

Supporting information

Carbon Nanotube@Layered Nickel Silicate Coaxial Nanocables as Excellent Anode Materials for Lithium and Sodium Storage

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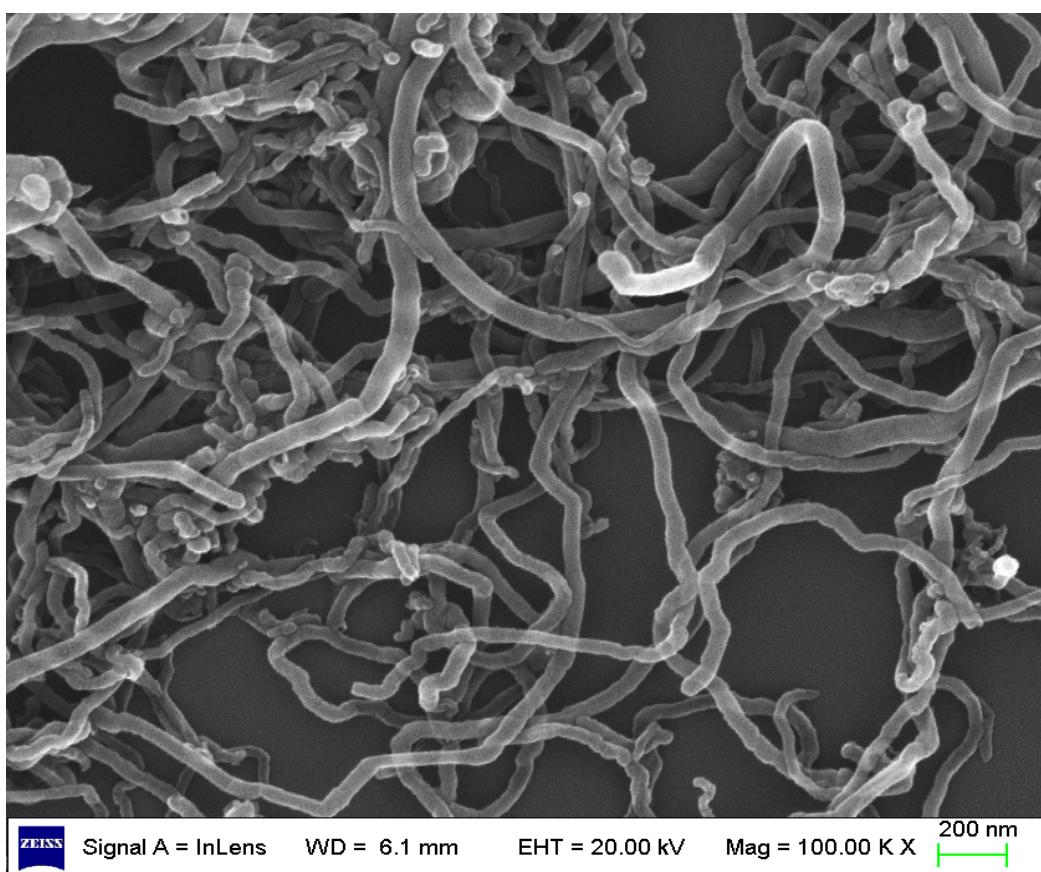


Figure S1. SEM image of CNTs.

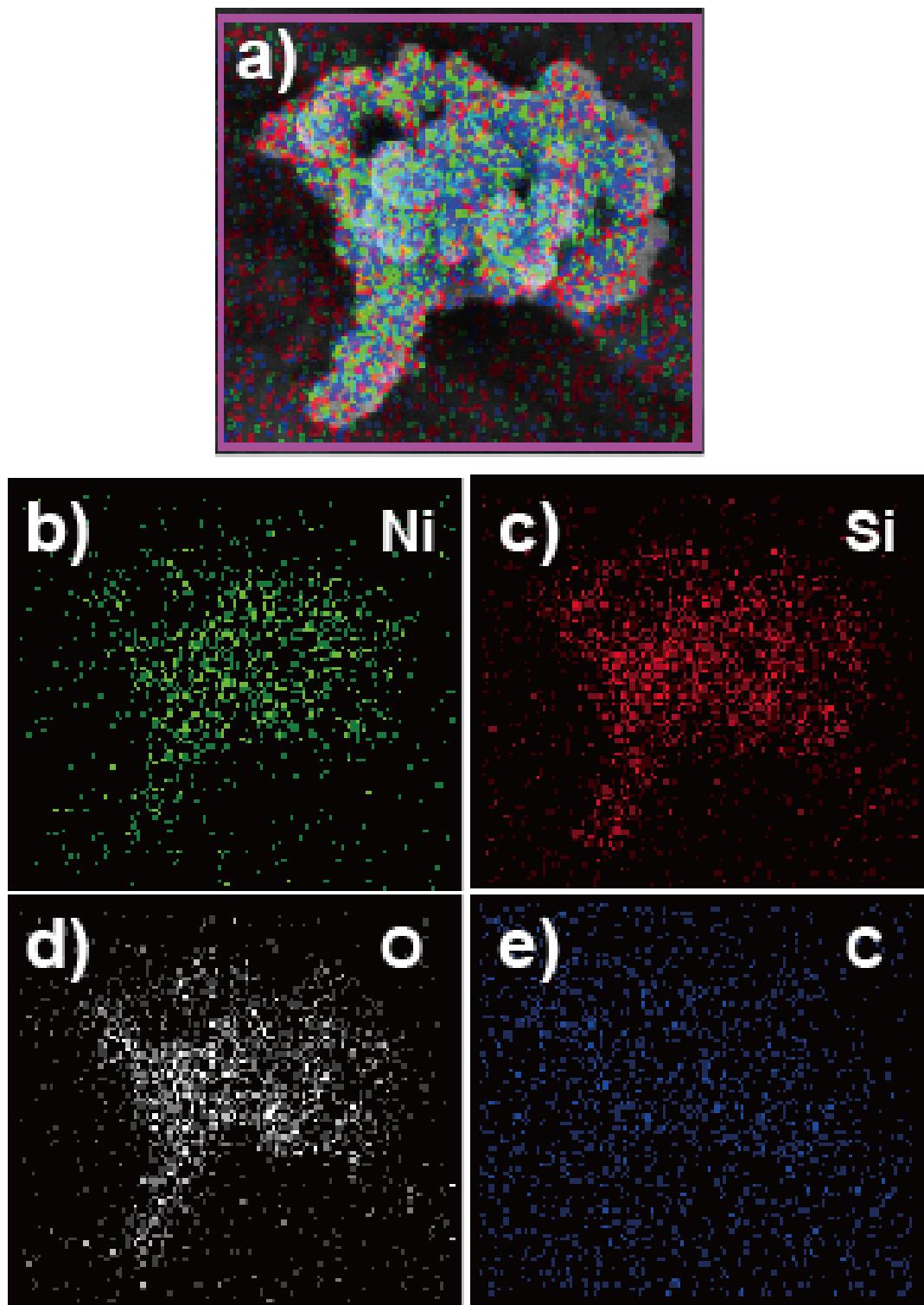


Figure S2. EDX elemental mapping of area shown in a) CNT@NiSiO_x, for b) nickel, c) silicon, d) oxygen and e) carbon.

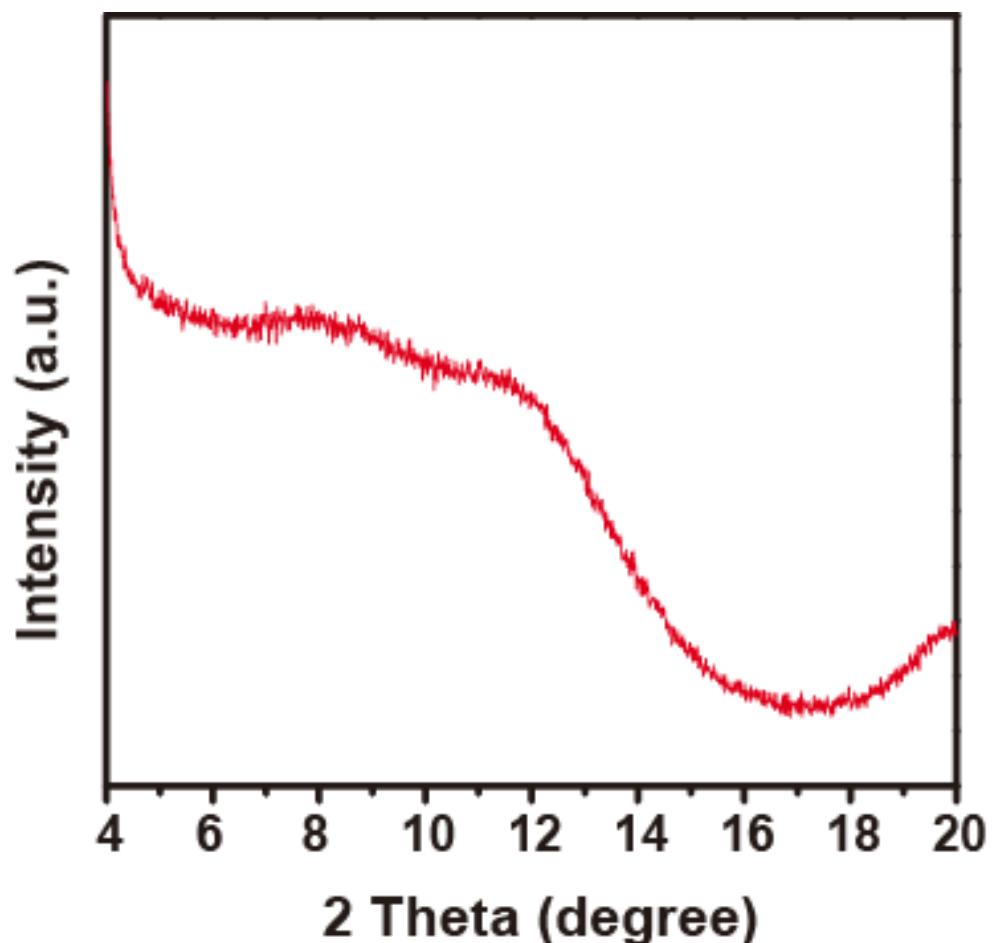


Figure S3. XRD pattern of NiSNT between 4° - 20° .

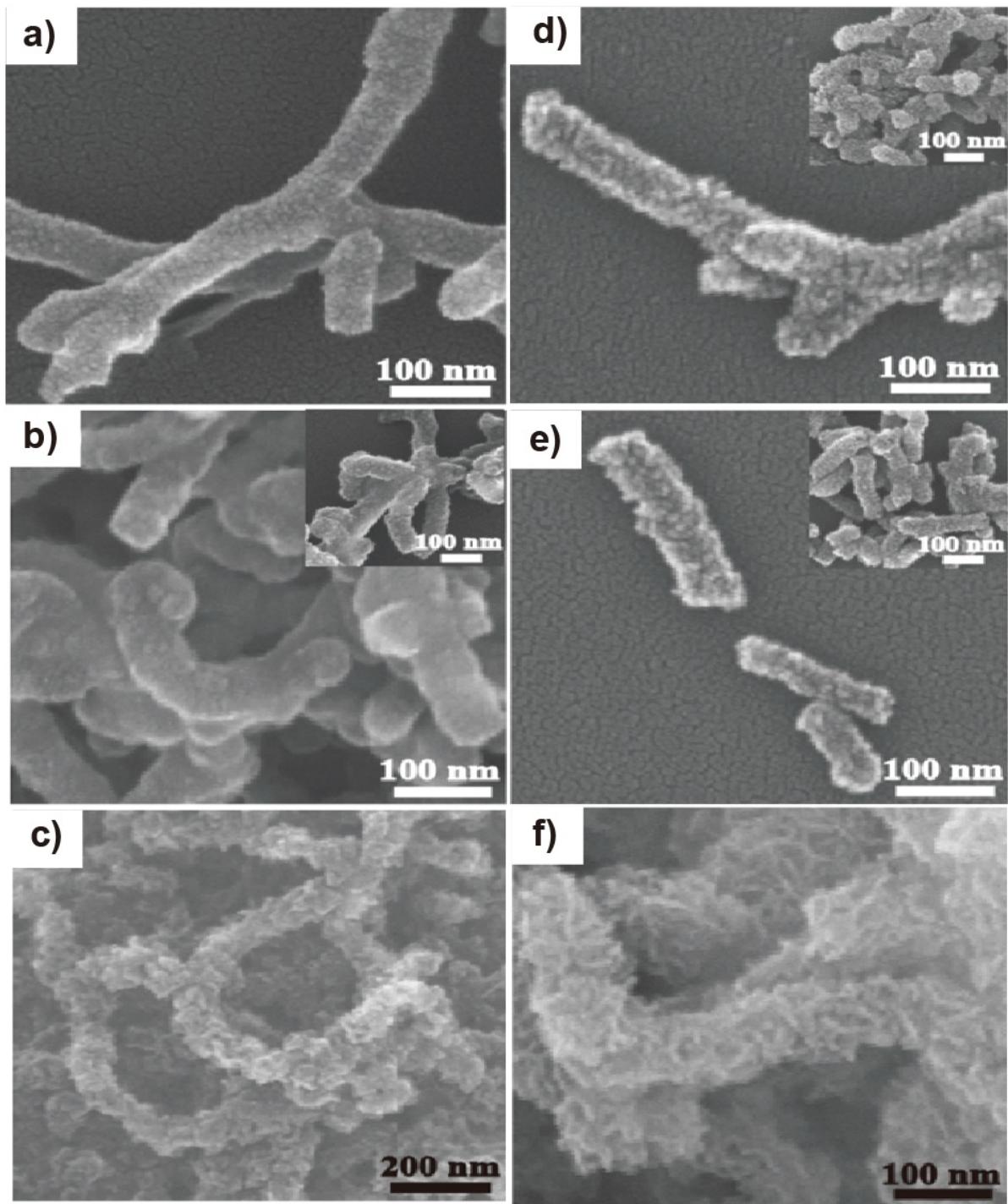


Figure S4. SEM images of CNT@NiSiOx synthesized for different times of a) 0.5, b) 1 and c) 3 h; and NiSNT synthesized for d) 0.5, e) 1 and f) 3h.

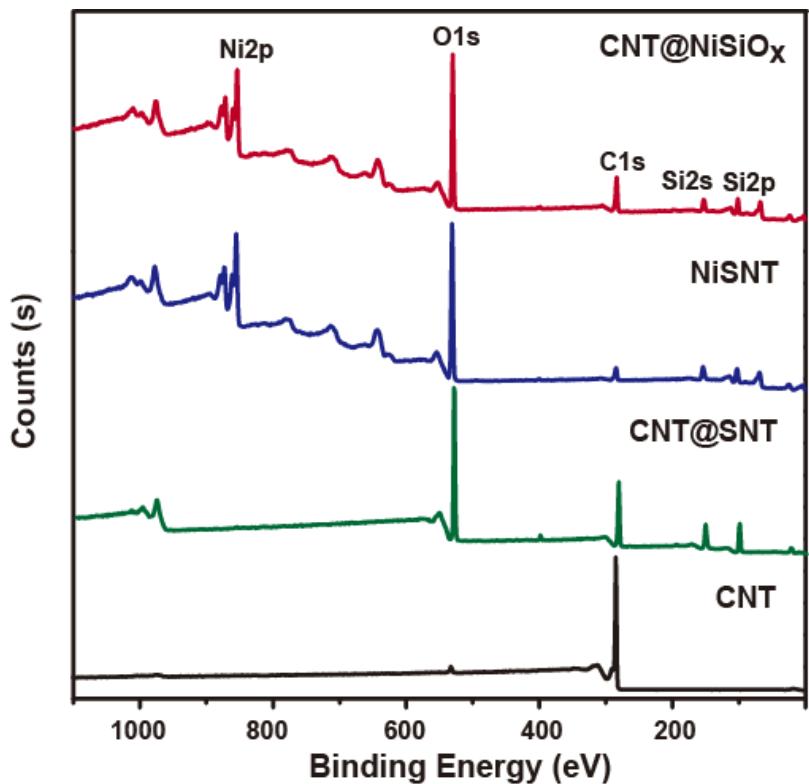


Figure S5. XPS surveys of CNT@NiSiO_x, NiSNT, CNT@SNT and CNT.

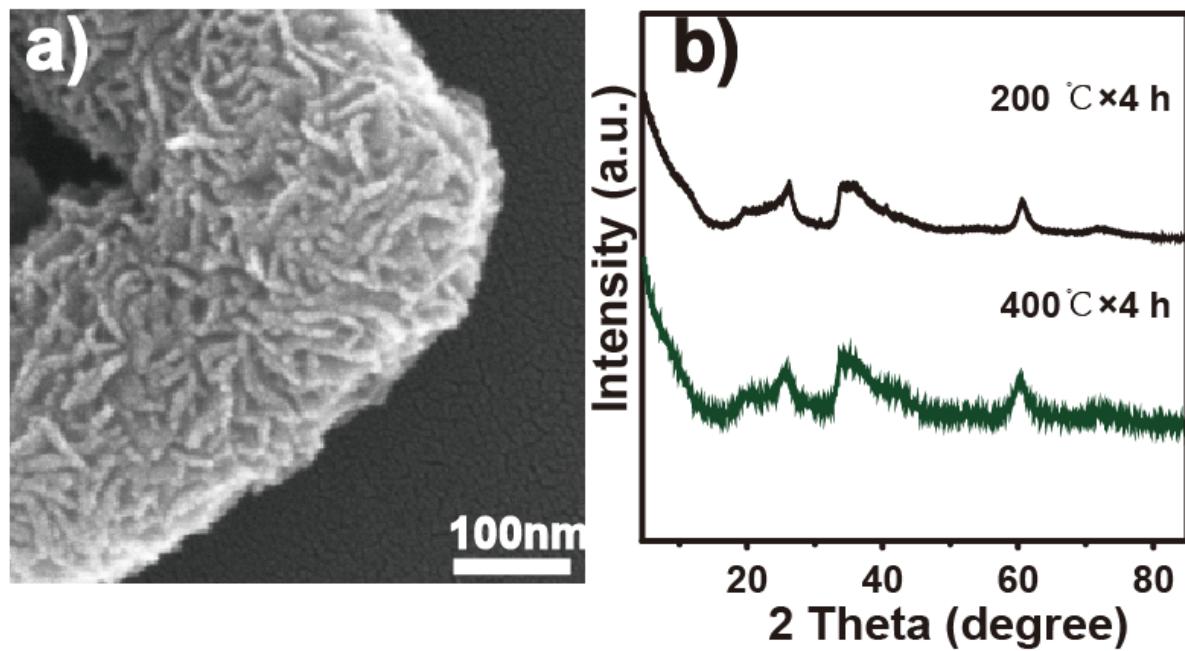


Figure S6. (a) SEM image and (b) XRD patterns of CNT@NiSiO_x after calcinated at different temperatures.

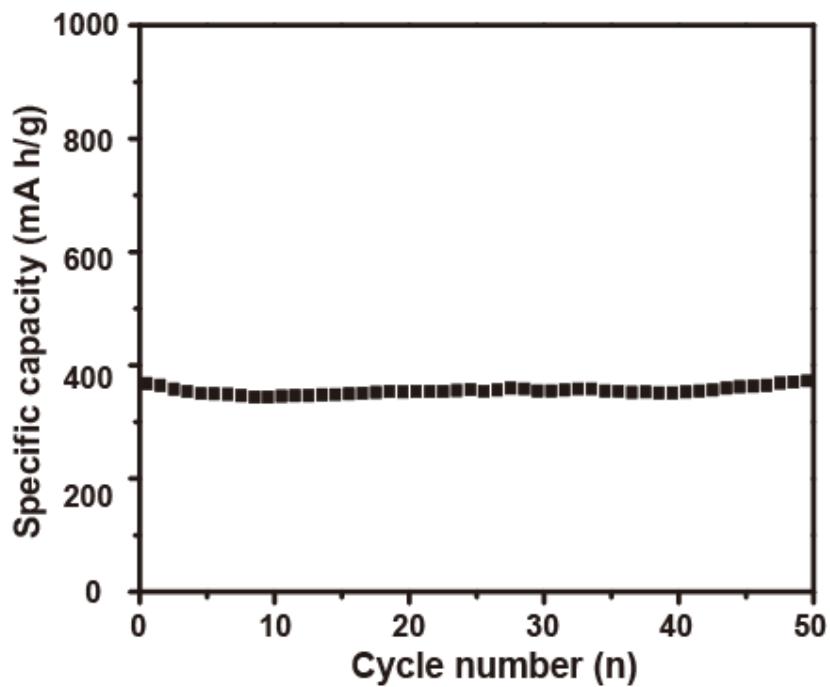


Figure S7. Cycling performance of CNTs.

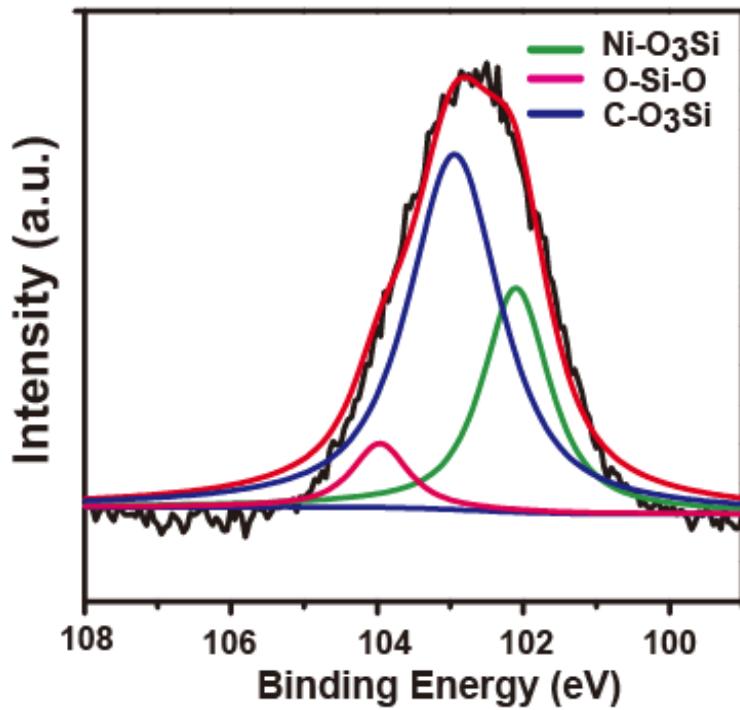


Figure S8. Si 2p XPS spectrum of CNT@NiSiOx after 50 discharge/charge cycles.