

Supporting Information

Facile Synthesis of 2D Nitrogen-Containing Porous Carbon Nanosheets Induced by Graphene Oxide for High-Performance Supercapacitors

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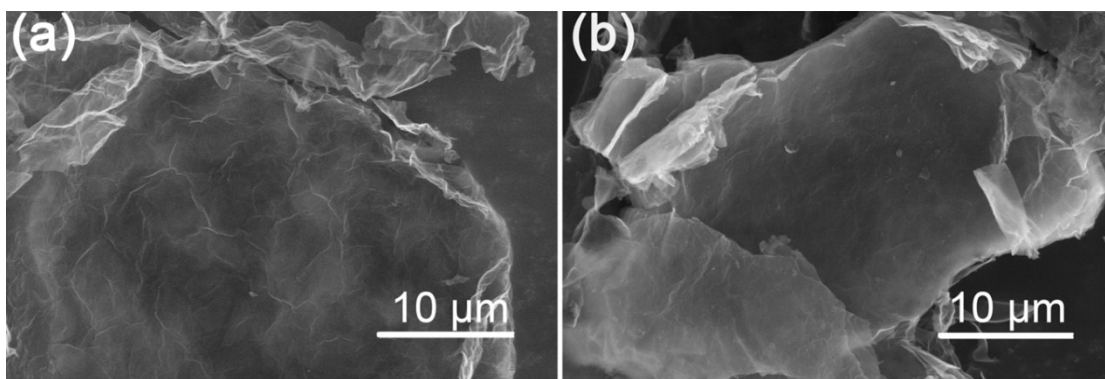


Figure S1. SEM images of (a) FG and (b) FGA.

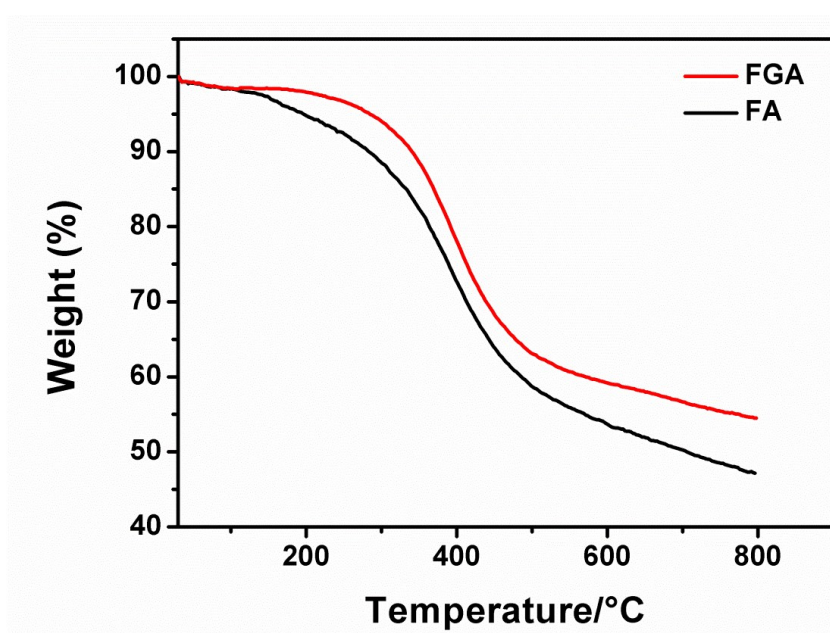


Figure S2. TGA profiles of FA and FGA.

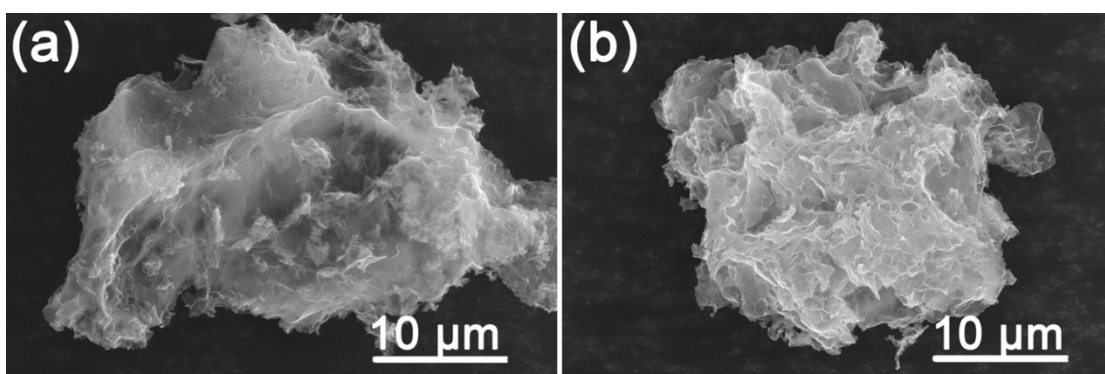


Figure S3. SEM images of (a) FG-a and (b) FGA-a.

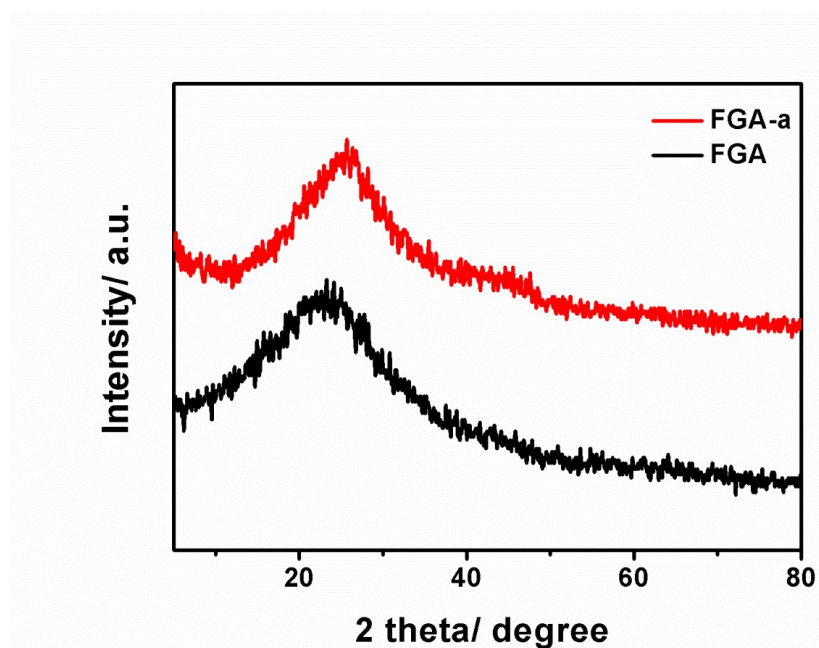


Figure S4. XRD patterns of FGA and FGA-a.

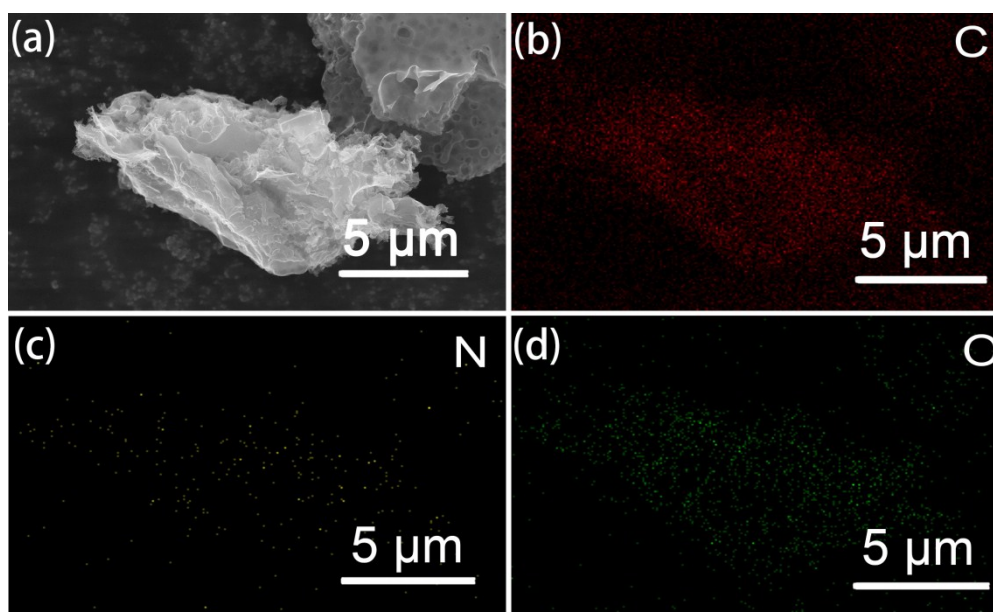


Figure S5. (a) SEM image of FGA-a and the corresponding EDS element mapping of (b) C; (c) N and (d) O.

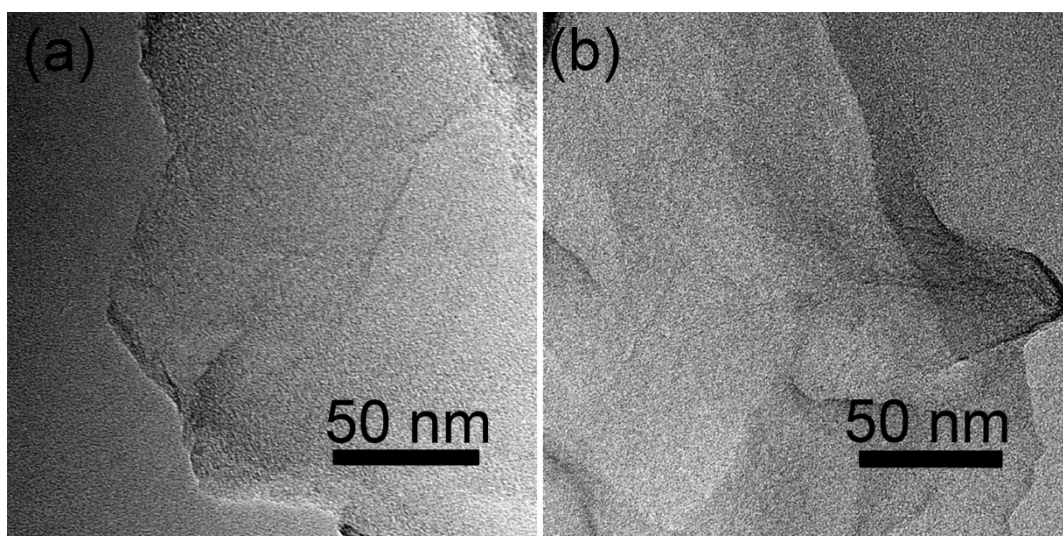


Figure S6. TEM images of (a) FG-a and (b) FGA-a.

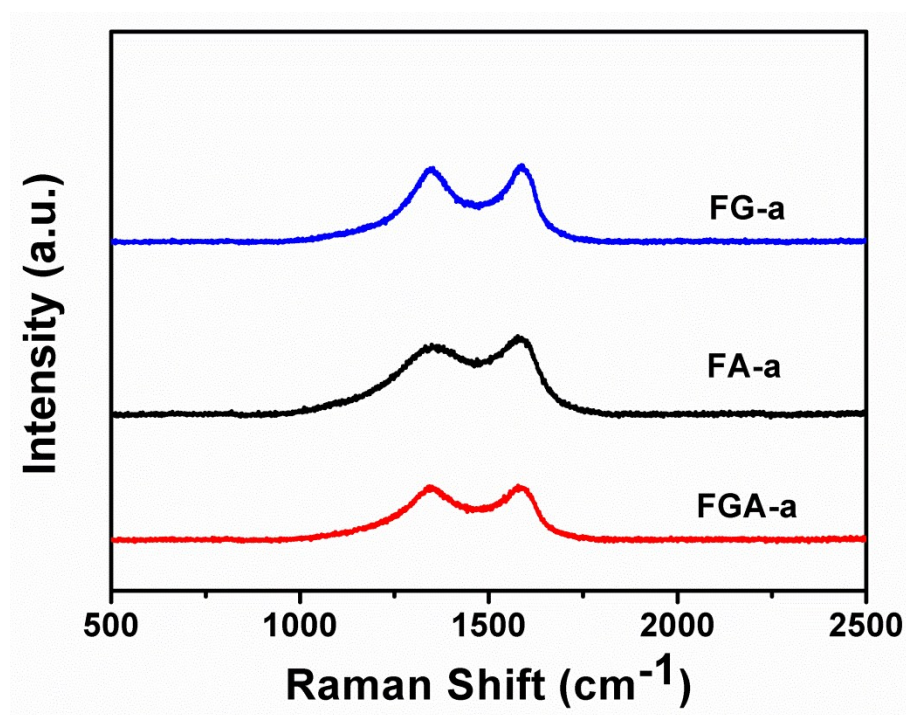


Figure S7. Raman spectra of the FG-a, FA-a, and FGA-a

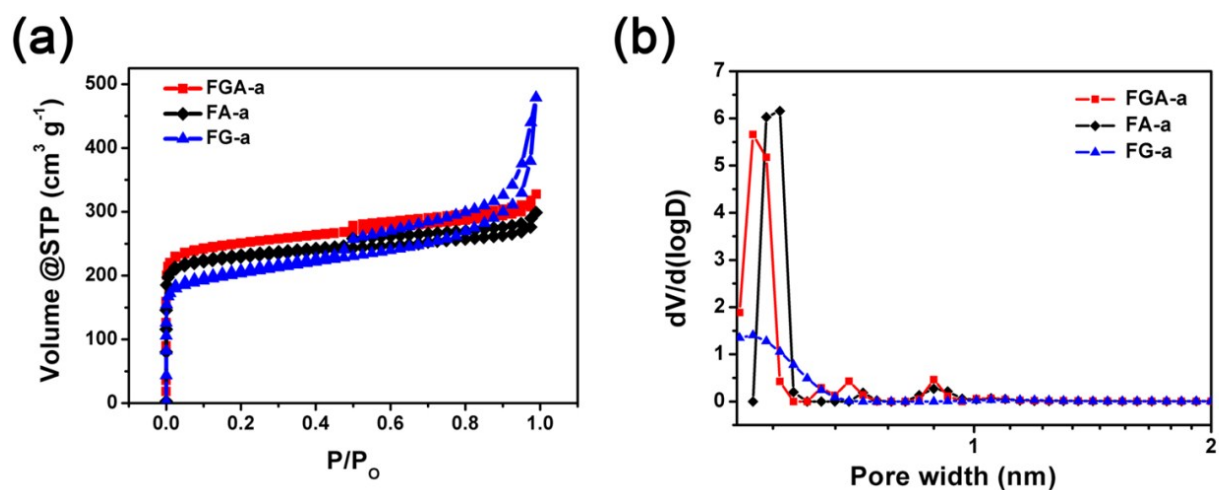


Figure S8. (a) Nitrogen adsorption-desorption isotherms and (b) pore size distributions of FG-a, FA-a and FGA-a

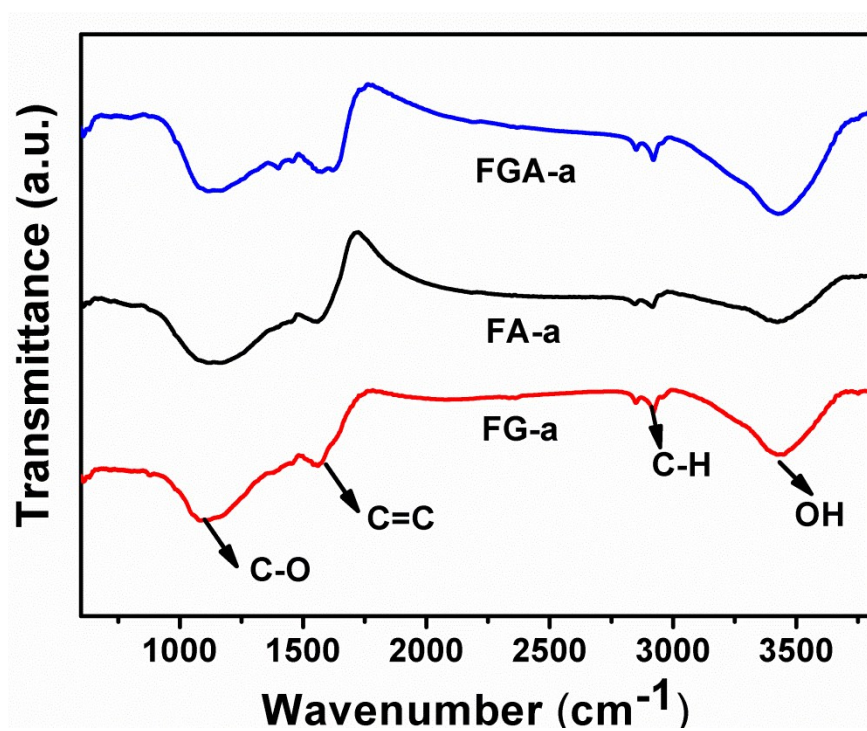


Figure S9. FTIR spectra of FG-a, FA-a and FGA-a

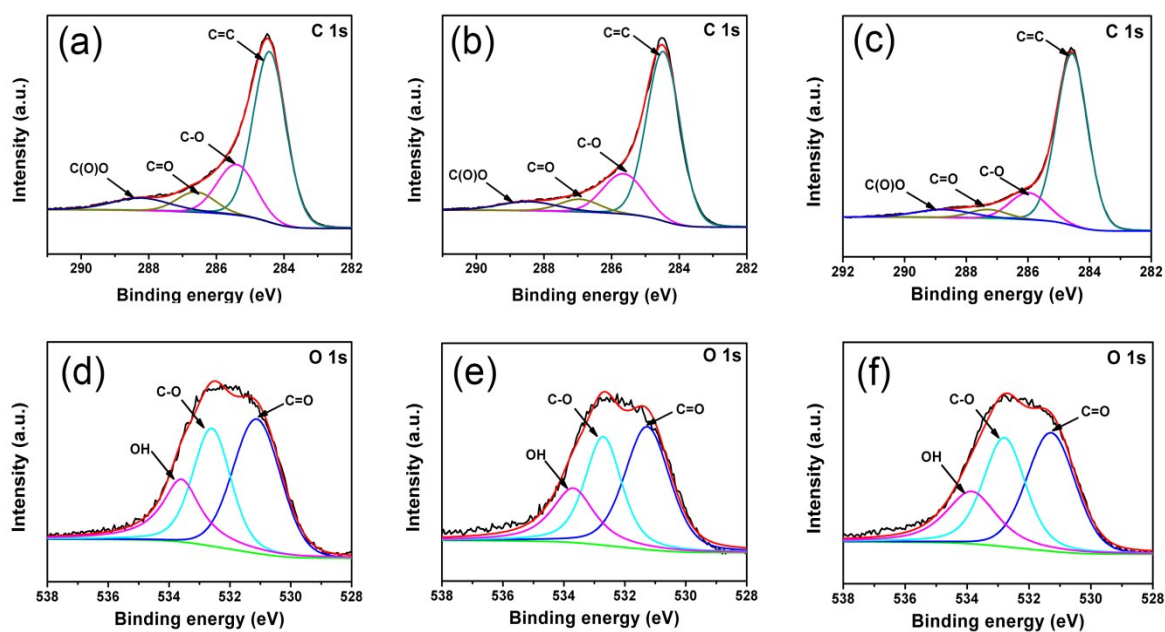


Figure S10. High-resolution C 1s spectra of the (a) FG-a, (b) FA-a, and (c) FGA-a samples. High-resolution O 1s spectra of the (d) FG-a, (e) FA-a, and (f) FGA-a samples

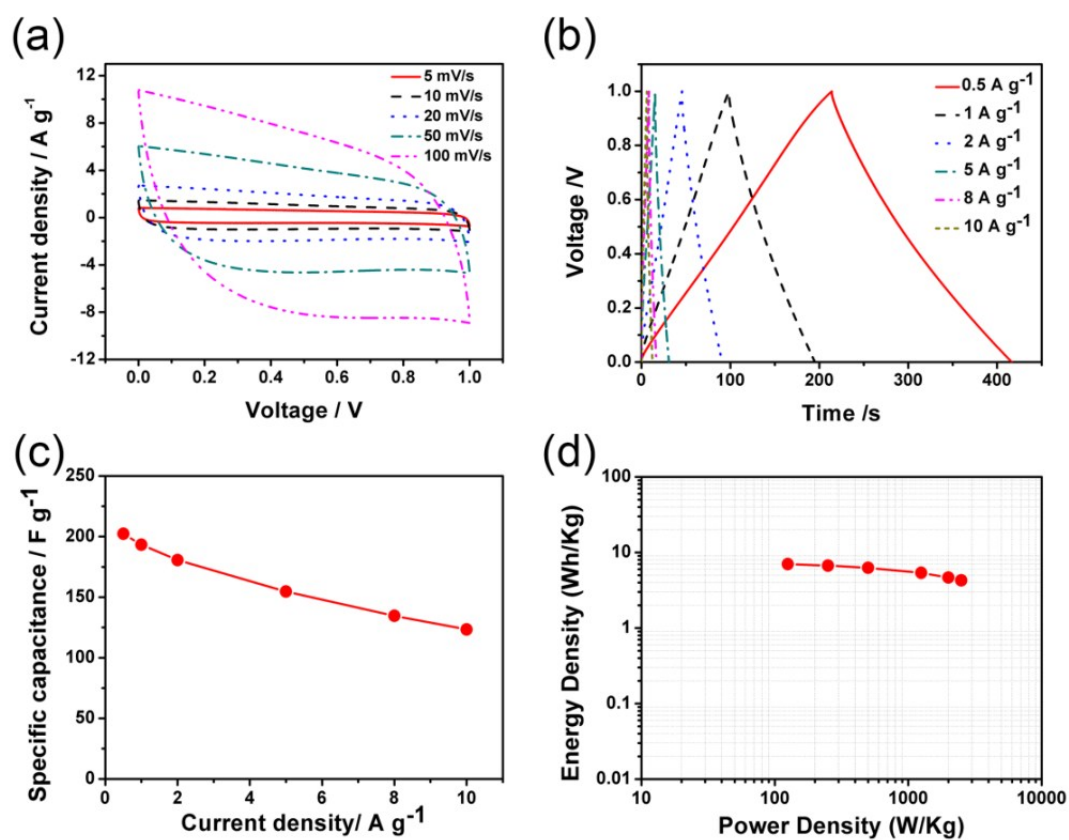


Figure S11. (a) Cyclic voltammograms of FGA-a at the scan rates from 5 mV s^{-1} to 100 mV s^{-1} in the two-electrode cell; (b) Galvanostatic charge-discharge curves and

(c) Specific capacitances of FGA-a at different current densities in the two-electrode cell; (d) Ragone plots of FGA-a measured in the two-electrode cell.

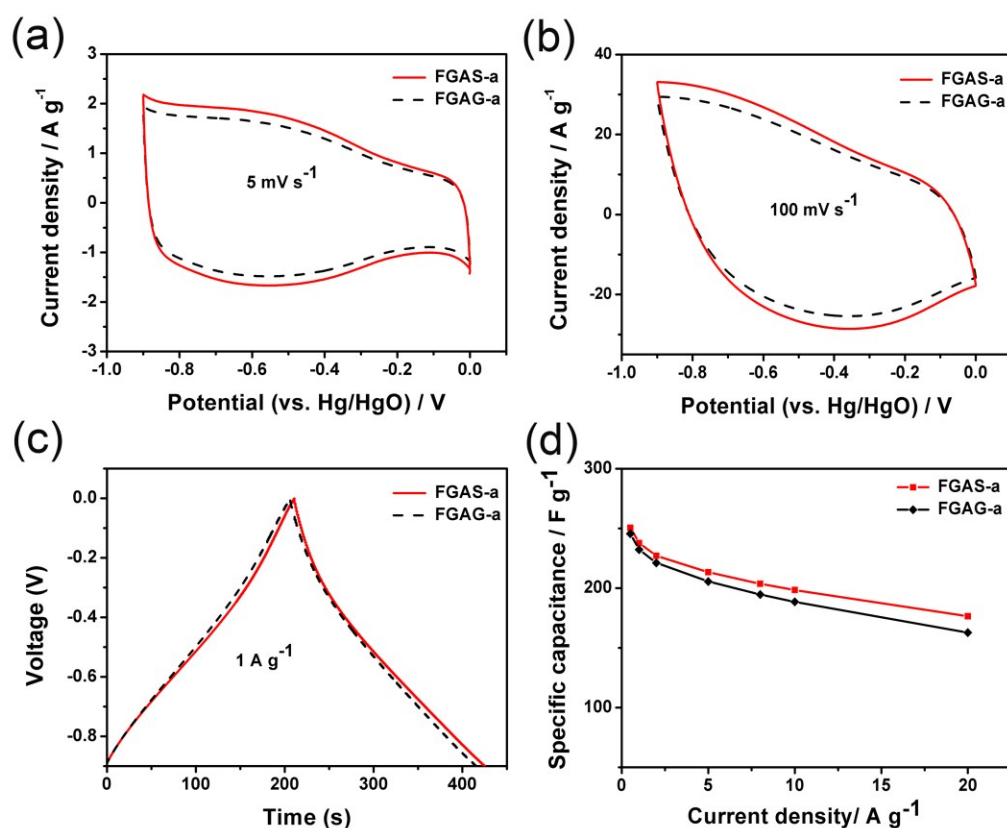


Figure S12. Cyclic voltammograms of FGAG-a and FGAS-a at the scan rates of (a) 5 mV s⁻¹ and (b) 100 mV s⁻¹; (c) Galvanostatic charge-discharge curves of FGAG-a and FGAS-a at a current density of 1 A g⁻¹; and (d) Specific capacitances of FGAG-a and FGAS-a at different current densities.