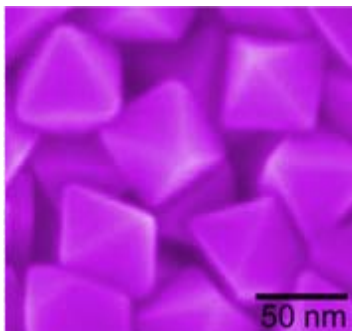
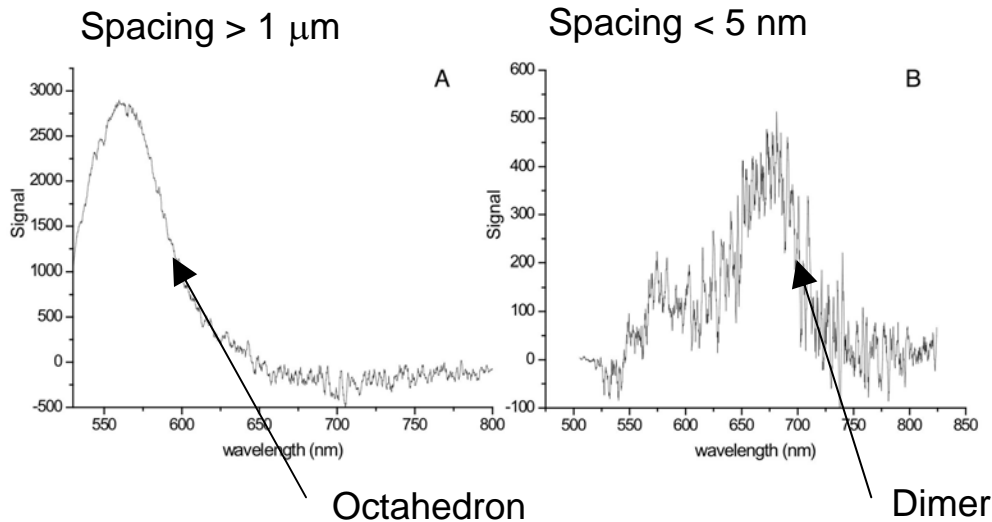


Gold nano-octahedra imaging and spectra

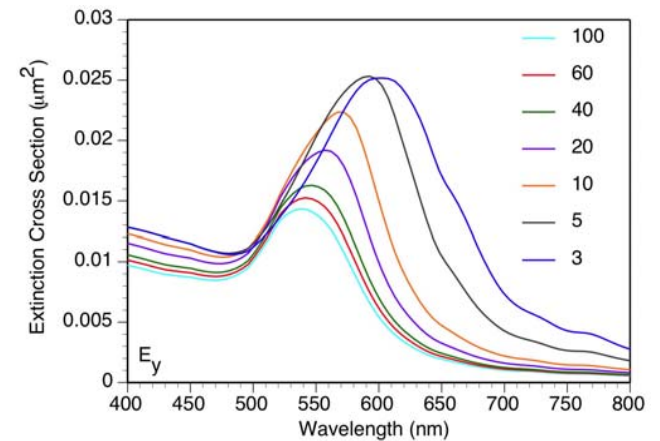
- ❖ Luminescence recorded from 60-nm Au octahedra nanoparticles in an uncoupled configuration (A) and after using an AFM tip to assemble two octahedra into a “Dimer” (B).
- ❖ Coupling results in a new emission band that is red-shifted 100 nm from that of the isolated particles.

Emission Spectra



Gold
Nano-octahedra
TEM

Calculated Extinction Spectra



E parallel to the dimer axis
Strong coupling
Significant red-shift

