

## Publikationsliste Dr. Thomas Zeuch

nur Artikel, die Eingang in das Web of Science finden, sind aufgeführt.

W. Hack, K. Hoyerermann, M. Olzmann, T. Zeuch: "Mechanisms and Rates of the Reactions  $C_2H_5 + O$  and  $1-C_3H_7 + O$ ", *Proc. Combust. Inst.* **29** (2002) 1247-1255.

\*K. Hoyerermann, F. Mauß, T. Zeuch: "A detailed chemical reaction mechanism for the oxidation of hydrocarbons and its application to the analysis of benzene formation in fuel-rich premixed laminar acetylene and propene flames", *Phys. Chem. Chem. Phys.* **6** (2004) 3824-3835.

S.S. Ahmed, G. Moréac, T. Zeuch, F. Mauss: "Efficient Lumping Technique for the Automatic Generation of n-Heptane and iso-Octane Oxidation Mechanism" 27th ACS National Meeting - Anaheim, CA, March 28-April 1, 2004. Paper #: 717658.

\*W. Hack, M. Hold, K. Hoyerermann, J. Wehmeyer, T. Zeuch: "Mechanism and Rate of the Reaction  $CH_3 + O$  - Revisited", *Phys. Chem. Chem. Phys.* **7** (2005) 1974-1984.

W. Hack, K. Hoyerermann, M. Olzmann, B. Viskolcz, J. Wehmeyer, T. Zeuch: "The reactions of the branched alkyl radicals iso-butyl and neo-pentyl with oxygen atoms - an experimental and theoretical study", *Proc. Comb. Inst.* **30** (2005) 1005-1013.

K. Hoyerermann, J. Nothdurft, M. Olzmann, J. Wehmeyer, T. Zeuch: "Formation and decomposition of chemically activated cyclopentoxy radicals from the  $c-C_5H_9+O$  reaction", *J. Phys. Chem. A.* **110** (2006) 3165-3173.

\*S. S. Ahmed, G. Moreac, F. Mauß, T. Zeuch: "A comprehensive and compact n-heptane oxidation model derived using chemical lumping", *Phys. Chem. Chem. Phys.* **9** (2007) 1107 – 1126.

\*I. Dauster, M.A. Suhm, U. Buck, T. Zeuch: "Experimental and theoretical study of the microsolvation of sodium atoms in methanol clusters: Differences and similarities to sodium/water and sodium/ ammonia", *Phys. Chem. Chem. Phys.* **10** (2008) 61–75.

\*T. Zeuch, G. Moréac, S.S. Ahmed, F. Mauss: "A comprehensive skeletal mechanism for the oxidation of n-heptane generated by chemistry-guided reduction", *Combust. Flame* **155** (2008) 651–674.

\*K. Hoyerermann, F. Nacke, J. Nothdurft, M. Olzmann, J. Wehmeyer, T. Zeuch: "The reaction of allyl radicals with oxygen atoms-rate coefficient and product branching", *Proc. Comb. Inst.* **32** (2009) 157-164.

\*J. L. Wolf, M.A. Suhm, T. Zeuch: "Suppressed particle formation by kinetically controlled ozone removal: Revealing the role of transient-species chemistry during alkene ozonolysis": *Angew. Chem. Int. Ed.* **48** (2009) 2231-2235.

\*M. Hold, K. Hoyerermann, I. Morozov, T. Zeuch: "  $CH_2Cl$  and  $CHCl_2$  Radical Chemistry: The Formation by the Reactions  $CH_3Cl + F$  and  $CH_2Cl_2 + F$  and The Destruction by the Reactions  $CH_2Cl + O$  and  $CHCl_2 + O$ ", *Z. Phys. Chem.* **223** (2009) 409-426.

\*S. S. Ahmed, F. Mauß, T. Zeuch: “The Generation of a Compact n-Heptane / Toluene Reaction Mechanism Using the Chemistry Guided Reduction (CGR) Technique”, *Z. Phys. Chem.* 223 (2009) 551-563.