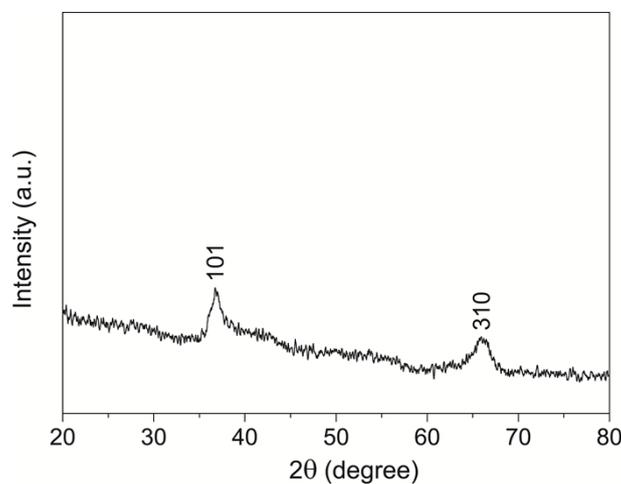


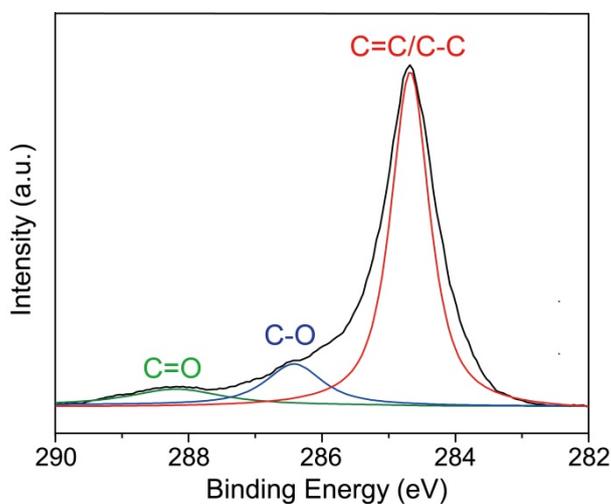
## Electronic Supporting Information

### Hierarchically structured $\text{MnO}_2$ /graphene/carbon fiber and porous graphene hydrogel wrapped copper wire for fiber-based flexible all-solid-state asymmetric supercapacitors

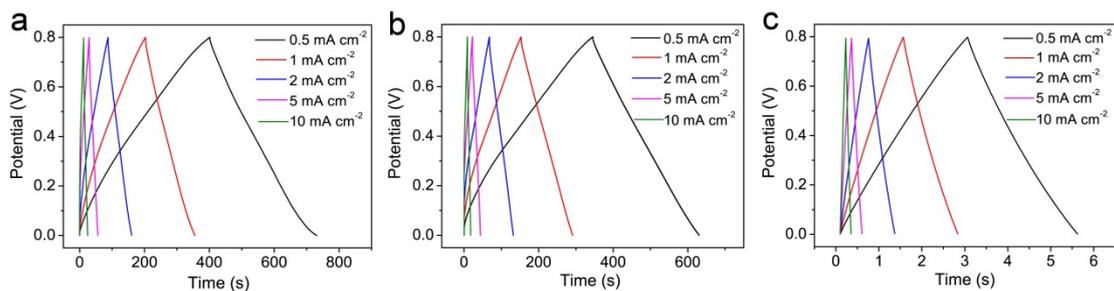
Zheye Zhang, Fei Xiao, Shuai Wang\*



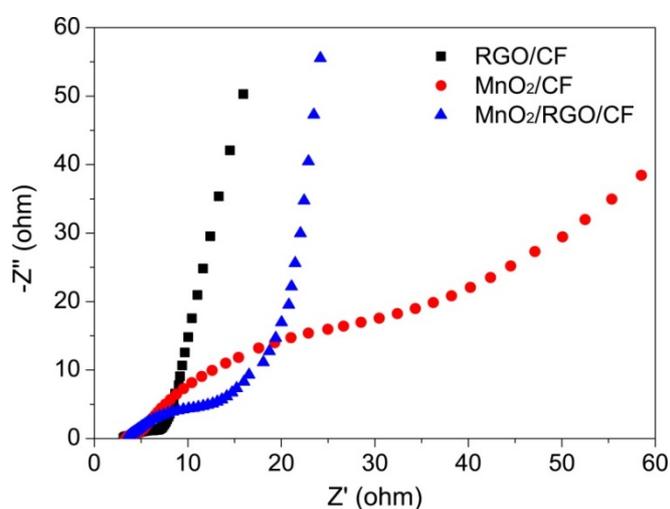
**Fig. S1** XRD pattern of prepared  $\text{MnO}_2$  nanoflakes RGO/CF.



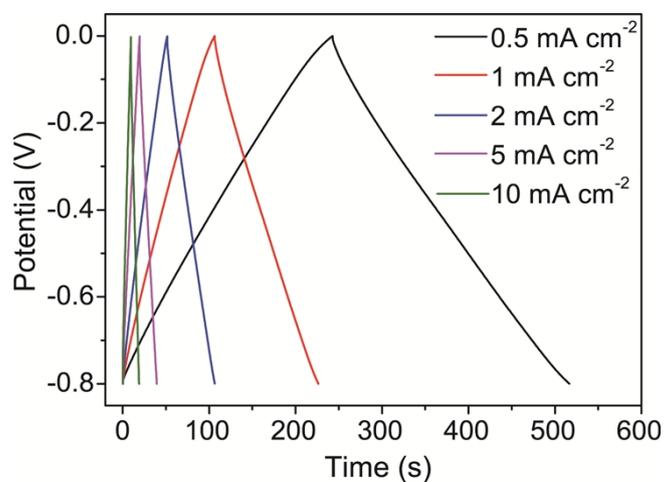
**Fig. S2** Deconvoluted C 1s spectra of  $\text{MnO}_2$ /RGO/CF.



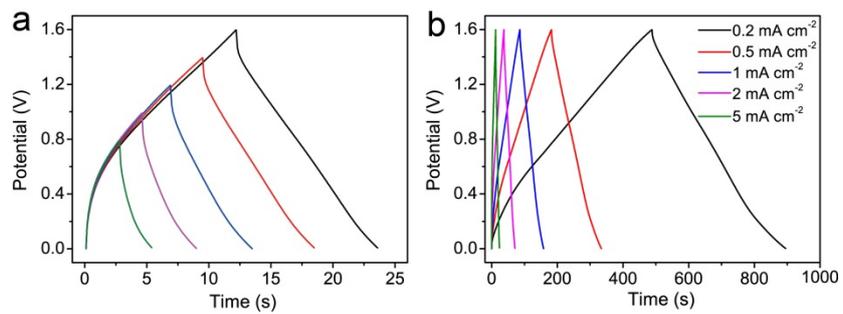
**Fig. S3** Galvanostatic charge/discharge curves of (a) MnO<sub>2</sub>/RGO/CF, (b) MnO<sub>2</sub>/CF and (c) RGO/CF electrodes at different current densities.



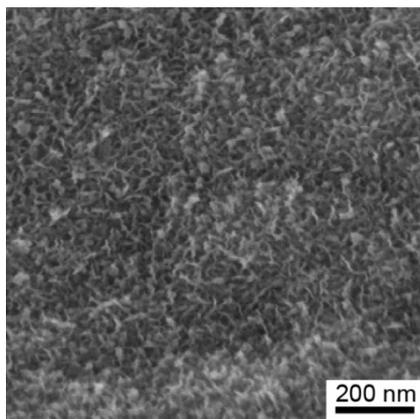
**Fig. S4** Nyquist plots of RGO/CF, MnO<sub>2</sub>/CF and MnO<sub>2</sub>/RGO/CF electrodes.



**Fig. S5** Galvanostatic charge/discharge curves of GH/CW (6 h) electrode at different current densities.



**Fig. S6** Galvanostatic charge/discharge curves of MnO<sub>2</sub>/RGO/CF//GH/CW device (a) in different operation voltages at a current density of 5 mA cm<sup>-2</sup> and (b) at different current densities.



**Fig. S7** SEM image of MnO<sub>2</sub> on RGO/CF after 10,000 charge/discharge cycles.