Electronic supplementary information of

Incorporation of PEDOT:PSS into SnO$_2$/Reduced Graphene Oxide Nanocomposite Anodes for Lithium-Ion Battery to achieve Ultra-High Capacity and Cyclic Stability

Md. Selim Arif Sher Shah,†a Shoaib Muhammad,‡b Jong Hyeok Park,ac Won-Sub Yoon*ab and Pil J. Yoo*ac

† School of Chemical Engineering, ‡ Department of Energy Science, Sungkyunkwan Advanced Institute of Nanotechnology, Sungkyunkwan University, Suwon 440-746, Republic of Korea.

Fig. S1 Survey XPS spectrum of GSP5. It shows the composite consists of Sn, C, O and S.
Fig. S2  Thermo gravimetric analysis (TGA) of GSP5. It shows that the ternary nanocomposite contains 74.6 wt% SnO$_2$.

Fig. S3  Galvanostatic cycle performance of GS and SP5.
Fig. S4 Galvanostatic cycle performance and coulombic efficiency of GSP10.