

## Biosketch - Univ.-Prof.in Dr.in Sabine Hild

### Current working address and contact information

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Google Scholar: [https://scholar.google.at/citations?user=mH\\_I4WsAAAAJ&hl=de&oi=ao](https://scholar.google.at/citations?user=mH_I4WsAAAAJ&hl=de&oi=ao)

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### **Scientific career**

since Oct 2008	<b>Professor and Head of Institute</b> , Institute of Polymer Science, Johannes Kepler University, Linz, Austria
May 2008- Sep 2008	<b>Group leader</b> „Biological Materials”, Max-Planck-Institute for Iron Research, Düsseldorf, Germany
May 2007	<b>Habilitation in Macromolecular Physics</b> , (Department of Experimental Physics University of Ulm, Germany)
Aug 1995 - Oct 2007	<b>Senior scientist</b> , Department of Experimental Physics and at the Central Facility of Electron microscopy, University of Ulm, Germany
Nov 1993 - Apr 1995	<b>Senior scientist (Postdoc)</b> , Institut of Physics, University of Basel, Basel, Switzerland
Jan 1993	Graduation ( <b>Doctorate in Physical Chemistry</b> , Technical University of Clausthal, Germany)
Oct 1988	<b>Diploma in Physical Chemistry</b> , Technical University of Clausthal, Germany
Oct 1983 - Oct 1987	Studies in Chemistry, Technical University of Clausthal, Germany

### **Main areas of research**

- High resolution physical-chemical characterization of synthetic and biological polymer-based materials by confocal Raman imaging (CRI) and scanning force microscopy (SFM) techniques
  - Development of SFM and CRI methods to study structure formation in (bio)polymeric materials on the nm-scale under the influence of external load e.g. stress, heat, humidity...
  - Allocation of organic and inorganic components in calcified tissue of crustaceans or arterial tissue (heart, brain)
- Functional polymer surfaces and interfaces
  - Development of SFM methods for the investigation of structural and environmental (heat, light, humidity..) induced changes in chemical, thermal, mechanical, electrical properties of polymer surfaces
  - Non-destructive characterization of polymer-polymer or polymer-metal interfaces by CRI enable to a to enlighten influence of external load (stress, humidity, ...) on the interface stability of polymer-polymer or polymer-metal composites