

# Curriculum Vitae

## Personal Data:

Name: Prof. Dr. Ulrich Höfer  
Born: 7 July 1957,  
Zusmarshausen/Augsburg, Germany

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Expertise: Experimental physics, laser spectroscopy of surfaces and interfaces, ultrafast electron dynamics, adsorption on semiconductor surfaces



## University Education:

- 1978-85 Studies of Physics at Technische Universität München
- 1985 Diploma in Physics (Dipl. Phys.), TU München in the group of Prof. D. Menzel
- 1989 Doctoral degree in Physics (Dr. rer. nat.) at TU München, Dissertation on "High resolution photoelectron spectroscopy at surfaces: lineshapes, loss processes and applications", thesis advisor: Prof. E. Umbach
- 1996 Habilitation (Dr. rer. nat. habil.) in Experimental Physics, TU München, "Nonlinear optical spectroscopy of silicon surfaces"

## Professional Experience:

**Current Post:** Professor for Experimental Physics (Chair), Philipps-Universität Marburg, Germany

- 1985-87 Manager Data Processing, Central-Molkerei Augsburg e.G.
- 1987-89 Research Assistant, Physik-Department E20 (Prof. D. Menzel), TU München
- 1990-91 Post-doc fellow, IBM T. J. Watson Research Center, Yorktown Heights, New York (USA), Department of Physical Sciences, Laser Science (Dr. T. F. Heinz)
- 1992-99 Group Leader, Surface Dynamics, Laser Chemistry Department (Prof. K.-L. Kompa), Max-Planck-Institut für Quantenoptik (MPQ), Garching/München
- 1994 Visiting Scientist, IBM T. J. Watson Research Center, Yorktown Heights, New York
- 1996-99 Lecturer/docent, Physik-Department, TU München
- 1998 Adjunct Professor, Institute for Quantum Electronics, TU Vienna, Austria
- 1999 Research Fellow, Institute for Chemical Research, RIKEN, Japan
- 1999-date Professor for Experimental Physics (Chair), Philipps-Universität Marburg

### Professional Experience (continued):

2003	Guest Professor, Columbia University, New York, USA
2003-07	Managing Director, Material Sciences Center, Philipps-Universität Marburg
2006	Guest Professor, I.S.I.R. (Sanken Institute), University of Osaka, Japan
2007-09	Dean of the Physics Department, Philipps-Universität Marburg
2008/09	Adjunct Professor, Yokohama National University, Japan
2009	Offer for a chair in Experimental Physics at the University of Würzburg (declined)
2013 -	Spokesman SFB 1083 "Structure and Dynamics of Internal Interfaces"
2014	Guest Professor, Dept. of Physics, Columbia University, New York
2014	Selection Committee Member for the Max Planck Research Award
2015	Guest Professor, Dept. of Chemistry, University of Osaka, Japan

### Awards:

1995	Arnold-Sommerfeld-Prize of the Bavarian Academy of Sciences and Humanities
2006	Fellow of the American Physical Society, USA
2011	Ikerbasque Research Professor, Basque Country, Spain
2015	Fellow of the Japan Society for the Promotion of Science, Japan

### Selected Publications:

- 1) **U. Höfer**, *Nonlinear optical investigations of the dynamics of hydrogen interaction with silicon surfaces*, Appl. Phys. A **63**, 533 (1996).
- 2) **U. Höfer**, I. L. Shumay, Ch. Reuß, U. Thomann, W. Wallauer, Th. Fauster, *Time-resolved coherent photoelectron spectroscopy of quantized electronic states on metal surfaces*, Science **277**, 1480 (1997).
- 3) K. Stepán, J. Güdde, **U. Höfer**, *Time-resolved measurement of surface diffusion induced by femtosecond laser pulses*, Phys. Rev. Lett. **94**, 236103 (2005).
- 4) M. Dürr, **U. Höfer**, *Dissociative adsorption of molecular hydrogen on silicon surfaces*, Surf. Sci. Rep. **61**, 465 (2006).
- 5) J. Güdde, M. Rohleder, T. Meier, S. W. Koch, **U. Höfer**, *Time-resolved investigation of coherently controlled electric currents at a metal surface*, Science **318**, 1287 (2007).
- 6) C. H. Schwalb, S. Sachs, M. Marks, A. Schöll, F. Reinert, E. Umbach, **U. Höfer**, *Electron lifetime in a Shockley-type metal-organic interface state*, Phys. Rev. Lett. **101**, 146801 (2008).
- 7) N. Armbrust, J. Güdde, P. Jakob, **U. Höfer**, *Time-resolved two-photon photoemission of unoccupied electronic states of periodically rippled graphene on Ru(0001)*, Phys. Rev. Lett. **108**, 056801 (2012).
- 8) C. M. Heyl, J. Güdde, A. L'Hullier, **U. Höfer**, *High-order harmonic generation with  $\mu$ J laser pulses at high repetition rates*, J. Phys. B-At. Mol. Opt. **45**, 074020 (2012).
- 9) **U. Höfer** and P. M. Echenique, *Resolubility of image-potential resonances*, Surf. Sci. **643**, 203 (2016).

- 10) K. Kuroda, J. Reimann, J. Gdde, **U. Hfer**, *Generation of transient photocurrents in the topological surface state of  $Sb_2Te_3$  by direct optical excitation with mid-infrared pulses*, Phys. Rev. Lett. **116**, 076801 (2016).

Author or co-author of more than 120 publications in scientific journals with at total of more than 5000 citations (h-index 42)