

Electronic Supplementary Information

**MnO<sub>2</sub> nanoflakes grown on 3D graphite network for enhanced electrocapacitive performance**

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Fig. S1 SEM image of 3D Ni foam.
Fig. S2. EDX spectrum of MnO$_2$-3DG-23% recorded in the selected area of Fig. 4d.

Fig. S3. The dependence of discharged current density at potential of 0.5 V (vs Ag/AgCl) on the scan rate for 3DG-MnO$_2$-13% electrode.
**Fig. S4** The last 10 cycles of galvanostatic charge-discharge curves of 3DG-MnO$_2$-23% electrode at constant current density of 4.0 A/g in 1.0 mol/L Na$_2$SO$_4$ aqueous electrolyte.

**Fig. S5** CV and galvanostatic charge-discharge profile of two-electrode capacitor constructed with 3DG-MnO$_2$-13% as the symmetric electrode.