

# Anhang D

## Publikationen

Während der Promotion erschienen folgende Publikationen:

1. *Formation of anion fragments from gas-phase glycine by low energy (0–15 eV) electron impact*  
S. Gohlke, A. Rosa, F. Brüning, M.A. Huels, E. Illenberger  
*J. Chem. Phys.* **2002**, *116(23)*, 10164–10169
2. *Probing biomolecules: Gas phase experiments and biological relevance*  
S. Gohlke, E. Illenberger  
*Europhys. News* **2002**, *33(6)*, 207–209
3. *Low energy (0–15 eV) electron stimulated reactions in single 1,2-C<sub>2</sub>F<sub>4</sub>Cl<sub>2</sub> molecules and clusters*  
J. Langer, M. Stano, S. Gohlke, A. Rosa, W. Barszczewska, S. Matej-  
cik, E. Illenberger  
*Int. J. Mass Spectrom.* **2003**, *223-224*, 193–204
4. *A study of dissociative electron attachment to CHBr<sub>3</sub> and CHI<sub>3</sub>*  
M. Stano, V. Foltin, S. Matej-  
cik, J. Langer, S. Gohlke, E. Illenberger  
*J. Phys. B: At. Mol. Opt. Phys.* **2003**, *36*, 443–452

5. *Dehydrogenation of adenine induced by slow ( $< 3\text{ eV}$ ) electrons*  
S. Gohlke, H. Abdoul-Carime, E. Illenberger  
*Chem. Phys. Lett.* **2003**, *380*, 595–599
6. *Conversion of amino-acids by electrons at subexcitation energies*  
H. Abdoul-Carime, S. Gohlke, E. Illenberger  
*Phys. Chem. Chem. Phys.* **2003**, *6*, 161–164
7. *Thymine excision from DNA by subexcitation electrons*  
H. Abdoul-Carime, S. Gohlke, E. Fischbach, J. Scheike, E. Illenberger  
*Chem. Phys. Lett.* **2004**, *387*, 267–270
8. *Site-Specific Dissociation of DNA Bases by Slow Electrons at Early Stages of Irradiation*  
H. Abdoul-Carime, S. Gohlke, E. Illenberger  
*Phys. Rev. Lett.* **2004**, *92(16)*, 168103
9. *Low energy electron driven reactions in free and bound molecules: from unimolecular processes in the gas phase to complex reactions in a condensed environment (Review)*  
R. Balog, J. Langer, S. Gohlke, M. Stano, H. Abdoul-Carime, E. Illenberger  
*Int. J. Mass Spectrom.* **2004**, *233*, 267–291
10. *Sensitization of 5-bromouridine by slow electrons*  
H. Abdoul-Carime, P. Limão-Vieira, S. Gohlke, I. Petrushko, N.J. Mason, E. Illenberger  
*Chem. Phys. Lett.* **2004**, *393*, 442–447
11. *Degradation of N-Acetyl Tryptophan by Low-Energy ( $< 12\text{ eV}$ ) Electrons*  
H. Abdoul-Carime, S. Gohlke, E. Illenberger  
*J. Am. Chem. Soc.* **2004**, *126*, 12158–12161

12. *Electron Attachment to Biologically Relevant Molecules: Towards the Initial Molecular Steps in Radiation Damage*  
H. Abdoul-Carime, S. Gohlke, E. Illenberger  
in *Gaseous Dielectrics X* ; L.G. Christophorou, J.K. Olthoff, P. Vassiliou (Hrsg.); Springer: New York, 2004; pp 35–40
13. *Fragmentation of tryptophan by low-energy electrons*  
H. Abdoul-Carime, S. Gohlke, E. Illenberger  
*Chem. Phys. Lett.* **2005**, *402*, 497–502
14. (a) *Bindungsspezifische H<sup>-</sup>-Abspaltung von Thymin*  
S. Ptasińska, S. Denifl, V. Grill, T.D. Märk, P. Scheier, S. Gohlke, M.A. Huels, E. Illenberger  
*Angew. Chem.* **2005**, *117(11)*, 1673–1676  
(b) *Bond-Selective H<sup>-</sup> Ion Abstraction from Thymine*  
S. Ptasińska, S. Denifl, V. Grill, T.D. Märk, P. Scheier, S. Gohlke, M.A. Huels, E. Illenberger  
*Angew. Chem. Int. Ed.* **2005**, *44(11)*, 1647–1650
15. *Reactions in trifluoroacetic acid (CF<sub>3</sub>COOH) induced by low energy electron attachment*  
J. Langer, M. Stano, S. Gohlke, V. Foltin, S. Matejčík, E. Illenberger  
*Chem. Phys. Lett.* **2006**, *419*, 228–232
16. (a) *Fragmentierung von Thymin durch niederenergetische Elektronen. Implikationen für den Mechanismus von Einzelstrangbrüchen in DNA*  
S. Ptasińska, S. Denifl, S. Gohlke, P. Scheier, T.D. Märk, E. Illenberger  
*Angew. Chem.* **2006**, *118(12)*, 1926–1930  
(b) *Decomposition of Thymidine by Low-Energy Electrons: Implications for the Molecular Mechanisms of Single-Strand Breaks in DNA*

S. Ptasińska, S. Denifl, S. Gohlke, P. Scheier, T.D. Märk, E. Illenberger

*Angew. Chem. Int. Ed.* **2006**, *45(12)*, 1893–1896