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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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Koch, Dr. Sascha

Sascha Koch wrote his diploma thesis about Scanning Tunneling Microscopy of organic molecules in the group of Prof. Dr. Rolf Möller at the University of Duisburg-Essen and obtained his diploma in physics in 2007. From 2008 to 2011 he did his PhD thesis in the group of Prof. Dr. Ernst Meyer at the University of Basel, investigating the super structures of graphene and hexagonal boron nitride formed on transient metals by means of AFM and KPFM. After further 8 month as a Post-Doc in that group, he worked 3 years for
Sascha Koch wrote his diploma thesis about Scanning Tunneling Microscopy of organic molecules in the group of Prof. Dr. Rolf Möller at the University of Duisburg-Essen and obtained his diploma in physics in 2007. From 2008 to 2011 he did his PhD thesis in the group of Prof. Dr. Ernst Meyer at the University of Basel, investigating the superstructures of graphene and hexagonal boron nitride formed on transient metals by means of AFM and KPFM. After further 8 month as a Post-Doc in that group, he worked 3 years for Endress+Hauser GmbH+Co.KG in Maulburg as a Technology Specialist in the section of ceramic pressure sensors. Since November 2015 he continues his scientific work in the group of Prof. Dr. Armin Gölzhäuser in the field of 2D materials and Nanomembranes.

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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.

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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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Frese, M.Sc. Natalie

Natalie Frese is a PhD student since 2014. She joined the group in 2013 and finished her master thesis about "Helium Ion Microscopy of Biological Cells" in 2014. 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 nano foam. She is also a member of the nanophysics group of Prof. Sattler at University of Hawaii at Manoa.

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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, B.Sc. Riko

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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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Neumann, M.Sc. Christof
M. Sc. Christof Neumann joined the group in 2012 and finished his master thesis about mechanical characterization of different carbon nanomembranes in 2014. Now he is a PhD student working on heterostructures of CNMs and graphene.
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Paneff, M.Sc. Florian
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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Stohmann, M.Sc. Patrick
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, B.Sc. Michael

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Wilke, B.Sc. Timo

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Yang, M.Sc. Yang

Yang Yang is a PhD student working on Carbon Nanomembranes for Nanofiltration. She joined this group since October 2014. She obtained her Master degree of Materials Science and Engineering from Tianjin Polytechnic University (Tianjin, China) in March 2011, where she worked on electrocatalytic membrane reactor for water purification.
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