Prof. Dr. Andreas Schnepf

Curriculum Vitae

- **1990 – 1996**: Study of chemistry at the University of Karlsruhe (TH).
- **12/1996:** Diploma thesis in organic chemistry with Prof. Dr. H.-J. Knölker: "Mechanistical studies about the azadiene catalysed complexation of dienes"
- **05/2000**: Doctoral thesis in inorganic chemistry with Prof. Dr. H. Schnöckel: "Reactions with Gallium(I)bromide: Polyhedra and metalloid clusters in gallium chemistry"
- **2000 – 2002:** Postdoc with Prof. Dr. H. Schnöckel at the institute of inorganic chemistry, University of Karlsruhe (Research stays at the research facilities in Hamburg (DESY Deutsches Elektronen Synchrotron) and Villingen (PSI: Paul Scherrer Institute)
- **2002 – 2006:** Habilitation at the Institute of inorganic chemistry at the University of Karlsruhe: „Preparation of Ge(I) halides at 1600°C und their application in synthetic chemistry – a novel approach to metalloid clusters of germanium.
- **2006 – 2010:** Privatdozent at the University of Karlsruhe
- **2010 – 2012:** W2-Professor (Inorganic Chemistry) University Duisburg-Essen.
- **2013 – now:** W3-Professor (Functional Nanostructured Materials) University Tübingen.

Honors

- **04/1989**: Bookprice of the Fonds der chemischen Industrie
- **10/2005 – 09/2007**: Research grant of the DFG (German Science Foundation).
- **10/2007 – 09/2010**: Heisenberg grant of the DFG (German Science Foundation).

RESEARCH INTEREST

- Synthesis of high reactive gas phase molecules (up to 2000°C) at high vacuum conditions => Access to preparative amounts of „outer-space-molecules“ via cryo-chemistry (preparative co-condensation technique).
- Synthetic chemistry with “outer-space-molecules” at lab scale
    - Synthesis and characterization of metalloid group 14 clusters, especially of germanium and tin.
    - Synthesis and characterization of subvalent halides of the heavier group 14 elements silicon, germanium and tin.
- Synthesis of nanostructured materials of the heavier group 14 elements
- Synthesis of metalloid clusters of the group 11 elements (Au, Ag, Cu) and investigation of the chemical, optical and electrical properties of these clusters
    - Application of metalloid clusters for build-up reactions to novel nanostructured materials.

Publications

More than 130 publications enclosing peer reviewed original papers, reviews and book contributions. More than 3300 citations in web of science, h index=32 (see list of publications: https://uni-tuebingen.de/fakultaeten/mathematisch-naturwissenschaftliche-fakultaet/fachbereiche/chemie/institute/anorganische-chemie/arbeitsgruppen/ag-schnepf/publikationen-1/2022/