

Synthesis of Gold Nanoparticles Within a Supramolecular Gel-Phase Network

Christine S. Love,^a Victor Chechik,^{*a} David K. Smith,^{*a} Karen Wilson,^a Ian Ashworth^b
and Colin Brennan^b

Supplementary Information

TEM Analysis of Nanoparticle Diameters

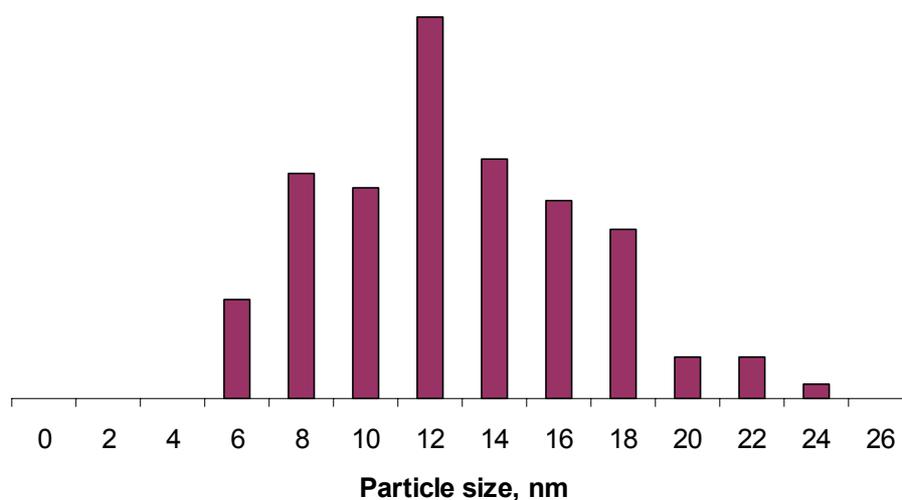


Figure 1 (Supplementary): Histogram of nanoparticle sizes. Total number of particles sampled = 117. Mean particle size = 13 nm.

XPS Analysis

XPS spectra were recorded on a Kratos AXIS HSi instrument equipped with a Mg K_{α} X-Ray source (1253.6 eV) and a charge neutraliser. Spectra were recorded at normal emission using a 20 eV analyser pass energy and 144W X-Ray power. Two point energy scale referencing was made using adventitious C (284.5 eV) and valence band energy corrections.

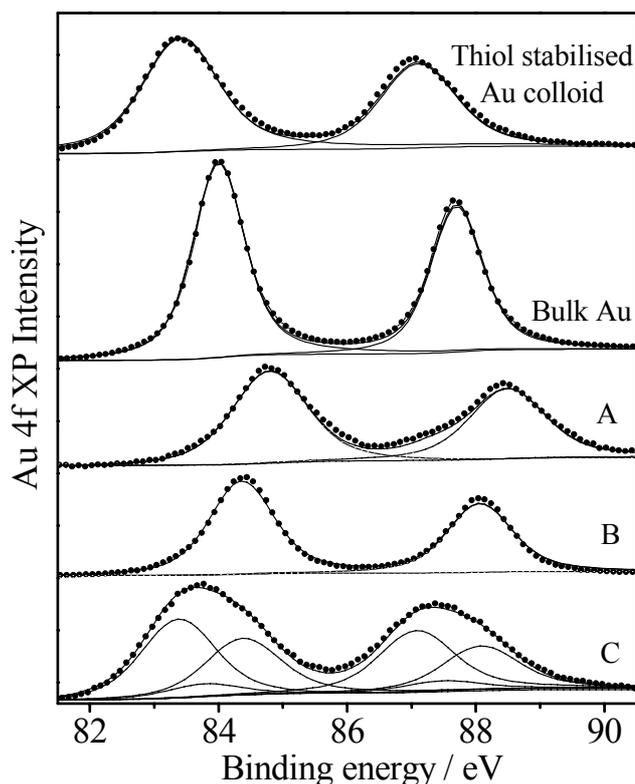


Figure 2 (Supplementary): Au 4f XPS spectra for bulk and colloidal Au reference samples and gel stabilised Au nanoparticles (A) Au(III), (B) Au (I) following initial UV irradiation, (C) Au nanoparticles following extended irradiation.