

## Supplemental Information

### Controlled oxidative cutting of single-walled carbon nanotubes

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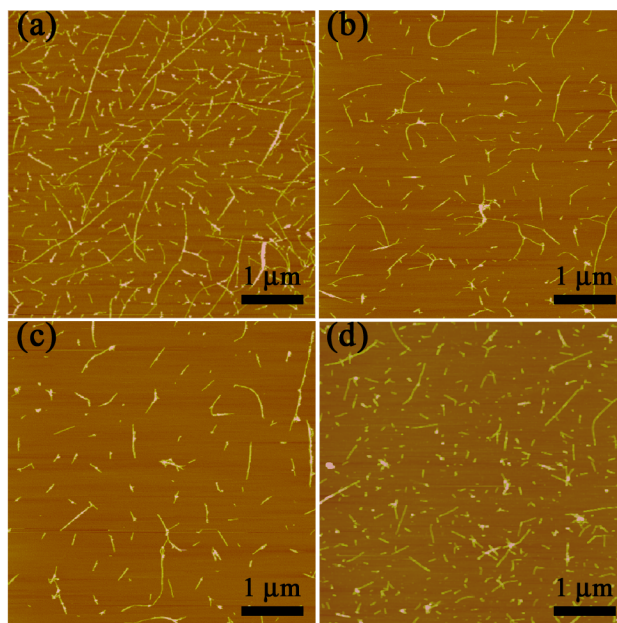


Figure S1. AFM images of (a) purified SWNTs and SWNTs after piranha treatment at 70 °C for (b) 1 h, (c) 3 h, and (d) 9 h.

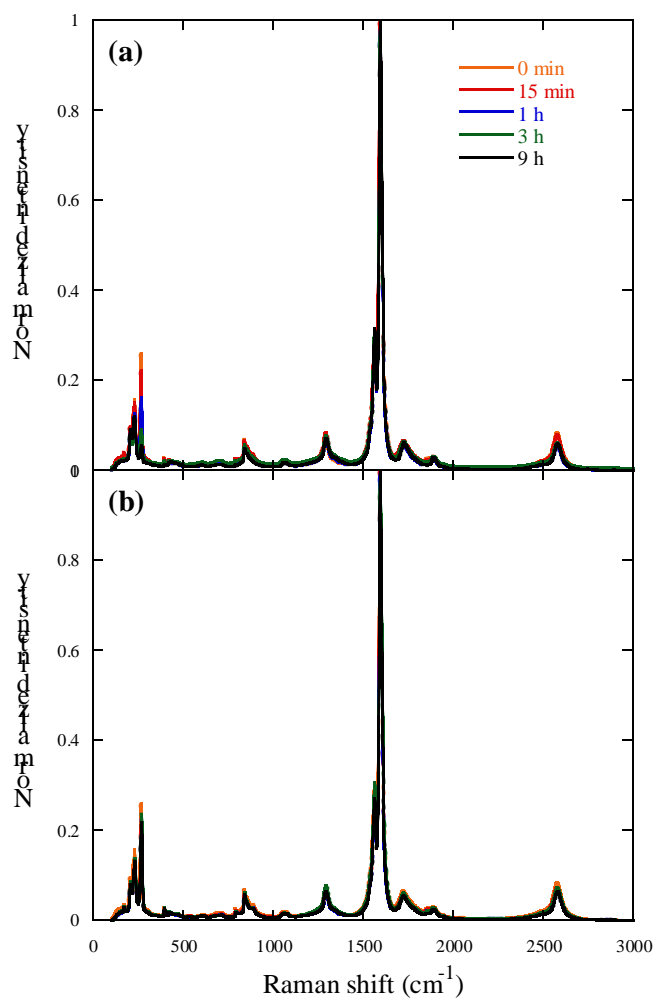


Figure S2. Raman spectra (780 nm excitation) of dried SWNT powder after H<sub>2</sub> treatment as a function of piranha reaction time at (a) 70 °C and (b) 22 °C. Note that the only observed major changes in either spectrum occur in the RBMs highlighted in Figure 6 of the manuscript.