

D Publications

1. *Bond and Energy Selectivity of Carbon Abstraction from D-Ribose by Hyperthermal Nitrogen Ions*
Z.W. Deng, I. Bald, E. Illenberger, M.A. Huels
submitted.
2. *Low Energy (0-12 eV) Electron Interaction with Gas Phase Building Blocks of DNA/RNA*
I. Bald, J. Kopyra, C. König, H. D. Flosadottir, O. Ingolfsson, E. Illenberger
submitted.
3. *Decomposition of propionyl chloride triggered by slow electrons*
I. Bald, E. Illenberger, O. Ingolfsson
Chem. Phys. Lett., 2007, **442**, 270-274.
4. *Selective Excision of CN⁻ Following Electron Attachment to Hexafluoroacetone Azine ((CF₃)₂C=N-N=C(CF₃)₂)*
I. Bald, I. Dabkowska, E. Illenberger, O. Ingolfsson
Phys. Chem. Chem. Phys., 2007, **9**, 2983-2990.
5. *Selective Bond Breaking in β-D-Ribose by Gas-Phase Electron Attachment Around 8 eV*
I. Baccarelli, F.A. Gianturco, A. Grandi, R.R. Lucchese, N. Sanna, I. Bald, J. Kopyra, E. Illenberger
J. Am. Chem. Soc., 2007, **129**, 6269-6277.

-
6. *Low Energy Electron-Induced Reactions in Gas Phase 1,2,3,5-tetra-O-acetyl-D-ribofuranose: A Model System for the Behaviour of Sugar in DNA*
I. Bald, J. Kopyra, I. Dabkowska, E. Antonsson, E. Illenberger
J. Chem. Phys. 2007, **126**, 074308.
 7. *Dissociative electron attachment to furan, tetrahydrofuran and fructose*
P. Sulzer, S. Ptasinska, F. Zappa, B. Mielewska, A.R. Milosavljevic, P. Scheier, T.D. Märk, I. Bald, S. Gohlke, M.A. Huels and E. Illenberger
J. Chem. Phys., 2006, **125**, 044304.
 8. *Dissociative Electron Attachment to Phosphoric acid esters: The Direct Mechanism for Single Strand Breaks in DNA*
C. König, J. Kopyra, I. Bald, E. Illenberger
Phys. Rev. Lett., 2006, **97**, 018105.
 9. *Fragmentation of condensed-phase DNA components by hyperthermal He⁺ impact*
Z.W. Deng, M. Imhoff, I. Bald, E. Illenberger, M.A. Huels
Phys. Rev. A, 2006, **74**, 012716.
 10. *Reactive Scattering Damage to DNA Components by Hyperthermal Secondary Ions*
Z.W. Deng, I. Bald, E. Illenberger, M.A. Huels
Phys. Rev. Lett., 2006, **96**, 243203.
 11. *Selective Excision of C5 from Gas Phase D-Ribose by Low Energy (0 - 1 eV) Electrons: Implications for the Mechanism of DNA Damage*
I. Bald, J. Kopyra, E. Illenberger
Angew. Chem. Int. Ed., 2006, **45**, 4851-4855.

12. *10-100 eV Ar⁺ Ion Induced Damage to D-Ribose and 2-Deoxy-D-Ribose Molecules in Condensed Phase*
I. Bald, Z.W. Deng, E. Illenberger, M.A. Huels
Phys. Chem. Chem. Phys., 2006, **8**, 1215-1222.

13. *Beyond the Bragg Peak: Hyperthermal Heavy Ion Damage to DNA Components*
Z.W. Deng, I. Bald, E. Illenberger, M.A. Huels
Phys. Rev. Lett., 2005, **95**, 153201.

14. *Low Energy Electron Interactions in Free and Bound SF₅CF₃: Negative Ion Formation from Single Molecules, Clusters and Nanofilms*
R. Balog, M. Stano, P. Limao-Vieira, C. König, I. Bald, N.J. Mason, E. Illenberger
J. Chem. Phys., 2003, **119 (19)**, 10396.
