

Supplementary Materials: Density Functional Theory Investigations of Carbon Nanotube Unzipping on Cu(111)

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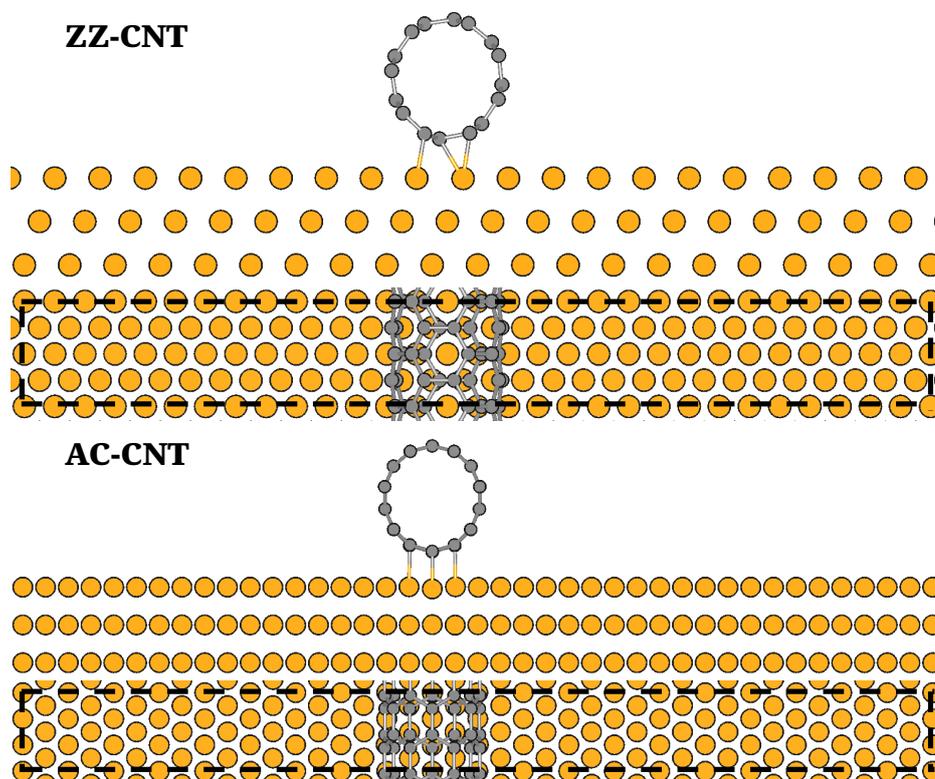


Figure S1. The optimized geometry of the zigzag (top) and armchair (bottom) CNTs adsorbed on Cu(111). The dashed line indicates the unit cell used in our calculations.

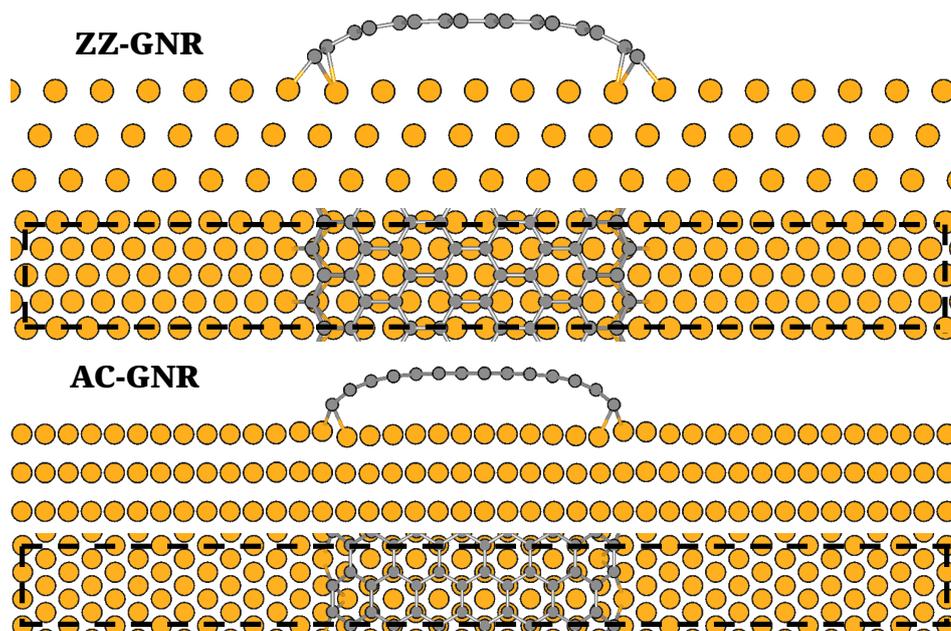


Figure S2. The optimized geometry of the zigzag (top) and armchair (bottom) GNRs adsorbed on Cu(111). The dashed line indicate the unit cell used in the calculations.

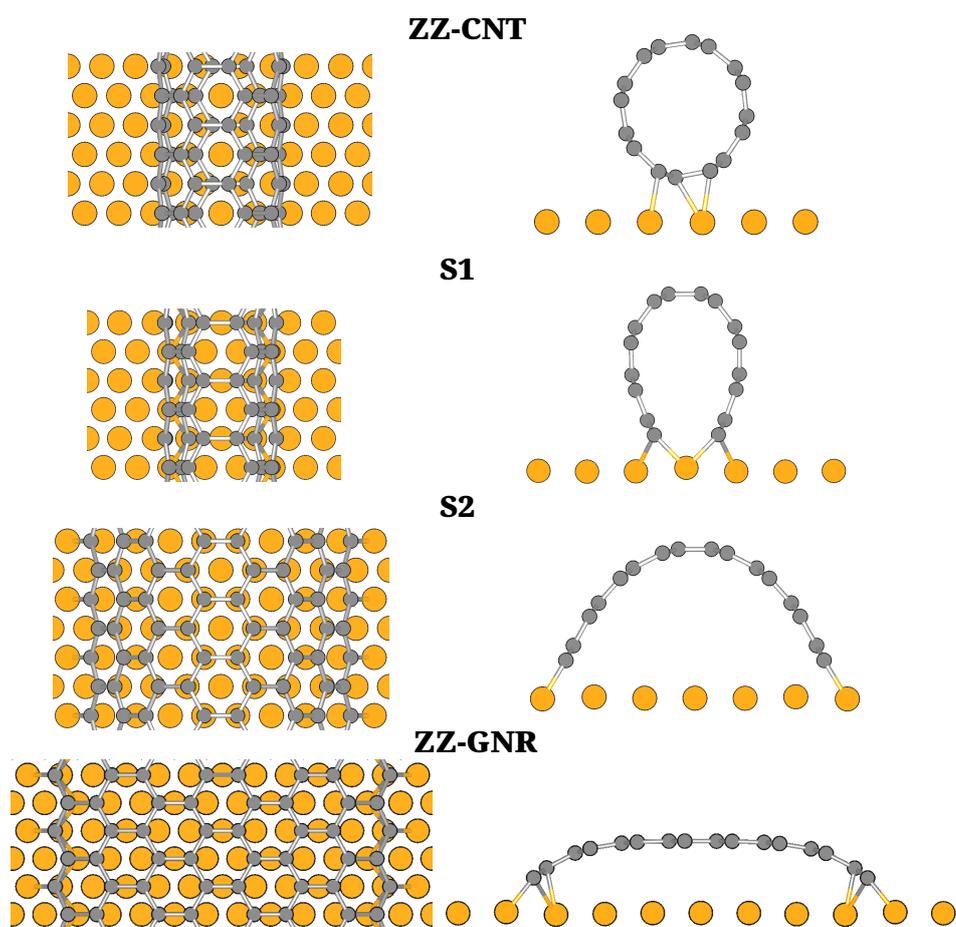


Figure S3. Optimized geometries of the zigzag carbon nanotube transforming to the graphene nanoribbon on Cu(111).

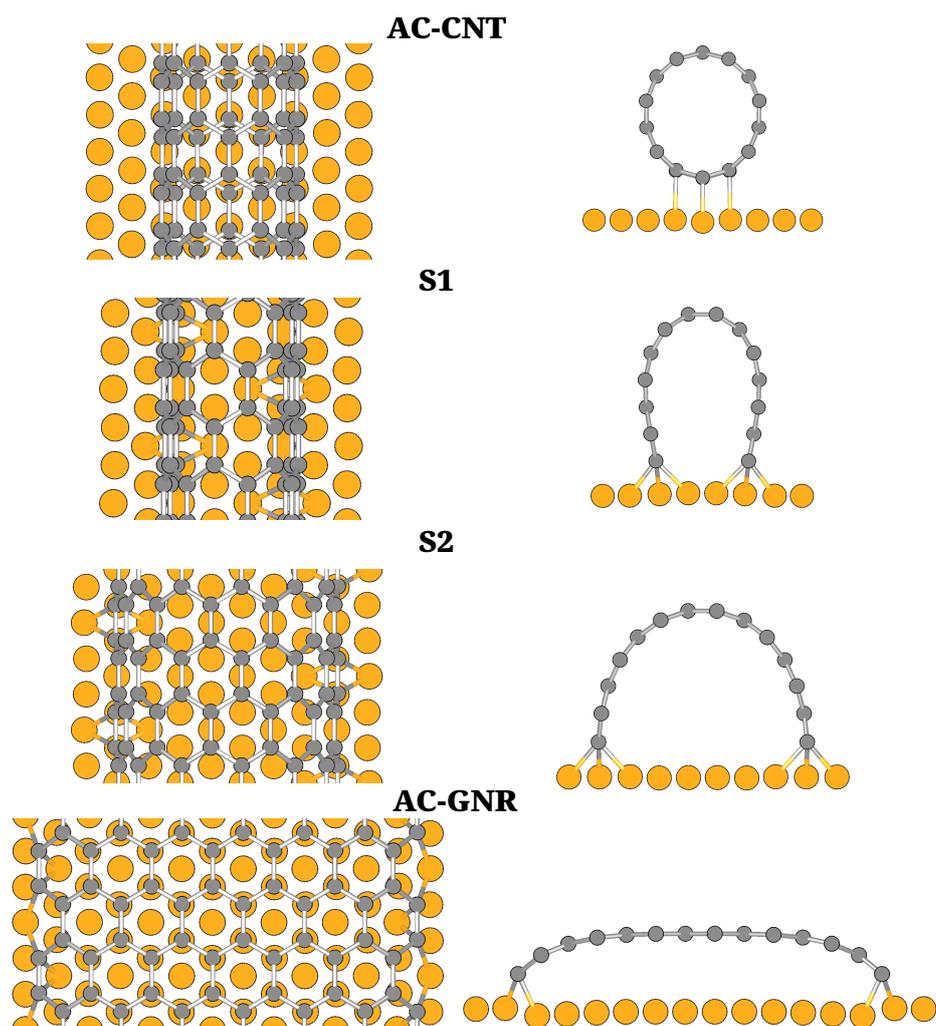


Figure S4. The optimized geometries of the armchair CNT transforming to the armchair GNR on Cu(111).