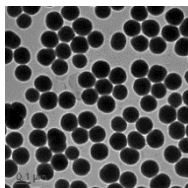
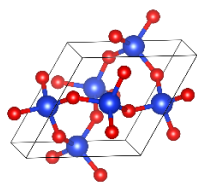


Lab Course Announcement

2023



Lab Course Composite and Hybrid Materials

(Verbundpraktikum – Komposite)

Prof. Dr. Guido Kickelbick

Duration: 30 h practical work + 30 h preparation of presentation and report (2 CP)

Dates:

21.09.2023	Introduction + Safety course (09:00)
04.10. –27.10.2023	Laboratory work (6 appointed days) + Presentation
06.11.2023	Report deadline

Content:

The lab course focuses on the synthesis and surface-functionalization of nanocrystalline materials and nanoparticles and their incorporation into polymeric matrices. The particles and the final nanocomposites are characterized with a variety of methods including X-ray powder diffraction, dynamic light scattering, UV/Vis spectroscopy and many others. The goal of the course is to evaluate different synthesis routes and determine the major parameters in the synthesis of nanoparticles, nanocrystalline materials and homogenous nanocomposites. The synergistic properties of these target materials are compared to the precursors.

Information:

Preceding completion of the course "*Hybrid Materials and Nano-Composites (HybMat)*" is not necessary. A written report and presentation (German or English) are required to complete the course. A laboratory coat and protection goggles are needed.

Registration:

Registration is possible by Mail to Guido Kickelbick (guido.kickelbick@uni-saarland.de) until **18.09.2023**.

Specify the days or specific dates where you are not available in the afternoon (e.g. lectures)!