## **Supplementary material**

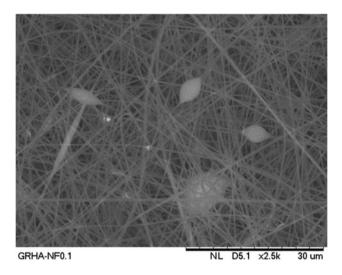
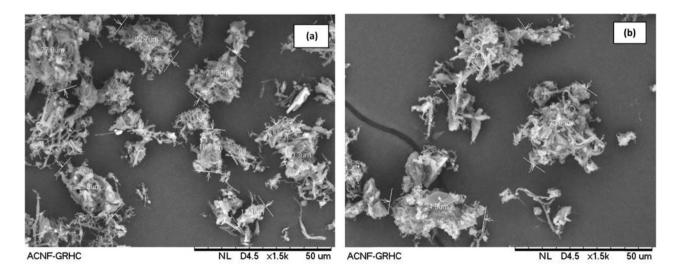


Figure S1: The appearance of beads and large fiber diameter in NF with the highest loading of GRHC.



 $\textbf{Figure S2:} \ (a \ and \ b) \ The \ average \ particle \ size \ of \ GRHC/ACNF \ at \ two \ different \ spots \ at \ 1,500\times \ magnification.$ 

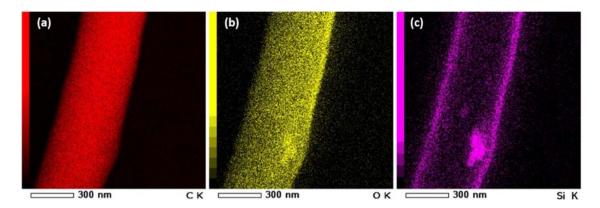


Figure S3: EDX mapping of ACNF incorporated with GRHC (GRHC/ACNF).