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ResearcherID: A-8860-2012

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Education:

10/1979 - 9/1984: University of Cologne, Germany; Physics Department

10/1984 - 12/1985: Diploma thesis, Institut für Grenzflächenforschung und

Vakuumphysik, Forschungszentrum Jülich, Germany

"Structure and Dynamics of the clean and adsorbate-covered

Cu(100) surface"

12/1985: Diploma in physics, grade: 1,0 (highest degree);

University of Cologne, Germany

1/1986 - 6/1988: Ph.D. thesis: Institut für Grenzflächenforschung und Vakuum-

physik, Forschungszentrum Jülich, Germany

"Relaxation and Reconstruction of metallic surfaces"

Thesis advisor: Prof. Dr. Harald Ibach

6/1988: Ph.D., summa cum laude (highest degree);

University of Aachen (RWTH), Germany

Professional career:

1/1986 - 3/1988	Research Assistent, IGV, Forschungszentrum Jülich, Germany
since 4/1988	Staff Scientist, Institute for Interface Science, Forschungszentrum Jülich, Germany
7/1990 - 1/1991	Visiting scientist, Lawrence Berkeley Laboratory, Berkeley, CA, USA
since 10/1991	Scientist within the Fiebiger program at Research Center Jülich
2/1994	"venia legendi" (lecturer) for physics at RWTH Aachen, Germany
3/1995 - 4/1995	Visiting Professor at CRMC ² - CNRS Marseille, France
5/1995 - 10/1996	Feodor-Lynen Stipend of the Alexander von Humboldt-Foundation at the AT&T Bell Laboratories in Murray Hill, New Jersey, USA
11/1996 – 9/1997	Scientist, Research Center Jülich, Germany and Consultant, Bell Labs, Lucent Technologies, New Jersey, USA
since 10/1997	Full Professor for Physics of New Materials, I. Institute of Physics, RWTH University of Technology Aachen, Germany
10/2004-10/2006	Vice-Dean of the Faculty of Mathematics, Informatics and Natural Sciences, RWTH University of Technology Aachen, Germany
9/1998	Visiting Professor at Hangzhou University, Hangzhou, China
8/1999	Visiting Professor at Kenyatta University, Nairobi, Kenya
3-4, 7-8/2005	Visiting Professor at IBM Almaden Research Center, San Jose (CA), USA
9/2005	Visiting Professor at Zhejiang University, Hangzhou, China
10/2007	Visiting Professor at the Data Storage Institute (DSI), Singapure
9/2008	Visiting Professor at the Shanghai Institute of Microsystems and Information, Chinese Academy of Sciences
3/2010-6/2010	Visiting Professor, Geballe Laboratory for Advanced Materials, Global Climate and Energy Project, Stanford University, CA, USA
7/2010-9/2010	Visiting Professor, Lawrence Berkeley National Laboratory, Berkeley, CA, USA
10/2006-10/2008	Dean of the Faculty of Mathematics, Informatics and Natural Sciences, RWTH University of Technology Aachen, Germany
2009 - 2017	Speaker of the Strategy Board of RWTH Aachen University
10/2010	offer to become Director of Max Planck Institute (Düsseldorf) (declined)
since 7/2011:	Speaker of Collaborative Research Center (SFB 917): Nanoswitches: Resistively switching chalcogenides for future electronic devices

2014 Distinguished Professorship of RWTH Aachen for the project
Devising Treasure Maps for Thermoelectrics and Topological Insulators

since 2015 Member of the Selection Committee of the Alexander von Humboldt
Foundation

JARA-Director at Forschungszentrum Jülich (JARA-Institute Green-IT (PGI
10))

Visiting Professorship at Centre Interdisciplinaire de Marseilles (CINaM)

Awards and Honors:

4 und 9/2017

1988: Friedrich-Wilhelm Prize of RWTH Aachen for outstanding achievements within the Ph.D. thesis Heinz-Maier-Leibnitz Prize of the Ministry for Education and Science for 1993: "Chemistry and Physics of thin films and layer systems" 1995: Gaede-Prize of the German Vacuum Society 2007: Stanford R. Ovshinsky Prize 2009: Einstein Professorship of the Chinese Academy of Sciences 2011: Member of the Northrhine-Westphalian Academy of Sciences and Arts 2013: ERC Advanced Grant: Tuning Disorder in Chalcogenides to realize Advanced Functional Devices 2017: Member of acatec (German National Academy of Science and Engineering) 2018 **RWTH Fellow** 2018 Honorary professorship of Xi'an Jiaotong University 2019 MRS Fellow