

Supporting Material: Biphasic synthesis of Au@SiO₂ core-shell particles with stepwise ligand exchange

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This document contains the dynamic light scattering (DLS) data that we used to analyze the dispersion state of the core-shell-particles. DLS was performed after each growth step, the autocorrelation functions (Fig. 1) were then analyzed using a regularized reverse Laplace-transform algorithm developed by Provencher [1]. Figure 2 shows the particle size distributions in terms of mass percentage.

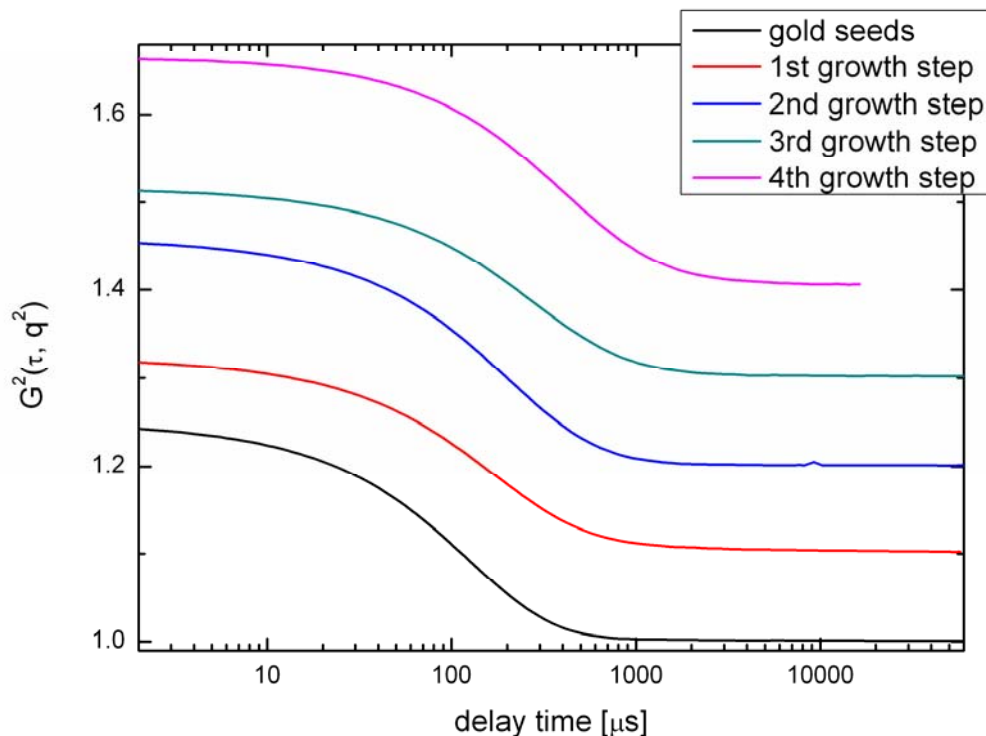


Figure 1: Intensity autocorrelation functions of the core-shell particles as measured by DLS. The graphs are shifted for clarity.

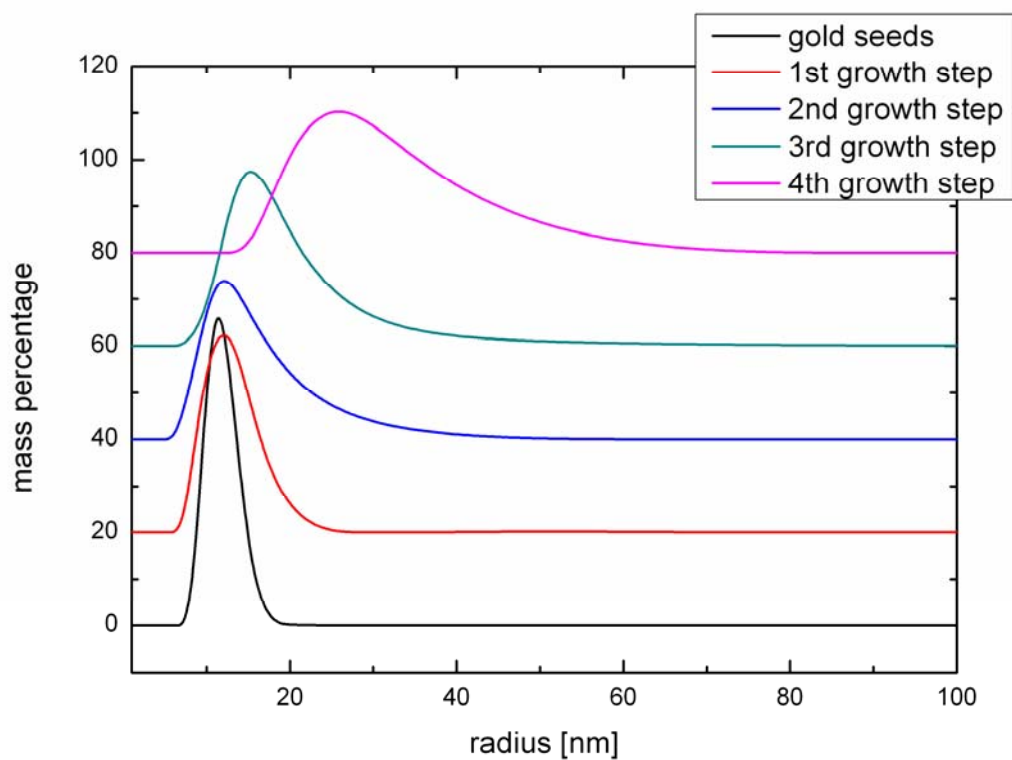


Figure 2: Particle size distributed calculated via regularized fits to the autocorrelation functions (see text). The graphs are shifted for clarity, all base lines are at 0 % mass.

[1] Provencher, S. W. Computer Physics Communications. 1982, 27, 213-227