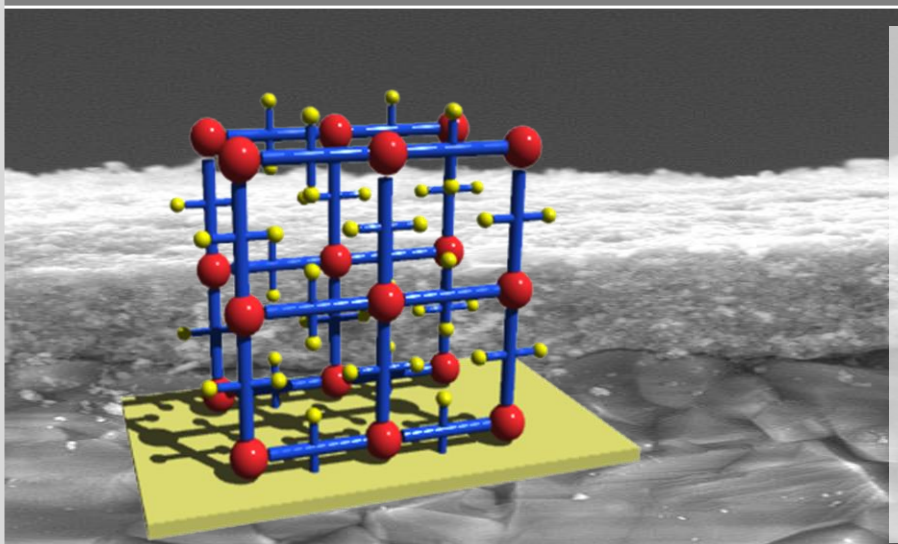
Preparation and Characterization of Organic Thin Films

Karlsruher Institut für Technologie

When: **Mo., 26.7.2021 – Fr., 30.7.2021, 9:15 a.m. – 4:00 p.m. (daily)**
Where: **9:15 a.m. – 12.30 p.m. CN / Building 330 / Room 356 (theoretical part)**
1:30 p.m. – 4:00 p.m. CN / Building 330 /Room 356 (practical part)

The course is designed for advanced students with a Bachelor in chemistry. Different methods for the preparation and structuring of organic thin films on metal and oxidic surfaces as well as different techniques for the (site-selective) surface characterization will be discussed. The theoretical introduction in the morning will be followed by a practical part in the afternoon. The course will be given in English language.

Please register via ILIAS (event number 5250)
Contact: hartmut.gliemann@kit.edu



Topics

- Self-Assembled Monolayers (SAMs)
- Surface-Anchored Metal-Organic Frameworks (SURMOFs)
- Time-of-Flight Secondary Ion Mass Spectrometry (ToF-SIMS)
- Atomic Force Microscopy (AFM)
- (FT-)IR and Raman Spectroscopy
- X-Ray Diffractometry (XRD)
- X-Ray Photoelectron Spectroscopy (XPS)
- Quartz Crystal Micro Balance (QCM) gravimetry
- Ellipsometry