

## Supplementary Information



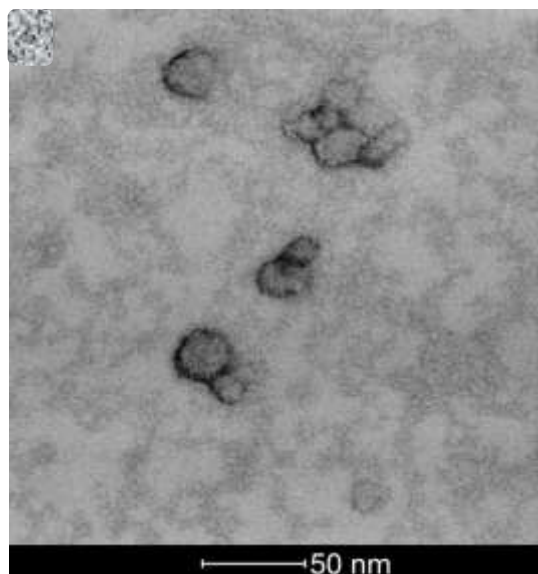
### Photochemical Synthesis of Ag and Au Nanoparticles Using a Thioxanthone Substituted Chitosan as Simultaneous Photoinitiator and Stabilizer

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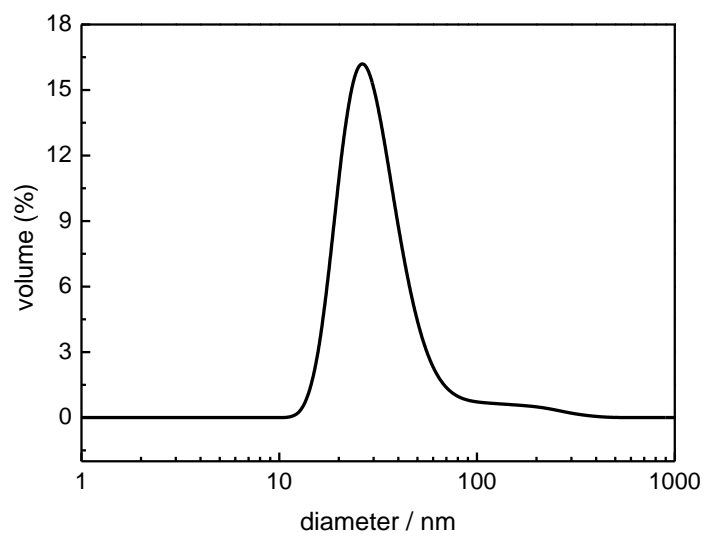
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**Figure S1.** Transmission electron microscopy (TEM) image of 10-oxo-10*H*-dibenzene thiopyran-3-4-dicarboximide chitosan (TXICh) post-stained with 2% phosphotungstic acid.



**Figure S2.** Particle size distribution of TXICh in aqueous solution in percentage of particle volume (dynamic light scattering, DLS).