



Figure S1. The simulated absorption spectra of all of the s-SWNTs considered, listed in order of (n,m) species and overlaid by the AM1.5G solar reference spectrum. Species marked with an asterisk (*) have not been demonstrated to be stable in the isolated state (diameter less than ~0.7 nm) but are known to exist as the inner walls of double- or multi-walled nanotubes.