

Special Issue

**GOLD NANOPARTICLE: GOLDEN PROSPECT FOR BASIC AND APPLIED
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AIM AND SCOPE

Gold nanoparticles are a dispersion of sub-micron sized gold particles in a fluid e.g. water, produced by using liquid chemical methods e.g. by reduction of chloroauric acid (H[AuCl₄]). They can be functionalized with diverse organic ligands to create organic-inorganic hybrids. Gold nanoparticles have emerged as an attractive candidate for research due to their unique optical-electronics properties based on their interaction with light which is strongly dictated by their environment, size and physical dimensions. Gold nanoparticles show surface plasmon resonance which is tunable by changing the size, shape, surface chemistry or aggregation state. The versatile surface chemistry of gold nanoparticles allows them to be coated with polymers, small molecules, and biological recognition molecules further enabling them to be used extensively in targeted drug delivery system, photodynamic therapy, imaging, biosensors and as a catalysts.

Keywords: *Gold nanoparticles, drug delivery system, photodynamic therapy*

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SCHEDULE

Manuscript submission deadline	31 July 2014
Peer Review Due	31 August 2014
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Final manuscripts due	30 November 2014

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