Electronic Supporting Information

Figure S1
De-convoluted XPS spectra obtained for the GSPE1 for surface carbon species (C1s – A) and surface oxygen species (O1s – B).
Figure S2

De-convoluted XPS spectra obtained for the GSPE2 for surface carbon species (C1s – A) and surface oxygen species (O1s – B).
Figure S3

ATR spectra obtained for the as-received ‘wet’ graphene inks utilised in the screen-printing process: GSPE1 (black); and GSPE2 (red).
**Figure S4**

Cyclic voltammograms depicting the capacitive behaviour of ESPE (black), BSPE (red), GSPE1 (green), and GSPE2 (blue) in 1 M Na$_2$SO$_4$ at 100 mV s$^{-1}$. 