CV of Prof. Dr. Dr. h.c. Roland Wiesendanger

Dept. of Physics, University of Hamburg
Date of birth: 05.10.1961
Place of birth: Basel, Switzerland
Nationality: German
Present position: University professor for experimental physics, University of Hamburg
Researcher-ID: P-9726-2016
URL for web site: www.nanoscience.de

Professional employment and academic education:

2003-2012	Managing Director of the Institute of Applied Physics, Hamburg University
2003-2004	Vice-Dean of the Department of Physics at Hamburg University
Since 1993	Full Professor (C4) at the University of Hamburg
1990-1992	Private Lecturer at the University of Basel, Switzerland
1990	Habilitation in Experimental Physics at the University of Basel
1987	PhD in Experimental Physics at the University of Basel (summa cum laude)
1986	Diploma in Exp. Physics at the University of Basel (with highest distinction)

Honours, distinctions, scholarships, awards:

2019	Honorary Medal „De Scientia et Humanitate Optime Meritis“ of the Czech Academy of Sciences
2019	Highly Cited Researcher Award by the Web of Science Group
2018	3rd Advanced Grant of the European Research Council (ERC)
2016	Julius Springer Prize for Applied Physics (together with Prof. Xiang Zhang)
2016	Elected Member of the European Academy of Sciences (EURASC)
2015	Hamburg Science Prize of the Hamburg Academy of Sciences
2015	International Fellow of the Surface Science Society of Japan (SSSJ)
2015	Doctor Honoris Causa of Poznan University of Technology, Poland
2014	Heinrich Rohrer Grand Medal and Prize
2013	2nd Advanced Grant of the European Research Council (ERC)
2013	Elected Member of the Polish Academy of Sciences
2012	Fellow of the American Vacuum Society (AVS)
2012	Honorary Professor of Harbin Institute of Technology, China
2010	Nanotechnology Recognition Award of the American Vacuum Society (AVS)
2008	1st Advanced Grant of the European Research Council (ERC)
2008	Elected Member of the German Academy of Technical Sciences “acatech”
2005	Elected Founder Member of the Hamburg Academy of Sciences
2003	Philip Morris Research Prize (together with Dr. Matthias Bode)
2000	Elected Member of the German Academy of Sciences “Leopoldina”
1999	Karl Heinz Beckurts Prize
1992	Max Auwärter Prize
1992	Gaede Prize of the German Vacuum Society

Named Lectures:

2019	Boltzmann Lecture (University of Vienna, Austria)
2019	Nicolás Cabrera Lecture (University of Madrid, Spain)
2015	cfaed Distinguished Lecture (TU Dresden, Germany)
2013	Distinguished iNANO Lecture (University of Aarhus, Denmark)
2011	Zernike Lecture (University of Groningen, The Netherlands)
2007	Kavli Lecture (Caltech, USA)
2001	Kronig Lecture (TU Delft, The Netherlands)
1998	Kepler Lecture (University of Tübingen, Germany)

CV of Prof. Dr. Dr. h.c. Roland Wiesendanger

Selected professional leadership and memberships:

2006-2017	Speaker and Scientific Coordinator of the DFG Collaborative Research Center SFB 668 "Magnetism from the Single Atom to the Nanostructure"
2013	Chairman of the Otto Stern Symposium in Hamburg with 7 Nobel Prize winners
2010-2013	Chairman of the International Committee for Nanoscience and Nanotechnology
2009-2012	Speaker and Scientific Coordinator of the Hamburg Cluster of Excellence "NANOSPINTRONICS"
Since 2001	Scientific Coordinator of the Interdisciplinary Nanoscience Center Hamburg
1998-2006	Coordinator of the German Center of Competence in Nanotechnology "Nanoanalytics" (1998-2003) and "HanseNanoTec" (2003-2006) funded by the German Ministry for Education and Research
1998-2001	Chairman of the Nanoscience and Technology Division of the International Union for Vacuum Science, Techniques and Applications (IUVSTA)
1996-2004	Chairman of the Nanoscience and Technology Division of the German Vacuum Society
2000	Chairman of the International NC-AFM and SPS Conferences in Hamburg
1997	Chairman of the International STM'97 Conference in Hamburg
Since 1993	Foundation and extension of the Microstructure Advanced Research Center Hamburg (MARCH)

Selected editorial activities:

2015-2016	Guest Editor of "New Journal of Physics", Institute of Physics Publishing: Special Issue "Magnetic Skyrmions" (with A. Fert, N. Nagaosa, M. Thorwart)
2006-2010	Member of the Editorial Board of "Nanotechnology", Institute of Physics Publ.
2005	Guest Editor of "Microscopy Research and Technique", Wiley: Special Issue on "Spin-Polarized Scanning Tunnelling Microscopy"
1997-present	Co-Editor of the Springer Series in NanoScience and Technology (with P. Avouris, B. Bhushan, D. Bimberg, K. von Klitzing, H. Sakaki)
1995-2000	Member of the Editorial Board of "Applied Physics A", Springer
1994	2 Special Issues on "Scanning Probe Methods in Materials Science", Applied Physics A, Springer

Since 1986:

- ca. 680 original research publications, incl. 10 Science, 4 Nature, 38 Nature sister journal articles (Nature Mater., Nature Nanotech., Nature Phys., Nature Commun.), 4 Science Adv., 76 PRL, 129 PRB, etc.
- ca. 30 book chapters,
- author of 2 textbooks,
- editor/co-editor of 9 books and 7 conference proceedings,
- ca. 20 public outreach articles,
- ca. 620 invited / plenary talks at international conferences, universities, research institutions, and industry laboratories,
- member of programme and advisory committees of 140 international conferences,
- member of numerous scientific societies (incl. APS, AVS, DPG, DVG, MRS),
- referee for 45 scientific journals,
- reviewer of proposals for 32 national and international funding agencies,
- **h-index: 104, i10-index: 485, citations: 49.000 (Google Scholar, 23.02.26),**
- **h-index: 83, citations: 31.000 (Web of Science, 23.02.26, excl. books & book chapters).**

CV of Prof. Dr. Dr. h.c. Roland Wiesendanger

Major contributions to early careers of excellent researchers / supervisory work:

Since 1993	Supervision of 140 Diploma/Master students, 100 PhD-students, 37 PostDocs, and 18 Research Assistants, 8 Habilitations.

Excellent young students and researchers from all over the world have been attracted since many years by Bachelor-level courses (based on my textbook "Einführung in die Struktur der Materie, publisher: Teubner-Verlag 2003, together with Johann Bienlein) as well as advanced Master-level courses in nanoscience (my textbook on Scanning Probe Microscopy and Spectroscopy, publisher: Cambridge University Press 1994, with more than 2.500 citations has become the most widely used and most frequently cited textbook in the field). Furthermore, I am frequently giving lectures at international Summer and Winter Schools all over the world, thereby attracting many bright international students to come to Hamburg University. In Hamburg, I have been involved in 4 Graduate Schools funded by the German Research Foundation (DFG). Currently, I am member of the DFG-funded Cluster of Excellence "Advanced Imaging of Matter" with an Integrated Graduate School. On average, about 30-35 researchers from at least 10 different countries are working in my group on advances in nanoscience and novel applications in nanotechnology, as well as their theoretical understanding.

Several young researchers from my group have received prestigious science awards, e.g. Udo Schwarz (Gaede Prize of the DVG 1999), Mathias Getzlaff (Max Auwärter Prize 2000), André Kubetzka (Prof. Dr. Jürgen Geiger Prize of the DPG 2002), Matthias Bode (Philip Morris Research Prize 2003 and IEEE Distinguished Lecturer Award 2007), Markus Morgenstern (Walter Schottky Prize of the DPG 2004), Oswald Pietzsch (German Nanoscience Prize 2004), Elena Vedmedenko (Hertha Sponer Prize of the DPG 2005), Stefan Heinze (Gaede Prize of the DVG 2006), Uwe Kaiser (ThyssenKrupp PhD Award 2009), Stefan Krause (Prof. Dr. Jürgen Geiger Prize 2010), Matthias Menzel (ECOSS Prize 2011), Lihui Zhou (Chinese Government Award for Outstanding PhD Students Abroad 2011), Anika Schlenhoff (ECOSS Prize 2012), Yasuo Yoshida (Young Scientist Award by the Physical Society of Japan 2012), Alexander Khajetoorians (Gerhard Ertl Young Investigator Award 2012 and Nicholas Kurti European Science Prize 2014), Kirsten von Bergmann (Gaede Prize of the DVG 2013), Yingshuang Fu (National Thousand Talent Program China 2014), Maciej Bazarnik (First degree individual scientific Award of the President of Poznan University of Technology 2015), Sujit Manna (INSPIRE Faculty Award of the Government of India 2016), Niklas Romming (Prof. Dr. Jürgen Geiger Prize of the DPG 2019) and Dr. Lucas Schneider (Heinz-Bethge-Prize for Materials Science 2022 and Prof. Dr. Jürgen Geiger Prize of the DPG 2024).

24 former group members (listed below in alphabetical order) have already become professors all over the world:

Makoto Ashino (Kanazawa Institute of Technology, Japan), Jessica Bickel (Cleveland State University, USA), Matthias Bode (University of Würzburg, Germany), Yingshuang Fu (Huazhong University of Science and Technology, China), Mathias Getzlaff (University of Düsseldorf, Germany), Katsushi Hashimoto (Tohoku University, Sendai, Japan), Stefan Heinze (University of Kiel, Germany), Germar Hoffmann (National Tsing Hua University, Hsinchu, Taiwan), Pin-Jui Hsu (National Tsing Hua University, Hsinchu, Taiwan), Alexander Khajetoorians (Nijmegen, The Netherlands), Roberto Lo Conte (University of Groningen, The Netherlands), Sujit Manna (Indian Institute of Technology Delhi), Giuseppe Maruccio (University of Salento, Lecce, Italy), Tomohiro Matsui (University of Tokyo, Japan), Markus Morgenstern (RWTH Aachen, Germany), Alexandra Palacio-Morales (University Paris-Sud, France), Shuheng Pan (Houston Center for Superconductivity, USA), Anika Schlenhoff (University of Münster, Germany), Udo Schwarz (Yale University, USA), David Serrate (University of Zaragoza, Spain), Nobuki Tezuka (Tohoku University, Sendai, Japan), Dongfei Wang (Beijing Institute of Technology), Shiro Yamazaki (Tokyo Institute of Technology, Japan), Yasuo Yoshida (Kanazawa Institute of Technology, Japan).