

Supporting Information for:

Hierarchical Assembly of ZnO Nanowire Trunks Decorated with ZnO Nanosheets for Lithium Ion Battery Anodes

*Dongheun Kim^{1,‡}, Sun Hae Ra Shin^{1,‡}, **Yeonhoo** Kim¹, Kenneth Crossley¹, Yerim Kim¹, Hyungkyu*

Han^{1,#,}, and Jinkyong Yoo^{1,*}*

Center for Integrated Nanotechnologies, Los Alamos National Laboratory, Los Alamos, NM,
87545

‡These authors contributed equally to this work

#Present address: Pacific Northwest National Laboratory, Richland, WA99352, USA

Table of Contents:

1. ZnO nanodisks on ZnO NW trunk
2. ZnO NSs without ZnO NW trunk
3. Voltage profiles for second cycle
4. Voltage profiles of ZnO NWs-NSs at different cycles
5. XRD data of ZnO NWs-NWs and ZnO NWs-NSs

1. ZnO nanodisks on ZnO NW trunk

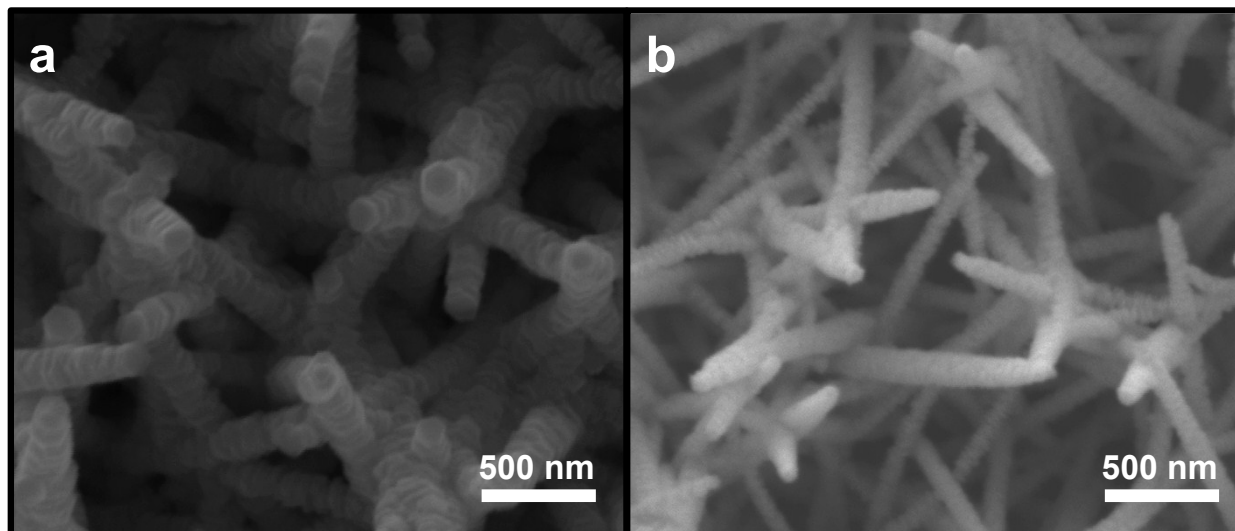


Figure S1. SEM images of ZnO nanodisks on ZnO NW trunk prepared at (a) 0.05 mM and (b) 0.1 mM sodium citrate.

2. ZnO NSs without ZnO NW trunk

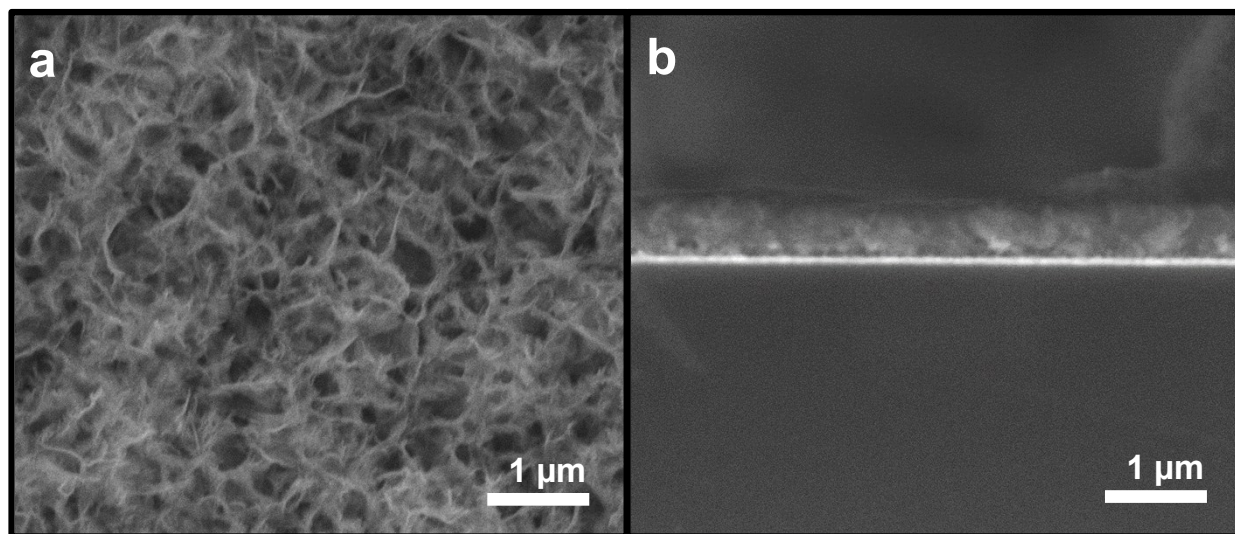


Figure S2. (a) Top and (b) cross-sectional SEM images of ZnO NSs prepared without ZnO NW trunk.

3. Voltage profiles for second cycle

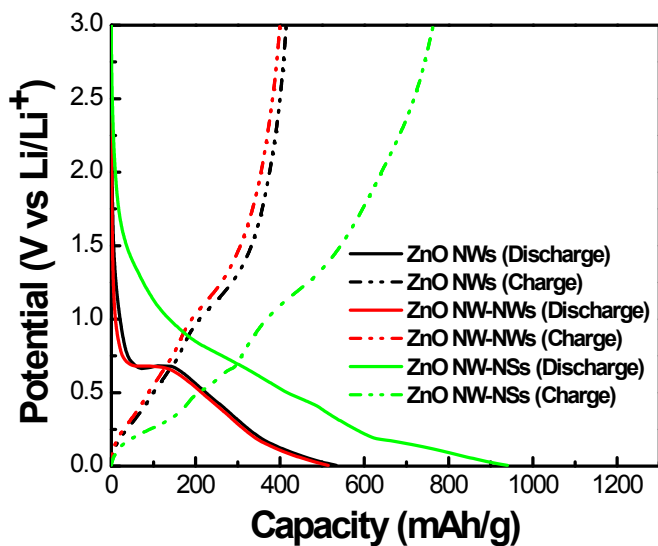


Figure S3. Voltage profiles of ZnO NW (black), ZnO NWs-NWs (red), and ZnO NWs-NSs (green) for the second cycle at a rate of 0.05 C.

4. Voltage profiles of ZnO NWs-NSs at different cycles

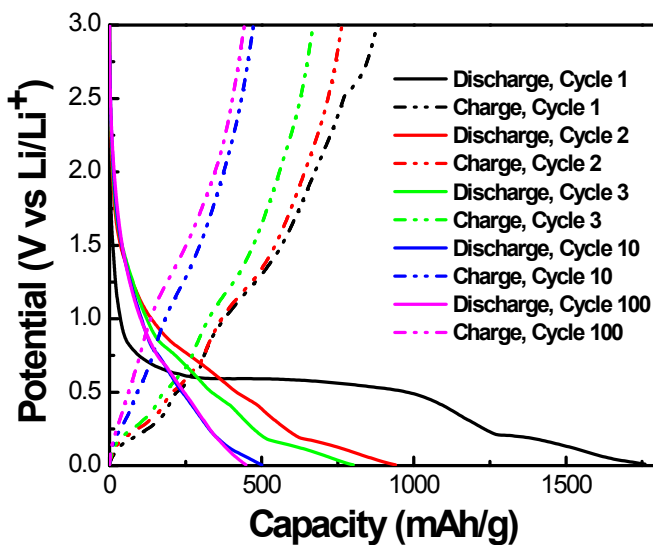


Figure S4. Voltage profiles of ZnO NWs-NSs at different cycles (0.05 C).

5. XRD data of ZnO NWs-NWs and ZnO NWs-NSs

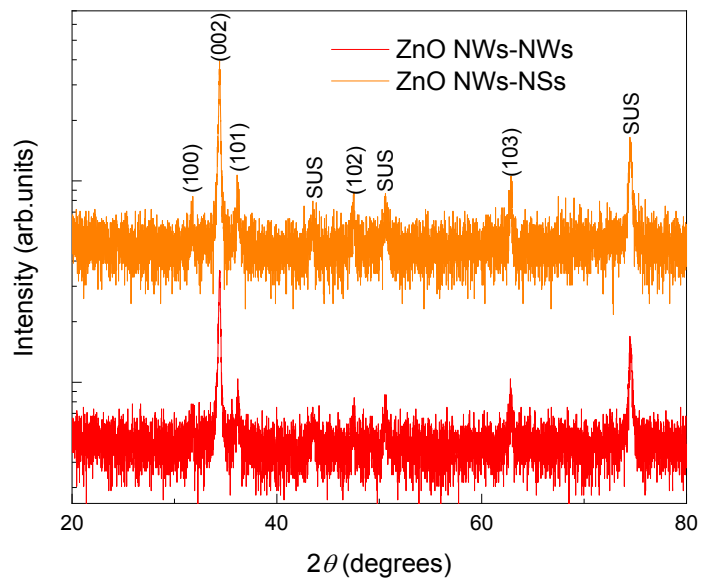


Figure S5. XRD of ZnO NWs-NWs and ZnO NWs-NSs.