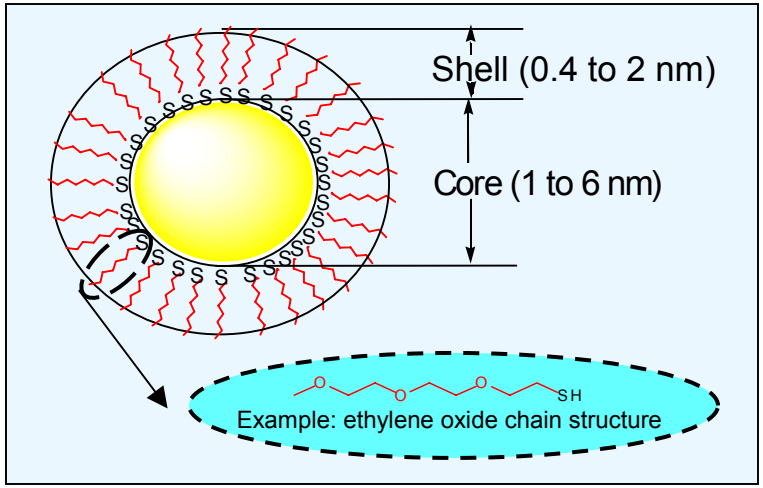
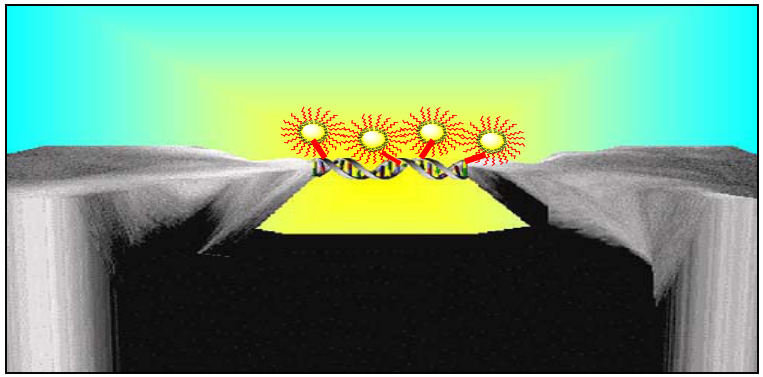
Chemical Templates for Nanocluster Assembly



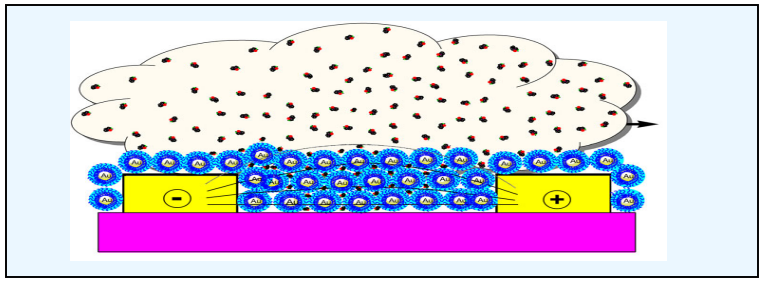
Gold Nanoclusters

- Cluster Dimensional Control
  - Core Diameter
  - Shell Thickness
- Functional Shell Molecules
  - Composition/Structure



Chemical Templates

- Chemical Self-Assembly
- Molecular Templates
  - Rigid Rod Polymers
  - DNA



Applications

- Nanoelectronics
- MIME Chemical Vapor Sensors