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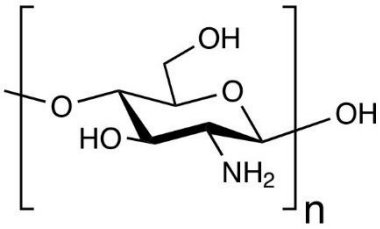
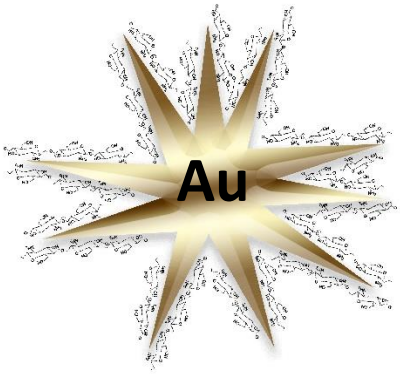
Gold nanoflowers Au_{640}, chitosan-coated

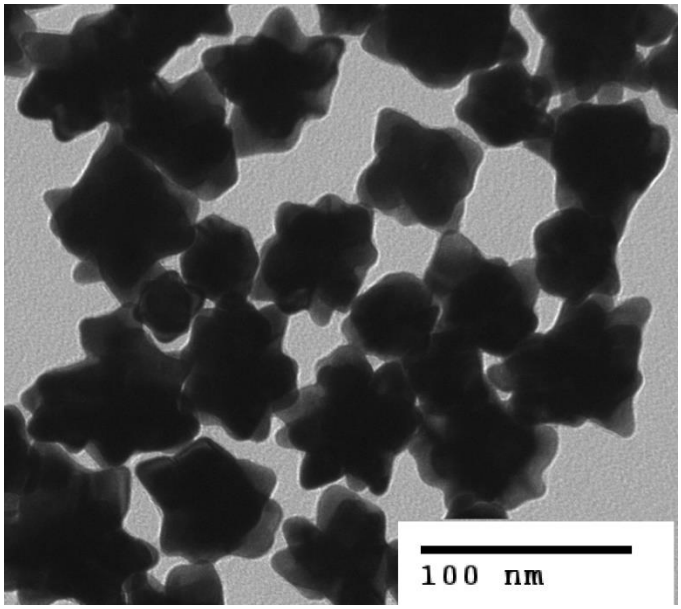
Chitosan 85% deacetylated
CAS 9012-76-4



Gold nanoflowers coated with chitosan



Diameter (TEM):	47.8 ± 8.0nm
Coefficient of polydispersity:	16.7 %
Mass of single particle:	6.71E-14 mg
Surface of single particle:	1.11E-11 cm**2
Particle concentration:	7.45E+11 particles/mL
Molar particles concentration:	1.24 nM
Mass of gold:	50 µg/ml
Surface area (TEM):	16.54 m^2/g
Particles surface charge:	positive
Gold purity:	99.99 %
pH of the solution:	7.0
Particle surface:	Chitosan
Solvent:	Milli-Q water (18.1 MΩ-cm)



Instrumentation used for characterization	
Diameter and size distribution:	Transmission Electron Microscope HITACHI H-7100
Mass concentration:	PerkinElmer NexION 2000P+ ICP-MS
Spectral properties:	Thermo Scientific Evolution 220 UV-Visible Spectrophotometer
Hydrodynamic Diameter and Zeta Potential:	Wyatt Mobius Zetasizer

Store at 4-25 °C away from light. DO NOT FREEZE
If precipitation occurs, shake the sample

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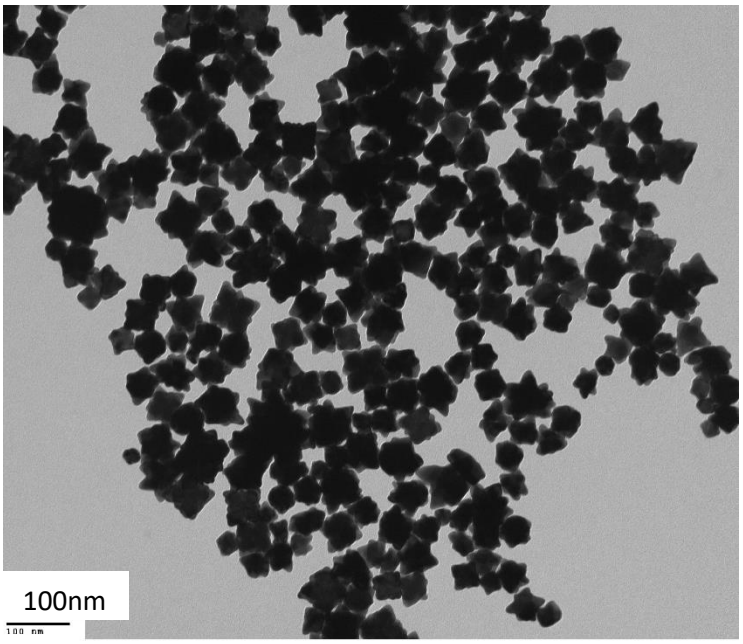
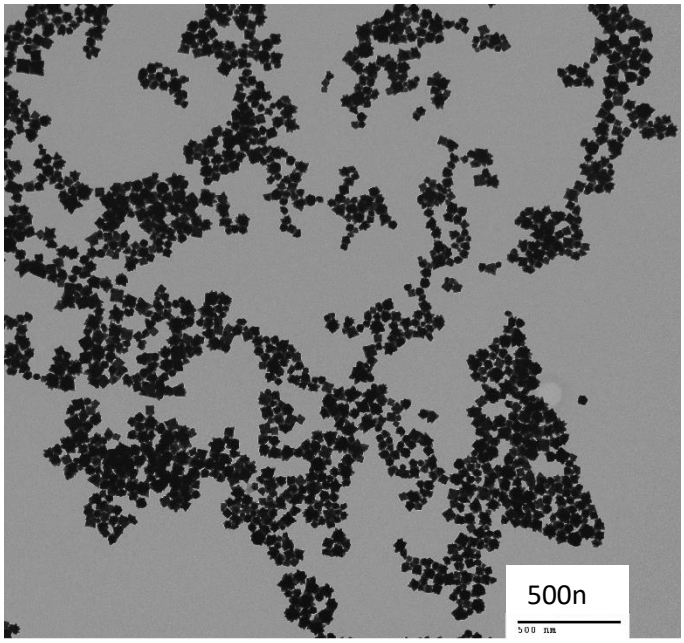
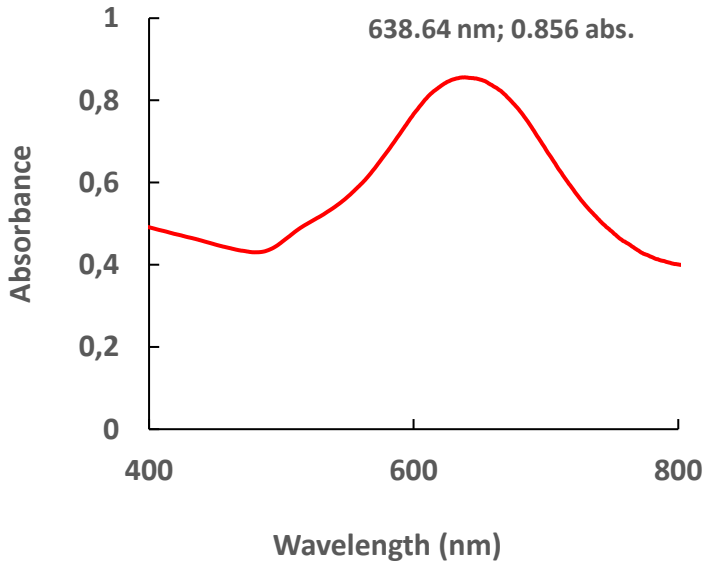


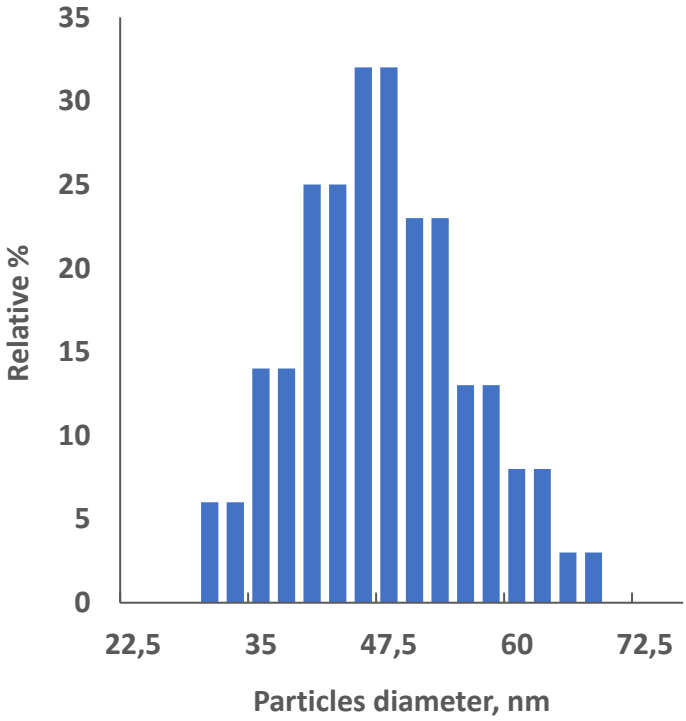


Optical Properties



Size Distribution

(core diameter)



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