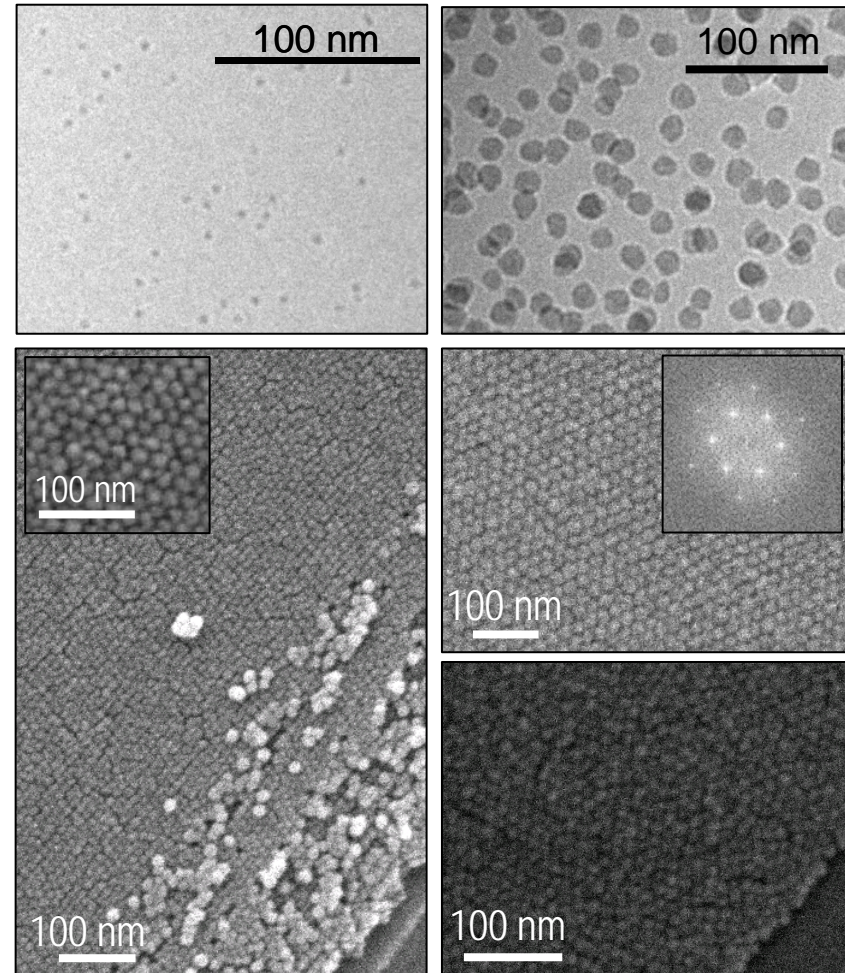
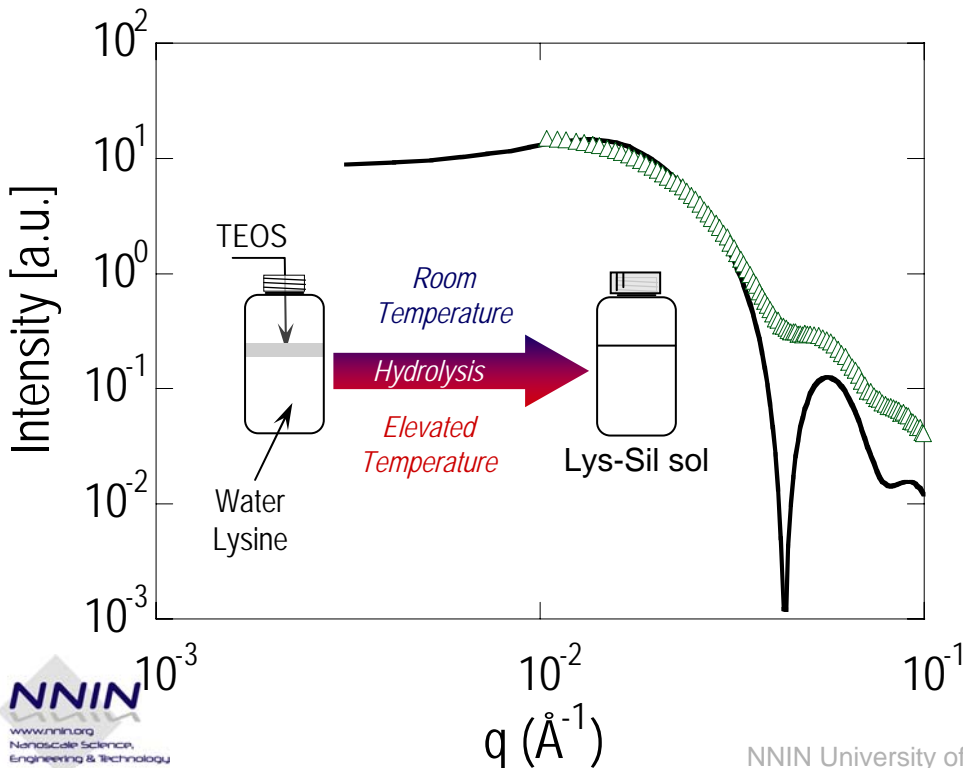


Lysine-Silica Nanoparticles: Size Control and Assembly

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NNIN Facility utilized: Characterization Facility

- Facile, benign formation of silica nanoparticles in aqueous lysine solutions
 - ◆ Highly *monodisperse, stable particles* produced
 - ◆ Range of handles identified for tuning particle size between 5 and 25 nm
 - ◆ *Ordered multi- and near-monolayer* films realized
 - ◆ Clear, *porous gel* formation triggered by titration with peptide oligomer (di-lysine)



● Publications

- ◆ Davis, Snyder, Krohn, Tsapatsis, *Chem. Mater.* 18(25), 2006.
- ◆ Snyder, Lee, Davis, Scriven, Tsapatsis, *Langmuir*, 23(20), 2007.