



Method tags: Characterization/Experiment,  
Processing/Nanofabrication

Scientific tags: Materials science, Epitaxy, Nanosafety, Electron  
microscopy, Synchrotron radiation/MAX IV

Supervisor: Maria Messing, [maria.messing@ftf.lth.se](mailto:maria.messing@ftf.lth.se)

Website: <https://portal.research.lu.se/sv/persons/maria-messing>

Maria Messing's research group work on generation and characterization of engineered nanoparticles and their applications. New nanoparticle materials are mainly generated by aerosol methods and electron microscopy, XRD and XPS are common methods of characterization. Applications of the nanoparticles mainly include catalysis, nanowire growth and magnetic studies. The group also work on how to handle nanoparticles in a safe and sustainable manner and use engineered nanoparticles as test systems for research on nano safety.