

Functional Thin Films



In research and education, we focus on the design and synthesis of functional materials and materials systems using plasma-assisted vapor deposition methods, on advanced ex- and in-situ characterization methods, and on materials testing under extreme conditions. We drive materials based innovations for a sustainable future!

Chair of Functional Materials and Materials Systems



Christian Mitterer



Nina Schalk

Materials characterization and testing



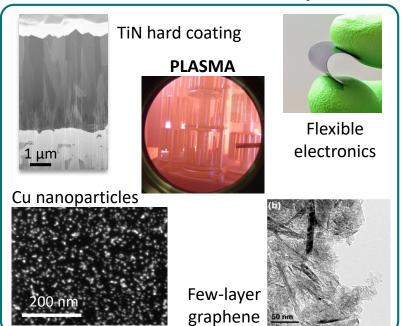




Rostislav Daniel Michael Tkadletz

Verena
Maier-Kiener

Plasma-assisted materials synthesis



X-ray diffraction





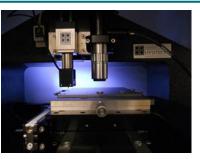
Atom probe tomography



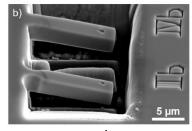
Laser confocal microscopy



Raman spectroscopy



Nanoindentation



Micro-/nanomechanical testing

- Tribological coatings for tools and components
- Thin films for microelectronics and displays
- Surface functionalization for energy, environmental and medical applications