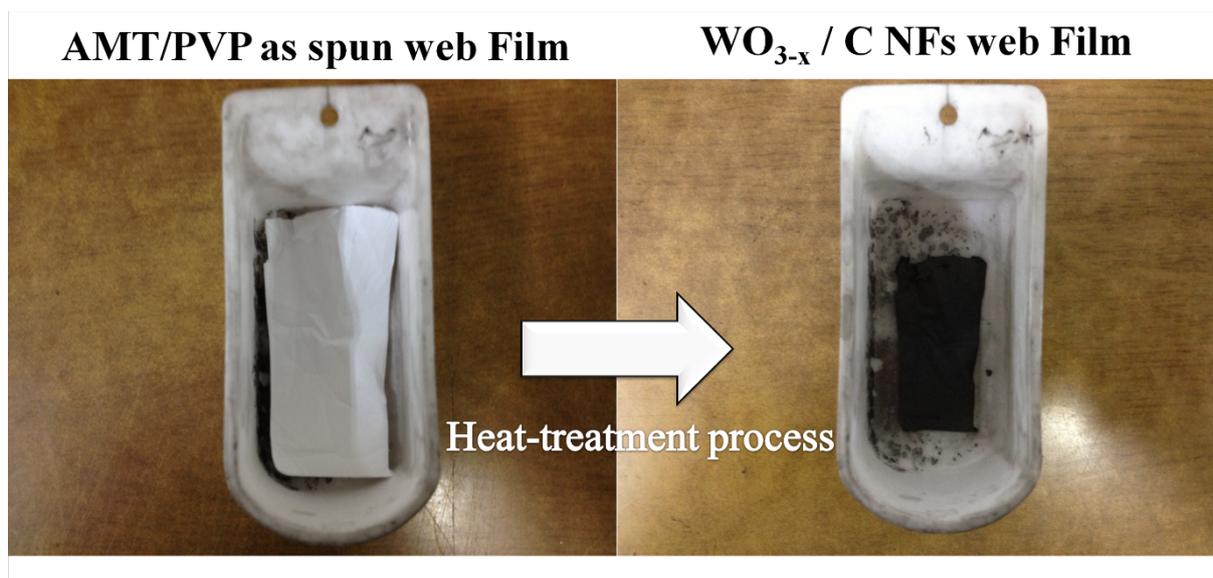


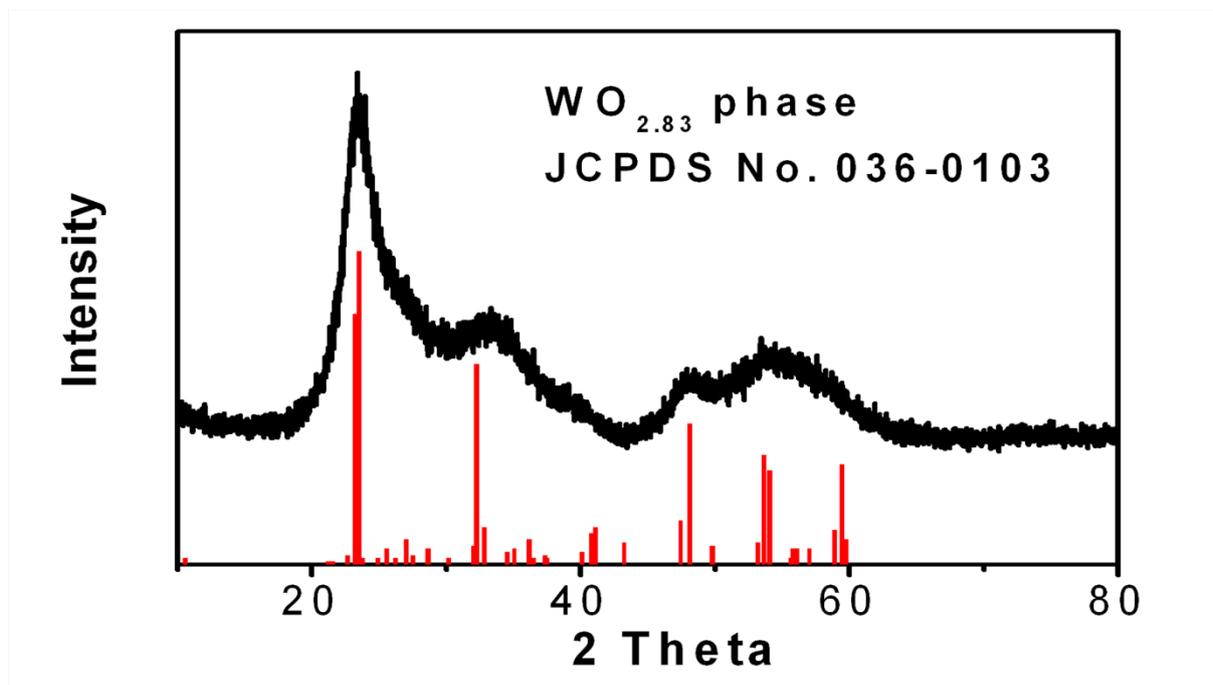
## Supporting Information

### **Simple Fabrication of Flexible Electrode with High Metal-Oxide Content: Electrospun Reduced Tungsten Oxide/Carbon Nanofibers for Lithium Ion Battery Applications**

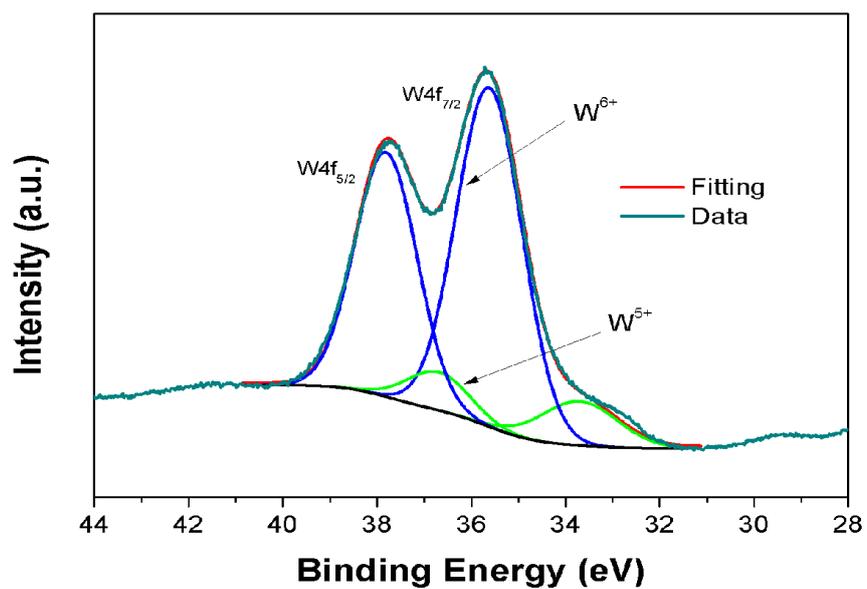
*Jaehyuk Lee, Changshin Jo, Bangrock Park, Woonbong Hwang, Hyung Ik Lee, Songhun  
Yoon, Jinwoo Lee\**



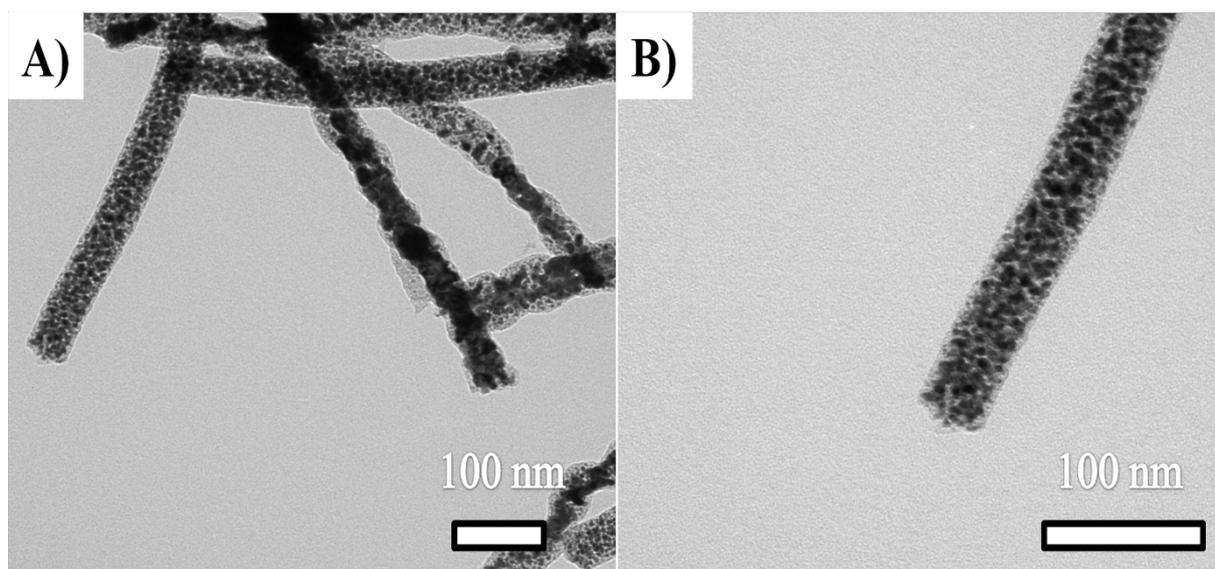
**Figure S1.** Digital photograph of as-spun fiber web (before heat treatment) and WO<sub>x</sub>-C-NF web (after heat treatment)



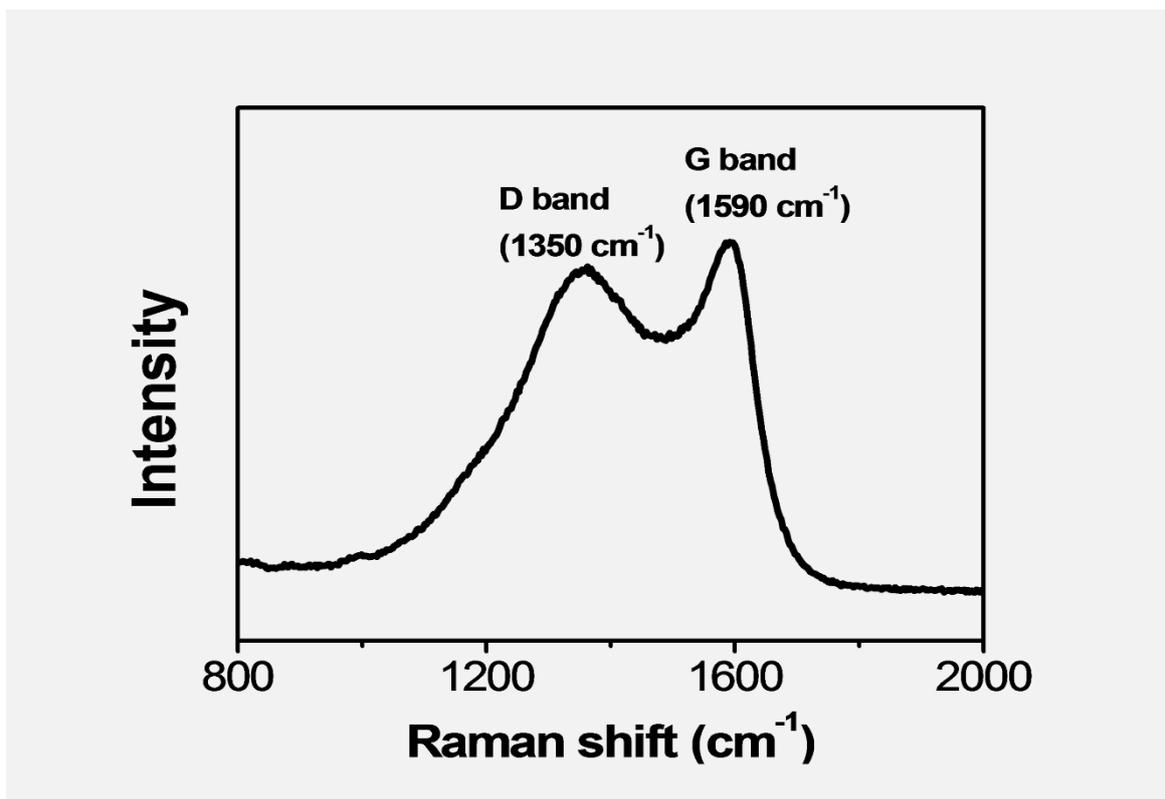
**Figure S2.** XRD pattern of  $\text{WO}_x\text{-C NF}$  ( $\text{WO}_{2.83}$  phase, JCDs NO. 036-0103)



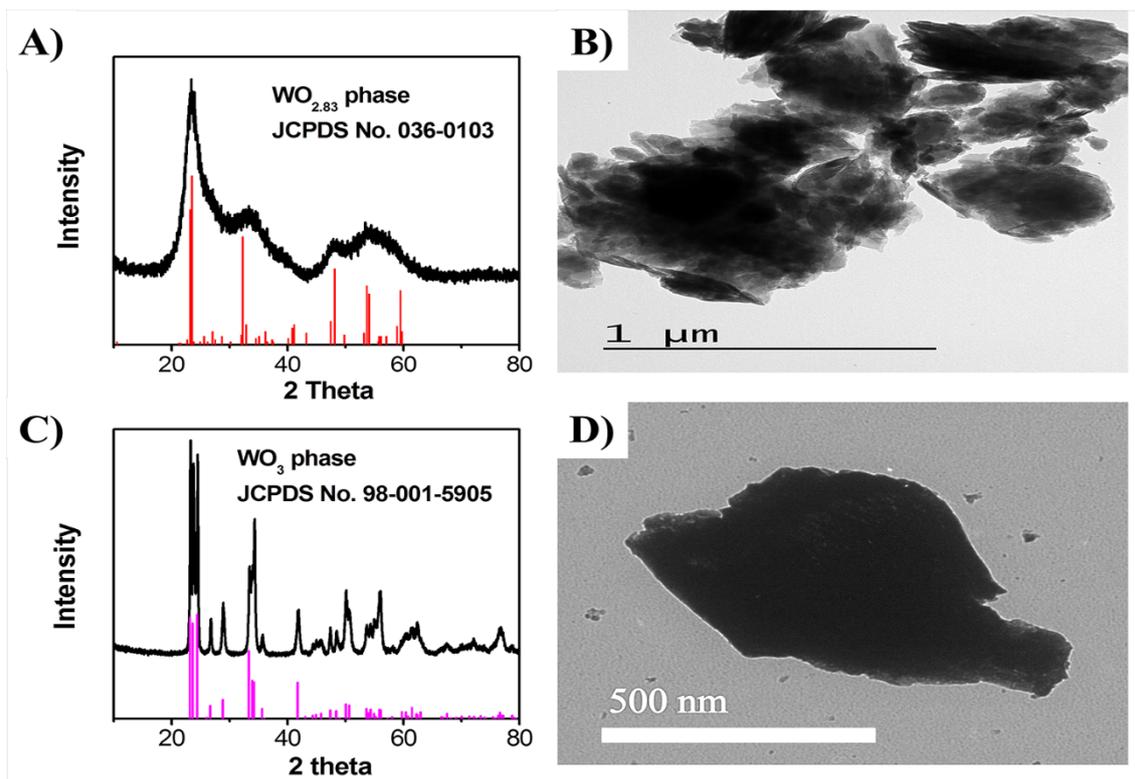
**Figure S3.** X-ray photoelectron spectroscopy of  $\text{WO}_x\text{-C-NF}$  for W 4f. The relative area of  $\text{W}^{5+}$  takes up 13 % of the total area.



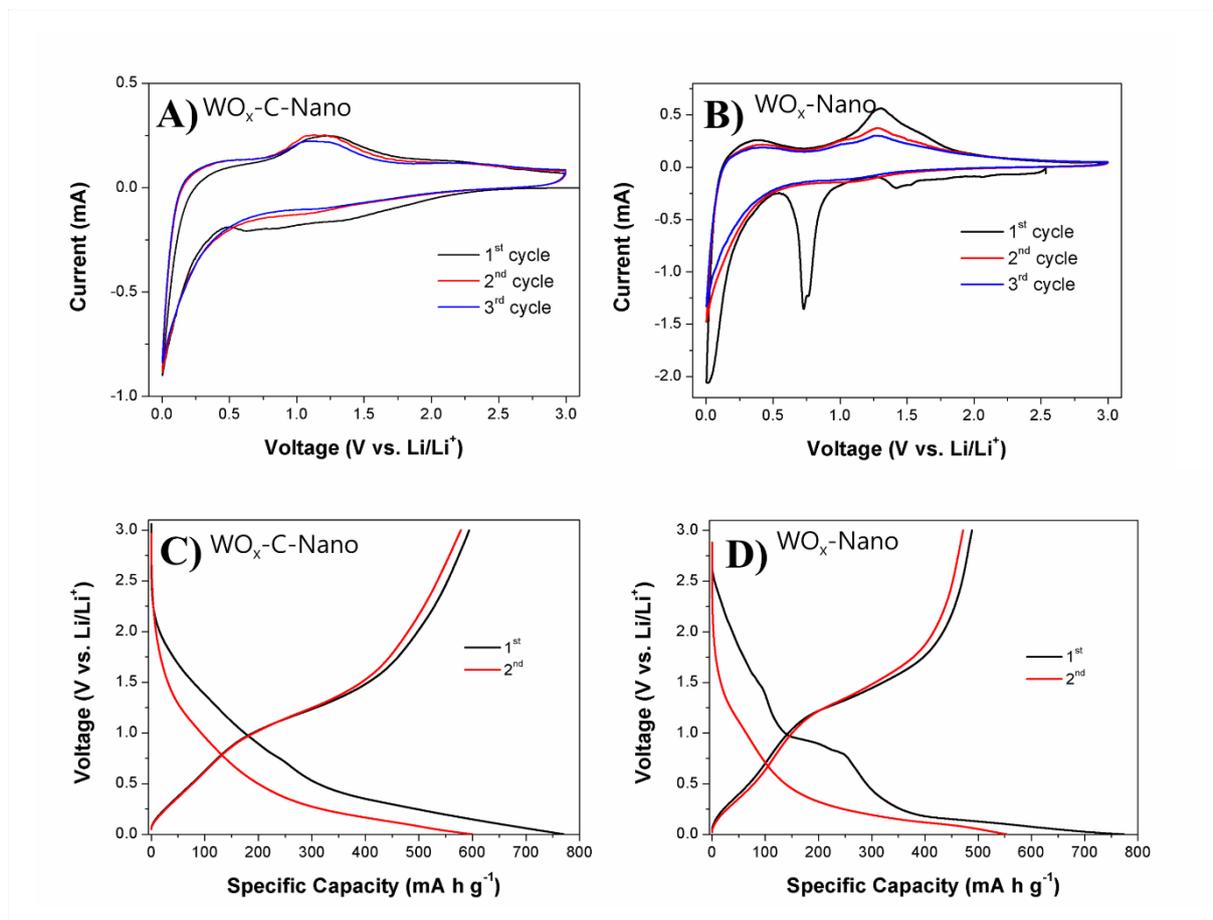
**Figure S4.** TEM images of  $\text{WO}_x\text{-C-NF}$  after heat-treated at 900 °C in nitrogen atmosphere.



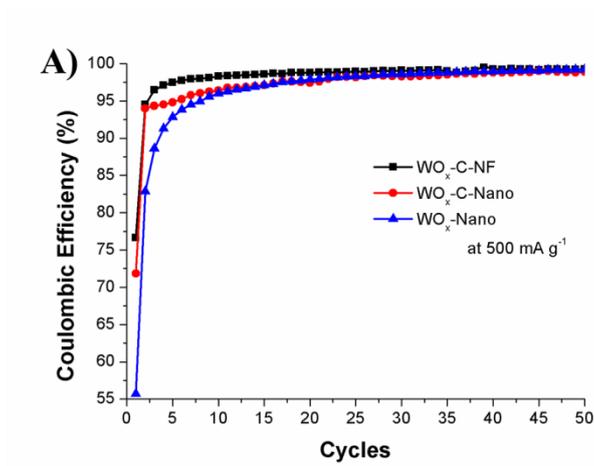
**Figure S5.** Raman spectrum of WO<sub>x</sub>-C-NFs



**Figure S6.** A) XRD pattern and B) TEM image of  $\text{WO}_x\text{-C-Nano}$ . C) XRD pattern and D) TEM image of  $\text{WO}_x\text{-Nano}$



**Figure S7.** (A), (B) Cyclic voltammety curves and (C), (D) galvanostatic charge/discharge curves of WO<sub>x</sub>-C-Nano and WO<sub>x</sub>-Nano electrodes. The voltage window has a range of 3.0 to 0.01 V range.



**Figure S8.** Coulombic efficiency versus cycle number plots for (A) WO<sub>x</sub>-C-NF, WO<sub>x</sub>-C-Nano, and WO<sub>x</sub>-Nano electrodes at 500 mA g<sup>-1</sup>.

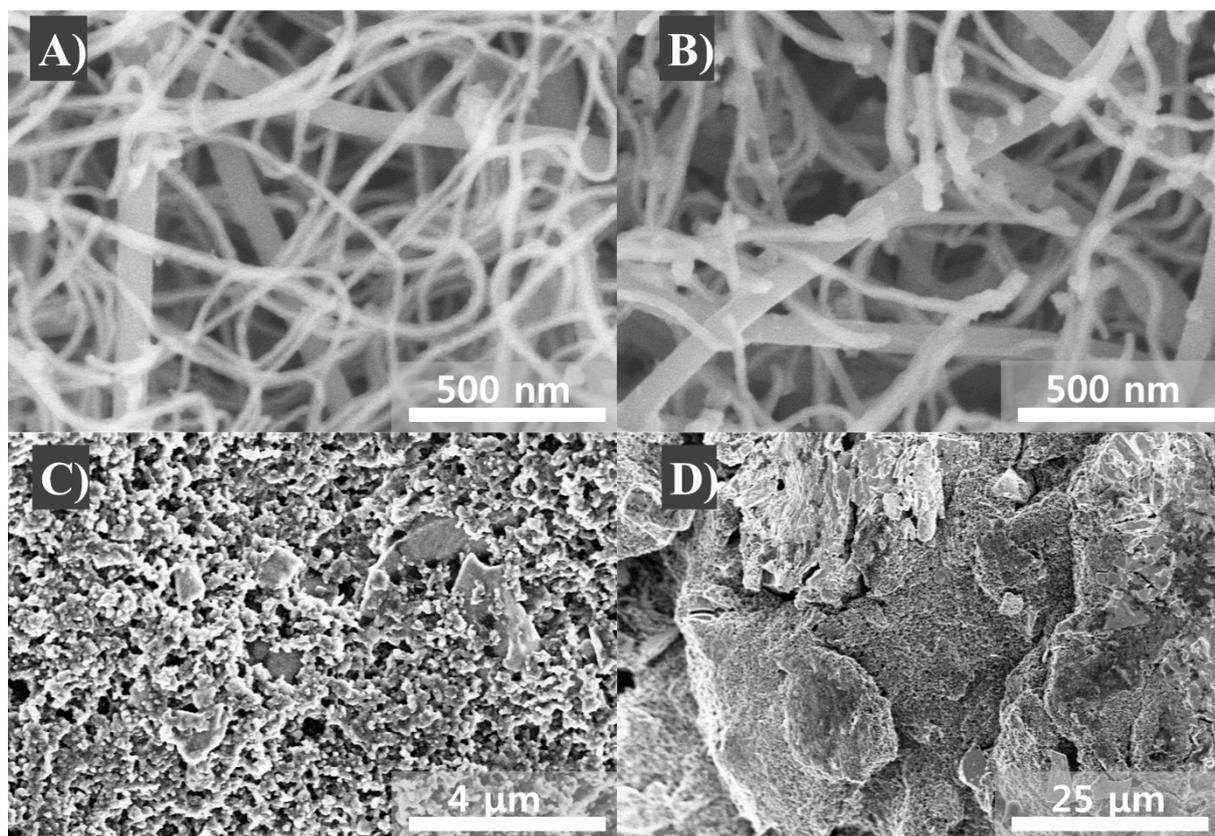


Figure S9. SEM images of (A, B) WO<sub>x</sub>-C-NF and (C, D) WO<sub>x</sub>-C-Nano after 50 charge-discharge cycles at constant current density of 50 mA g<sup>-1</sup>.