

Supplemental information

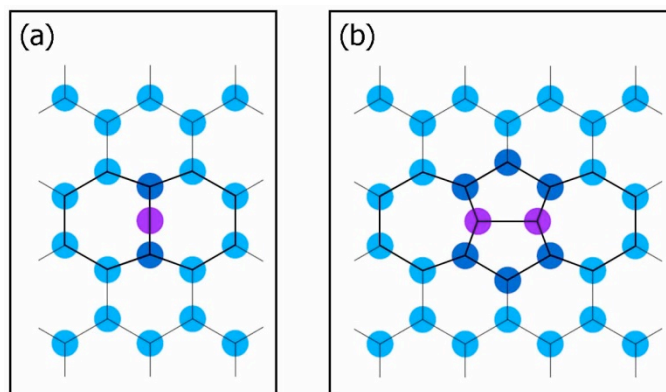


Figure S1. Schematic representation of **(a)** *type-A* defects (carbon adatoms) and **(b)** *type-B* defect (inverse Stone-Wales defect).

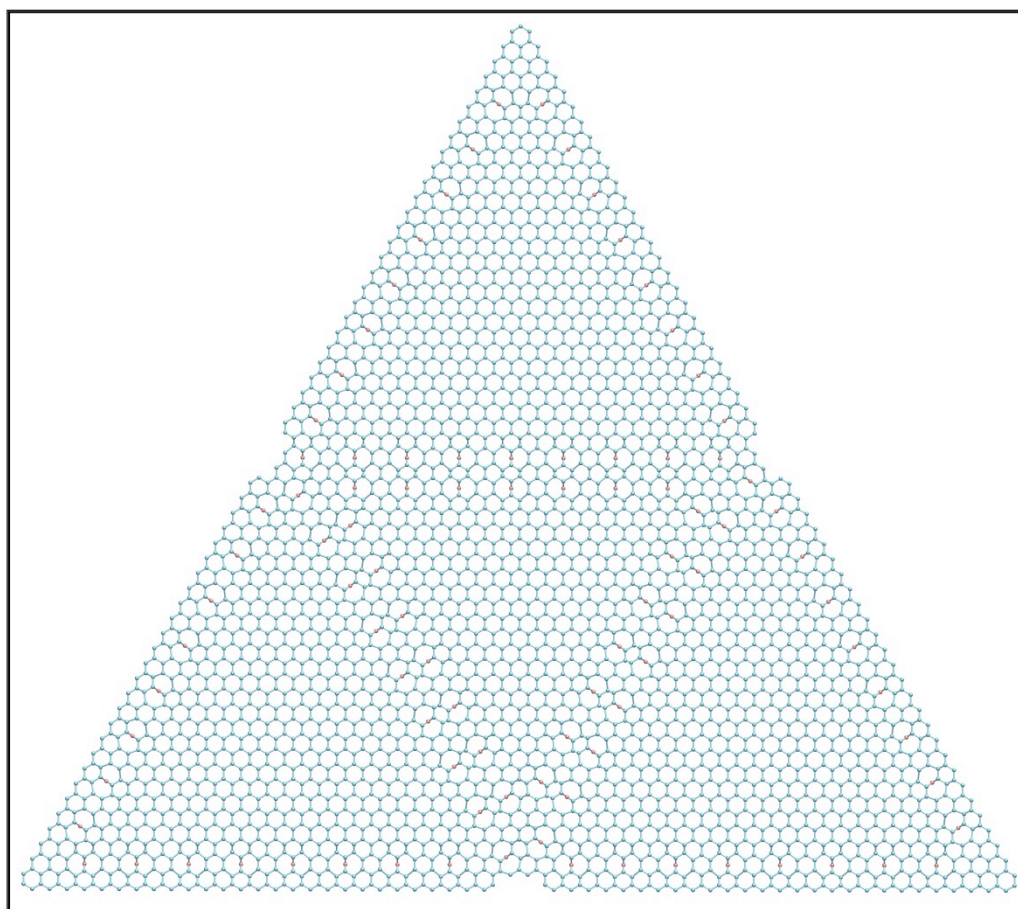


Figure S2. The initial configuration of a triangular GNR with *type-A* defects (carbon adatoms). In a time span of 29 ps the GNR transforms into a nano-tetrahedral.