

Supporting Information for “Dynamics of Topological Defects in Single-Walled Carbon Nanotubes during Catalytic Growth” by Juan C. Burgos, Erick Jones, and Perla B. Balbuena

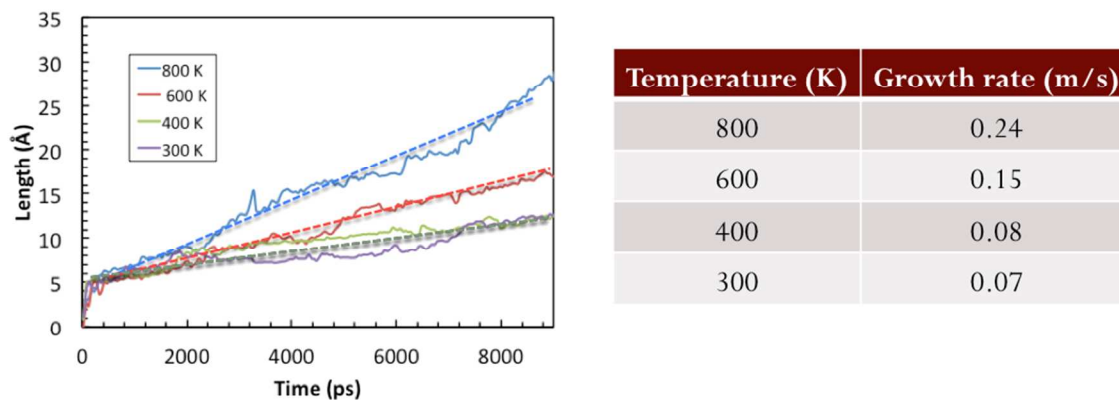


Figure S1. Growth rates at different temperatures calculated as the slope of the length vs. time curves.

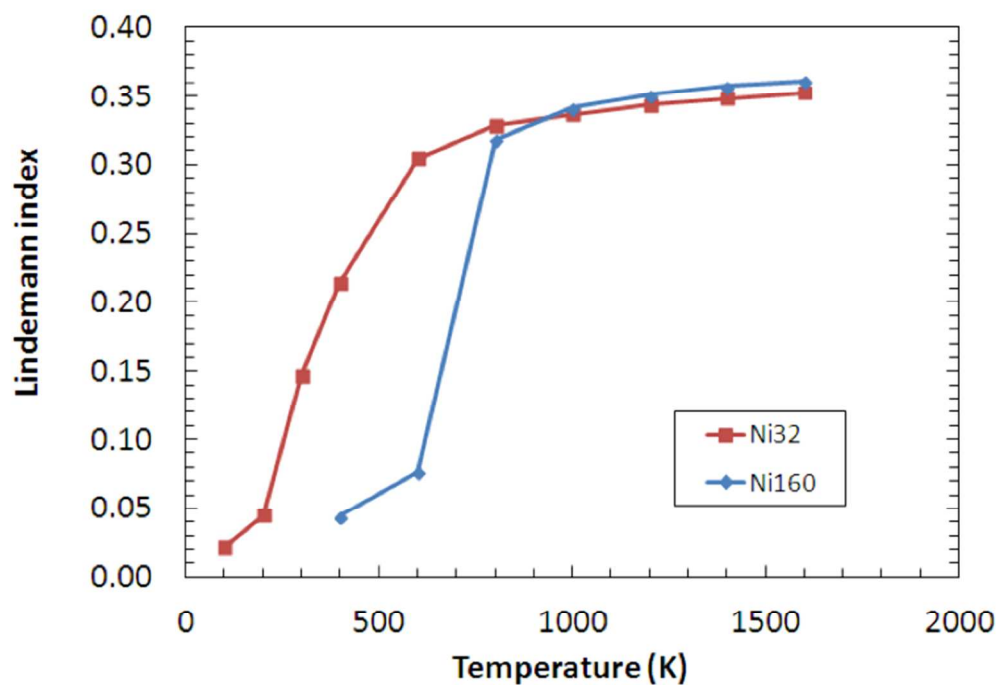


Figure S2. Lindemann index calculated for Ni_{32} and Ni_{160} . Phase transition for Ni_{32} calculated at 350 K – 450 K.

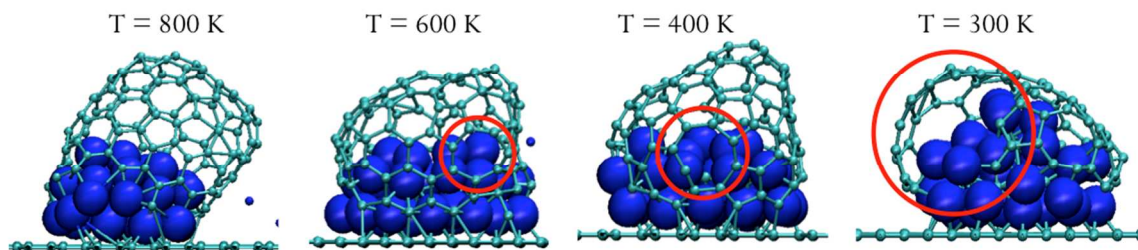


Figure S3. Nucleation of defects as a function of temperature. At temperatures below 400 K, limited kinetic energy and diffusion hinders both caps lift off and defects healing, leading to nucleation of amorphous carbon.