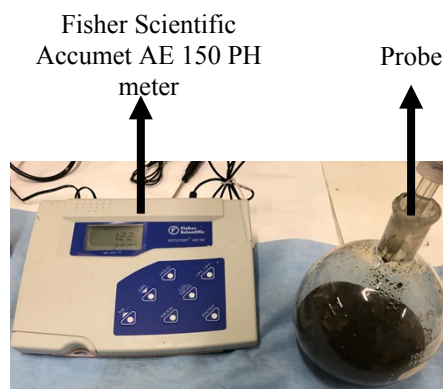
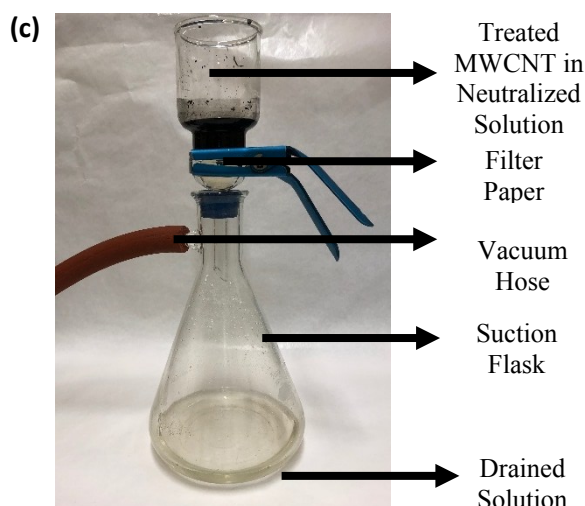


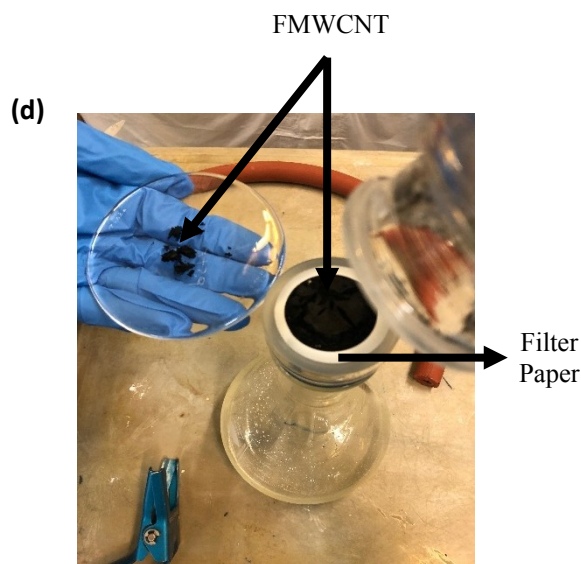
(a) Acid Reflux Reaction



(b) pH Measurement During Acid-Base Titration



(c) Vacuum Filtering of Acid Treated MWCNT



(d) FMWCNT Recovered after Acid Treatment

Figure S1. Functionalization of MWCNT (a) acid reflux reaction, (b) pH measurement during acid-base titration, (c) vacuum filtering of acid treated MWCNT and (d) FMWCNT recovered after acid treatment.

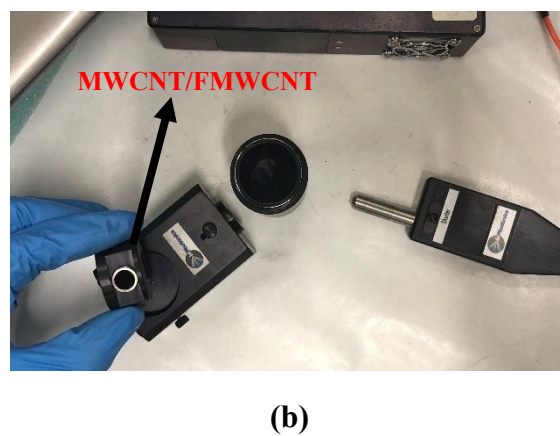
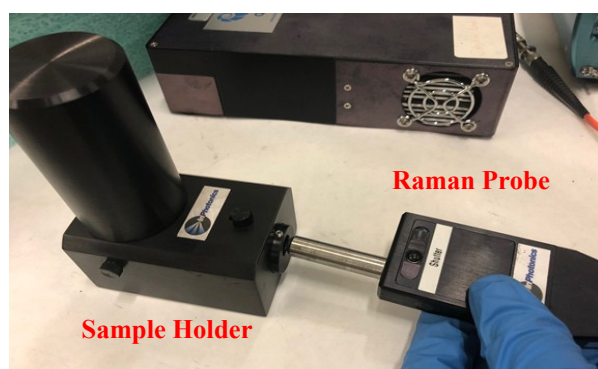
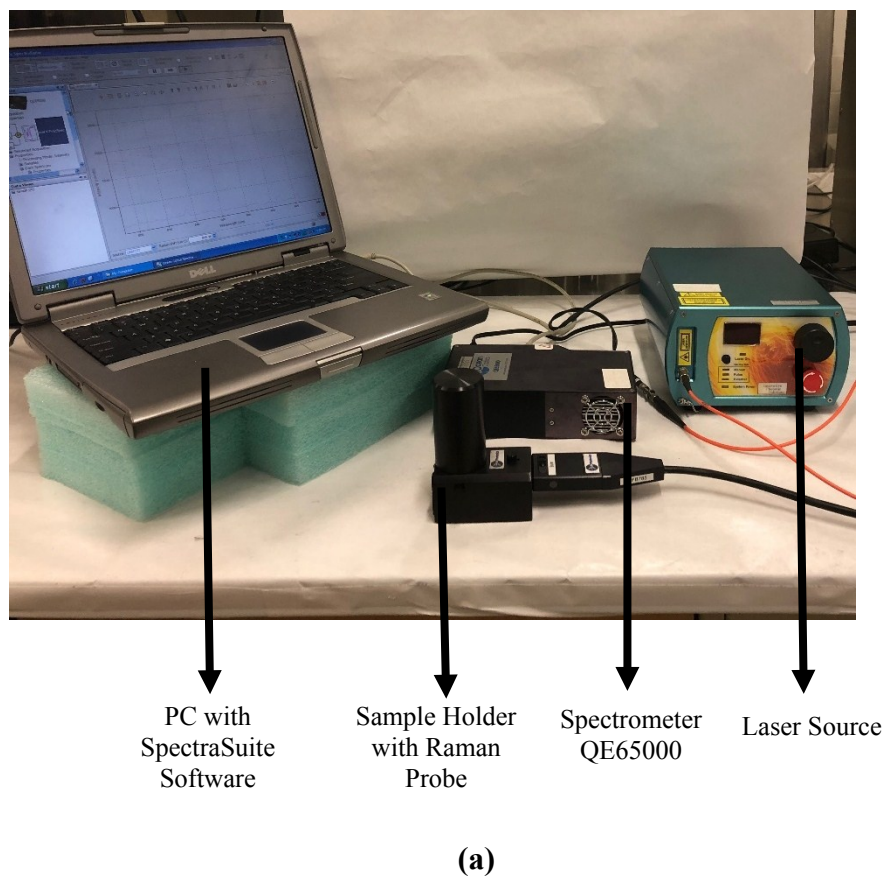
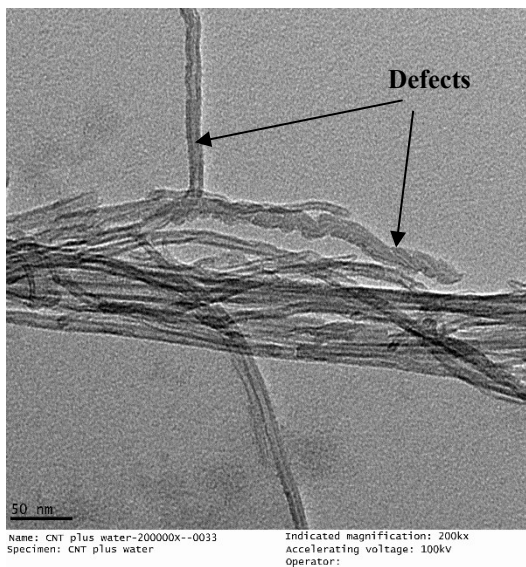
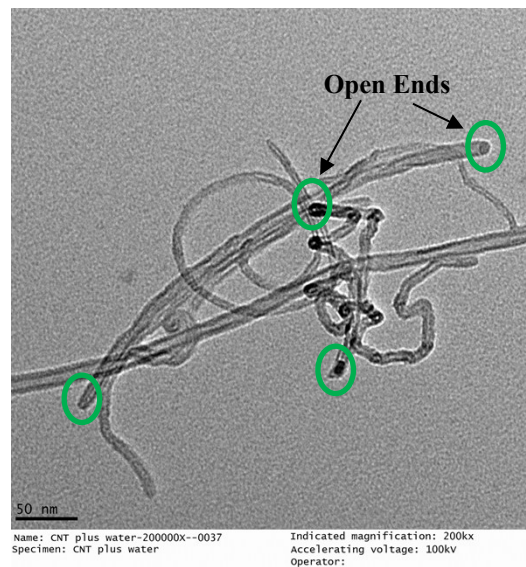


Figure S2. Raman spectroscopy of MWCNT and FMWCNT: (a) experiment setup, (b) Raman probe and the sample holder, and (c) MWCNT/FMWCNT in sample holder.



(a)



(b)

Figure S3. TEM micrographs of FMWCNT showing (a) defects on the sidewalls and (b) open ends.



**MWCNT
(60 seconds)**



**FMWCNT
(60 seconds)**



**FMWCNT
(After 72 hours)**



**FMWCNT
(After 120 hours)**

Figure S4. Dispersion analysis of MWCNT and FMWCNTs for upto 5 days.