Supplementary Information

**Fig. S1** Raman spectra (632.8 nm excitation wavelength) and intensity ratio of the as-produced (U), acid-refluxed (A), and base-washed (B) samples, respectively.

**Figure S2.** XPS fitting of O1s for the as-produced, acid-refluxed, and base washed samples, respectively.
Figure S3. Thermogravimetric data for all three CNT materials (Perkin-Elmer Pyris 1, heating rate 10 °C/min under air at 20 ml/min), showing the presence of additional material (debris) after oxidation, no longer present after base washing. Charring of the debris may slow the overall oxidation slightly.