

Dr. Sascha Sadewasser

Sascha Sadewasser holds a Diploma (1995) in Physics from the RWTH Aachen, Germany and a PhD (1999) from the Washington University St. Louis, MO, USA. For both degrees he worked on high temperature superconductors. From 1999 to 2003 he was a post-doctoral researcher at the Hahn-Meitner Institute Berlin, working on the nanoscale characterization of semiconductor materials for thin film solar cells using scanning probe microscopy methods. As a Ramón y Cajal scientist he joined the Centro Nacional de Microelectónica in Barcelona, Spain from 2003 to 2004, where he worked with nano- and micro-electromechanical systems. From 2005 until 2011 he was the group leader of the Nanoanalytics and Nanofabrication group at the Helmholtz-Zentrum Berlin, Germany and the deputy head (2008-2011) of the Department for Heterogeneous Materialsystems, working with scanning probe microscopy and the growth of nanostructured $\text{Cu}(\text{In,Ga})\text{Se}_2$ semiconductors for solar cell applications. In 2011 he obtained his Habilitation in Experimental Physics from the Free University of Berlin, Germany.

Since 2011 Sascha is the Principal Investigator of the Laboratory for Nanostructured Solar Cells at the International Iberian Nanotechnology Laboratory (INL) in Braga, Portugal. Sascha's research focuses on the development of nanostructures of chalcopyrite materials for the improvement of solar cells and the application of scanning probe microscopy to semiconductor and solar cell research. His work has provided important insights into the physics of grain boundaries in polycrystalline $\text{Cu}(\text{In,Ga})\text{Se}_2$ thin-film solar cells. Sascha has led several major competitive research projects funded by EU and national sources. He has published over 90 peer-reviewed papers, with over 1.900 citations and has an h-index of 25. He has published 5 book chapters and 1 book and has been granted 3 patents. He is also a member of several scientific committees and evaluation boards.