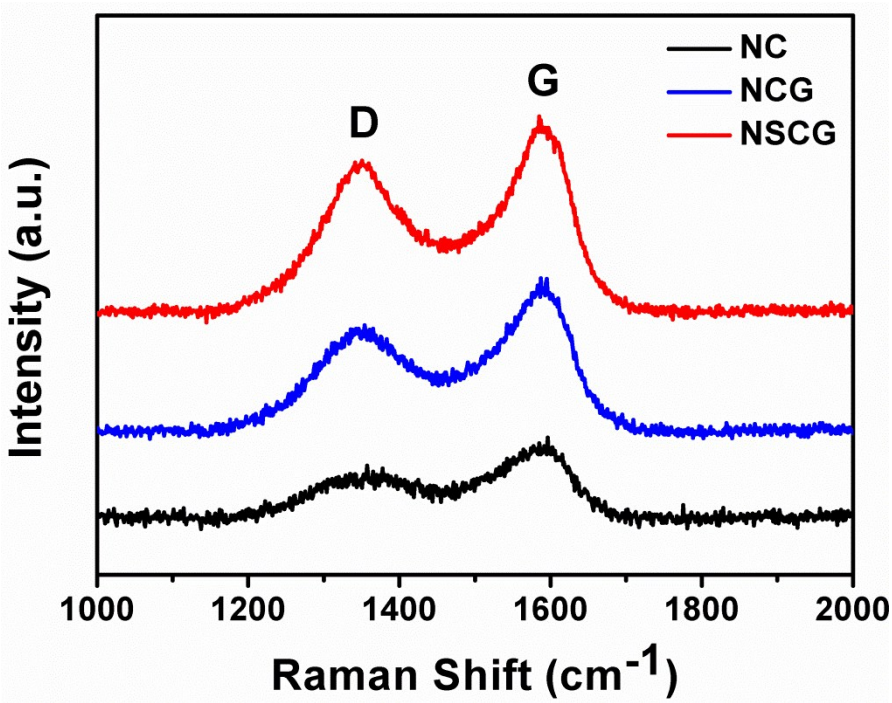

Figure S4. Raman spectra of NC, NCG and NSCG.

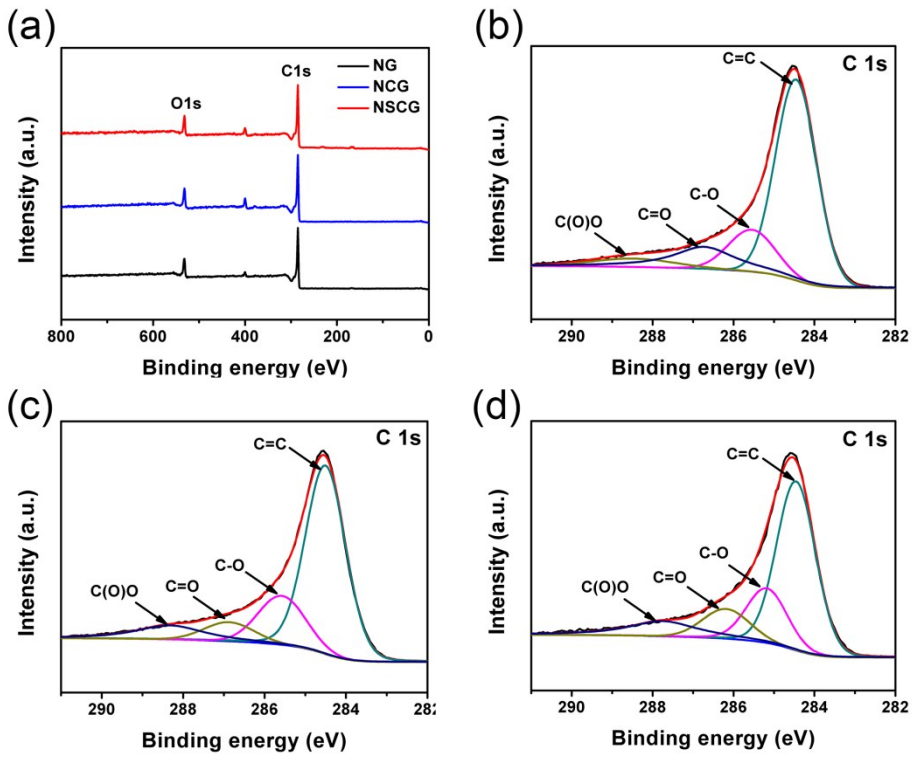

Figure S5. (a) XPS spectra of NC, NCG and NSCG; high-resolution C1s spectra of the (b) NC; (c) NCG ; (d) NSCG

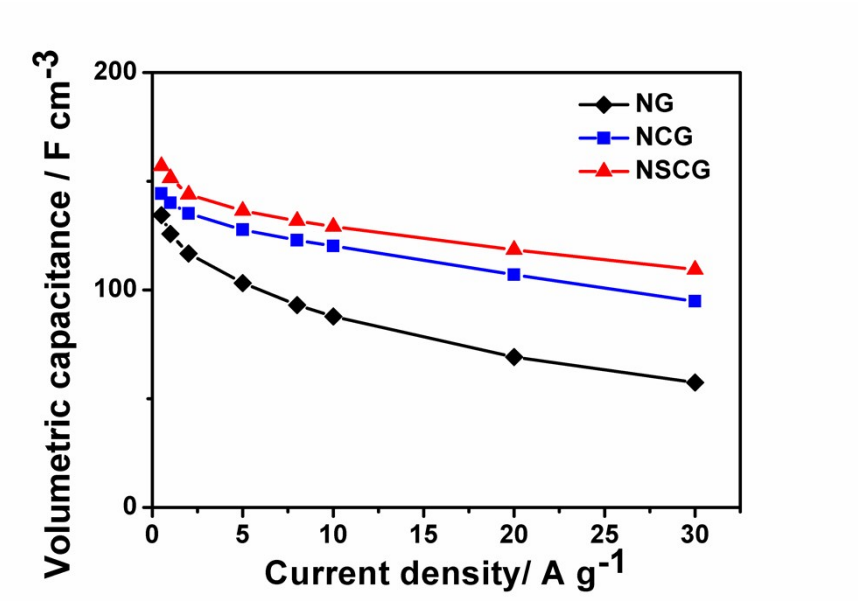

Figure S6. Volumetric specific capacitances of the samples at different current densities.

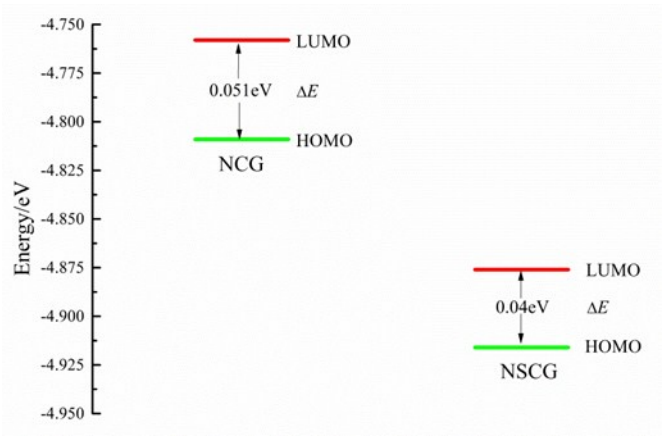

Figure S7. Schematic depiction of E_{HOMO}, E_{LUMO}, and ΔE of NCG and NSCG.

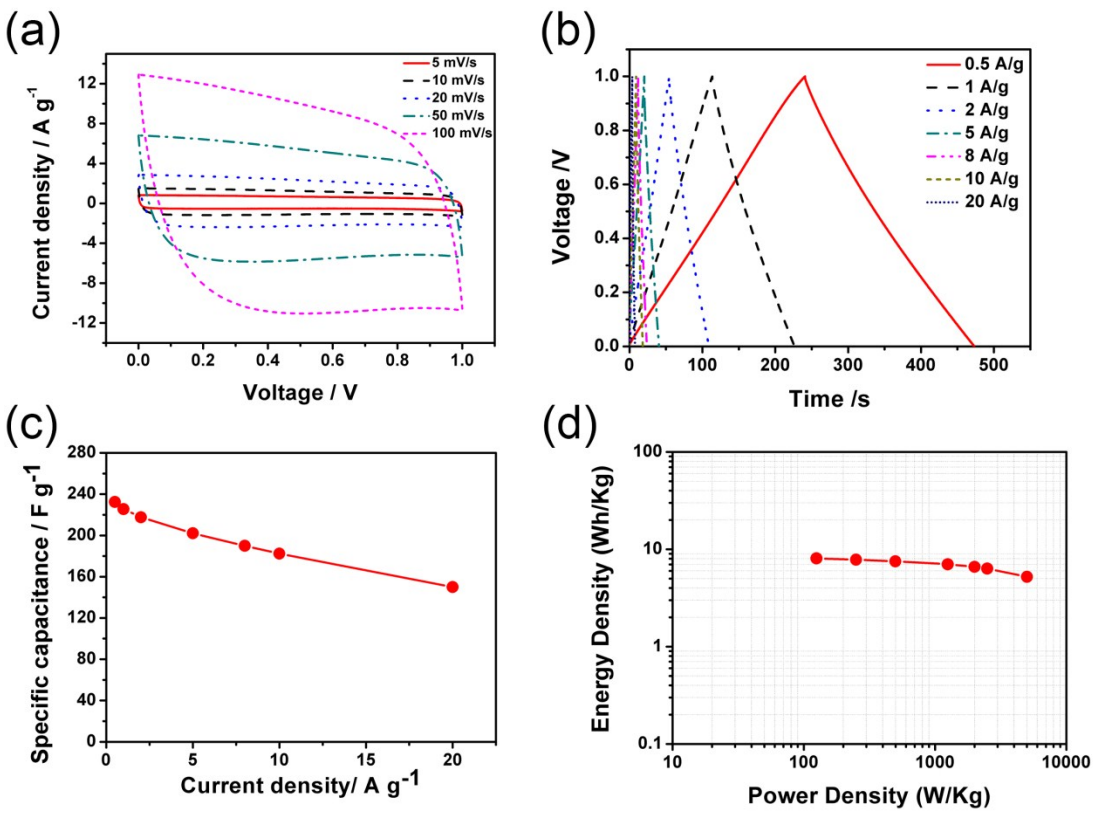

Figure S8. (a) Cyclic voltammograms of NSCG at the scan rates from 5 mV s^{-1} to 100 mV s^{-1} in the two-electrode cell; (b) Galvanostatic charge-discharge curves and (c) Specific capacitances of NSCG at different current densities in the two-electrode cell; (d) Ragone plot of NSCG measured in the two-electrode cell

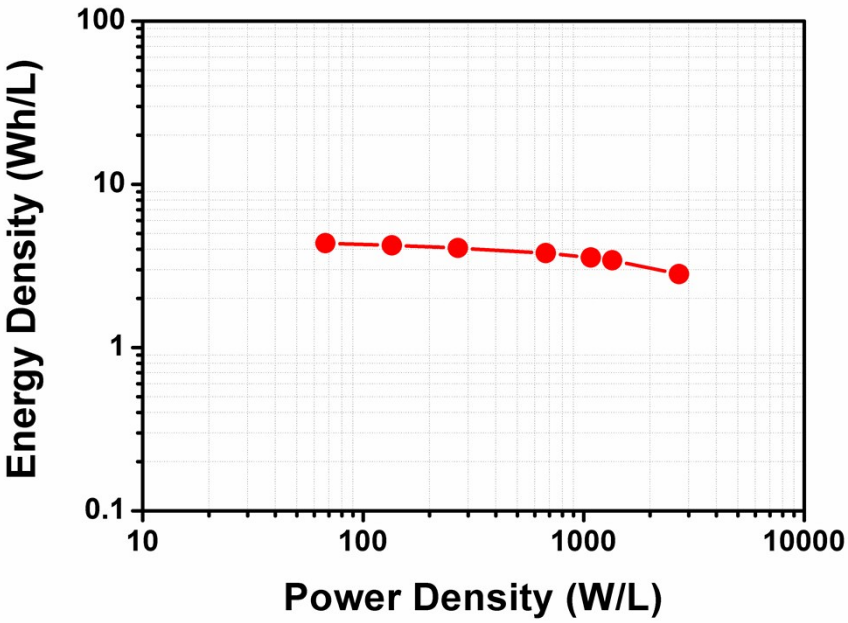

Figure S9. Ragone plot of the NSCG sample