

Publications:

1. Balog Richard, Langer Judith, Gohlke Sascha, Stano Michal, Abdoul-Carime Hassan, Illenberger Eugen, *Low Energy Electron Driven Reactions in Free and Bound Molecules: From Unimolecular Processes in the Gas Phase to Complex Reactions in a Condensed Environment*, International Journal of Mass Spectrometry (2004), 233(1-3), 267-291.
2. Balog Richard, Illenberger Eugen, *Complete Chemical Transformation of a Molecular Film by Subexcitation Electrons (<3 eV)*, Physical Review Letters (2003), 91(21), 213201/1- 213201/4.
3. Balog Richard, Stano Michal, Limao-Vieira Paulo, Konig Constanze, Bald Ilko, Mason Nigel J., Illenberger Eugen, *Low Energy Electron Interaction with Free and Bound SF_5CF_3 : Negative Ion Formation from Single Molecules, Clusters and Nanofilms*, Journal of Chemical Physics (2003), 119(19), 10396-10403.
4. Balog Richard, Hedhili Mohamed Nejib, Bournel Fabrice, Penno Martin, Tronc Michel, Azria Roger, Illenberger Eugen, *Synthesis of Cl_2 Induced by Low Energy (0 – 18 eV) Electron Impact to Condensed 1,2- $C_2F_4Cl_2$ Molecules*, Physical Chemistry Chemical Physics (2002), 4(14), 3350- 3355.
5. *Low Energy Electrons as a Soft Tool for Surface Modification*, Richard Balog and Eugen Illenberger, *Gaseous Dielectrics X*, L. G. Christophorou and J. K. Olthoff, eds. Kluwer Academic/Plenum Publishers, New York (to appear 2004).
6. *Rare Gases under Different Stages of Aggregation: Gas Phase, Clusters and Films*, Richard Balog, Michal Stano, Werner F. Schmidt and Eugen Illenberger, in *Electronic Excitations in Liquefied Rare Gases*, Edited by Werner F. Schmidt and Eugen Illenberger, American Scientific Publishers (ASP) (in print).

Communication to international conferences:

1. *Complete Chemical Transformation of a Molecular Film by Subexcitation Electrons (< 3 eV)*, 332. WE-Hereaus Seminar, Processes Driven by Low-Energy Electron-Molecule Interactions, Bad Honnef, Germany, (2004), (Invited speaker)
2. *Slow Electrons as a Soft Tool for Surface Modification*, 103. Bunsentagung, Dresden, Germany (2004), (Invited speaker)
3. *Surface Processing with Low Energy Electrons*, EPIC pre-conference of the 13th International Symposium on Electron-Molecule Collision and Swarms, Prague, Czech Republic (2003) , (Invited speaker)
4. *Complete Chemical Transformation of a Molecular Film by Subexcitation Electrons (< 3 eV)*, 13th International Symposium on Electron-Molecule Collision and Swarms, Prague, Czech Republic (2003), (Poster)
5. *Synthesis of Cl_2 Induced by Low Energy (0-18 eV) Electron Impact in Condensed 1,2- $C_2F_4Cl_2$ Nanofilms*, Tag der Chemie, Berlin-Adlershof, Germany (2003) , (Poster)
6. *Modification of Molecular Nanofilms by Low Energy Electrons*, 2nd International Symposium on Low energy Electron-Molecule Interactions, Siedlce, Poland (2002), (Poster)
7. *Modification of Molecular Nanofilms by Low Energy Electrons*, 101. Bunsentagung, Potsdam, Germany (2002), (Poster)

