

## Publications of Dr. Detlef Schröder (1989-2005)

1. Multiple Remote Functionalization of Different Sites in Flexible Molecules by Anchored Bare Fe<sup>I</sup> Ions  
G. Czekay, K. Eller, D. Schröder, H. Schwarz  
*Angew. Chem.* **1989**, *101*, 1306; *Angew. Chem. Int. Ed. Engl.* **1989**, *28*, 1277.
2. Experimental Determination of Primary and Secondary Deuterium Isotope Effects in the Fe<sup>I</sup>-Mediated CH/CC Bond Activation of [Fe(4-Heptanone)]<sup>+</sup> Complexes in the Gas Phase  
D. Schröder, H. Schwarz  
*Chimia* **1989**, *43*, 317.
3. Unimolecular Dissociations of Ketone/Fe<sup>+</sup> Complexes and Evidence for Successive CH/CC Bond Activation of Different Sites of Flexible Molecules  
D. Schröder, H. Schwarz  
*J. Am. Chem. Soc.* **1990**, *112*, 5947.
4. Dehydration of Alkanones by Bare FeO<sup>+</sup> Involves the □/(□-1) Positions: Exclusion of Iron Carbenes as Intermediates  
D. Schröder, K. Eller, H. Schwarz  
*Helv. Chim. Acta* **1990**, *73*, 380.
5. Iron(II)-Mediated Hydride and Methanide Transfer to Carbonyl Groups  
D. Schröder, H. Schwarz  
*Angew. Chem.* **1990**, *102*, 925; *Angew. Chem. Int. Ed. Engl.* **1990**, *29*, 910.
6. Fe<sup>+</sup>-Catalyzed Gas-Phase Oxidation of Ethane by N<sub>2</sub>O  
D. Schröder, H. Schwarz  
*Angew. Chem.* **1990**, *102*, 1466; *Angew. Chem. Int. Ed. Engl.* **1990**, *29*, 1431.
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D. Schröder, H. Schwarz  
*Angew. Chem.* **1990**, *102*, 1468; *Angew. Chem. Int. Ed. Engl.* **1990**, *29*, 1433.
8. Kinetic Isotope Effects and *exo/endo*-Face Selectivity in the Unimolecular Dehydrogenation of Norborneol Alkoxides in the Gas Phase  
U. Dreyer, D. Sülzle, D. Schröder, H. Schwarz  
*Helv. Chim. Acta* **1990**, *73*, 2179.
9. Comment on: Evaporation of covalent clusters: Unimolecular decay of energized size-selected carbon cluster ions  
D. Schröder, D. Sülzle  
*J. Chem. Phys.* **1991**, *94*, 6933.
10. Ligand-Enhanced Selectivity in the CH/CC Bond Activation of Ketones by Iron(I) Ions in the Gas Phase  
D. Schröder, K. Eller, T. Prusse, H. Schwarz  
*Organometallics* **1991**, *10*, 2052.
11. Oxidations of Alkanes by [Fe(O)OH]<sup>+</sup> in the Gas Phase - the Role of Iron Oxidation State in C-H Activations  
D. Schröder, H. Schwarz  
*Angew. Chem.* **1991**, *103*, 987; *Angew. Chem. Int. Ed. Engl.* **1991**, *30*, 991.
12. On the Mechanism of Fe<sup>+</sup>-Mediated CH/CC Bond Activation as studied by Intramolecular Kinetic Isotope Effects  
D. Schröder, F. Jeske, H. Schwarz  
*Int. J. Mass Spectrom. Ion Processes* **1991**, *107*, 559.
13. Geminal-Dialkyl-Effect-Controlled Site Selectivity of Fe(I)-Mediated C-H/C-C Bond Activation of Aliphatic Ketones  
D. Schröder, J. H. Bowie, M. B. Stringer, H. Schwarz  
*Chem. Ber.* **1991**, *124*, 1679.
14. Neutralization-Reionization Mass Spectrometry as a Novel Probe to Structurally Characterize Organic Ligands Generated in the Fe(I)-mediated Oligomerization of Acetylene in the Gas Phase  
D. Schröder, D. Sülzle, J. Hrušák, D. K. Böhme, H. Schwarz  
*Int. J. Mass Spectrom. Ion Processes* **1991**, *110*, 145.
15. Experimental and Theoretical Studies Towards a Characterization of Conceivable Intermediates Involved in the Gas-Phase Oxidation of Methane by Bare FeO<sup>+</sup>. Generation of Four Distinguishable [Fe,C<sub>4</sub>H<sub>4</sub>,O]<sup>+</sup> Isomers  
D. Schröder, A. Fiedler, J. Hrušák, H. Schwarz  
*J. Am. Chem. Soc.* **1992**, *114*, 1215.
16. Gas-Phase Generation and Structural Characterization of [H<sub>2</sub>C<sub>2</sub>O, Si]<sup>+</sup> and [H<sub>2</sub>C<sub>2</sub>O, Si] by Collisional Activation and Neutralization-Reionization Mass Spectrometry: Evidence for the Distonic Ion H<sub>2</sub>C-O-Si<sup>+</sup> and the Biradical H<sub>2</sub>C<sup>•</sup>-O-Si<sup>•</sup>  
R. Srinivas, D. K. Böhme, J. Hrušák, D. Schröder, H. Schwarz  
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F. Grandinetti, J. Hrušák, D. Schröder, S. Karraß, H. Schwarz  
*J. Am. Chem. Soc.* **1992**, 114, 2806.
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*J. Phys. Chem.* **1992**, 96, 4841.
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O. Blum, D. Stöckigt, D. Schröder, H. Schwarz  
*Angew. Chem.* **1992**, 104, 637; *Angew. Chem. Int. Ed. Engl.* **1992**, 31, 603.
22.  $Fe^+$ -Mediated Dehydrogenation of 2-Propanol and Ethanol by 1,3-Butadiene and Evidence for Interligand Hydrogen Exchange Processes.  
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*Chem. Ber.* **1992**, 125, 751.
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D. Schröder, H. Schwarz  
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28. Chemical Signatures of Buckminsterfullerene,  $C_{60}$ , under Chemical Ionization Conditions  
D. Schröder, D. K. Böhme, T. Weiske, H. Schwarz  
*Int. J. Mass Spectrom. Ion Processes* **1992**, 116, R13.
29. Insertion of Phosphorous into the C-C Bond of Benzene as Observed by Collision-Mass Spectrometry  
C. A. Muedas, D. Schröder, D. Sülzle, H. Schwarz  
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J. Hrušák, D. Schröder, T. Weiske, H. Schwarz  
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D. Schröder, W. Zummack, H. Schwarz  
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35. Intramolecular Translocation of a Nitrogen Atom from a Nitroso to a Cyclopentadienyl Ligand of  $(\text{C}_5\text{H}_5)_2\text{Fe}_2\text{NO}^+$  as Probed by Neutralization Reionization Mass Spectrometry  
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H. Becker, D. Schröder, W. Zummack, H. Schwarz  
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D. Schröder, A. Fiedler, M. F. Ryan, H. Schwarz  
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M. F. Ryan, A. Fiedler, D. Schröder, H. Schwarz  
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R. Wesendrup, D. Schröder, H. Schwarz  
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A. Fiedler, D. Schröder, S. Shaik, H. Schwarz  
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C. A. Schalley, D. Schröder, H. Schwarz  
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