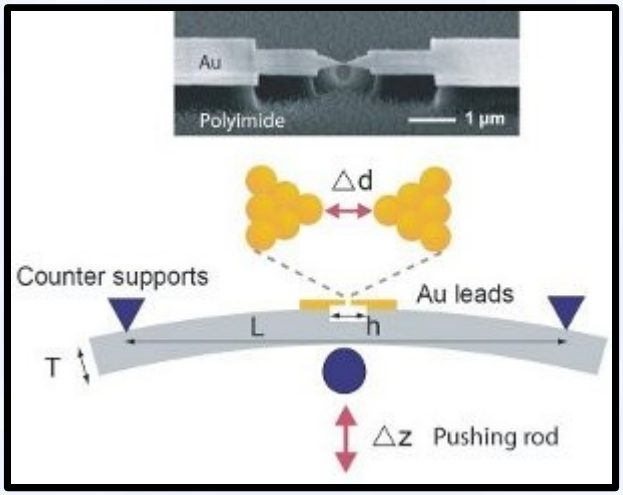
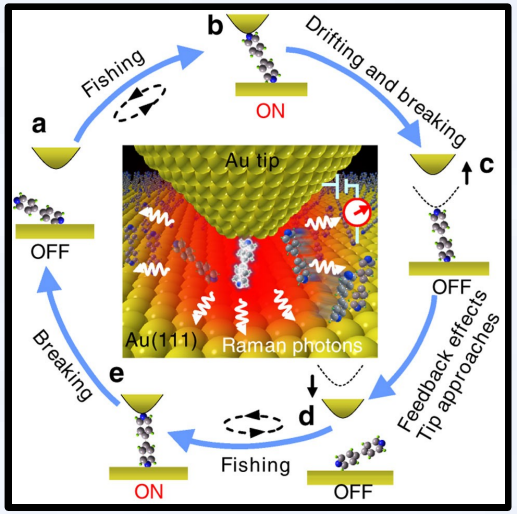
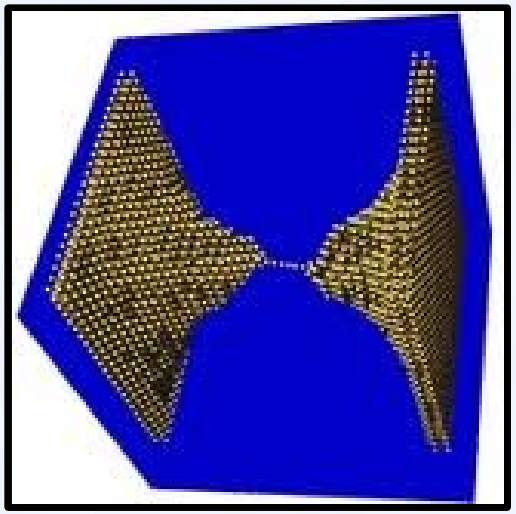
Nanoscale devices



Break junction



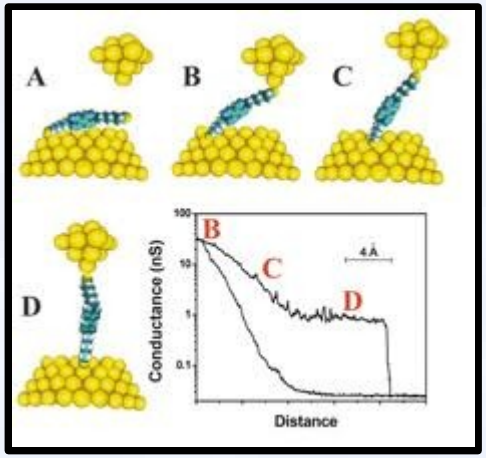
STM

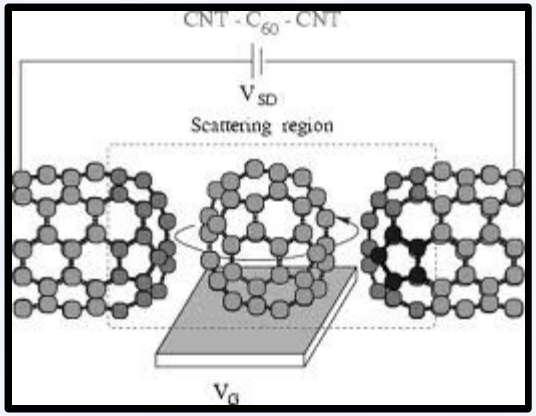


Atomic chains

Molecular junctions

New functionalities because of quantum physics



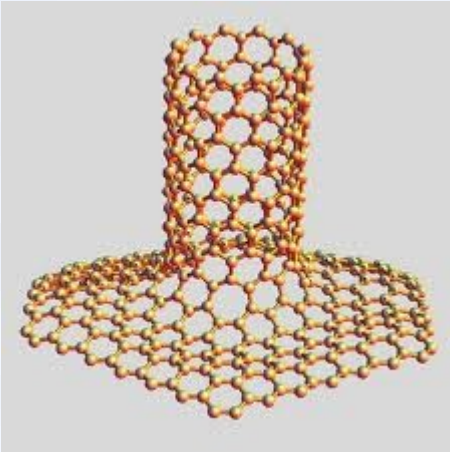


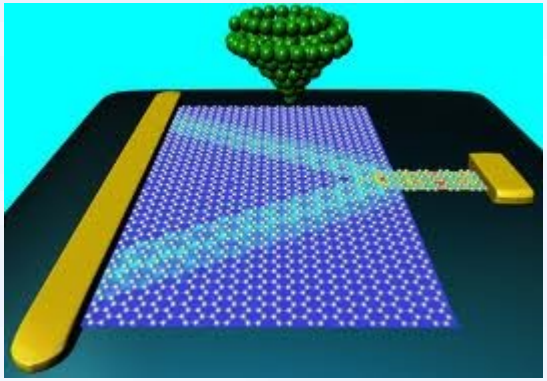
How to control ?
* Junction geometry
* Contact resistance

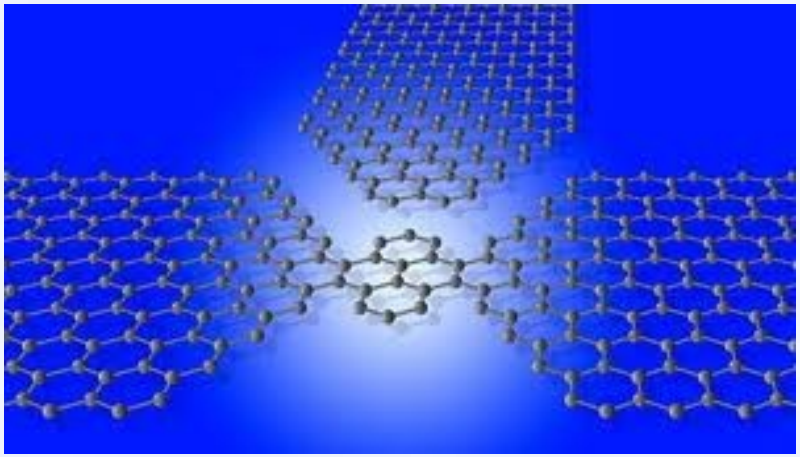
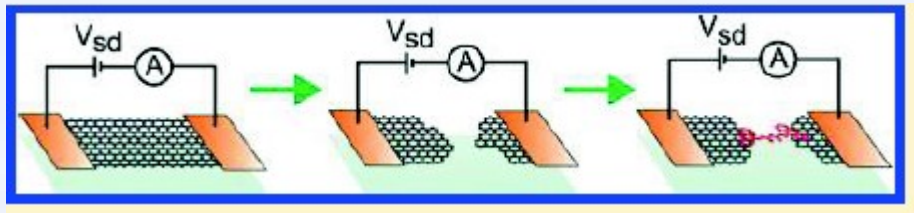
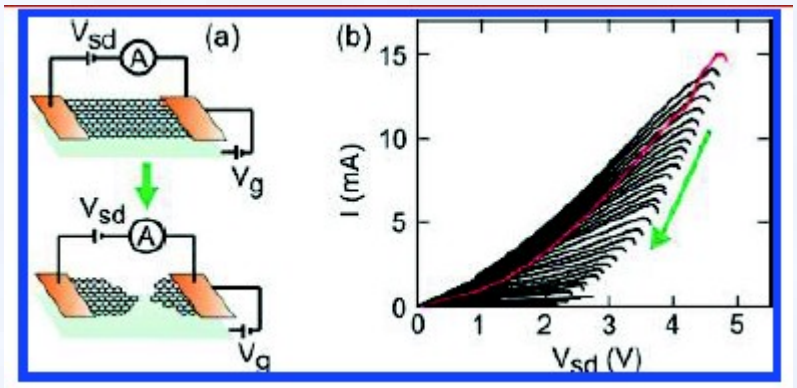
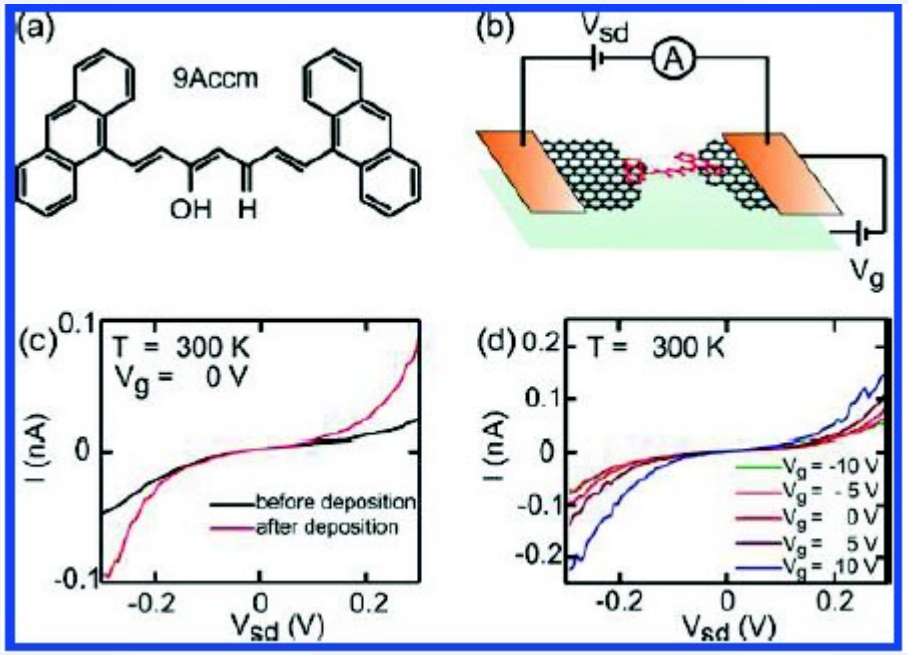
Huge fluctuations & reproducibility

How to gate & how to control gating ?

Graphene junctions







Graphene junctions