

Figure S1 XRD pattern of  $V_2O_5$ -CNT

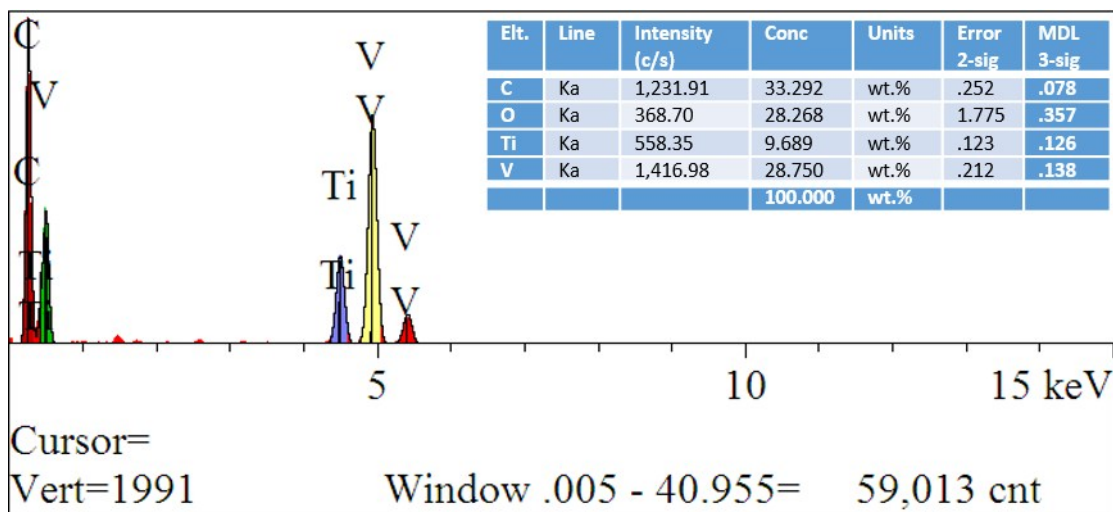


Figure S2 EDS of  $TiO_2$ - $V_2O_5$ -CNT

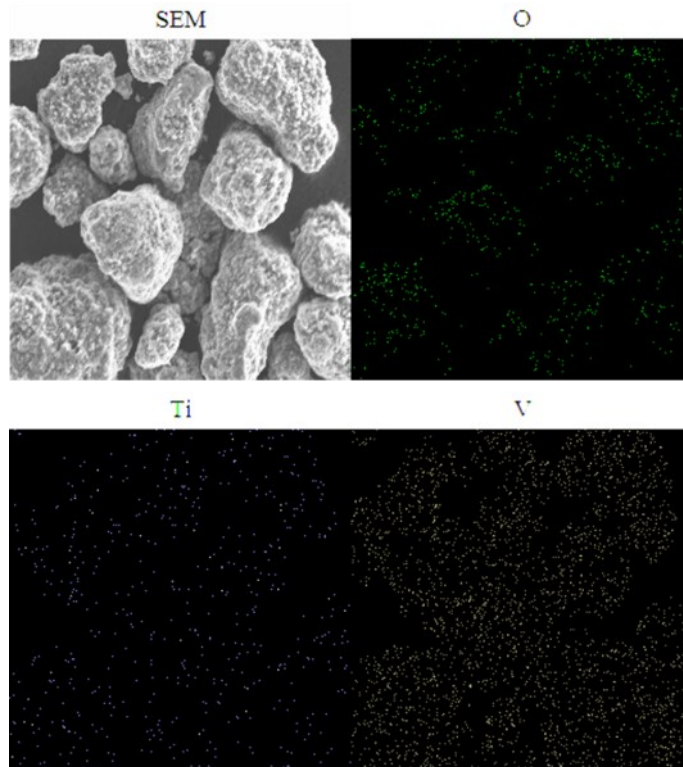
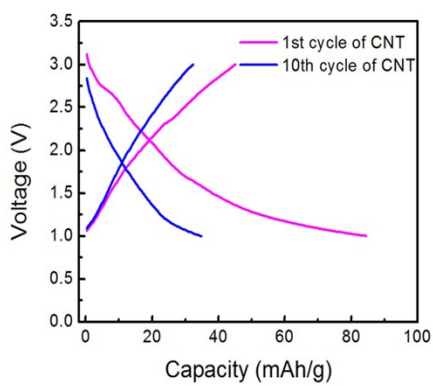
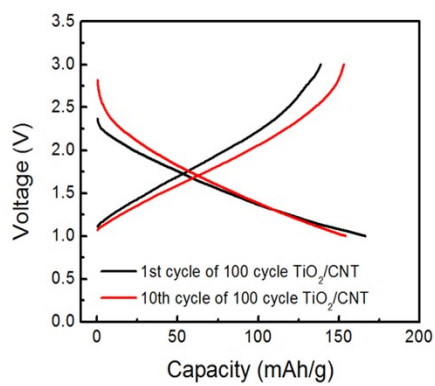


Figure S3 Elemental mapping of  $\text{TiO}_2\text{-V}_2\text{O}_5\text{-CNT}$



Voltage profile of CNT



Voltage profile of 100 cycle  $\text{TiO}_2/\text{CNT}$

Figure S4 Voltage profile of CNT and  $\text{TiO}_2/\text{CNT}$