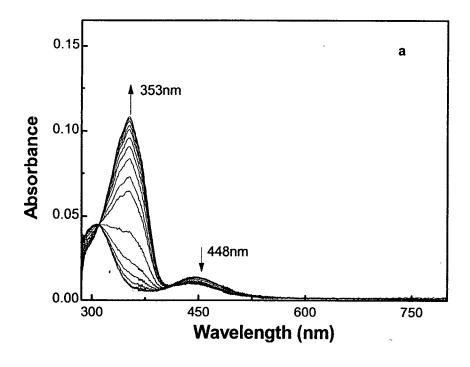
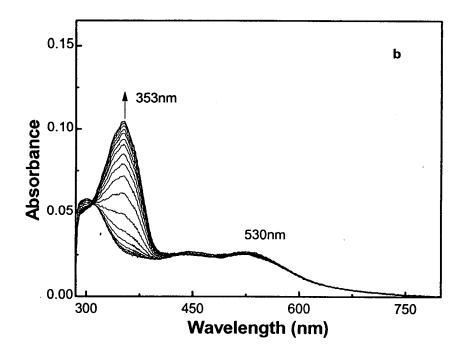


Supporting material #1
The trans to cis photoisomerization with 0.1mW/cm² UV light,
(a) free C6AzSSC12, (b) C6AzSSC12-capped gold nanoparticles in toluene.

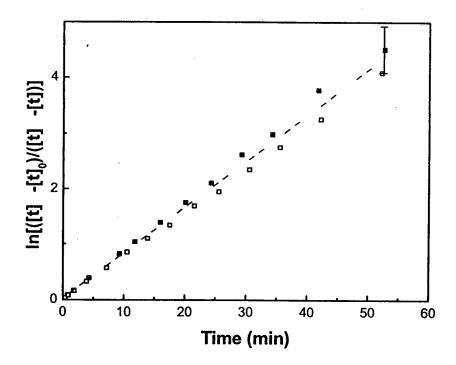
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Supporting material #2
The cis to trans photoisomerization with 0.1mW/cm² UV light,
(a) free C6AzSSC12, (b) C6AzSSC12-capped gold nanoparticles in toluene.

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Supporting material #3
First-order plots for cis to trans photoisomerization of free C6AzSSC12 molecules (solid squares) and C6AzSSC12-capped gold nanoparticles (open squares) in toluene, upon weak vis light (440 nm, I = 0.1 mW/cm²) irradiation. The dashed line is the kinetic data of free dye shown in Figure 8 (I = 1.5 mW/cm²), calibrated by the light intensity.

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