

Dr. Volker Strauss

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Research interests

My research interests include several disciplines of nanoscience spanning from the understanding of fundamental physical and chemical molecular processes to the construction and optimization of complex assemblies and molecular devices. In particular, I am interested in:

- Electronic and energy conversion materials
- Functional nanocomposites
- Carbon allotropes and π -conjugated materials
- Electronic and optoelectronic devices

Work experience in molecular nanoscience

- since 10/2018** Group Leader at the MAX PLANCK INSTITUTE OF COLLOIDS AND INTERFACES (Prof. Antonietti)
- 10/2016 – 9/2018** Post-doctoral scholar at the UNIVERSITY OF CALIFORNIA, LOS ANGELES (Prof. Kaner)
- 4/2012 – 9/2016** Research assistant at the UNIVERSITY OF ERLANGEN-NÜRNBERG (Prof. Guldi)
- 5/2009 – 8/2009** Research internship at CLEMSON UNIVERSITY/USA (Prof. Echegoyen)

University degrees

- 4/2012 – 4/2016** Dissertation at the UNIVERSITY OF ERLANGEN-NÜRNBERG.
Doctoral thesis: "Synthesis and Characterization of highly Functional Supramolecular Assemblies based on Carbon Nanostructures"
- 10/2010 – 3/2012** Master studies in molecular sciences at the UNIVERSITY OF ERLANGEN-NÜRNBERG.
Master thesis: "Implementation of Carbon Nanotube Peapods in Electron Transfer Systems"
- 10/2007 – 9/2010** Bachelor studies in molecular sciences at the UNIVERSITY OF ERLANGEN-NÜRNBERG.
Bachelor thesis: "Supramolecular Interactions of Metallic Nitride Endohedral Fullerenes with Bis-Porphyrin Tweezers"

Awards

- 2017** German Dissertation Award (1st in natural sciences)
- 2017** Staedtler Award for outstanding university research
- 2013** Project Award of the GSMS winterschool
- 2007** GDCh-Award for the best chemistry exam

Scholarships / Fellowships

- 10/2017 – 9/2018** Research scholarship of the German Research Foundation (DFG) for "Preparation and Modification of Synthetic Graphene from Biomolecule-based Carbon Nanodots"
- 10/2016 – 9/2017** Research scholarship of the German Research Foundation (DFG) for "Testing Carbon-based Dots as Electroactive Components in Charge-storage Molecular-scale Electronics"
- since 12/2015** Member of the Next-Generation Advisory Board for CHEM (CellPress)
- 5/2013 – 4/2015** Research scholarship of the Bavarian state government (UNIVERSITÄT BAYERN E.V.) for the "Size-selective Investigation of Electron Transfer Properties of Carbon Nano-Materials"
- 4/2012 – 4/2016** Fellow and stipendiary of the GRADUATE SCHOOL OF MOLECULAR SCIENCE (GSMS) at the University of Erlangen-Nürnberg