

## Prof. Dr. Eckart Hasselbrink

Date of birth: 8.10.1956

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### Scientific Vita

1981	Diplom (Physics) University of Göttingen
1985	PhD (Physics) University of Göttingen
1986-1987	Postdoctoral Fellow, Stanford University, USA, with Prof. R. N. Zare
1988-1996	Group leader Fritz-Haber-Institut der Max-Planck-Gesellschaft
1993	Habilitation (Physical Chemistry) Free University Berlin
1996-1997	Lektor for Fysik, Odense Universitet
1998-present	Chair for Physical Chemistry, University of Duisburg-Essen

### Awards

1987	Reimar-Lüst-Stipendium of the Max-Planck-Gesellschaft
1992	Karl-Scheel-Preis der Physikalischen Gesellschaft zu Berlin
1994	Dozentenstipendium of the Fonds der Chemischen Industrie

### Professional Activities

2003-2008	Prorektor for Research, University Duisburg-Essen
2008-present	Deutsches Textilforschungszentrum Nord-West, Scientific Board Member
2008-present	IUTA, Institute of Energy and Environmental Technology, Duisburg, Scientific Board Member

### Fields of Interests

- Functional ultra-thin oxide layers and organic monolayers
- Laserstructuring of surface layers into functional assemblies
- Chemical reaction dynamics at surfaces
- Surface photochemistry
- Non-adiabatic reaction pathways and energy dissipation
- Sumfrequency generation spectroscopy

### Selected Publications

- Hasselbrink, E. (2006). How non-adiabatic are surface dynamical processes? *Current Opinion in Solid State & Materials Science*, 10, 192-204.
- Hasselbrink, E. (2008). Photon driven chemistry at surfaces. In E. Hasselbrink & B. I. Lundqvist (Eds.), *Handbook of Surface Science: Dynamics* (pp. 621-679). Amsterdam: Elsevier.
- Hasselbrink, E. (2009). Capturing the complexities of molecule-surface interactions. *Science*, 326, 809-810.
- Mildner, B., Hasselbrink, E., & Diesing, D. (2011). Electronic excitations induced by hydrogen surface chemical reactions on gold. *J. Chemical Physics*, 134, 034705.

T. Balgar, H. Kim & E. Hasselbrink, E. (2013). Preparation of graphene with graphene areas of controlled hydrogen isotope composition on opposite sides. *J. Physical Chemistry Letters* 4, 2094.