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Seeding Method for the Synthesis of Flower like Gold Nanoparticles and Nanowires in Pluronic P103 Micellar Phase as Soft Template

MANDEEP SINGH BAKSHI^{1*}, POONAM BHANDARI¹, AMAN KAURA¹,
GURINDER KAUR² and TARLOK SINGH BANIPAL³
¹Department of Chemistry, Guru Nanak Dev University, Amritsar 143005, Punjab, India.
²Department of Chemistry, University of Western Ontario, London, ON, Canada N6A 5A5.
³Department of Applied Chemistry, Guru Nanak Dev University, Amritsar 143005, Punjab, India.

Abstract Seed-growth method has been applied to synthesize flower like gold nanoparticles capped with pluronic P103 which on subsequent growth steps eventually lead to the formation of nanowires of variable thickness. During this reaction, a simultaneous selfaggregation of P103 micelles into liquid crystalline tubes has also been achieved which served as soft template for the further nucleation of gold nanoparticles.

Keywords : Soft templates, triblock copolymer, liquid crystalline phase, flower like gold nanoparticles.
