

Supporting information

Directional Fano Resonance in a Silicon Nanosphere Dimer

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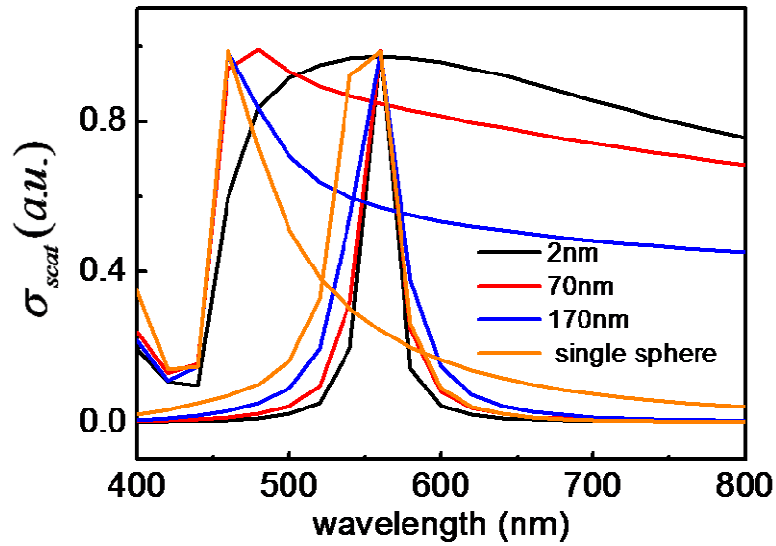


Figure S1. The scattering cross sections contributed by magnetic dipole mode (peak near 550 nm) and electric dipole mode when altering the gap distance.

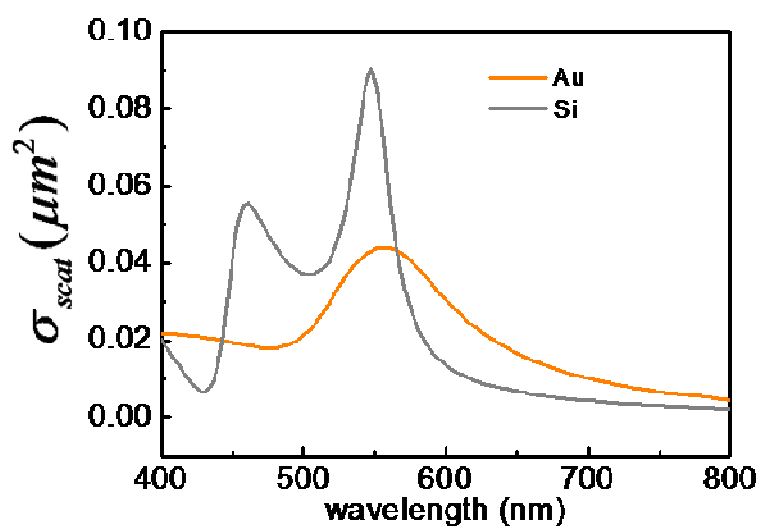


Figure S2. Calculated scattering cross sections of a individual 130 nm silicon sphere and a gold sphere with the same size.

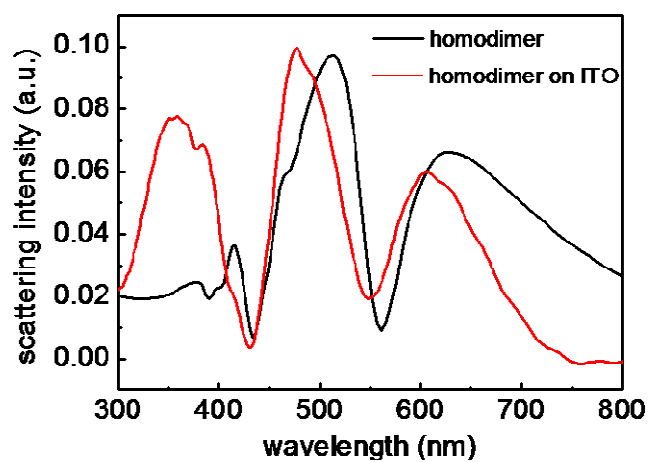


Figure S3. Calculated backward scattering spectra of a heterodimer supported on ITO substrate. The diameters of silicon spheres are 110 nm and 130 nm. The refractive index of ITO substrate is set to 1.6.