Supporting Information

Dispersion and Rheology of Multi-Walled Carbon Nanotubes in Unsaturated Polyester Resin

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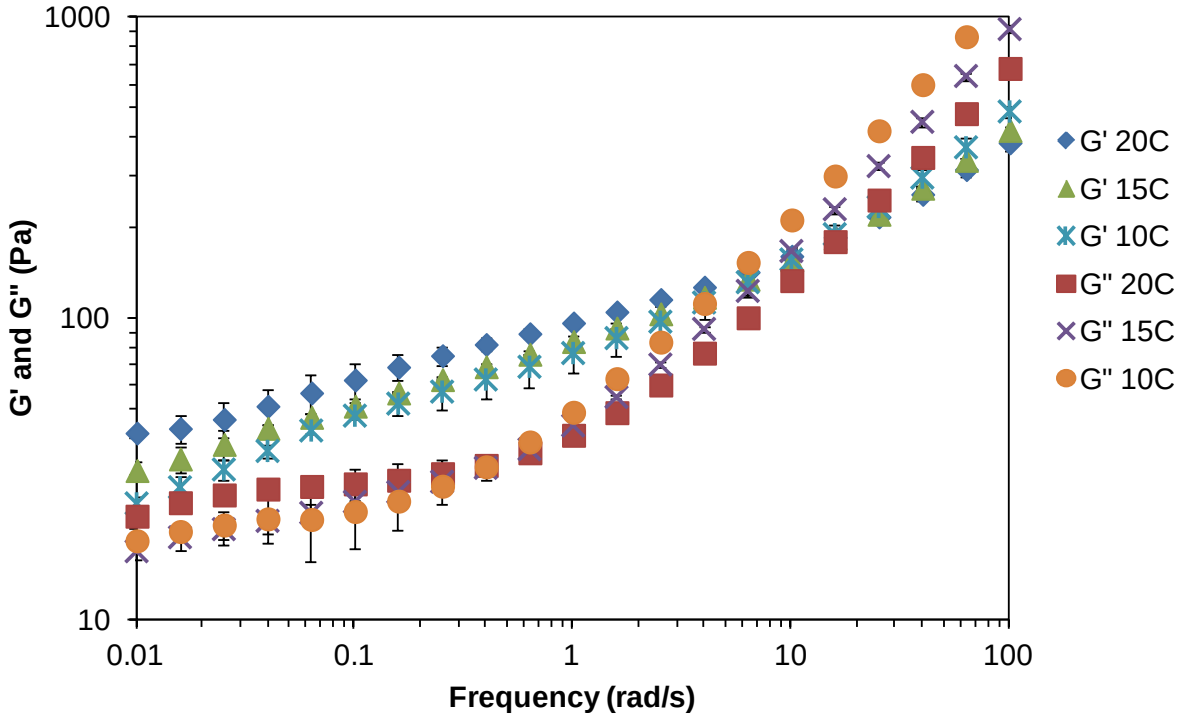

Figure S.1. Oscillatory rheology data of 0.25 vol % MWNTs suspensions at 10, 15 and 20 °C.

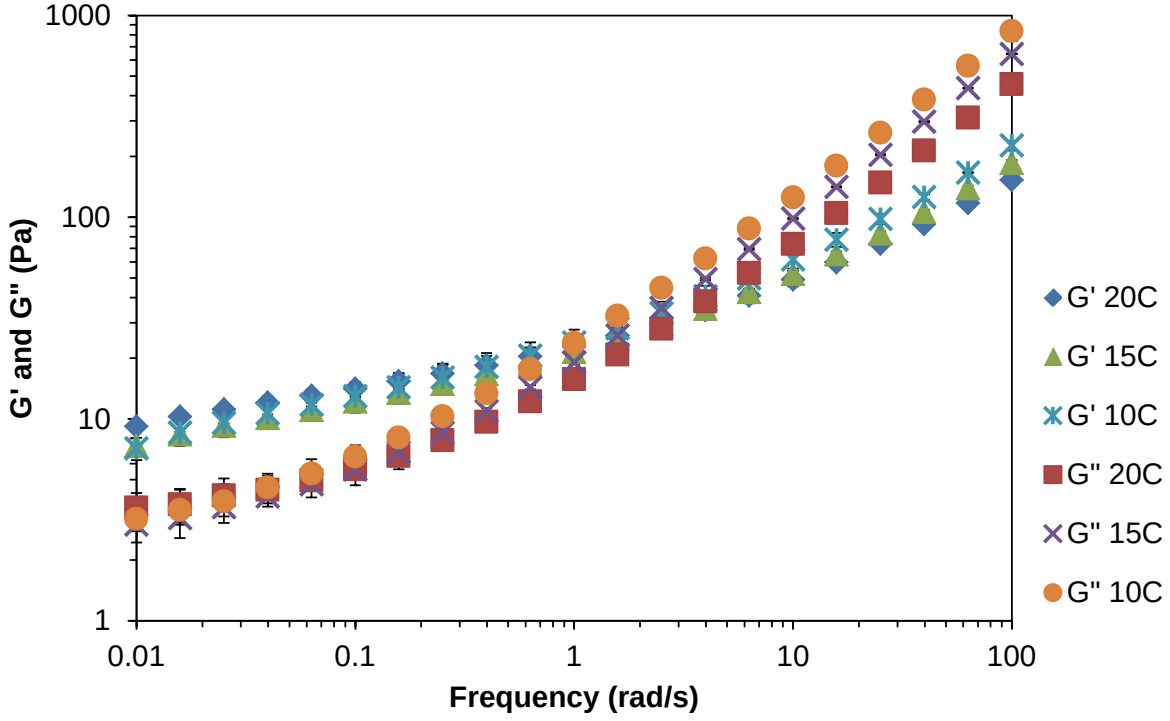

Figure S.2. Oscillatory rheology data of 0.15 vol % MWNTs suspensions at 10, 15 and 20 °C.

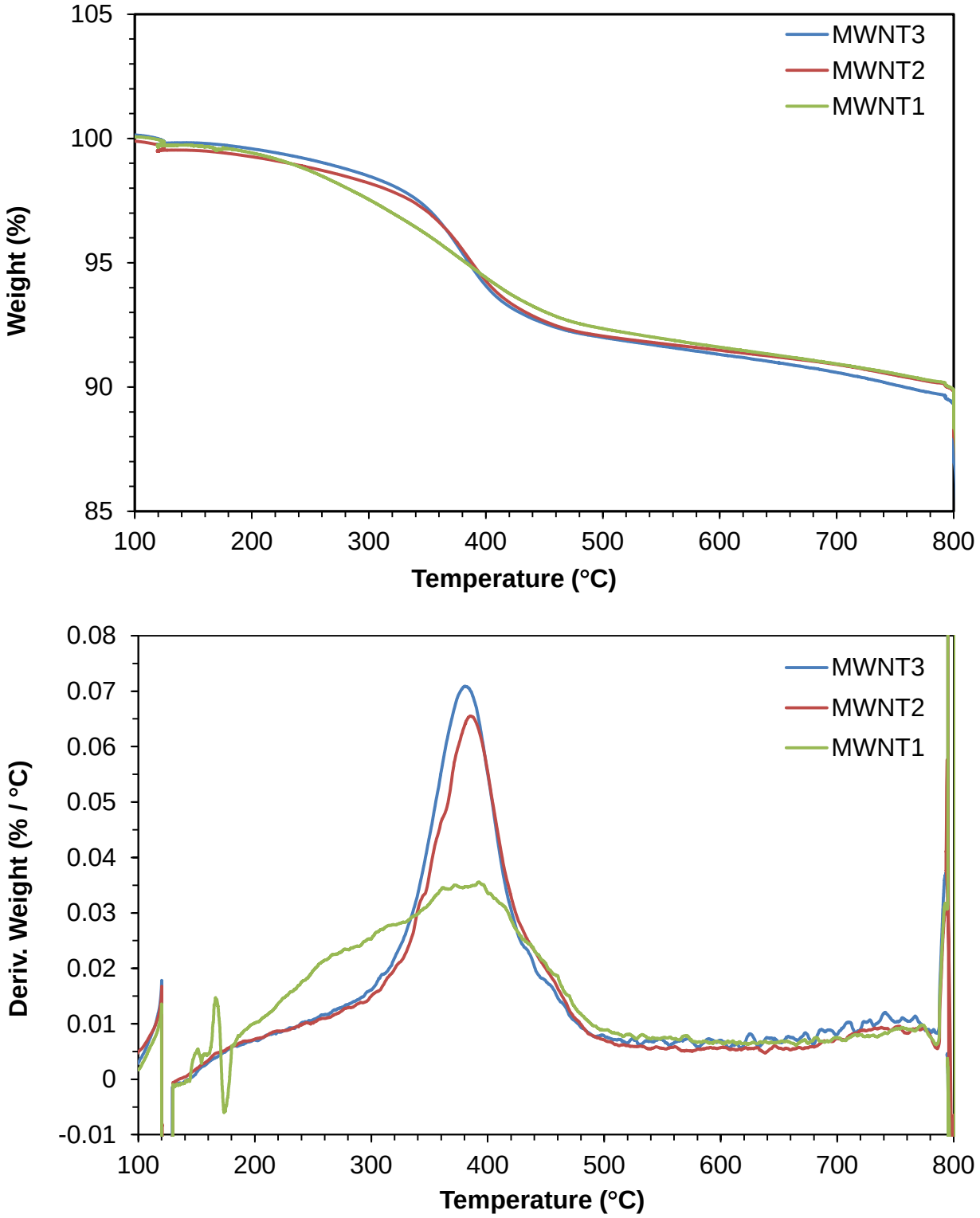

Figure S.3. TGA weight loss (top) and derivative of weight (bottom) traces of PS-modified MWNTs in argon. Sample MWNT1 has an excess of Li with respect to styrene, which produced lower molecular weight PS. Consequently, sample MWNT1 starts to lose PS at a lower temperature. However, the total weight loss is slightly less than the other samples.

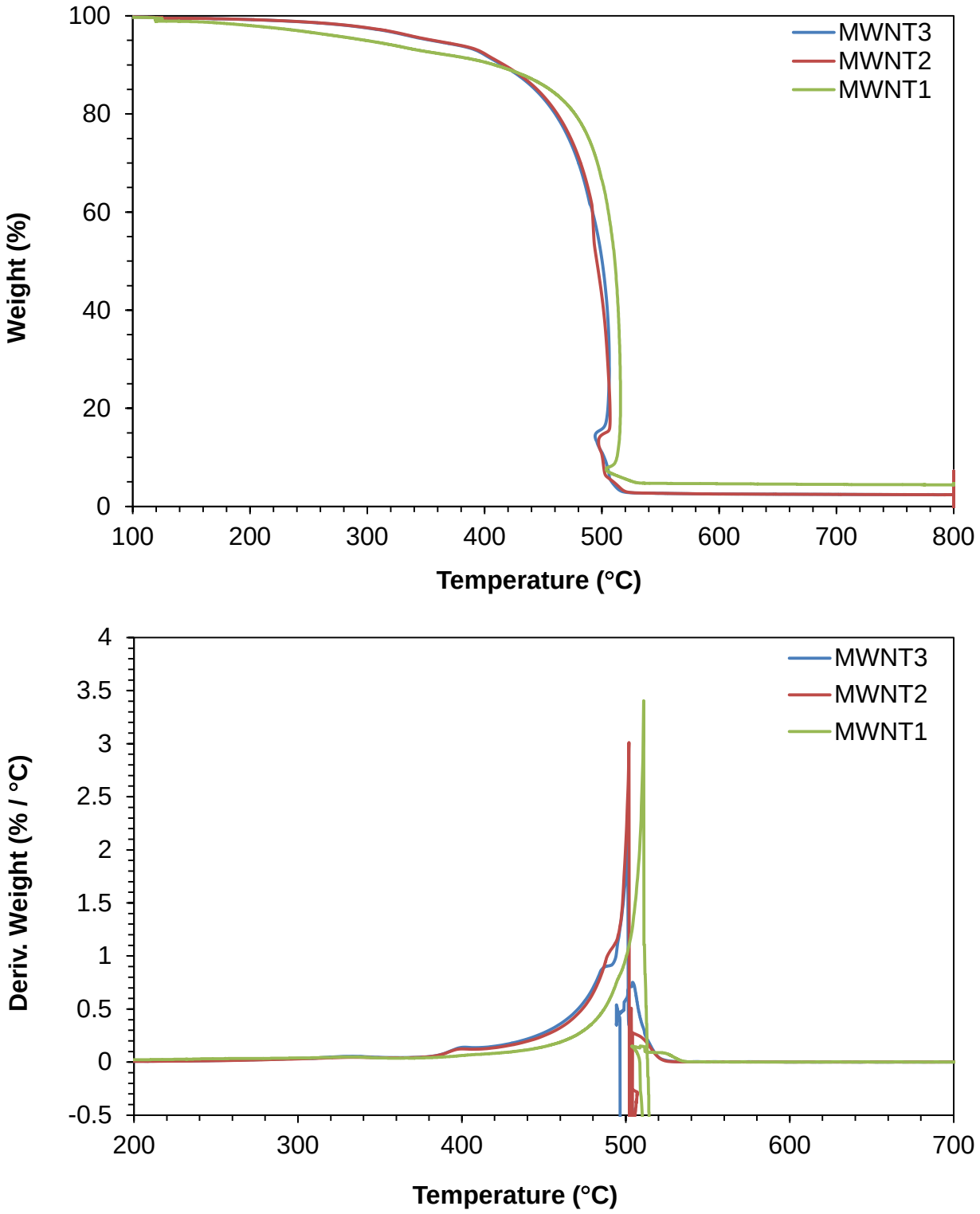

Figure S.4. TGA weight loss (top) and derivative of weight (bottom) traces of PS-modified MWNTs in air. Sample MWNT1 burns at a higher temperature indicating a relatively more thermally stable carbon structure with more sp^2 hybridization than MWNT2 and MWNT3.

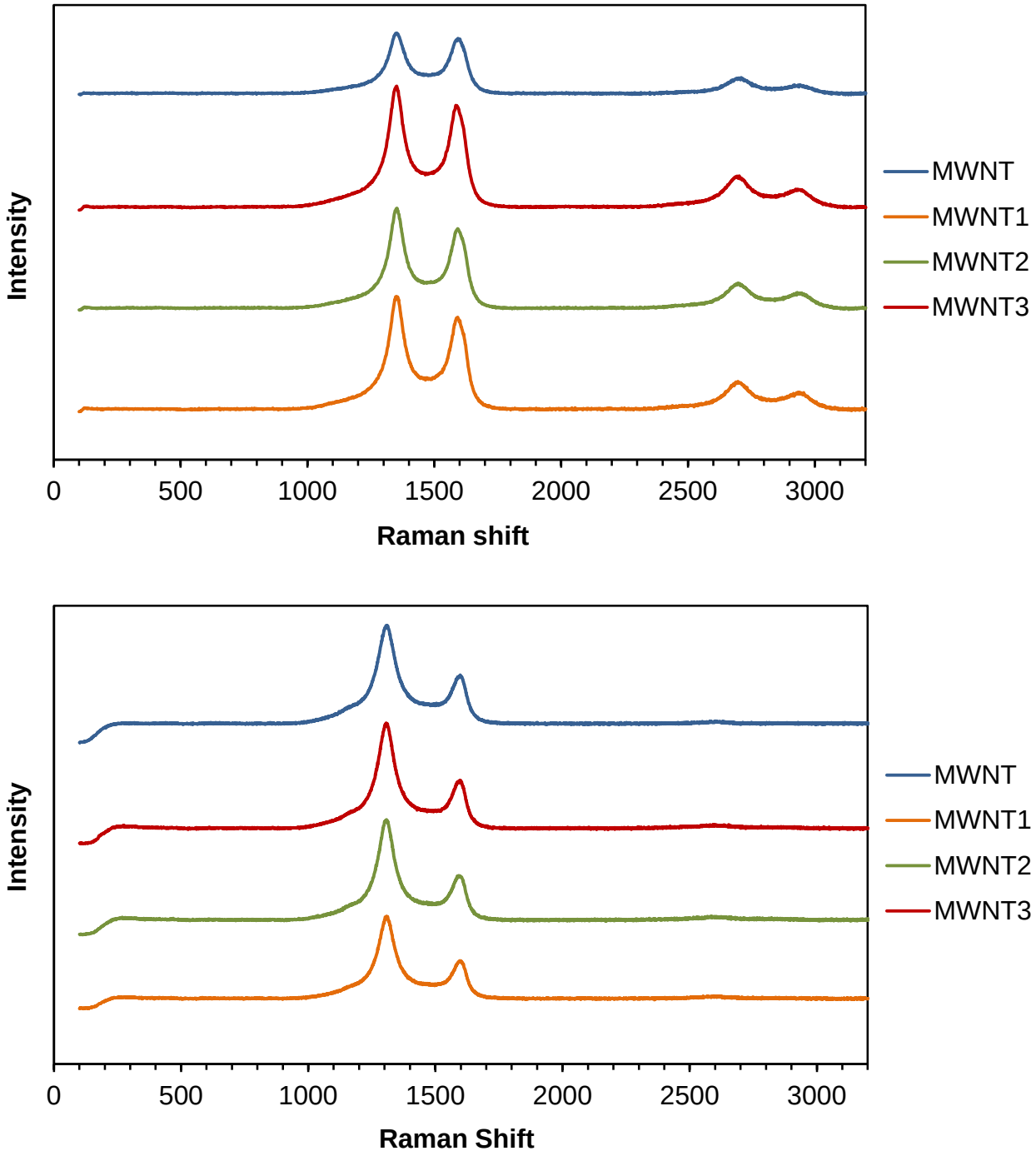

Figure S.5. Raman spectra of modified and unmodified MWNT samples with laser wavelengths of 514 nm (top) and 785 nm (bottom). Traces are offset for clarity.

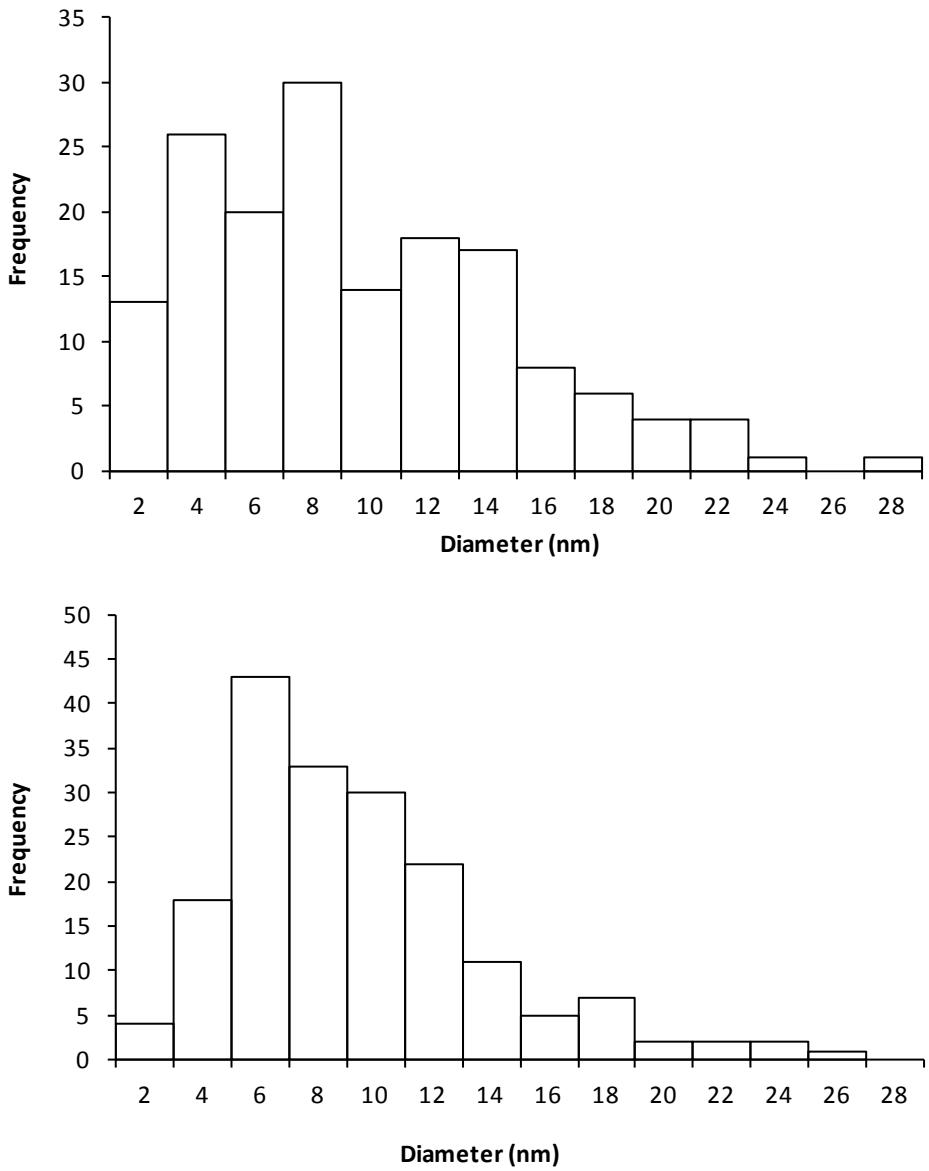

Figure S.6. Diameter distribution measured with AFM of dodecane (C12)-modified (top) and PS-modified (bottom) MWNT. The C12 modification was performed using the same method as PS modification, but replacing the styrene monomer with 1-iodododecane (Liang et al. *Nano Lett.*, **2004**, 4, 1257-1260)

Table S.1. Diameter measurements of C12-modified and PS-modified MWNT.

Parameter	C12-MWNT	PS-MWNT
Average Diameter (nm)	8.5	8.3
Diameter Standard Deviation (nm)	5.4	4.5
Diameter 95% Confidence Interval (nm)	0.8	0.7