

Supporting Information

Functionalized nanocomposites of gold and their optical studies

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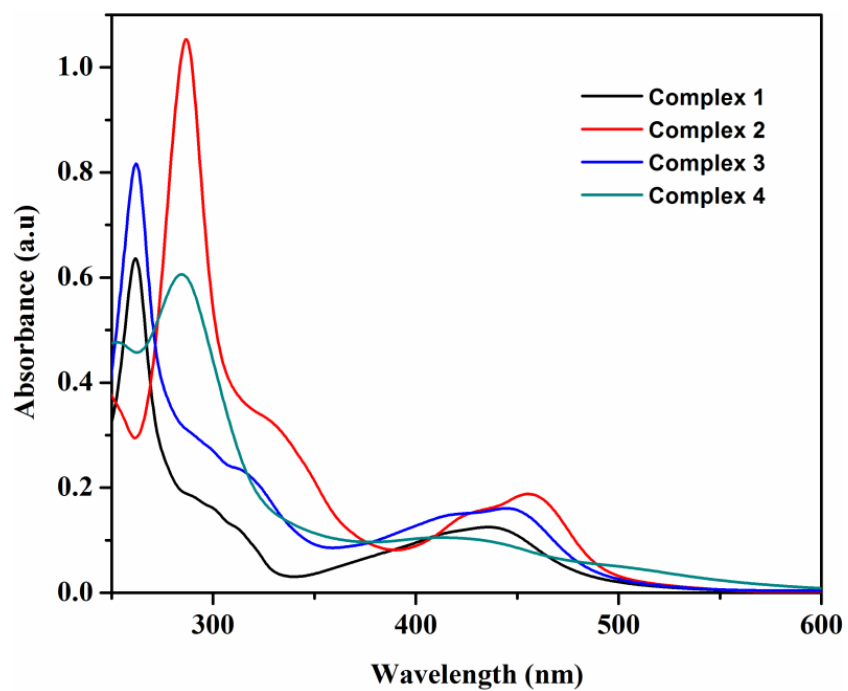


Figure S1. Electronic absorption spectra of 10^{-5} M complex 1-4

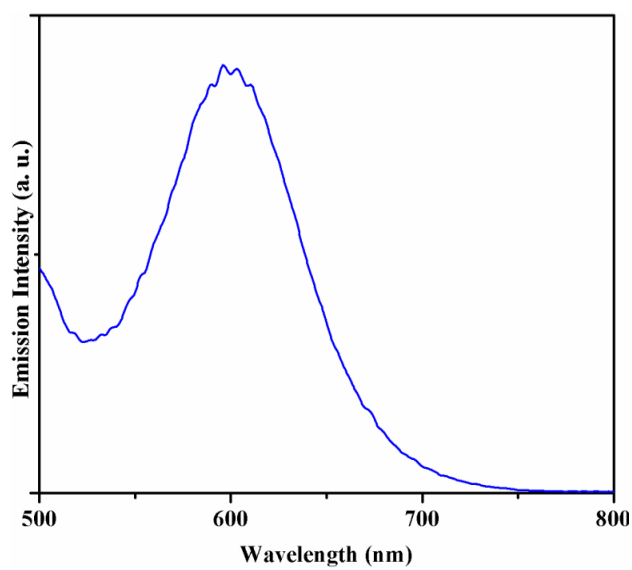


Figure S2. Fluorescence emission spectral profile of 10^{-5} M complex 3 in acetonitrile ($\lambda_{\text{exc.}}$ = 445 nm, $\lambda_{\text{emi.}}$ = 600).

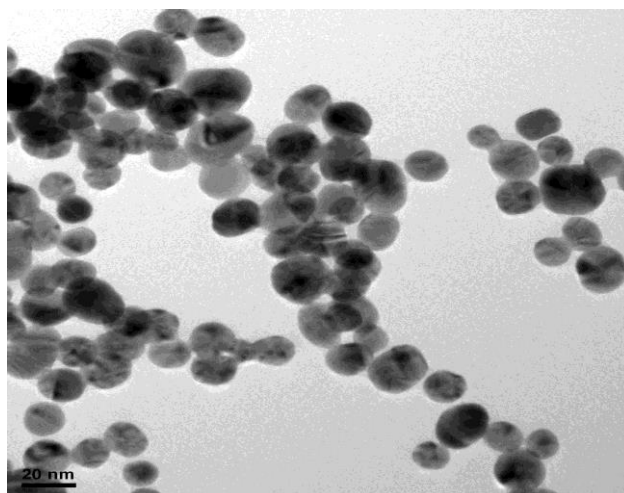


Figure S3. TEM image of complex 3-Au NCs

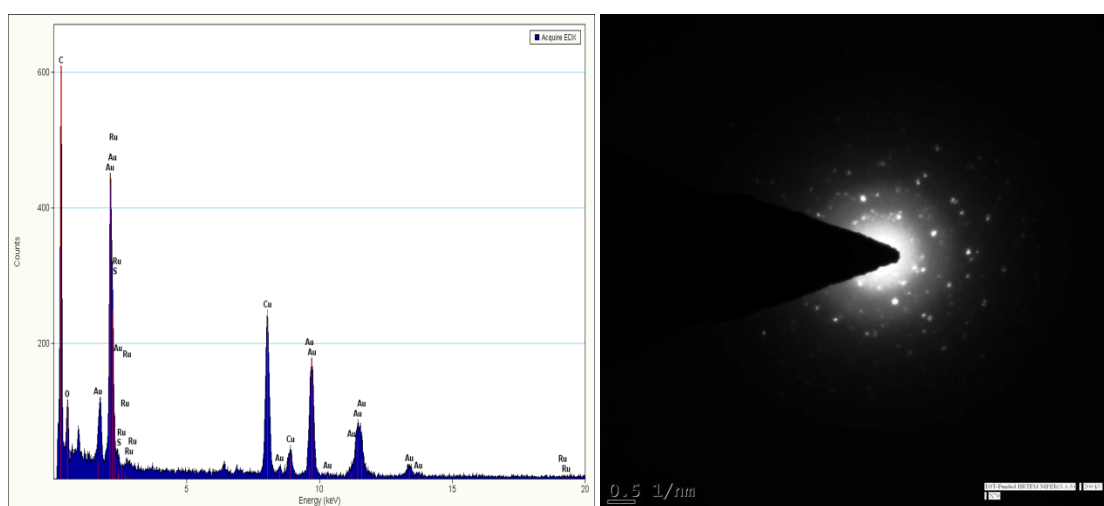


Figure S4. EDS and SAXD of complex 4-Au NCs

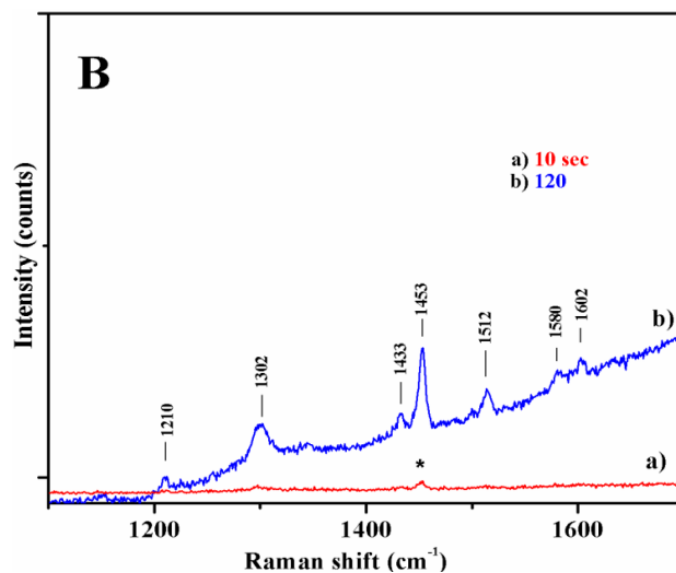


Figure S5. Surface enhanced Raman scattering signals of complex 1 @ $\lambda_{\text{exc}}=785$ nm.

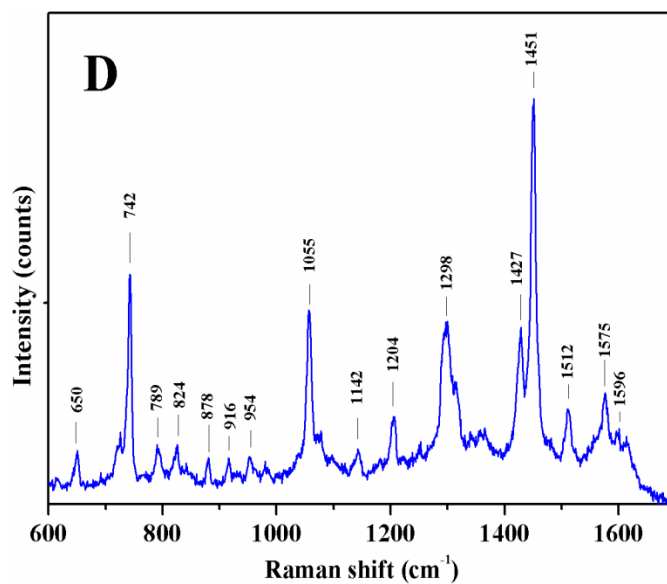


Figure S6. Surface enhanced Raman scattering signals of Au-Ru(1,10-phen)₂(IPBA)₂PF₆, 2a @ $\lambda_{\text{exc}}=785$ nm

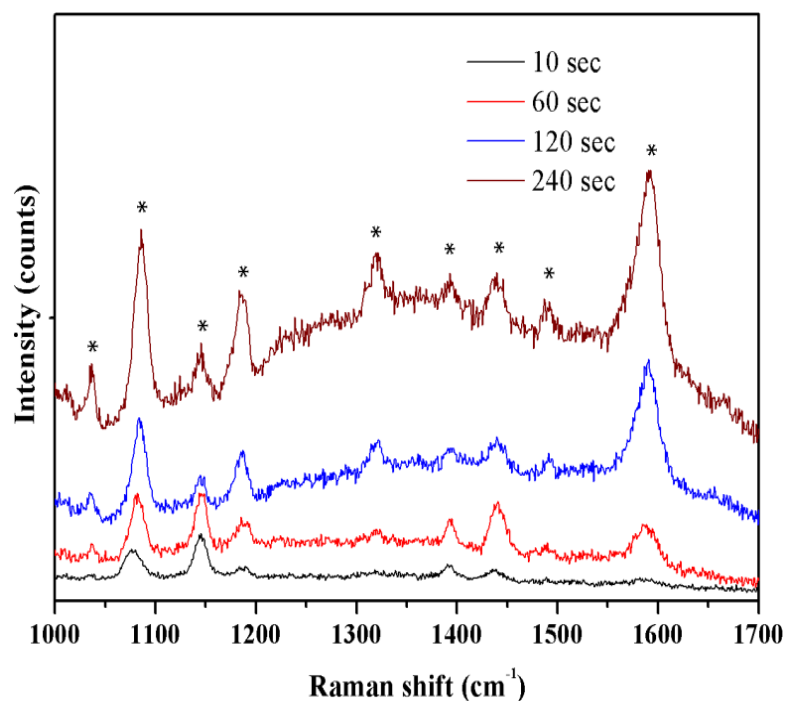


Figure S7. Surface enhanced Raman scattering signals of Au-Ru(1,10-phen)₂(4-ATP)₂ nanocomposite 4a @ $\lambda_{\text{exc}}=785$ nm