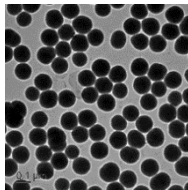
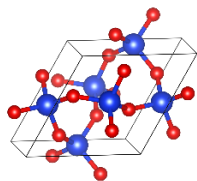


## Lab Course Announcement 2024



### Lab Course Composite and Hybrid Materials

(Verbundpraktikum – Komposite)

Optional Seminar **Aspects of Chemical Materials Design**  
included

Prof. Dr. Guido Kickelbick

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

Optional: 30 h seminar Aspects of Chemical Materials Design (1,5 CP)

Dates: The lab course will take place in September and October 2024 on individually arranged dates

#### 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 Nanocomposites (HyMat)*" 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 e-mail to Susanne Limbach ([susanne.limbach@uni-saarland.de](mailto:susanne.limbach@uni-saarland.de)) until **Friday 19.07.2024**. We will arrange a first meeting for organizational questions in the week from **22.07. to 26.07.2024**.