Staff

Groupleader

Gölzhäuser, Prof. Dr. Armin

Armin Gölzhäuser received his Ph.D. in 1993 from the University of Heidelberg. He then was a Feodor Lynen Fellow at the University of Illinois at Urbana-Champaign. In 2001, he received his habilitation (Heidelberg) and in 2003 he became a professor of physical chemistry at Marburg University. In the same year, he became a professor of physics at Bielefeld University. His research is focused on the fabrication, characterization and application of low dimensional nanostructures and functional materials, and he has a strong interest in the technological application of nanostructures. He is a founder of the Bielefeld Institute for Nanoscience (BINAS) and he is Associate Editor of the Beilstein Journal of Nanotechnology.

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Zhang, Dr. Xianghui

Xianghui Zhang obtained his B.Sc. from Xi’an Jiaotong University (2002), Shaanxi, China. He received his M.Sc. from Peking University (2005) at Beijing under the guidance of Prof. Dapeng Yu and then worked as a research engineer in Beijing Hannayuan Nanotechnology Co. Ltd. He obtained his Ph.D. from the University of Bielefeld in 2010 under the guidance of Prof. Armin Gölzhäuser. He is currently working on the fabrication of graphene and carbon nanomembranes for nanofiltration applications. His research interests also include nanomechanics, carbon-based nanocapacitors and nanolithography.

Frese, Dr. Natalie

Natalie Frese joined the research group in 2014 and finished her PhD in June 2019. Her current research focuses on fabrication and functionalization of carbon nano membranes, helium ion microscopy of insulating materials and on the synthesis and analysis of carbon nanofoam. She is also a member of the nanophysics group of Prof. Sattler at University of Hawaii at Manoa.

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Yang, Dr. Yang

Yang Yang joined the group of Prof. Armin Gölzhäuser in October 2014 and obtained her Ph.D. in May 2019. In 2019, she received a Marie Sklodowska-Curie Individual Fellowship for a research stay at Imperial College London. Her research interests are nanofluidics, molecular separation, 2D materials and molecular self-assembly.

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Bachelor, Master and PhD-Students

Dalpke, M.Sc. Raphael

Raphael Dalpke is a PhD student who joined the group in October 2016. He obtained his bachelor as well as his master degree in Chemistry from Bielefeld University. His bachelor thesis treated different influences on the thermoresponsive behaviour of core-shell microgels. His master thesis on the other hand was concerned with the application of a gas chromatograph in order to analyse the online separation of isomers in combustion processes. His current research focuses on gas permeation through carbon nanomembranes. Within this topic he is working on the DFG-founded project "Carbon nanomembranes as scaffold for studying nanoscale heterogeneity and vectorial functionality of protein assemblies" in cooperation with the group of Prof. Dr. Dietz, Biochemistry and Physiology of Plants, Bielefeld University.

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Emmrich, M.Sc. Daniel

Daniel Emmrich is a PhD student working on focussed ion beam lithography with helium and other ion species. The main subject of his work is the modification of 2D materials with ion beams. Daniel did his Bachelor thesis on the preparation and characterization (AFM, HIM, XPS) of chemically structured SAMs which were prepared on substrate as well as a freestanding 2D membrane. In his Master thesis he used the Helium Ion Microscope (HIM) for nanopore milling and for high resolution microscopy.

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Kaiser, B.Sc. Christopher David

David Kaiser finished his bachelor thesis in the field of halogenated biphenyl SAMs and CNMS. He is currently working as a student research assistant.

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Korzetz, M.Sc. Riko

Riko Korzet is a PhD student working on gas permeation through carbon nanomembranes.
Le Hoang, M.Sc. Linh

Le Hoang Linh joined the group in 2017 as a PhD student. She focuses on Carbon Nanomembranes for nanofiltration. She obtained her Master degree in Materials Science in 2016 from Japan Advanced Institute of Science and Technology and she previously studied the fabrication of graphene membranes for liquid filtration.

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Marschewski, M.Sc. Emanuel

Emanuel Marschewski joined the group in July 2012. His research focuses on the dielectric characterization of SAMs and CNMs using conducting AFM and lithographically defined electrodes. During his bachelor thesis he examined the influence of an anisotropic magnetization manifested in a g-tensor by exact diagonalization of a few particle Hamiltonian. For his master thesis he developed a theoretical model describing the influence of the incident ray parameters to the coupling efficiency into a gas-filled hollow fibre for supercontinuum generation. In addition he developed a point stabilization using a steerable piezo driven mirror.

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**Florian Paneff, M.Sc.**  
Florian Paneff is a PhD student who joined the group in 2015. He is working on bulge tests of CNM and graphene and on the development of gas-tight films for food packaging.

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**Yubo Qi, M.Sc.**  
Yubo Qi is a PhD student who joined the group in February 2019. He is working on Carbon Nanomembranes for Nanofiltration. He obtained his Master degree of Materials Science and Engineering from Tianjin Polytechnic University (Tianjin, China) in June 2018, where he worked on electrocatalytic membrane reactor for organic systems.  
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**Patrick Stohmann, M.Sc.**  
Patrick Stohmann is a PhD student investigating the structure of SAMs on gold with scanning tunneling microscopy. He joined this group in 2014. He received his Master degree from Bielefeld University under the guidance of Prof. Andreas Hütten in the field of applied microfluidics.  
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Westphal, M.Sc. Michael

Micheal Westphal is currently working on his PhD about "Characterization, modification and fabrication of dielectric thin-film systems". Further investigations include the helium ion microscope to analyze samples on the nanometer scale.

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Wilke, B.Sc. Timo

Timo Wilke is a Master student working on gas and vapor permeation through carbon nanomembranes.

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