

Personal data

Name Irene Burghardt
Date/Place of birth 21/10/1964 in Bonn

Education

1983-1987 Undergraduate Studies (Chemistry), University of Bonn
1987-1988 Diploma thesis with Dr. J. M. Brown, University of Oxford
1988-1992 Ph.D. (Chemistry) with Prof. Dr. G. Bodenhausen, University of Lausanne

Research Experience

1992-1995 Postdoctoral Fellow with Dr. P. Gaspard, Free University of Brussels
1996-1998 Research Fellow in Theoretical Chemistry, University of Bonn
1998 Research Fellow in Theoretical Chemistry, University of Heidelberg
1999-2007 CNRS Research position (CR1) at the Département de Chimie, Ecole Normale Supérieure (ENS), Paris
2006 Habilitation à Diriger des Recherches, University Paris VI
2007 Habilitation in Theoretical Chemistry, University of Heidelberg,
Mentor: Prof. Dr. L. S. Cederbaum
2007-2011 CNRS Research Director (DR2) at the Département de Chimie, ENS Paris
2011-today Professor of Theoretical Chemistry (W3), Goethe University Frankfurt

Honors and Awards

2011 Awardee of the Alfried Krupp von Bohlen und Halbach Foundation
2011-2014 Editorial Advisory Board member of the Journal of Physical Chemistry
2008-2010 Editorial Advisory Board member of the Journal of Chemical Physics
1996-1998 DFG Habilitation Fellowship
1994-1995 EU Postdoctoral Fellowship
1993-1994 NATO Postdoctoral Fellowship
1992 Prix Brunner – Award for the doctoral thesis in NMR spectroscopy
1998-1991 Verband der Chemischen Industrie (VCI) Doctoral Fellowship
1987-1988 German Academic Exchange Service (DAAD) Fellowship

Five selected publications

a) peer-reviewed

- E. R. Bittner, A. M. Goj, I. Burghardt, Drift-diffusion of a localized quantum state along a thermal gradient in a model α -helix, *Chem. Phys.* **2010**, 370, 137-142.
- G. A. Worth, H.-D. Meyer, H. Köppel, L. S. Cederbaum, I. Burghardt, Using the MCTDH wavepacket propagation method to describe multimode nonadiabatic dynamics, *Int. Rev. Phys. Chem.* **2008**, 27, 569-606.
- H. Tamura, J. G. S. Ramon, E. R. Bittner, I. Burghardt, Phonon-driven ultrafast exciton dissociation at donor-acceptor polymer heterojunctions, *Phys. Rev. Lett.* **2008**, 100, 107402 (4 pages).
- E. V. Gromov, I. Burghardt, H. Köppel, L. S. Cederbaum, Photoinduced isomerization of the Photoactive Yellow Protein (PYP) chromophore: Interplay of two torsions, a HOOP mode, and hydrogen bonding, *J. Phys. Chem. A* **2011**, 115, 9237-92491.

b) others

- I. Burghardt, E. R. Bittner, H. Tamura, A. Pereverzev, J. G. S. Ramon, Ultrafast photophysics of organic semiconductor junctions, in: I. Burghardt, V. May, D. A. Micha, E. R. Bittner (Eds.), Energy Transfer Dynamics in Biomaterial Systems, Springer Verlag Berlin Heidelberg, *Springer Ser. Chem. Phys.*, **2009**, 93, 183-210.