

**Supporting information for**

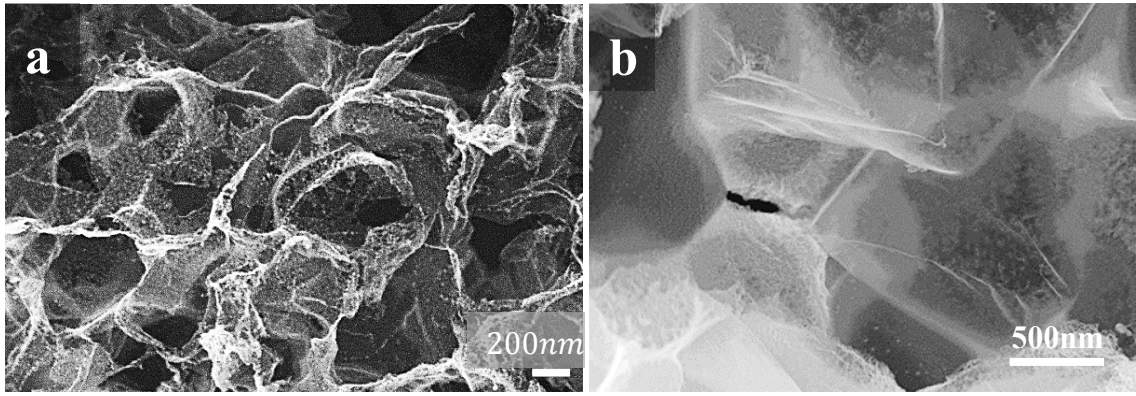
**Uniformly Dispersed Self-Assembled Growth of Sb<sub>2</sub>O<sub>3</sub>/Sb@Graphene  
Nanocomposites on 3D Carbon Sheet Network for High Na-Storage and  
Excellent Stability**

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**Figure S1.** (a),(b) High resolution SEM micrograph of carbon sheet networks anchored with  $\text{Sb}_2\text{O}_3$  ( $\text{Sb}_2\text{O}_3$ -CSNs) at different positions.

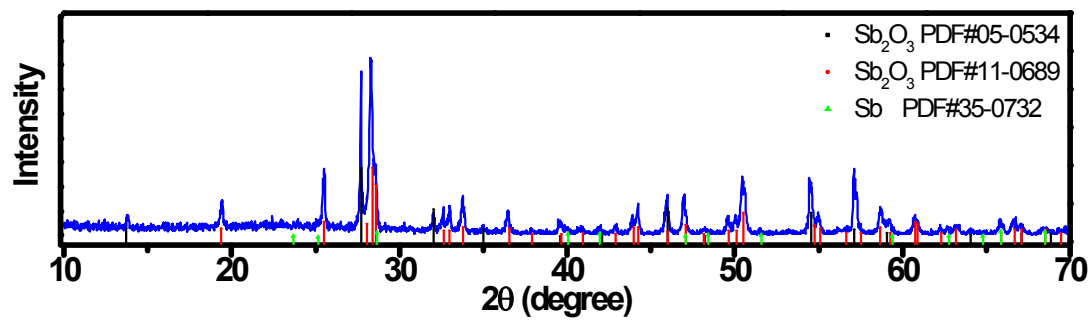
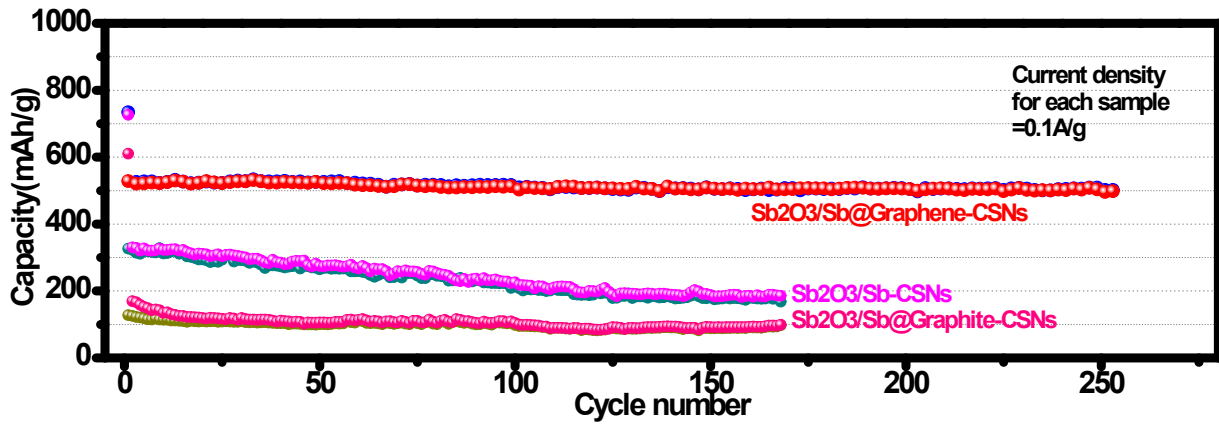
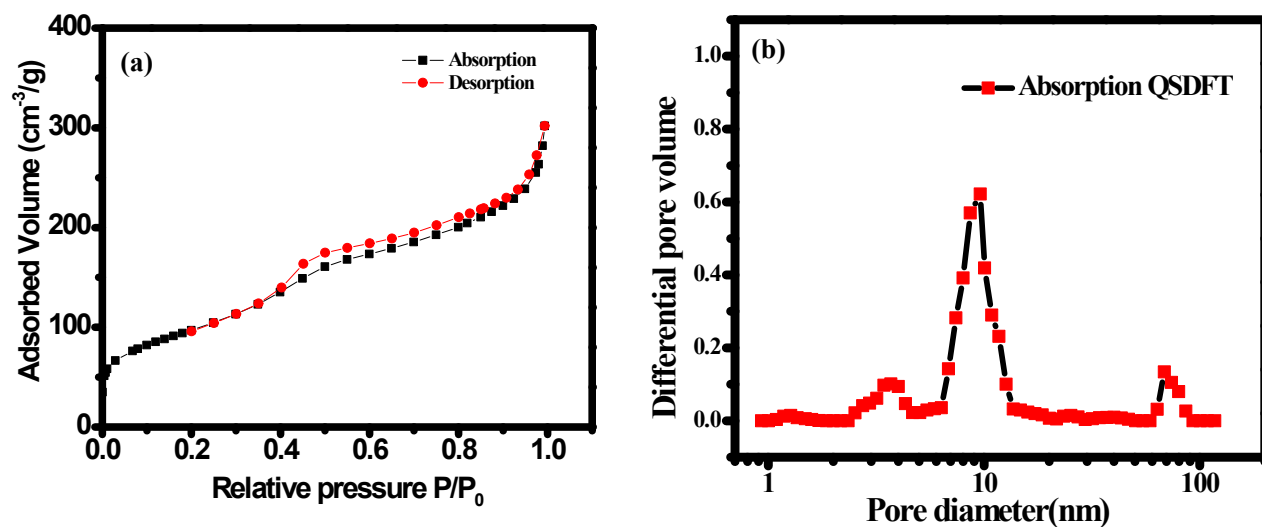


Figure S2. XRD spectrum of Sb<sub>2</sub>O<sub>3</sub>/Sb-CSNs.

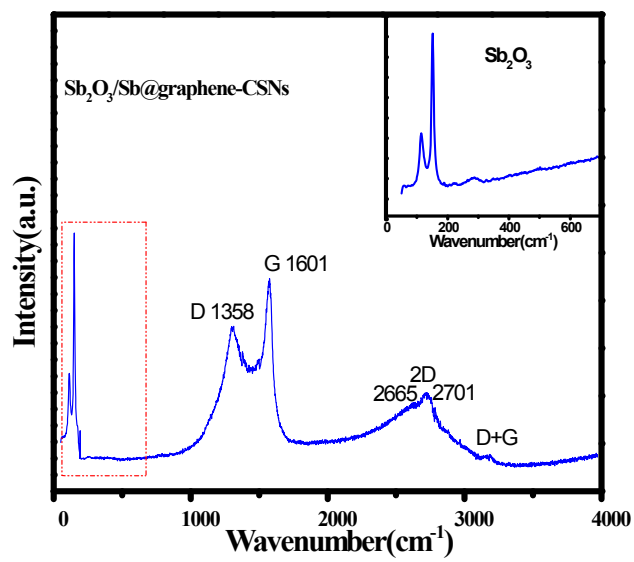


**Figure S3.** Cycling performances of Sb<sub>2</sub>O<sub>3</sub>/Sb@graphene-CSNs, Sb<sub>2</sub>O<sub>3</sub>/Sb@graphene-CSNs and Sb<sub>2</sub>O<sub>3</sub>/Sb@graphite-CSNs at 0.1A/g in the potential range of 0.001-2V.



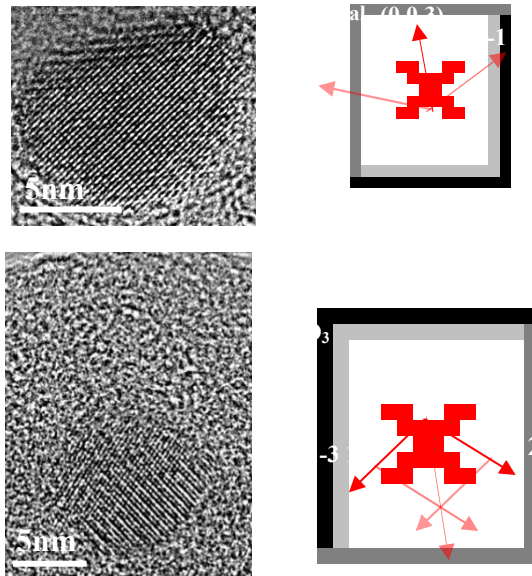
**Figure S4.** (a)  $\text{N}_2$  adsorption/desorption isotherms of  $\text{Sb}_2\text{O}_3/\text{Sb}@$ graphene-CSNs. (b) Corresponding pore-size distributions determined in accordance with the original density functional theory.

Figure S5. Raman spectrum of the  $\text{Sb}_2\text{O}_3/\text{Sb@graphene-CSNs}$  composite.

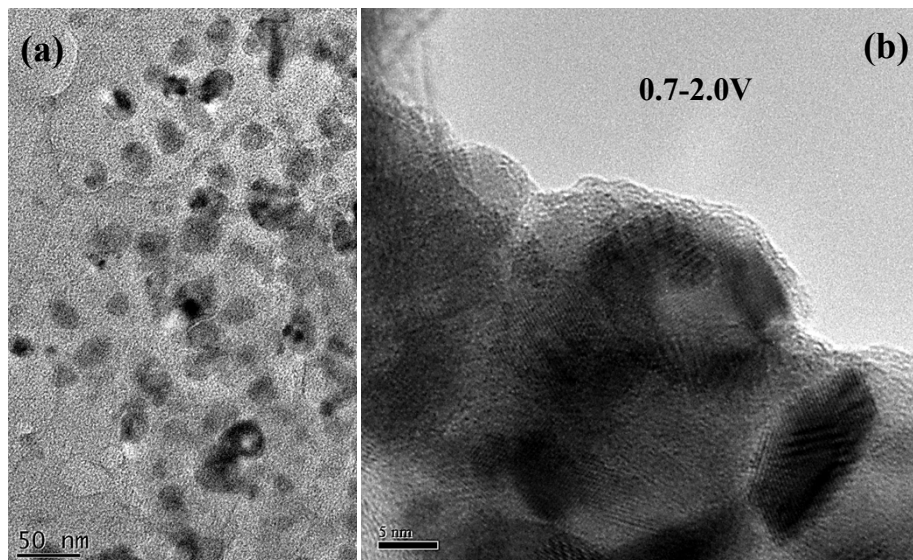


**Figure S6**

High resolution TEM micrographs and their corresponding Fourier transform of Sb, Sb<sub>2</sub>O<sub>3</sub> nanoparticles in Sb<sub>2</sub>O<sub>3</sub>/Sb-CSNs.



**Figure S7.** (a) Low resolution and (b) high resolution TEM micrographs of  $\text{Sb}_2\text{O}_3/\text{Sb}@$ graphene-CSNs after cycling (0.7-2.0V, 30mA/g, 10 cycles). These samples were acquired at fully charged state.



**Figure S8.** (a)TEM micrograph of the composite after discharging to 0.001 V and its corresponding SAED pattern (b). Major diffraction circles are labeled with their respective hkl notation.

