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Publications

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Theses

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- 3) K. Kohse-Höinghaus, Th. Just
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- 6) K. Kohse-Höinghaus
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- 7) K. Kohse-Höinghaus, Th. Just
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- 8) U. Meier, K. Kohse-Höinghaus, Th. Just
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49) A. Brockhinke, P. Andresen, K. Kohse-Höinghaus

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The influence of acetone on the temperature and stoichiometry dependence of flame deposition of diamond films

26th Symposium (International) on Combustion, Neapel, Italien, August 1996 (**poster**)

55) A. Brockhinke, P. Andresen, K. Kohse-Höinghaus

Contribution to the analysis of temporal and spatial structures near the lift-off region of a turbulent hydrogen diffusion flame

26th Symposium (International) on Combustion, Neapel, Italien, August 1996 (**lecture**)

56) U. Bergmann, K. Lummer, B. Atakan, K. Kohse-Höinghaus

Untersuchungen zum Wachstumsmechanismus im Flammen-CVD-Verfahren: Der Einfluß von Aceton auf die Qualität von Diamantschichten

Trinationales D-A-Ch-Kolloquium, Les Diablerets, September 1996 (**poster**)

- 57) A. G. Löwe, A. T. Hartlieb, W. Kreutner, B. Atakan, K. Kohse-Höinghaus
 Gasphasendiagnostik bei der Diamantabscheidung in Acetylen/Sauerstoff-Flammen bei 50 mbar
 Trinationales D-A-Ch-Kolloquium, Les Diablerets, September 1996 (**poster**)
- 58) K. Kohse-Höinghaus
 Energy transfer in quantitative combustion diagnostics: does an engineer need physics?
 Gordon Research Conference on Molecular Energy Transfer, Ventura, USA, Januar 1997 (**invited plenary lecture**)
- 59) A. T. Hartlieb, D. Markus, U. Rahmann, W. Kreutner, K. Kohse-Höinghaus
 LIF measurements of OH vibrational energy transfer in a low-pressure flame
 Gordon Research Conference on Molecular Energy Transfer, Ventura, USA, Januar 1997 (**poster**)
- 60) J. Brand, A. G. Löwe, A. T. Hartlieb, B. Atakan, K. Kohse-Höinghaus
 Diamantabscheidung aus Niederdruck-Acetylen/Sauerstoffflammen: Gasphasenuntersuchungen mit laserinduzierter Fluoreszenzspektroskopie und Molekularstrahl-Massenspektrometrie
 Jahrestagung der Deutschen Physiker-Gesellschaft, Münster, März 1997 (**lecture**)
- 61) A. T. Hartlieb, D. Markus, U. Rahmann, W. Kreutner, K. Kohse-Höinghaus
 LIF measurements of OH vibrational energy transfer in a low-pressure flame
 International Workshop on Molecular Energy Transfer in Small Molecules, Bielefeld, März 1997 (**lecture**)
- 62) T. Croonenbroek, N. Darabiha, U. Rahmann, J. C. Rolon, K. Kohse-Höinghaus
 Experimental validation of OH spectroscopy computed with LASKIN by LIF spectroscopy in counterflow diffusion flames
 International Workshop on Molecular Energy Transfer in Small Molecules, Bielefeld, März 1997 (**lecture**)
- 63) B. Atakan, J. Brand, A. G. Löwe, A. T. Hartlieb, K. Kohse-Höinghaus
 In-situ Radikalnachweis bei der Diamantabscheidung aus Niederdruck- Acetylen/Sauerstoffflammen
 96. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 8.-10. Mai 1997, Darmstadt (**poster**)
- 64) A. Brockhinke, P. Andresen, K. Kohse-Höinghaus
 Investigation of the flame-stabilization process in turbulent, lifted flames
 18. Deutsch-Niederländischer Flammentag "Verbrennung und Feuerungen", August 1997, Delft, Niederlande (**poster**)
- 65) A. Brockhinke, A. T. Hartlieb, K. Kohse-Höinghaus, D. R. Crosley
 Tunable KrF laser induced fluorescence in a highly sooting flame
 Gordon Research Conference on the Physics and Chemistry of Laser Diagnostics in Combustion, July 1997, Plymouth, NH, USA (**poster**)
- 66) A. Brockhinke, S. Haufe, K. Kohse-Höinghaus
 Investigations of the flame-stabilization process in turbulent, lifted flames with different Reynolds numbers
 Gordon Research Conference on the Physics and Chemistry of Laser Diagnostics in Combustion, July 1997, Plymouth, NH, USA (**poster**)

- 67) B. Atakan, A. T. Hartlieb, J. Brand, A. Lamprecht, W. Eimer, K. Kohse-Höinghaus
Diagnostics in fuel-rich flames
Gordon Research Conference on the Physics and Chemistry of Laser Diagnostics in Combustion,
July 1997, Plymouth, NH, USA (**poster**)
- 68) A. Brockhinke, A.T. Hartlieb, K. Kohse-Höinghaus, D.R. Crosley
Tunable KrF laser-induced fluorescence of C₂ in a sooting flame
Western States Section/The Combustion Institute 1997 Fall Meeting, October 23, 1997, Diamond
Bar, California (**lecture**)
- 69) K. Kohse-Höinghaus
Feuer-Wärme-Licht: Flammen in der chemischen Forschung
14. Fortbildungs- und Vortragstagung der Fachgruppe
Chemieunterricht der GDCh 'Erlebniswelt Experimentalchemie', Bielefeld, September 1997
(**invited plenary lecture**)
- 70) K. Kohse-Höinghaus
Les possibilités des méthodes optiques et laser pour la caractérisation des flammes
Réunion "Stabilisation des flammes" organisée par le Groupement Français de Combustion
et le Groupement de Recherche "Combustion Propre"; Ecole Centrale, Paris, Oktober 1997
(**invited plenary lecture**)
- 71) B.-L. Marg, A. Brockhinke, K. Kohse-Höinghaus, W. Eimer
Fluoreszenzlebenszeit von DNA-Molekülen unterschiedlicher Konformation
DPG Frühjahrstagung Fachverband Chemische Physik / Biologische Systeme, Bayreuth, März
1998 (**lecture**)
- 72) A. Brockhinke, D. R. Crosley, K. Kohse-Höinghaus
Quantitativer Nachweis reaktiver Spezies in Flammen durch orts-, spektral- und zeitaufgelöste LIF
97. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 21.-23. Mai
1998, Münster (**poster**)
- 73) B. Atakan, A. T. Hartlieb, J. Brand, K. Kohse-Höinghaus
Untersuchung der Reaktionspfade brennstoffreicher Propenflammen bezüglich der Bildung von
C₆-Spezies
97. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 21.-23. Mai
1998, Münster (**lecture**)
- 74) B.-L. Marg, A. Brockhinke, K. Kohse-Höinghaus, W. Eimer
Zeitaufgelöste LIF-Messungen an DNA-Oligonukleotiden unterschiedlicher Konformation
97. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 21.-23. Mai
1998, Münster (**poster**)
- 75) A. Brockhinke, M. Wind, U. Rahmann, J. C. Rolon, K. Kohse-Höinghaus
Quantitative minor species detection and OH energy transfer studies in a counterflow diffusion
flame by ps-LIF
Sixième Ecole de Combustion, Centre du CAES du CNRS, Saint Pierre d'Oléron, Frankreich, Mai
1998 (**poster**)
- 76) A. T. Hartlieb, B. Atakan, A. Brockhinke, K. Kohse-Höinghaus
Temperature and concentration measurements in fuel-rich premixed propene flames using laser
spectroscopy
27th International Symposium on Combustion, Boulder, USA, August 1998 (**poster**)

- 77) A. Brockhinke, S. Haufe, K. Kohse-Höinghaus
Structural properties of lifted hydrogen jet flames measured by laser spectroscopic techniques
27th International Symposium on Combustion, Boulder, USA, August 1998 (**poster**)
- 78) A. Brockhinke, M. Wind, U. Rahmann, J. C. Rolon, K. Kohse-Höinghaus
Quantitative OH radical and H atom measurements by ps-LIF in a counterflow diffusion flame interacting with a vortex
27th International Symposium on Combustion, Boulder, USA, August 1998 (**poster**)
- 79) K. Kohse-Höinghaus
Novel spectroscopic approaches in complex chemical reaction systems: needs and challenges for pattern recognition techniques
216th ACS National Meeting, Boston, USA, August 1998 (**invited plenary lecture**)
- 80) B. Atakan, A. G. Löwe, K. Kohse-Höinghaus
Diamantabscheidung in Flammen: Experiment und Modellierung
Kolloquium im trinationalen DACH-Schwerpunkt "Synthese superharter Materialien",
Giengen/Brenz, Oktober 1998 (**lecture**)
- 81) A. G. Löwe, B. Atakan, K. Kohse-Höinghaus
Untersuchungen zum Mechanismus der Diamantabscheidung in Niederdruckflammen
Kolloquium im trinationalen DACH-Schwerpunkt "Synthese superharter Materialien",
Giengen/Brenz, Oktober 1998 (**poster**)
- 82) K. Kohse-Höinghaus
Investigations of the gas phase mechanism of diamond deposition in combustion CVD
Asian Conference on Chemical Vapor Deposition 1999, Fudan University, Shanghai, P.R.China,
May 10-13, 1999 (**invited plenary lecture**)
- 83) A. Brockhinke, W. Kreutner, U. Rahmann, K. Kohse-Höinghaus
Quantitativer Nachweis von Minoritätenspezies durch zeitaufgelöste laserinduzierte Fluoreszenz
98. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Dortmund,
13.-15. Mai 1999 (**poster**)
- 84) A. Brockhinke, R. Plessow, W. Eimer, K. Kohse-Höinghaus
Untersuchung der lokalen Struktur von Proteinen und DNA-Oligonukleotiden mit zeitaufgelöster LIF
98. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Dortmund,
13.-15. Mai 1999 (**poster**)
- 85) A. T. Hartlieb, B. Atakan, K. Kohse-Höinghaus
Temperaturmessungen in brennstoffreichen Niederdruckflammen
98. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Dortmund,
13.-15. Mai 1999 (**poster**)
- 86) A. Lamprecht, A. T. Hartlieb, B. Atakan, A. G. Löwe, K. Kohse-Höinghaus
An experimental study of premixed low-pressure fuel-rich propene and acetylene flames
Joint Meeting of the British, German and French Sections of the Combustion Institute, May 18 to
21, 1999, Nancy, France (**poster**)
- 87) B. Atakan, A. T. Hartlieb, A. Lamprecht, K. Kohse-Höinghaus
Laser diagnostics in near sooting low-pressure flames
10th Gordon Research Conference on Laser Diagnostics in Combustion, June 20-25, 1999, Il
Ciocco, Italy (**poster**)

- 88) A. Brockhinke, W. Kreutner, U. Rahmann, T. Settersten, M. Linne, K. Kohse-Höinghaus
Polarization effects in time-resolved LIF spectra in atmospheric pressure flames
10th Gordon Research Conference on Laser Diagnostics in Combustion, June 20-25, 1999, II
Ciocco, Italy (**poster**)
- 89) A. Brockhinke, A. Bülter, J. C. Rolon, K. Kohse-Höinghaus
Ps-LIF measurements of minor species concentration in a counterflow diffusion flame interacting
with a vortex
10th Gordon Research Conference on Laser Diagnostics in Combustion, June 20-25, 1999, II
Ciocco, Italy (**poster**)
- 90) B. Atakan, K. Kohse-Höinghaus
Diamantabscheidung in Flammen
D-A-CH Abschlußkolloquium 2000, 6.-9. März 2000, Neuhofen a.d.Ybbs, Österreich (**lecture**)
- 91) B. Atakan, K. Kohse-Höinghaus
Untersuchung des Gasphasenmechanismus bei der Diamantabscheidung aus Flammen
D-A-CH Abschlußkolloquium 2000, 6.-9. März 2000, Neuhofen a.d.Ybbs, Österreich (**lecture**)
- 92) A. G. Löwe, B. Atakan, K. Kohse-Höinghaus
Untersuchungen zum Mechanismus der Diamantabscheidung in Niederdruckflammen
D-A-CH Abschlußkolloquium 2000, 6.-9. März 2000, Neuhofen a.d.Ybbs, Österreich (**poster**)
- 93) A. Brockhinke, A. Bülter, U. Rahmann, A. Schocker, K. Kohse-Höinghaus
Nachweis von radikalischen Spezies in brennstoffreichen Flammen mit laserspektroskopischen
Verfahren
99. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3. Juni,
2000, Würzburg (**poster**)
- 94) E. Fischer Rivera, B. Atakan, K. Kohse-Höinghaus
Abscheidung von Cobaltoxiden aus $\text{Co}(\text{acac})_2$ mit CVD-Verfahren
99. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3. Juni,
2000, Würzburg (**poster**)
- 95) A. Bülter, A. Brockhinke, J. C. Rolon, K. Kohse-Höinghaus
ps-LIF measurements of minor species concentration in a counterflow diffusion flame interacting
with a vortex
28th International Symposium on Combustion, 30.7.-4.8.2000, Edinburgh, UK (**poster**)
- 96) A. Schocker, A. Brockhinke, S. Spuler, M. A. Linne, K. Kohse-Höinghaus
Cavity ringdown laser absorption spectroscopy measurements in low-pressure propene and
methane flames: Quantitative detection of HCO and OH and $^1\text{CH}_2$
28th International Symposium on Combustion, 30.7.-4.8.2000, Edinburgh, UK (**poster**)
- 97) A. Lamprecht, B. Atakan, K. Kohse-Höinghaus
Fuel-rich flame chemistry in low-pressure cyclopentene flames
28th International Symposium on Combustion, 30.7.-4.8.2000, Edinburgh, UK (**lecture**)
- 98) R. Herbers, K. Kohse-Höinghaus, M.-L. aus dem Moore, R. Jost
teutolab – das Mitmach- und Experimentierlabor an der Universität Bielefeld
17. Fortbildungs- und Vortragstagung der GDCh-Fachgruppe Chemieunterricht, 7.-9.9.2000, Köln
(**lecture**)

- 99) K. Kohse-Höinghaus
 Concentration and temperature measurement in fuel-rich flames
 Journée Scientifique de l'ONERA, 22.11.2000, Paris, France (**invited plenary lecture**)
- 100) K. Kohse-Höinghaus
 Combustion measurements and modelling in chemically complex situations
 The 16th Annual Symposium of the Israeli Section of the Combustion Institute, 28.12.00, Tel Aviv, Israel (**invited plenary lecture**)
- 101) M. Hofstätter, B. Atakan, K. Kohse-Höinghaus
 CVD growth of silicon films at high rates
 Thirteenth European Conference on Chemical Vapor Deposition (EURO-CVD), 26.-31.8.2001, Glyfada, Athens, Greece (**poster**)
- 102) E. Fischer Rivera, B. Atakan, K. Kohse-Höinghaus
 CVD deposition of cobaltoxide (Co_3O_4) from $\text{Co}(\text{acac})_2$
 Thirteenth European Conference on Chemical Vapor Deposition (EURO-CVD), 26.-31.8.2001, Glyfada, Athens, Greece (**poster**)
- 103) B. Atakan, M. Hofstätter, K. Kohse-Höinghaus
 Comparison between computational modelling and experiment for a CVD growth process of silicon films
 199th Meeting of The Electrochemical Society, 25.-30.3.2001, Washington, D.C., USA (**lecture**)
- 104) A. Brockhinke, K. Kohse-Höinghaus
 Energy transfer in combustion diagnostics: experiment and modelling
 Faraday Discussion 119: Combustion chemistry: elementary reactions to macroscopic processes, 9.-11.7.2001, Leeds, UK (**invited plenary lecture**)
- 105) A. Brockhinke, A. Bülter, U. Rahmann, U. Lenhard, K. Kohse-Höinghaus
 Energietransfer-Messungen an kleinen Radikalen mittels ps-laserinduzierter Fluoreszenz
 100. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 24.-26.5.2001, Stuttgart (**poster**)
- 106) A. Brockhinke, A. Schocker, K. Kohse-Höinghaus
 Detektion radikalischer Spezies in brennstoffreichen Flammen mittels Cavity Ring-Down Spektroskopie
 100. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 24.-26.5.2001, Stuttgart (**poster**)
- 107) H. Böhm, N. Bokermann, P. Gutsche, K. Kohse-Höinghaus
 Modellierung von Pentan- und Cyclopenten-Flammen
 100. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 24.-26.5.2001, Stuttgart (**poster**)
- 108) K. Kohse-Höinghaus
 Das teutolab: eine chemische Verbindung zwischen Schule und Uni
 "Public Understanding of Science", 7.-8.6.2001, ZiF, Bielefeld (**invited lecture**)
- 109) A. Brockhinke, A. Bülter, U. Rahmann, U. Lenhard, K. Kohse-Höinghaus
 Experimental and numerical study of energy transfer processes in small radicals
 11th Gordon Research Conference on Laser Diagnostics for Combustion Research, 1.-6.7.2001, Mount Holyoke College, South Hadley, USA (**poster**)

- 110) M. Hofstätter, B. Atakan, K. Kohse-Höinghaus
CVD growth of silicon films at high rates
13th European Conference on Chemical Vapor Deposition, 26.-31.8.2001, Athen (**poster**)
- 111) E. Fischer Rivera, B. Atakan, K. Kohse-Höinghaus
CVD deposition of cobalt oxide (Co_3O_4) from $\text{Co}(\text{acac})_2$
13th European Conference on Chemical Vapor Deposition, 26.-31.8.2001, Athen (**poster**)
- 112) K. Kohse-Höinghaus
Contributions to the investigation of reaction pathways in fuel-rich flames
77th International Discussion Meeting "Formation and Degradation of Hydrocarbons in High-Temperature Reactions", Deutsche Bunsen-Gesellschaft für Physikalische Chemie, 7.-11.10.2001, Bad Herrenalb (**invited plenary lecture**)
- 113) A. Brockhinke, A. Bültner, U. Rahmann, U. Lenhard, K. Kohse-Höinghaus
Untersuchung zum Energietransfer in kleinen Radikalen mittels ps-laserinduzierter Fluoreszenz
101. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 9.-11.5.2002, Potsdam (**poster**)
- 114) E. Fischer Rivera, T. Haase, B. Atakan, K. Kohse-Höinghaus
Untersuchungen zum Zerfall von $\text{Co}(\text{acac})_2$ und zur Abscheidung von katalytisch aktiven Co_3O_4 -Schichten aus der Gasphase (CVD)
101. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 9.-11.5.2002, Potsdam (**poster**)
- 115) A. Schocker, A. Brockhinke, K. Kohse-Höinghaus
Nachweis von radikalischen Spezies in Flammen mittels Cavity Ring-Down Spektroskopie und laserinduzierter Fluoreszenz
101. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 9.-11.5.2002, Potsdam (**poster**)
- 116) M. Kamphus, T. Kasper, N.-N. Liu, A. Lamprecht, B. Atakan, K. Kohse-Höinghaus
Mass spectrometric investigation of fuel rich flame chemistry
29th International Symposium on Combustion, 21.-26.7.2002, Sapporo, Japan (**poster**)
- 117) A. Brockhinke, A. Bültner, U. Rahmann, U. Lenhard, K. Kohse-Höinghaus
Study of energy transfer processes as prerequisite for quantitative LIF measurements
29th International Symposium on Combustion, 21.-26.7.2002, Sapporo, Japan (**poster**)
- 118) A. Brandt, J. Möller, K. Kohse-Höinghaus
Das Chemieexperimentierlabor *teutolab* als außerschulischer Lernort. Ergebnisse einer Evaluationsstudie
Jahrestagung der Gesellschaft für Didaktik der Chemie und Physik, 23.-26.9.02, Flensburg (**lecture**)
- 119) S. Blittersdorf, N. Bahlawane, K. Kohse-Höinghaus, B. Atakan, J. Müller, D. Neuschütz, J. M. Schneider
CVD-Abscheidung von Aluminiumoxid
GDCh-Vortragstagung der Fachgruppe Festkörperchemie und Materialforschung, 24.-26.9.2002, Dresden (**poster**)
- 120) N. Bahlawane, S. Blittersdorf, B. Atakan, K. Kohse-Höinghaus, J. Müller
Structural investigation of alumina thin films deposited by chemical vapor deposition
2002 MRS Fall Meeting, 2.-6.12.2002, Boston MA, USA (**lecture**)

- 121) N. Bahlawane, B. Atakan, K. Kohse-Höinghaus
Flame spray deposition of aluminum oxide using sol-gel feedstock
2002 MRS Fall Meeting, 2.-6.12.2002, Boston MA, USA (**lecture**)
- 122) T. Kasper, M. Kamphus, N.-N. Liu, A. Lamprecht, B. Atkan, K. Kohse-Höinghaus
Mass spectrometric investigation of fuel-rich flame chemistry
Gordon Research Conference on Hydrocarbon Resources, January 12-17, 2003, Ventura, CA, USA (**poster, poster award**)
- 123) M. Kamphus, T. Kasper, N.-N. Liu, A. Lamprecht, B. Atakan, K. Kohse-Höinghaus
Mass spectrometric investigation of fuel-rich flames
Workshop "Gas Phase Formation and Destruction of Carbon Based Nanoparticles", January 28-30, 2003, Saint-Jacut-de-la-Mer, France (**lecture**)
- 124) R. Plessow, K. Lotte, D. Diekmann, K. Kohse-Höinghaus, A. Brockhinke
Analysis of conformational dynamics in the NPY signal peptide
2nd International Workshop of the SFB 549 on Signalling from the ECM to the Nucleus in Animals and Plants, February 20-21, 2003, ZiF, Bielefeld University (**poster**)
- 125) K. V. Lotte, R. Plessow, A. Brockhinke, K. Kohse-Höinghaus
Detection of conformational changes in redox-state sensitive proteins and their mutants using fluorescence spectroscopy
47th Annual Meeting of the Biophysical Society, March 1-5, 2003, San Antonio, TX., USA (**poster**)
- 126) B. Atakan, E. Fischer Rivera, K. Kohse-Höinghaus
Chemical vapor deposition of Co_3O_4 on honeycomb substrates for catalytic applications
Fourteenth European Conference (EURO-CVD) and 203rd Meeting of the ECS on Chemical Vapor Deposition, April 27 to May 2, 2003, Paris, France (**invited, Keynote Lecture**)
- 127) N. Bahlawane, S. Blittersdorf, K. Kohse-Höinghaus, B. Atakan, J. Müller
Investigation of chemical vapor deposition processes to perform dense α -alumina coating on superalloys
Fourteenth European Conference (EURO-CVD) and 203rd Meeting of the ECS on Chemical Vapor Deposition, April 27 to May 2, 2003, Paris, France (**poster**)
- 128) J. Müller, K. Kohse-Höinghaus, B. Atakan, J. M. Schneider
Evaluation of TiN and HfN as interlayers between alumina diffusion barrier coatings and gas turbine blade base material
Fourteenth European Conference (EURO-CVD) and 203rd Meeting of the ECS on Chemical Vapor Deposition, April 27 to May 2, 2003, Paris, France (**lecture**)
- 129) Th. Haase, B. Atakan, K. Kohse-Höinghaus, H. Lang
Investigations on Silver Chemical Vapour Deposition Systems
102. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 29.-31.5. 2003, Kiel (**poster**)
- 130) M. Kamphus, T. Kasper, K. Kohse-Höinghaus, B. Atakan
Fuel-rich flame investigations by mass spectrometry
102. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 29.-31.5. 2003, Kiel (**poster**)

- 131) A. Brockhinke, A. Bülter, U. Rahmann, U. Lenhard, K. Kohse-Höinghaus
 Untersuchung stoßinduzierter Prozesse beim LIF-Nachweis von NO, CH und OH
 102. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 29.-31.5.
 2003, Kiel (**poster**)
- 132) S. Blittersdorf, N. Bahlawane, K. Kohse-Höinghaus, B. Atakan
 Untersuchung der CVD-Reaktionen bei der Bildung von α -Al₂O₃ als Diffusionsbarriere auf
 Superlegierungen
 102. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 29.-31.5.
 2003, Kiel (**lecture**)
- 133) A. Brockhinke, A. Bülter, U. Rahmann, U. Lenhard, K. Kohse-Höinghaus
 Energy transfer processes in CH and NO: Experiment and simulation
 12th Gordon Research Conference on Laser Diagnostics for Combustion Research, 17.-22.8.2003,
 Oxford, UK (**poster**)
- 134) M. Kamphus, K. Kohse-Höinghaus
 Detection of PAH with resonance enhanced multi-photon ionization
 12th Gordon Research Conference on Laser Diagnostics for Combustion Research, 17.-22.8.2003,
 Oxford, UK (**poster**)
- 135) K. Kohse-Höinghaus
 Heiße Chemie – Verbrennung und Materialabscheidung aus der Gasphase
 GDCh-Jahrestagung Chemie 2003, 6.-11.10.2003, München (**invited lecture**)
- 136) A. Bülter, U. Lenhard, U. Rahmann, K. Kohse-Höinghaus, A. Brockhinke
 LASKIN: Efficient simulation of spectra affected by energy transfer
 LACEA 2004 (Laser Applications to Chemical and Environmental Analysis), 9.-11.2.2004,
 Annapolis, MD, USA (**poster**)
- 137) A. Bülter, U. Lenhard, M. Letzgus, U. Rahmann, K. Kohse-Höinghaus, A. Brockhinke
 LASKIN: A tool for the simulation of fluorescence spectra affected by energy transfer
 103. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 20.-
 22.5.2004, Dresden (**poster**)
- 138) Th. Haase, N. Bahlawane, K. Kohse-Höinghaus, H. Lang
 Untersuchungen des CVD-Abscheidungsprozesses dünner Silberschichten
 103. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 20.-
 22.5.2004, Dresden (**poster**)
- 139) M. Kamphus, K. Kohse-Höinghaus
 REMPI-Messungen zur Analyse brennstoffabhängiger Bildungswege kleiner PAH
 Untersuchungen des CVD-Abscheidungsprozesses dünner Silberschichten
 103. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 20.-
 22.5.2004, Dresden (**lecture**)
- 140) N. Bahlawane, K. Kohse-Höinghaus
 Chemical vapor deposition of polycrystalline Co₃O₄ and characterization of its efficiency as
 catalyst for hydrocarbon cracking
 103. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 20.-
 22.5.2004, Dresden (**lecture**)
- 141) A. Schocker, M. Kamphus, K. Kohse-Höinghaus, A. Brockhinke

Cavity Ring-down Spektroskopie zur quantitativen Bestimmung des ASE-Anteils von schmalbandigen Lasern
103. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 20.-22.5.2004, Dresden (**poster**)

142) K. Kohse-Höinghaus
Combustion at the focus: laser diagnostics and control
30th International Symposium on Combustion, 25.-30.7.2004, Chicago, IL, USA (**invited plenary lecture**)

143) T. Kasper, M. Letzgus, K. Kohse-Höinghaus, C. A. Taatjes, A. McIlroy, T. A. Cool, J. Wang, M. E. Law, A. Morel, P. R. Westmoreland
Investigation of alcohol flames by mass spectrometry
30th International Symposium on Combustion, 25.-30.7.2004, Chicago, IL, USA (**poster**)

144) A. Schocker, K. Kohse-Höinghaus, A. Brockhinke
Systematic study of fuel-rich propene flames by cavity ring-down spectroscopy
30th International Symposium on Combustion, 25.-30.7.2004, Chicago, IL, USA (**poster**)

145) M. Kamphus, K. Kohse-Höinghaus, M. Braun-Unkhoff, P. Frank
A REMPI mass spectrometric and modeling study of small PAH in premixed fuel-rich low-pressure flames
30th International Symposium on Combustion, 25.-30.7.2004, Chicago, IL, USA (**poster**)

146) A. Brockhinke, A. Bültner, K. Kohse-Höinghaus, U. Lenhard, M. Letzgus
Simulation of spectra affected by energy transfer as prerequisite for quantitative LIF measurements
30th International Symposium on Combustion, 25.-30.7.2004, Chicago, IL, USA (**poster**)

147) K. Kohse-Höinghaus
Investigations of high-temperature gas phase systems
18th International Symposium on Gas Kinetics, 7.-12.8.2004, Bristol, UK
(**invited plenary lecture**)

148) K. Kohse-Höinghaus
Zuschauen bei der chemischen Reaktion? Laserdiagnostik mit kurzen Lichtpulsen
123. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte, 18.-21.9.2004, Passau
(**invited plenary lecture**)

149) T. A. Cool, J. Wang, C. A. Taatjes, N. Hansen, S. J. Klippenstein, A. McIlroy, T. Kasper, K. Kohse-Höinghaus, M. E. Law, P. R. Westmoreland
Synchrotron photoionization molecular-beam mass spectrometric characterization of intermediates in rich flames
Gordon Research Conference on Molecular Energy Transfer, 9.-14.1.05, Santa Ynez Valley Marriott, Buellton, CA, USA (**poster**)

150) A. Schocker, K. Kohse-Höinghaus, A. Brockhinke
Cavity ring-down spectroscopy: A highly sensitive spectroscopic tool for the investigation of high-temperature processes
85th Annual Meeting of the Chemical Society of Japan, 26.-29.3.2005, Kanagawa University, Yokohama, Japan (**lecture**)

- 151) J. Feldmann, N. Bahlawane, K. Kohse-Höinghaus
 Dampfphasen-Abscheidung von $Zn_xCo_{3-x}O_4$ -Filmen und Charakterisierung ihrer katalytischen Eigenschaften
 104. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 5.-7.5.2005, Frankfurt/Main (**poster**)
- 152) Th. Haase, N. Bahlawane, K. Kohse-Höinghaus, H. Lang
 Untersuchungen zur Auswahl geeigneter Precursoren für die Abscheidung dünner Silberschichten
 104. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 5.-7.5.2005, Frankfurt/Main (**poster**)
- 153) T. Kasper, M. Letzgus, K. Kohse-Höinghaus, C. A. Taatjes, N. Hansen, J. Wang, T. A. Cool, A. Morel, M. Law, P. A. Westmoreland
 Massenspektrometrische Untersuchungen an Alkoholflammen
 104. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 5.-7.5.2005, Frankfurt/Main (**poster**)
- 154) M. Letzgus, A. Bülter, U. Lenhard, U. Rahmann, K. Kohse-Höinghaus, A. Brockhinke
 Energietransferprozesse in laserangeregten kleinen Molekülen: Modellierung und Experiment
 104. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 5.-7.5.2005, Frankfurt/Main (**lecture**)
- 155) A. Schocker, M. Köhler, K. Kohse-Höinghaus, A. Brockhinke
 Systematische Untersuchung brennstoffreicher Propen-Flammen mittels Cavity Ring-down Spektroskopie
 104. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 5.-7.5.2005, Frankfurt/Main (**poster**)
- 156) K. Kohse-Höinghaus
 The flame chemistry preceding PAH formation: quantitative detection of intermediate species
 Interstellar Reactions: from the Gas phase to Solids, 5.-9.6.2005, Schloss Hotel Pillnitz, Dresden (**invited plenary lecture**)
- 157) R. Herbers, K. Kohse-Höinghaus
 Kontinuität und Nachhaltigkeit am Best Practice-Beispiel teutolab
 Expertentagung "Zupackend Lernen. Was will Hands-on-Science?" im Wissenschaftssommer 2005, 20.-21.6.2005, Berlin (**invited lecture**)
- 158) A. Jakob, P. Djiele, Y. Shen, B. Walfort, T. Haase, K. Kohse-Höinghaus, H. Lang
 Precursor development for metal film deposition by the CVD process
 13. Tagung Festkörperanalytik, 25.-28.6.2005, Chemnitz (**poster**)
- 159) B. Atakan, K. Kohse-Höinghaus
 Fuel-rich flame chemistry: Experimental studies applying mass spectrometry and laser spectroscopy
 5th International Seminar on Flame Structure, 11.-14.7.05, Novosibirsk, Russia (**invited lecture**)
- 160) M. Letzgus, A. Bülter, U. Lenhard, U. Rahmann, K. Kohse-Höinghaus, A. Brockhinke
 LASKIN: Efficient simulation of spectra affected by energy transfer
 13th Gordon Research Conference on Laser Diagnostics for Combustion Research, July 31 to August 5, 2005, Mount Holyoke College, South Hadley, USA (**poster**)

- 161) M. Letzgus, S. Rinne, U. Lenhard, A. Bültner, K. Kohse-Höinghaus, A. Brockhinke,
Measurement of picosecond time-resolved LIF spectra of small radicals affected by energy transfer
13th Gordon Research Conference on Laser Diagnostics for Combustion Research, July 31 to August 5, 2005, Mount Holyoke College, South Hadley, USA (**poster**)
- 162) M. Köhler, A. Schocker, S. Rinne, K. Kohse-Höinghaus, A. Brockhinke
Systematic studies of low-pressure flames using CRDS and LIF
13th Gordon Research Conference on Laser Diagnostics for Combustion Research, July 31 to August 5, 2005, Mount Holyoke College, South Hadley, USA (**poster**)
- 163) J. Feldmann, N. Bahlawane, K. Kohse-Höinghaus
Chemical vapor deposition of $Zn_xCo_{3-x}O_4$ films and their characterisation
EUROCVDFIFTEEN, 4.-9.9.2005, Bochum, Germany (**poster**)
- 164) Th. Haase, N. Bahlawane, H. Lang, K. Kohse-Höinghaus
Mass spectrometry as criteria for the selection of CVD precursors
EUROCVDFIFTEEN, 4.-9.9.2005, Bochum, Germany (**poster**)
- 165) N. Bahlawane, K. Kohse-Höinghaus, R. G. Gordon
ALD/CVD processes for the preparation of noble metal free monolithic catalysts
EUROCVDFIFTEEN, 4.-9.9.2005, Bochum, Germany (**poster**)
- 166) H. Lang, A. Jakob, H. Schmidt, P. Djiele, B. Walfort, T. Haase, N. Bahlawane, K. Kohse-Höinghaus
Phosphane and phosphite silver(I) complexes as CVD precursors
EUROCVDFIFTEEN, 4.-9.9.2005, Bochum, Germany (**poster**)
- 167) K. Kohse-Höinghaus
Light and fire: laser diagnostics for combustion chemistry
19th Colloquium on High Resolution Molecular Spectroscopy, 11.-16.9.2005, Salamanca, Spanien (**invited plenary lecture**)
- 168) K. Kohse-Höinghaus
Informal science education in the teutolab – was Hänschen nicht lernt, lernt Hans nimmermehr
International Workshop "Science is primary" im Rahmen des EU-Projekts *SciencEduc*, 27.-28.9.2005, Berlin-Brandenburgische Akademie der Wissenschaften, Berlin, Germany (**invited lecture**)
- 169) N. Hansen, C.A. Taatjes, S.J. Klippenstein, J.A. Miller, J. Wang, T.A. Cool, M.E. Law, P.R. Westmoreland, T. Kasper, K. Kohse-Höinghaus, M. Ahmed, D.S. Peterka
Synchrotron photoionization mass spectrometry for investigation of combustion chemistry
Advanced Light Source Users' Meeting, 20.-22.10.2005, Berkeley, USA (**lecture**)
- 170) N. Hansen, S. J. Klippenstein, C. A. Taatjes, F. Qi, M. E. Law, P. R. Westmoreland, T. Kasper, K. Kohse-Höinghaus, J. Wang, T. A. Cool
Synchrotron photoionization molecular-beam mass spectrometric characterization of hydrocarbon radicals in fuel-rich flames
4th Gordon Research Conference on Photoions, Photoionization and Photodetachment, 29.01.-03.02.2006, Santa Ynez Valley Marriott, Buellton, CA, U.S.A. (**poster; selected as 'hot topic': oral presentation**)

- 171) K. Kohse-Höinghaus
Zuschauen bei der chemischen Reaktion: Laserdiagnostik mit kurzen Lichtpulsen
495. Sitzung der Klasse für Naturwissenschaften und Medizin, Nordrhein-Westfälische Akademie der Wissenschaften, 1.2.2006, Düsseldorf (**invited lecture**)
- 172) P. Oßwald, T. Kasper, K. Kohse-Höinghaus, J. Wang, T. Cool, N. Hansen, C. Taatjes, S. Gon, P. Westmoreland, F. Qi
Combustion of oxygenated fuels – comparison of isomeric fuels
39. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie (DGMS), 5.-8.3.2006, Universität Mainz (**poster, poster award**)
- 173) U. Struckmeier, T. Kasper, P. Oßwald, K. Kohse-Höinghaus, N. Hansen, C. Taatjes, J. Wang, T. Cool, S. Gon, P. Westmoreland
Ethanol addition to fuel-rich propene flames studied by molecular-beam mass spectrometry
39. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie (DGMS), 5.-8.3.2006, Universität Mainz (**poster**)
- 174) M. Köhler, S. Rinne, A. Schocker, K. Kohse-Höinghaus, A. Brockhinke
Quantitative trace gas detection in flames close to the soot formation threshold by quasi-simultaneous CRDS and LIF spectroscopy
105. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.5.2006, Erlangen (**poster**)
- 175) M. Letzgus, S. Rinne, A. Brockhinke, K. Kohse-Höinghaus
Measurement of picosecond time-resolved LIF spectra of C₂ affected by energy transfer
105. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.5.2006, Erlangen (**poster**)
- 176) P. Oßwald, T. Kasper, K. Kohse-Höinghaus, J. Wang, T. Cool, N. Hansen, C. Taatjes, S. Gon, P. Westmoreland, F. Qi
Isomer-selective molecular-beam mass spectrometric investigation of flames burning oxygenated fuels
105. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.5.2006, Erlangen (**poster**)
- 177) F. Reilmann, Th. Haase, N. Bahlawane, K. Kohse-Höinghaus, S. Fahrenholz, S. Schulz
Mass spectrometry as a method for optimization of CVD processes
105. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.5.2006, Erlangen (**poster**)
- 178) C. Schlipf, K. Onwuka, A. Premkumar, J. Feldmann, K. Kohse-Höinghaus, N. Bahlawane
Catalytic fuel reforming over cobalt catalysts
105. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.5.2006, Erlangen (**poster**)
- 179) U. Struckmeier, T. Kasper, P. Oßwald, K. Kohse-Höinghaus, N. Hansen, C. Taatjes, J. Wang, T. Cool, S. Gon, P. Westmoreland
Combustion chemistry of ethanol-blended propene flames
105. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.5.2006, Erlangen (**poster**)

- 180) U. Struckmeier, M. Köhler, N. Bahlawane, K. Kohse-Höinghaus
Deposition of alumina thin films for the protection of thermocouples in flame conditions and test of their performance
105. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.5.2006, Erlangen (**poster**)
- 181) M. Braun-Unkhoff, M. Kamphus, K. Kohse-Höinghaus
Modelling small PAH in premixed fuel-rich propene and cyclopentene low-pressure flames
The 31st International Symposium on Combustion, 6.-11.8.2006, Universität Heidelberg (**poster**)
- 182) P. Oßwald, T. Kasper, K. Kohse-Höinghaus, J. Wang, T. A. Cool, N. Hansen, P. R. Westmoreland
Studies of the chemistry of fuel-rich methyl acetate and ethyl formate flames with photoionization mass spectrometry
The 31st International Symposium on Combustion, 6.-11.8.2006, Universität Heidelberg (**poster**)
- 183) T. Kasper, P. Oßwald, K. Kohse-Höinghaus, C. A. Taatjes, J. Wang, T. A. Cool, M. E. Law, A. Morel, P. R. Westmoreland
Isomeric propanol flames investigated by mass spectrometry
The 31st International Symposium on Combustion, 6.-11.8.2006, Universität Heidelberg (**poster**)
- 184) M. Letzgus, A. Brockhinke, U. Lenhard, A. Bülter, K. Kohse-Höinghaus
Measurement of energy transfer processes in small radicals in combustion environments
The 31st International Symposium on Combustion, 6.-11.8.2006, Universität Heidelberg (**poster**)
- 185) M. Letzgus, K. Kohse-Höinghaus, A. Brockhinke
LASKINv2: Simulation of spectra affected by saturation and energy transfer effects
The 31st International Symposium on Combustion, 6.-11.8.2006, Universität Heidelberg (**poster**)
- 186) U. Struckmeier, N. Bahlawane, P. Oßwald, T. Kasper, K. Kohse-Höinghaus, T. Cool, N. Hansen
Performance of CVD-made non-catalytic coatings for thermocouples in flame temperature measurements
The 31st International Symposium on Combustion, 6.-11.8.2006, Universität Heidelberg (**poster**)
- 187) B. Yang, Y. Y. Li, L. W. Wei, J. Wang, Z. Y. Tian, F. Qi, P. Oßwald, K. Kohse-Höinghaus
Identification of combustion intermediates in butanol flames
The 31st International Symposium on Combustion, 6.-11.8.2006, Universität Heidelberg (**poster**)
- 188) M. Köhler, S. Rinne, K. Kohse-Höinghaus, A. Brockhinke
Quantitative CH and C₂ profiles in low-pressure flames: LIF and CRDS measurements compared with model calculations
The 31st International Symposium on Combustion, 6.-11.8.2006, Universität Heidelberg (**poster**)
- 189) P. Oßwald, U. Struckmeier, T. Kasper, K. Kohse-Höinghaus, N. Hansen, C. A. Taatjes, J. Wang, T. Cool, S. Gon, P. R. Westmoreland
Experimental study of premixed propene/ethanol fuel blends
The 31st International Symposium on Combustion, 6.-11.8.2006, Universität Heidelberg (**poster**)
- 190) N. Bahlawane, A. Premkumar, K. Fehling, K. Kohse-Höinghaus
Gas phase synthesis of metal oxide monolithic catalysts for hydrocarbon deep oxidation
9th International Symposium: Scientific Bases for the Preparation of Heterogeneous Catalysts
10.-14.9.2006, Louvain-la-Neuve, Belgium (**poster**)

- 191) N. Hansen, M.E. Law, P. Oßwald, K. Kohse-Höinghaus, J. Wang, T.A. Cool, P.R. Westmoreland
 Combustion Chemistry of oxygenated fuels studied by synchrotron photoionization mass spectrometry
 Advanced Light Source Users' Meeting, 9.-11.10.2006, Berkeley, USA (**poster**)
- 192) N. Bahlawane, P. A. Premkumar, K. Onwuka, K. Kohse-Höinghaus, G. Reiss
 Self-catalyzed chemical vapor deposition method for the growth of device-quality metal thin films
 Materials and Structures for Advanced Micro- and Nanoelectronics, 4.-7.3.2007, Bruges, Belgium (**poster**)
- 193) L.-C. Salameh, U. Struckmeier, P. Oßwald, K. Kohse-Höinghaus
 Massenspektrometrische Untersuchungen von brennstoffreichen Propen/Ethanol-Flammen im Niederdruckbereich
 40. Diskussionstagung der Deutschen Gesellschaft für Massenspektrometrie, 11.-14.3.2007, Universität Bremen (**poster**)
- 194) P. Oßwald, U. Struckmeier, T. Kasper, K. Kohse-Höinghaus, J. Wang, T.A. Cool, N. Hansen, P.R. Westmoreland
 Photoionization mass spectrometry of combustion intermediates in methyl acetate and ethyl formate flames
 40. Diskussionstagung der Deutschen Gesellschaft für Massenspektrometrie, 11.-14.3.2007, Universität Bremen (**poster**)
- 195) F. Reilmann, L.-C. Salameh, N. Bahlawane, K. Kohse-Höinghaus, S. Fahrenholz, S. Schulz
 Mass spectrometric gas phase monitoring of different dual and single-source precursors used in chemical vapour deposition of GaSb
 40. Diskussionstagung der Deutschen Gesellschaft für Massenspektrometrie, 11.-14.3.2007, Universität Bremen (**poster**)
- 196) U. Struckmeier, L.-C. Salameh, P. Oßwald, K. Kohse-Höinghaus, J. Wang, T. Cool, N. Hansen, P. Westmoreland
 Combustion chemistry of n-butane and iso-butane analyzed by VUV-photoionization mass spectrometry
 40. Diskussionstagung der Deutschen Gesellschaft für Massenspektrometrie, 11.-14.3.2007, Universität Bremen (**poster**)
- 197) K. Kohse-Höinghaus
 Schülerlabore: Bildungschance, unfaire Konkurrenz oder vergebene Mühe
 Übergang Schule-Hochschule, Tagung des Stifterverbandes für die Deutsche Wissenschaft, 15.-16.3.07, Bielefeld (**invited lecture**)
- 198) H. Lang, A. Jakob, T. Haase, K. Kohse-Höinghaus, T. Wächtler, S. Frühauf, S. Schulz, T. Gessner
 Novel copper(I) and silver(I) complexes as precursors for chemical vapor deposition and spin-on processes of copper and silver
 1st European Conference and Exhibition on integration issues of miniaturized systems, 27.-28.3.2007, Paris (**invited lecture**)

- 199) N. Bahlawane, F. Reilmann, K. Kohse-Höinghaus, S. Fahrenholz, S. Schulz
Mass spectrometric monitoring of the chemical vapor deposition of GaSb using dual and single-source strategies
106. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 17.-19.5.2007, Graz (**poster**)
- 200) N. Bahlawane, P.A. Premkumar, K. Onwuka, K. Kohse-Höinghaus
New strategy for the chemical vapor deposition of transition metal films
106. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 17.-19.5.2007, Graz (**lecture**)
- 201) A. Brockhinke, M. Letzgus, A. Seipel, K. Kohse-Höinghaus
Efficient approaches for a quantitative simulation of chemiluminescence spectra
106. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 17.-19.5.2007, Graz (**poster**)
- 202) M. Köhler, P. Nau, K. Kohse-Höinghaus, A. Brockhinke, G. Duxbury, P. Black
Quantenkaskadenlaser für Untersuchungen im IR in der Flammendiagnostik
106. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 17.-19.5.2007, Graz (**lecture**)
- 203) M. Letzgus, K. Kohse-Höinghaus, A. Brockhinke
LASKINv2: Full simulation of LIF experiments including collisional processes in ground and excited states
106. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 17.-19.5.2007, Graz (**poster**)
- 204) C. Schlipf, I. Ennen, K. Kohse-Höinghaus, N. Bahlawane
Characterization of YSZ thin films prepared by PI-CVD
106. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 17.-19.5.2007, Graz (**poster**)
- 205) A. Seipel, M. Letzgus, K. Kohse-Höinghaus, A. Brockhinke
Spectral analysis of chemiluminescence spectra from laminar flames
106. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 17.-19.5.2007, Graz (**poster**)
- 206) K. Kohse-Höinghaus
Laser photons, electrons or synchrotron radiation: opportunities for isomer-selective combustion diagnostics
Gordon Research Conference on Laser Diagnostics in Combustion, 12.-17.08.2007, Oxford (**invited lecture**)
- 207) A. Brockhinke, M. Letzgus, K. Kohse-Höinghaus
LASKINv2: Full simulation of LIF experiments including collisional processes in ground and excited states
Gordon Research Conference on Laser Diagnostics in Combustion, 12.-17.08.2007, Oxford (**poster**)
- 208) A. Brockhinke, M. Letzgus, A. Seipel, K. Kohse-Höinghaus
Efficient approaches for a quantitative simulation of chemiluminescence spectra
Gordon Research Conference on Laser Diagnostics in Combustion, 12.-17.08.2007, Oxford (**poster**)

- 209) M. Köhler, K. Kohse-Höinghaus, A. Brockhinke
Investigation of the early stages of soot formation using combined Cavity Ring-down and LIF Spectroscopy
Gordon Research Conference on Laser Diagnostics in Combustion, 12.-17.08.2007, Oxford
(poster)
- 210) M. Köhler, P. Nau, K. Kohse-Höinghaus, A. Brockhinke
Improved absorption measurements in flames using a novel 8 μm quantum cascade laser
Gordon Research Conference on Laser Diagnostics in Combustion, 12.-17.08.2007, Oxford
(poster)
- 211) N. Roth, A. Jakob, U. Siegert, T. Wächtler, S. Schulz, T. Haase, K. Kohse-Höinghaus, T. Gessner, H. Lang
Phosphane copper(I) and silver(I) complexes as first-rate CVD precursors
Sixteenth European Conference on Chemical Vapor Deposition, 16.-21.9.2007, Den Haag (Scheveningen) (lecture)
- 212) N. Bahlawane, P.A. Premkumar, K. Onwuka, K. Kohse-Höinghaus
Catalytically enhanced H_2 -free CVD of transition metal films using commercially available precursors
Sixteenth European Conference on Chemical Vapor Deposition, 16.-21.9.2007, Den Haag (Scheveningen) (lecture)
- 213) F. Reilmann, L.-C. Salameh, N. Bahlawane, K. Kohse-Höinghaus, S. Fahrenholz, S. Schulz
Gas phase investigation of gallium-, antimony- and gallium antimonide-precursors under CVD conditions
Sixteenth European Conference on Chemical Vapor Deposition, 16.-21.9.2007, Den Haag (Scheveningen) (poster)
- 214) S. Schulz, S. Fahrenholz, D. Schuchmann, A. Kuczkowski, W. Assenmacher, F. Reilmann, N. Bahlawane, K. Kohse-Höinghaus
Single Source Precursor-based HV-MOCVD deposition of binary group 13-antimonide thin films
Sixteenth European Conference on Chemical Vapor Deposition, 16.-21.9.2007, Den Haag (Scheveningen) (poster)
- 215) U. Struckmeier, P. Oßwald, A. Lucassen, K. Kohse-Höinghaus
Mass spectrometric study of highly diluted atmospheric methane flames
41. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 2.-5.3.2008, Universität Gießen (poster)
- 216) A. Lucassen, P. Oßwald, U. Struckmeier, K. Kohse-Höinghaus, T. Kasper, N. Hansen, T.A. Cool, P.R. Westmoreland
Investigation of combustion chemistry of a laminar morpholine flame by mass spectrometry
41. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 2.-5.3.2008, Universität Gießen (poster)
- 217) P. Oßwald, U. Struckmeier, A. Lucassen, K. Kohse-Höinghaus
In-Situ Massenspektrometrie zur Verbrennungsdiagnostik
41. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 2.-5.3.2008, Universität Gießen (poster)

- 218) F. Reilmann, Z. Tian, X. Hong, F. Qi, N. Bahlawane, K. Kohse-Höinghaus
 Massenspektrometrische Prozessgasanalytik von Metallabscheidungen unter Verwendung von Synchrotronstrahlung zur Ionisation
 41. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 2.-5.3.2008, Universität Gießen (**lecture**)
- 219) P. Tchoua Ngamou, V. Vannier, F. Gaillard, N. Bahlawane, K. Kohse-Höinghaus
 Chemical vapor deposition of perovskite films [MO_3 (M = Co, Ni, Fe, Cr and Mn)] using the pulsed spray evaporation delivery technique
 107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3.5.2008, Saarbrücken (**poster**)
- 220) T. Kasper, N. Hansen, J. Wang, B. Yang, T.A. Cool, A. Lucassen, P. Oßwald, K. Kohse-Höinghaus, W. Li, P.R. Westmoreland
 MBMS investigation of a laminar tetrahydrofuran flame
 107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3.5.2008, Saarbrücken (**lecture**)
- 221) M. Köhler, P. Nau, K. Kohse-Höinghaus, A. Brockhinke
 Combined Cavity Ring-down Spectroscopy and Laser Induced Fluorescence measurements for quantitative flame diagnostics
 107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3.5.2008, Saarbrücken (**poster**)
- 222) M. Letzgus, K. Kohse-Höinghaus, A. Brockhinke
 Investigation of energy transfer processes in diatomic radicals
 107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3.5.2008, Saarbrücken (**poster**)
- 223) A. Lucassen, P. Oßwald, U. Struckmeier, K. Kohse-Höinghaus, T. Kasper, N. Hansen, T.A. Cool
 Mass spectrometric analysis of a morpholine flame
 107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3.5.2008, Saarbrücken (**poster**)
- 224) P. Oßwald, U. Struckmeier, A. Lucassen, K. Kohse-Höinghaus
 Lasergestützte in-situ Massenspektrometrie zur Verbrennungsdiagnostik
 107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3.5.2008, Saarbrücken (**poster**)
- 225) F. Reilmann, Z. Tian, X. Hong, F. Qi, N. Bahlawane, K. Kohse-Höinghaus
 Gas phase studies for the CVD of metals involving metal acetylacetonates and alcohols using synchrotron radiation mass spectrometry
 107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3.5.2008, Saarbrücken (**poster**)
- 226) S. Schwedler, K. Kohse-Höinghaus, R. Brockhinke, A. Brockhinke
 Mehrdimensionale statische und zeitaufgelöste Fluoreszenzspektroskopie zur Untersuchung von Proteinen und Farbstoffen
 107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-3.5.2008, Saarbrücken (**poster**)

- 227) A. Seipel, R. Brockhinke, M. Letzgus, K. Kohse-Höinghaus, A. Brockhinke
Applications and fundamentals of chemiluminescence in flames
107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-
3.5.2008, Saarbrücken (**poster**)
- 228) U. Struckmeier, P. Oßwald, A. Lucassen, K. Kohse-Höinghaus
Experimental investigation of highly diluted atmospheric methane flames by molecular beam mass
spectrometry
107. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 1.-
3.5.2008, Saarbrücken (**poster**)
- 229) P.R. Westmoreland, T.A. Cool, F.L. Dryer, N. Hansen, T. Kasper, K. Kohse-Höinghaus,
M.E. Law, W. Li, P. Oßwald, U. Struckmeier, C.K. Westbrook, B. Yang, J. Wang
Recent results of MBMS for flame characterization and kinetics
The 2008 Spring Technical Meeting of the Central States Section of the Combustion Institute, 20.-
22.4.2008, Tuscaloosa, Alabama, U.S.A. (**lecture**)
- 230) T. Kasper, U. Struckmeier, P. Oßwald, K. Kohse-Höinghaus
Structure of a stoichiometric propanal flame at low pressure
32nd International Symposium on Combustion, 3.-8.8. 2008, McGill University, Montreal, Canada
(**lecture**)
- 231) A. Lucassen, P. Oßwald, U. Struckmeier, K. Kohse-Höinghaus, T. Kasper, N. Hansen, T.A.
Cool, P.R. Westmoreland
Species identification in a laminar premixed low-pressure flame of morpholine as a model
substance for oxygenated nitrogen-containing fuels
32nd International Symposium on Combustion, 3.-8.8. 2008, McGill University, Montreal, Canada
(**lecture**)
- 232) N. Hansen, J.A. Miller, T. Kasper, K. Kohse-Höinghaus, P.R. Westmoreland, J. Wang,
T.A. Cool
Benzene formation in premixed fuel-rich 1,3-butadiene flames
32nd International Symposium on Combustion, 3.-8.8. 2008, McGill University, Montreal, Canada
(**lecture**)
- 233) C.K. Westbrook, W.J. Pitz, P.R. Westmoreland, F.L. Dryer, M. Chaos, P. Oßwald, K.
Kohse-Höinghaus, T.A. Cool, J. Wang, B. Yang, N. Hansen, T. Kasper
A detailed chemical kinetic reaction mechanism for oxidation of four small alkyl esters in laminar
premixed flames
32nd International Symposium on Combustion, 3.-8.8. 2008, McGill University, Montreal, Canada
(**lecture**)
- 234) M. Letzgus, K. Kohse-Höinghaus, A. Brockhinke
Experimental and numerical approaches for quantification of energy transfer processes in small
radicals
32nd International Symposium on Combustion, 3.-8.8. 2008, McGill University, Montreal, Canada
(**WIP poster**)
- 235) A. Lucassen, P. Oßwald, U. Struckmeier, K. Kohse-Höinghaus, T. Kasper, N. Hansen, T.
A. Cool, P. R. Westmoreland
Investigation of reaction pathways of nitrogen containing fuels
32nd International Symposium on Combustion, 3.-8.8. 2008, McGill University, Montreal, Canada
(**WIP poster**)

- 236) A. Seipel, R. Brockhinke, M. Letzgus, K. Kohse-Höinghaus, A. Brockhinke
Systematic measurements and simulation of chemiluminescence spectra in flames
32nd International Symposium on Combustion, 3.-8.8. 2008, McGill University, Montreal, Canada
(WIP poster)
- 237) U. Struckmeier, P. Oßwald, A. Lucassen, K. Kohse-Höinghaus, T. Wada, N. Peters
Investigation of highly diluted methane flames as an approach to low temperature combustion
32nd International Symposium on Combustion, 3.-8.8. 2008, McGill University, Montreal, Canada
(WIP poster)
- 238) K. Kohse-Höinghaus
Experimental and numerical methods to study the flame structure
6th International Seminar on Flame Structure, 14.-17.9.2008, Vrije Universiteit Brussel, Belgium
(invited lecture)
- 239) F. Reilmann, N. Bahlawane, K. Kohse-Höinghaus
Understanding CVD processes using EI-RTOF mass spectrometric in situ monitoring
42. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 8.-11.3.2009, Konstanz
(poster)
- 240) K. Kohse-Höinghaus
Chemical vapor deposition: dirty chemistry or clean materials?
Conference "From the witches cauldrons in materials science", 30.04.2009, Goslar, Germany
- 241) N. Hansen, J.A. Miller, P.R. Westmoreland, T. Kasper, K. Kohse-Höinghaus, J. Wang, T.A. Cool
Isomer-specific combustion chemistry in allene and propyne flames
6th U.S. National Combustion Meeting, 17.-20.5.2009, Ann Arbor, USA **(lecture)**
- 242) P.R. Westmoreland, W. Li, N. Hansen, T. Kasper, T. Cool, A. Lucassen, K. Kohse-Höinghaus
Advances in understanding ethyne chemistry from 45 years of MBMS flame research
6th U.S. National Combustion Meeting, 17.-20.5.2009, Ann Arbor, USA **(lecture)**
- 243) B. Yang, J. Wang, T.A. Cool, T. Kasper, N. Hansen, K. Kohse-Höinghaus, P.R. Westmoreland
MBMS study of low-pressure premixed C₅H₁₀O₂ ethyl and methyl ester flames
6th U.S. National Combustion Meeting, 17.-20.5.2009, Ann Arbor, USA **(lecture)**
- 244) W. Li, M.E. Law, P.R. Westmoreland, T. Kasper, N. Hansen, J. Wang, T.A. Cool, K. Kohse-Höinghaus
Photoionization MBMS analysis and modeling of a fuel-rich cyclohexane flame
6th U.S. National Combustion Meeting, 17.-20.5.2009, Ann Arbor, USA **(lecture)**
- 245) A. Lucassen, P. Oßwald, U. Struckmeier, K. Kohse-Höinghaus, T. Kasper, N. Hansen, N. Labbe, P.R. Westmoreland, T.A. Cool
Investigation of fuel structure effects on the combustion chemistry of nitrogen containing fuels
108. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
21.-23.5.2009, Köln **(poster)**
- 246) P. Nau, M. Köhler, B. Flottmann, K. Kohse-Höinghaus, A. Brockhinke
Quantitative detection of minor species in flames by CRD- and LIF-spectroscopy
108. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
21.-23.5.2009, Köln **(poster)**

- 247) P. Tchoua Ngamou, N. Bahlawane, K. Kohse-Höinghaus
Electric and catalytic properties of LaCoO₃ ultrathin films prepared by Chemical Vapour Deposition
108. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
21.-23.5.2009, Köln (**poster**)
- 248) A. Seipel, R. Brockhinke, K. Kohse-Höinghaus, A. Brockhinke
Flame chemiluminescence as a sensor to monitor combustion chemistry
108. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
21.-23.5.2009, Köln (**poster**)
- 249) U. Struckmeier, N. Bahlawane, P. Oßwald, A. Lucassen, K. Kohse-Höinghaus
Flow reactor studies of methane combustion at atmospheric pressure
108. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
21.-23.5.2009, Köln (**poster**)
- 250) V. Vannier, P. Tchoua Ngamou, N. Bahlawane, K. Kohse-Höinghaus
Structural and physicochemical properties of iron doped spinel cobalt oxide prepared by PSE-CVD
108. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
21.-23.5.2009, Köln (**poster**)
- 251) K. Kohse-Höinghaus
Combustion chemistry diagnostics
30th Annual Combustion Research Conference, 26.-29.5.2009, Warrenton, Virginia, USA (**invited keynote lecture**)
- 252) A. Brockhinke, P. Nau, M. Köhler, K. Kohse-Höinghaus
Analysis of reaction mechanisms in flames using combined CRD- and LIF-spectroscopy
64th International Symposium on Molecular Spectroscopy (Mini-Symposium: Cavity enhanced spectroscopy), 22.-26.6.2009, The Ohio State University, USA (**invited lecture**)
- 253) K. Kohse-Höinghaus
Investigating intermediate species chemistry in combustion
30th International Symposium on Free Radicals, 25.7.-30.7.2009, Savonlinna, Finland (**invited lecture**)
- 254) P. Nau, A. Brockhinke, K. Kohse-Höinghaus
Investigations of fuel nitrogen conversion in laminar flat flames by combined CRD- and LIF-Spectroscopy
Gordon Research Conference on Laser Diagnostics in Combustion, 16.-21.8.2009, Waterville Valley Resort, Waterville Valley, NH, USA (**poster**)
- 255) A. Lucassen, P. Oßwald, U. Struckmeier, N. Labbe, T. Kasper, K. Kohse-Höinghaus, N. Hansen, W. Li, P.R. Westmoreland, B. Yang, J. Wang, T.A. Cool
Molecular-beam mass spectrometry for flame structure analysis of nitrogen-containing model substances with various structural motifs
18th International Mass Spectrometry Conference, 30.8.-4.9.2009, Bremen (**poster**)
- 256) F. Reilmann, N. Bahlawane, F. Qi, K. Kohse-Höinghaus
Understanding the decomposition process of [SbEt₂GatBu₂]₂ from *in situ* EI- and PI-RTOF mass spectrometric analysis
18th International Mass Spectrometry Conference, 30.8.-4.9.2009, Bremen (**poster**)

- 257) U. Struckmeier, P. Oßwald, L. Böhling, M. Heusing, K. Kohse-Höinghaus
Sampling probe influences in flame sampling time-of-flight molecular-beam mass spectrometry
18th International Mass Spectrometry Conference, 30.8.-4.9.2009, Bremen (**lecture**)
- 258) N. Bahlawane, P. Tchoua Ngamou, K. Kohse-Höinghaus
Functional complex oxides: interplay between the structure, electrical properties and surface reactivity
216th Meeting of The Electrochemical Society, 4.-9.10.2009, Wien (**poster**)
- 259) K. Kohse-Höinghaus
Radical reactions in combustion
ACU IV Symposium des SFB 450 (TU Berlin), 8.-10.10.2009, Berlin (**invited lecture**)
- 260) K. Kohse-Höinghaus
Diagnostics and combustion chemistry
Aerospace Thematic Workshop: Fundamentals of Aerodynamic Flow and Combustion Control by Plasmas, 11.-16.10.2009, Les Houches, France (**invited lecture**)
- 261) N. Labbe, P.R. Westmoreland, A. Lucassen, P. Oßwald, U. Struckmeier, K. Kohse-Höinghaus, T. Kasper, N. Hansen, T.A. Cool
Mechanism development for combustion of morpholine
American Institute of Chemical Engineers, Annual Meeting, 8.-13.11.2009, Nashville, USA, 178k (**poster**)
- 262) N. Labbe, P.R. Westmoreland, A. Lucassen, P. Oßwald, U. Struckmeier, K. Kohse-Höinghaus, T. Kasper, N. Hansen, T.A. Cool
Mechanism development for combustion of morpholine
American Institute of Chemical Engineers, Annual Meeting, 8.-13.11.2009, Nashville, USA, 399d (**lecture**)
- 263) W. Li, N. Labbe, P.R. Westmoreland, B. Yang, J. Wang, T.A. Cool, T. Kasper, N. Hansen, K. Kohse-Höinghaus
Inferring fuel-rich toluene flame chemistry from photo-ionization MBMS analysis and modeling
American Institute of Chemical Engineers, Annual Meeting, 8.-13.11.2009, Nashville, USA, 673e (**lecture**)
- 264) F. Herrmann, U. Struckmeier, K. Kohse-Höinghaus
Studies of low-temperature combustion in a flow reactor at atmospheric pressure
43. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie
7.-10.03.2010, Halle (**poster**)
- 265) K. Moshhammer, C. Dreyer, U. Struckmeier, A. Lucassen, K. Kohse-Höinghaus, T. Wada, N. Peters
Low-temperature combustion – a way to reduce emissions? Investigation of a highly diluted methane flame by molecular beam mass spectrometry
43. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie
7.-10.03.2010, Halle (**poster**)

- 266) A. Lucassen, P. Oßwald, U. Struckmeier, K. Kohse-Höinghaus, T. Kasper, N. Hansen, N. Labbe, P.R. Westmoreland, T.A. Cool
Analyzing complex combustion chemistry of nitrogenated compounds with TOF-mass-spectrometry
43. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie
7.-10.03.2010, Halle (**lecture**)
- 267) F. Herrmann, U. Struckmeier, K. Kohse-Höinghaus
Flow reactor studies of low-temperature combustion at atmospheric pressure
109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
13.-15.05.2010, Bielefeld (**poster**)
- 268) A. Lucassen, P. Oßwald, U. Struckmeier, K. Kohse-Höinghaus, T. Kasper, N. Hansen, N. Labbe, P.R. Westmoreland, T.A. Cool
Fuel nitrogen conversion in model biofuels
109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
13.-15.05.2010, Bielefeld (**poster**)
- 269) P. Nau, K. Kohse-Höinghaus, A. Brockhinke
Highly sensitive cavity ring-down spectroscopy (CRDS) for investigations on fuel nitrogen conversion in laminar flat flames
109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
13.-15.05.2010, Bielefeld (**poster**)
- 270) K. Moshhammer, C. Dreyer, U. Struckmeier, A. Lucassen, Kohse-Höinghaus, T. Wada, N. Peters
Zero-emission combustion? Investigation of low-temperature methane flames by molecular beam mass spectrometry
109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
13.-15.05.2010, Bielefeld (**poster**)
- 271) N. Bahlawane, P.H. Tchoua Ngamou, K. Kohse-Höinghaus
Reactivity and electrical charge transport in doped spinel and perovskite thin and ultrathin films
109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
13.-15.05.2010, Bielefeld (**lecture**)
- 272) A. Seipel, T. Kathrotia, U. Riedel, R. Brockhinke, K. Kohse-Höinghaus, A. Brockhinke
Spectrally- and spatially-resolved measurement of chemiluminescence emissions in one-dimensional flames
109. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie
13.-15.05.2010, Bielefeld (**lecture**)
- 273) N. Hansen, T. Kasper, B. Yang, T.A. Cool, W. Li, P.R. Westmoreland, P. Oßwald, K. Kohse-Höinghaus
Fuel-structure dependence of benzene formation processes in premixed flames fueled by C₆H₁₂ isomers
33rd International Symposium on Combustion
1.-6.8.2010, Tsinghua University, Beijing, China (**lecture**)
- 274) Z. Wang, A. Lucassen, L. Zhang, J. Yang, K. Kohse-Höinghaus, F. Qi
Experimental and theoretical studies on decomposition of pyrrolidine
33rd International Symposium on Combustion
1.-6.8.2010, Tsinghua University, Beijing, China (**lecture**)

- 275) A. Seipel, R. Brockhinke, K. Kohse-Höinghaus, A. Brockhinke
Monitoring combustion chemistry via chemiluminescence
33rd International Symposium on Combustion
1.-6.8.2010, Tsinghua University, Beijing, China (**WIP poster**)
- 276) W. Li, M.E. Law, P.R. Westmoreland, T. Kasper, N. Hansen, J. Wang, T.A. Cool, K. Kohse-Höinghaus
Competing paths for benzene formation in cyclohexane premixed flat flames
33rd International Symposium on Combustion
1.-6.8.2010, Tsinghua University, Beijing, China (**WIP poster**)
- 277) P. Oßwald, H. Guldenberg, K. Kohse-Höinghaus, B. Yang, T. Yuan, F. Qi
Combustion chemistry of the four butanol isomers – a detailed experimental investigation of their premixed, low pressure flames
1st Annual Meeting of COST, 15.-17.9.2010, Nancy, France (**poster**)
- 278) A. Seipel, M. Heusing, R. Brockhinke, K. Kohse-Höinghaus, A. Brockhinke
Chemiluminescence emissions in one-dimensional flames: Spectrally- and spacially-resolved measurements
International Discussion Meeting: Combustion Diagnostics – Key to Understanding Fundamental Flame Processes, 4.-5.11.2010, Seeheim (**poster**)
- 279) M. Letzgus, A. Brockhinke, K. Kohse-Höinghaus
Numerical approaches for spectral simulation of small radicals
International Discussion Meeting: Combustion Diagnostics – Key to Understanding Fundamental Flame Processes, 4.-5.11.2010, Seeheim (**poster**)
- 280) K. Kohse-Höinghaus
Biofuel combustion chemistry: pathways towards a new pollutant balance
Saudi-Arabian Section of the Combustion Institute, Inauguration Meeting, 16.1.2011, KAUST, Thuwal, Saudi-Arabia (**invited lecture**)
- 281) F. Herrmann, U. Struckmeier, K. Kohse-Höinghaus, B. Jochim, N. Peters, H. Pitsch
Experimental and modeling flow reactor studies of the low-temperature combustion of methane
44. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 27.2.-2.3.2011, Dortmund (**poster**)
- 282) A. Lucassen, P. Oßwald, N. Labbe, K. Kohse-Höinghaus, P.R. Westmoreland
Combustion behavior of nitrogen containing model biofuels
44. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 27.2.-2.3.2011, Dortmund (**poster**)
- 283) M. Schenk, P. Oßwald, A. Lucassen, K. Moshhammer, F. Herrmann, K. Kohse-Höinghaus
Investigation of combustion chemistry by the powerful combination of molecular beam mass spectrometry and chromatography
44. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 27.2.-2.3.2011, Dortmund (**poster**)
- 284) B. Yang, T.A. Cool, C.K. Westbrook, N. Hansen, K. Kohse-Höinghaus
The effect of carbon-carbon double bonds of the combustion chemistry of fatty acid esters
The 7th U.S. National Combustion Meeting, 20.-23.3.2011, Georgia Institute of Technology, Atlanta, USA (**lecture**)

- 285) W. Li, M.E. Law, P.R. Westmoreland, T. Kasper, N. Hansen, K. Kohse-Höinghaus
Multiple benzene-formation paths in a fuel-rich cyclohexane flame
The 7th U.S. National Combustion Meeting, 20.-23.3.2011, Georgia Institute of Technology,
Atlanta, USA (**lecture**)
- 286) N. Labbe, A. Lucassen, P.R. Westmoreland, K. Kohse-Höinghaus
Mechanistic insights into nitrogen fate in a morpholine flat flame
The 7th U.S. National Combustion Meeting, 20.-23.3.2011, Georgia Institute of Technology,
Atlanta, USA (**lecture**)
- 287) S.M. Sarathy, C.K. Westbrook, M. Mehl, W.J. Pitz, K. Yasunaga, H.J. Curran, T.
Tsuji-mura, P. Oßwald, K. Kohse-Höinghaus
The combustion chemistry of butanol isomers
The 7th U.S. National Combustion Meeting, 20.-23.3.2011, Georgia Institute of Technology,
Atlanta, USA (**lecture**)
- 288) R. Noske, M. Heusing, A. Seipel, K. Kohse-Höinghaus, A. Brockhinke
Using chemiluminescence to monitor and control instationary combustion
110. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 2.-
4.6.2011, Berlin (**poster**)
- 289) K. Moshhammer, K. Zhang, F. Herrmann, A. Lucassen, P. Oßwald, M. Schenk, K. Kohse-
Höinghaus
Low-temperature combustion – a strategy for cleaner combustion?
110. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 2.-
4.6.2011, Berlin (**poster**)
- 290) A. Lucassen, K. Moshhammer, P. Oßwald, M. Schenk, F. Herrmann, K. Kohse-Höinghaus
Analyzing the pollution potential of modern biofuels with TOF mass spectrometry
110. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 2.-
4.6.2011, Berlin (**poster**)
- 291) K. Kohse-Höinghaus
Verbrennungsforschung für die Zukunft - Neue Treibstoffe für Auto und Co.
Ringvorlesung zum Jahr der Chemie 2011, Akademie der Wissenschaften und Georg-August-
Universität Göttingen, 07.06.2011 (**invited lecture**)
- 292) K. Kohse-Höinghaus
Teaching Science
36th International Conference on Improving University Teaching, 19.-22.07.2011, Bielefeld
University (**invited plenary lecture**)
- 293) P. Nau, A. Lackner, A. Brockhinke, K. Kohse-Höinghaus
Mid-infrared Cavity Ring-down Spectroscopy in flames
Gordon Research Conference on Laser Diagnostics in Combustion, 14.-19.08.2011, Waterville
Valley, NH, USA (**poster**)
- 294) P. Nau, K. Kohse-Höinghaus, A. Brockhinke
MIR absorption spectroscopy in laminar flames with a quantum cascade laser
Gordon Research Conference on Laser Diagnostics in Combustion, 14.-19.08.2011, Waterville
Valley, NH, USA (**poster**)

- 295) K. Kohse-Höinghaus
Needs for combustion measurements
Workshop on Techniques for High-Pressure Combustion, 29.8.-1.9.2011, Argonne National Laboratory, IL, USA (**invited lecture**)
- 296) K. Kohse-Höinghaus
Verbrennung von Biokraftstoffen
GDCh-Wissenschaftsforum Chemie 2011, 4.-7.9.2011, Bremen (**invited lecture**)
- 297) P. Oßwald, M. Schenk, K. Kohse-Höinghaus
Combustion of butene isomers – a detailed experimental investigation of their premixed, flat flames
2nd Annual Meeting of COST, 7.-9.9.2011, Zaragoza, Spain (**oral presentation**)
- 298) K. Kohse-Höinghaus
Combustion diagnostics meeting new challenges
International Workshop on Frontiers in Synchrotron Tools for Studies of Combustion and Energy Conversion, 14.-18.10.2011, Shanghai, China (**invited lecture**)
- 299) K. Kohse-Höinghaus
Combustion from a chemist's perspective
CECOST 14th Annual Seminar, 17.-18.11.2011, Lund, Sweden (**invited lecture**)
- 300) K. Kohse-Höinghaus
Chemistry and combustion – new challenges for an old science
43rd KOSCO Symposium, 1.-2.12.2011, Gyeongju, Republic of Korea (**invited lecture**)
- 301) K. Moshhammer, K. Zhang, P. Oßwald, K. Kohse-Höinghaus
Investigation of highly diluted dimethyl ether flames by mass spectrometry
Joint Conference of the Polish Mass Spectrometry Society and German Mass Spectrometry Society, 4.-7.3.2012, Poznan, Poland (**poster**)
- 302) P. Mountapmbeme Kouotou, Z.-Y. Tian, K. Kohse-Höinghaus
Synthesis of Co_3O_4 spinel by PSE-CVD and its application in catalytic combustion of *n*-butanol
111. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 17.-19.5.2012, Leipzig (**poster**)
- 303) Z.-Y. Tian, N. Bahlawane, V. Vannier, K. Kohse-Höinghaus
Catalytic behavior of cobalt-manganese oxides prepared by pulsed-spray evaporation chemical vapor deposition
111. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 17.-19.5.2012, Leipzig (**lecture**)
- 304) K. Kohse-Höinghaus
The role of advanced diagnostics in combustion chemistry research
1st International Workshop on Flame Chemistry, 28.-29.07.2012, Warsaw, Poland (**invited plenary lecture**)
- 305) F. Herrmann, P. Oßwald, K. Kohse-Höinghaus
Mass spectrometric investigation of the low-temperature dimethyl ether oxidation in an atmospheric-pressure laminar flow reactor
34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**lecture**)

- 306) K. Zhang, K. Moshhammer, P. Oßwald, K. Kohse-Höinghaus
 Experimental investigation of partially premixed, highly-diluted dimethyl ether flames at low temperatures
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**lecture**)
- 307) Z.-Y. Tian, N. Bahlawane, V. Vannier, K. Kohse-Höinghaus
 Structure sensitivity of propene oxidation over Co-Mn spinels
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**lecture**)
- 308) A. Lucassen, Z. Wang, L. Zhang, F. Zhang, W. Yuan, Y. Wang, F. Qi, K. Kohse-Höinghaus
 An experimental and theoretical study of pyrrolidine pyrolysis at low pressure
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**lecture**)
- 309) N.J. Labbe, V. Seshadri, T. Kasper, N. Hansen, P. Oßwald, K. Kohse-Höinghaus, P.R. Westmoreland
 Flame chemistry of tetrahydropyran as a model heteroatomic biofuel
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**lecture**)
- 310) B. Yang, C.K. Westbrook, T.A. Cool, N. Hansen, K. Kohse-Höinghaus
 Photoionization mass spectrometry and modeling study of premixes flames of three unsaturated C₅H₈O₂ esters
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**lecture**)
- 311) J. Weng, L. Jia, Y. Wang, S. Sun, X. Tang, Z. Zhou, K. Kohse-Höinghaus, F. Qi
 Pyrolysis study of poplar biomass by tunable synchrotron vacuum ultraviolet photoionization mass spectrometry
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**lecture**)
- 312) P. Mountapmbeme Kouotou, Z.-Y. Tian, U. Mundloch, K. Kohse-Höinghaus
 Catalytic combustion of CO and propene over Co₃O₄ spinel prepared by chemical vapor deposition
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 313) Z.-Y. Tian, T. Chafik, M. Assebban, S. Harti, N. Bahlawane, P. Mountapmbeme Kouotou, K. Kohse-Höinghaus
 Catalytic activity of natural clay toward the combustion of biofuel
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 314) C. Togbé, D. Liu, L.-S. Tran, D. Felsmann, P. Oßwald, K. Kohse-Höinghaus
 Experimental study of laminar premixed 2,5-dimethylfuran/oxygen/argon flame - Formation of pollutants
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 315) D. Liu, C. Togbé, L.-S. Tran, D. Felsmann, P. Oßwald, K. Kohse-Höinghaus
 Combustion chemistry study of furan in laminar premixed low-pressure flames using molecular-beam mass spectrometry
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 316) F. Herrmann, P. Oßwald, K. Kohse-Höinghaus, Z. Wang, Z. Cheng, W. Yuan, Y. Wang, F. Qi
 Investigation of dimethyl ether as an alternative cleaner fuel
 34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)

- 317) F. Herrmann, B. Jochim, P. Oßwald, L. Cai, K. Kohse-Höinghaus, N. Peters, H. Pitsch
Comparison of experimental and numerical flow-reactor studies in the low-temperature regime for dimethyl ether and ethanol
34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 318) K. Moshhammer, D. Mayer, K. Zhang, P. Oßwald, H. Pitsch, K. Kohse-Höinghaus
Low-temperature flames of dimethyl ether under highly diluted atmospheric-pressure conditions
34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 319) L.-S. Tran, C. Togbé, D. Liu, D. Felsmann, P. Oßwald, P.-A. Glaude, F. Battin-Leclerc, K. Kohse-Höinghaus
Study of the structure of laminar premixed flames of methyl furan/oxygen/argon using molecular-beam mass spectrometry
34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 320) M. Schenk, S. Lieb, H. Vieker, A. Beyer, A. Götzhäuser, H. Wang, K. Kohse-Höinghaus
Probing nascent soot in burned stabilized ethylene flames: a comparison of several microscopic techniques
34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 321) K. Moshhammer, H.K. Chakravarty, R.X. Fernandes, N. Hansen, K. Kohse-Höinghaus
Investigation of the combustion chemistry of 2-methyltetrahydrofuran
34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 322) M. Schenk, L. Leon, P. Oßwald, K. Moshhammer, K. Kohse-Höinghaus, T. Zeuch, L. Seidel, F. Mauss
Investigation of the detailed combustion chemistry of the butene isomers
34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 323) L. Leon, L. Seidel, F. Mauss, T. Zeuch, P. Oßwald, M. Schenk, K. Kohse-Höinghaus
A detailed chemical reaction mechanism for fuel mixtures and oxygenated species extended to C₄ chemistry
34th International Symposium on Combustion, 29.7.-3.8.2012, Warsaw, Poland (**WIP poster**)
- 324) C. Togbé, D. Liu, L.-S. Tran, D. Felsmann, P. Oßwald, P.-A. Glaude, F. Battin-Leclerc, K. Kohse-Höinghaus
Combustion chemistry study of furan family in laminar premixed low-pressure flames using molecular beam mass spectrometry
3rd Annual Meeting of COST, 5.-7.9.2012, Sofia, Bulgaria (**lecture**)
- 325) L. Leon, L. Seidel, F. Mauss, T. Zeuch, M. Schenk, P. Oßwald, K. Kohse-Höinghaus
A comprehensive chemical reaction mechanism for C₁-C₄ fuel mixtures including oxygenated species
3rd Annual Meeting of COST, 5.-7.9.2012, Sofia, Bulgaria (**lecture**)
- 326) L.-S. Tran, C. Togbé, D. Liu, D. Felsmann, P. Oßwald, P.-A. Glaude, F. Battin-Leclerc, K. Kohse-Höinghaus
Study of the combustion chemistry of methyl furan in laminar premixed flames using molecular-beam mass spectrometry
3rd Annual Meeting of COST, 5.-7.9.2012, Sofia, Bulgaria (**poster**)
- 327) K. Kohse-Höinghaus (Wilhelm-Jost-Gedächtnisvorlesung 2012)
Physikalische Chemie: Diagnostik am Puls chemischer Veränderung
31.10.12: Berlin, 01.11.12: Leipzig, 06.11.12: Darmstadt, 14.11.12: Marburg, 22.11.12: Göttingen

- 328) K. Kohse-Höinghaus
Forschungsergebnisse: Gedankengebäude mit Verfallsdatum?
Leopoldina-Workshop *Nachhaltigkeit in der Wissenschaft*, 12.11.2012, Berlin
- 329) K. Kohse-Höinghaus
(Bio)-fuel combustion: chemical challenges
Festveranstaltung zur Verleihung des Clara-Immerwahr-Preises 2013, 11.02.2013, TU Berlin, Berlin (**invited lecture**)
- 330) K. Kohse-Höinghaus
Combustion Chemistry
AAAS Annual Meeting, 14.-18.2.2013, Boston, USA (**invited lecture**)
- 331) D. Felsmann, K. Moshhammer, M. Schenk, K. Kohse-Höinghaus
Towards understanding combustion – flame chemistry analysis with advanced molecular-beam mass spectrometry
46. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 10.-13.03.2013, Berlin (**poster**)
- 332) Z. D. Wang, F. Herrmann, K. Kohse-Höinghaus
Experimental investigation of the low-temperature oxidation of dimethyl ether using molecular-beam mass spectrometry
46. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, 10.-13.03.2013, Berlin (**poster**)
- 333) L.-S. Tran, C. Togbé, D. Liu, D. Felsmann, P. Oßwald, P.-A. Glaude, B. Sirjean, R. Fournet, F. Battin-Leclerc, K. Kohse-Höinghaus
Soot precursor formation in the combustion of furans
COST Joint Working Group Meeting "Soot and PAHs", 10.-12.04.2013, Sorrento, Italy (**lecture**)
- 334) K. Moshhammer, D. Mayer, H. Pitsch, K. Kohse-Höinghaus
Experimental investigations and kinetic modelling of highly-diluted low-temperature flames
112. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 09.-11.05.2013, Karlsruhe (**poster**)
- 335) J. Koppmann, A. Brockhinke, K. Kohse-Höinghaus
Contributions to combustion chemistry research
8th U. S. National Combustion Meeting, 19.-22.05.2013, University of Utah, Salt Lake City, USA (**invited plenary lecture**)
- 336) L.-S. Tran, C. Togbé, D. Liu, D. Felsmann, P. Oßwald, P.-A. Glaude, B. Sirjean, R. Fournet, F. Battin-Leclerc, K. Kohse-Höinghaus
Experimental and modeling study of combustion chemistry of furan family in laminar premixed low-pressure flames
2nd COST Topical Workshop: Kinetic studies using laminar flames, 25.06.2013, Lund, Sweden (**lecture**)
- 337) K. Kohse-Höinghaus
Clean combustion: Challenges and research opportunities for chemists
6th European Combustion Meeting, 25.-28.6.2013, Lund, Sweden (**invited plenary lecture**)

- 338) Z. Wang, L. Ye, L. Zhang, F. Zhang, J. Yang, H. Jin, Y. Li, K. Kohse-Höinghaus, F. Qi
An experimental and kinetic modeling study on premixed methylcyclohexane flames at low pressure
6th European Combustion Meeting, 25.-28.6.2013, Lund, Sweden (**poster**)
- 339) M.L. Fischer, E. Goos, P. Oßwald, M. Köhler, K. Moshhammer, K. Kohse-Höinghaus, U. Riedel
Kinetic modeling study of the oxidation of larger methylated hydrocarbons
14th International Conference on Numerical Combustion, 8.-10.8.2013, San Antonio, TX, USA (**lecture**)
- 340) K. Kohse-Höinghaus
Combustion chemistry diagnostics
Gordon Research Seminar on Laser Diagnostics in Combustion, 10.-11.8.2013, Waterville Valley Resort, Waterville Valley, NH, USA (**invited keynote lecture**)
- 341) K. Kohse-Höinghaus
Clean combustion – a chemist's view
8th Mediterranean Combustion Symposium, 8.-13.09.2013, Izmir, Turkey (**invited plenary lecture**)
- 342) L. Seidel, K. Moshhammer, X. Wang, T. Zeuch, F. Mauss, K. Kohse-Höinghaus
Kinetic modelling and experimental study of a fuel rich, premixed n-heptane flame
4th Annual Meeting of COST, 16.-18.09.2013, Perugia, Italy (**lecture**)
- 343) K. Kohse-Höinghaus
Clean(er) combustion needs reliable species information
Workshop VUV FELs in Molecular, Cluster and Surface Science: A Future Frontier for Energy Research, 22.-27.09.2013, Dalian, China (**invited lecture**)
- 344) K. Kohse-Höinghaus
Developments in combustion chemistry diagnostics
The International Workshop on Frontiers of Combustion Chemistry, 26.-29.09.2013, Huangshan, China (**invited plenary lecture**)
- 345) Zhen-Yu Tian, Patrick Mountapmbeme Kouotou, Katharina Kohse-Höinghaus
Catalytic combustion of propene over transition metal oxides
The International Workshop on Frontiers of Combustion Chemistry, 26.-29.09.2013, Huangshan, China (**lecture**)
- 346) K. Kohse-Höinghaus
Könnten das Sie sein?
Tageskongress der Gesellschaft Deutscher Naturforscher und Ärzte "Frauen in Naturwissenschaft, Medizin und Technik", 25.10.2013, Berlin (**invited lecture**)
- 347) H. Vieker, A. Beyer, Z.-Y. Tian, P. Mountapmbeme Kouotou, A. El Kasmi, K. Kohse-Höinghaus, A. Gölzhäuser
HiM of CVD-grown films: transition metals and catalytically active transition metal oxides
AVS 60th International Symposium & Exhibition, 27.10.-01.11.2013, Long Beach, CA, USA (**lecture**)

- 348) M. Schenk, S. Lieb, H. Vieker, A. Beyer, A. Götzhäuser, H. Wang, K. Kohse-Höinghaus
Imaging nascent soot particles: Tiniest soot particles are not structurally homogeneous
AVS 60th International Symposium & Exhibition, 27.10.-01.11.2013, Long Beach, CA, USA
(poster)
- 349) K. Kohse-Höinghaus
Exzellenz – geplant, verdient, erworben?
Tagung des Österreichischen Wissenschaftsrates "Exzellenz in der Wissenschaft – Österreich im internationalen Vergleich", 07.-08.11.2013, Wien (invited lecture)
- 350) K. Kohse-Höinghaus
Wissenschaftlicher Erfolg – vom Plan zur Erkenntnis?
5. Interdisziplinäres Forum "Inhalte und Grenzen der Planbarkeit" der Nordrhein-Westfälischen Akademie der Wissenschaften und der Künste, 29.11.2013, Düsseldorf (invited lecture)
- 351) K. Kohse-Höinghaus
Combustion: Important science for the future
51st Symposium (Japanese) on Combustion, 04.-06.12.2013, Tokio, Japan (invited lecture)
- 352) K. Kohse-Höinghaus
(Bio)fuel and future
49th Winter Seminar "Biophysical Chemistry, Molecular Biology and Cybernetics of Cell Functions", 11.-25.01.2014, Klosters, Switzerland (invited lecture)
- 353) M. Schenk, S. Lieb, H. Vieker, A. Beyer, A. Götzhäuser, H. Wang, K. Kohse-Höinghaus
Probing structural aspects of <10 nm-sized young soot
113. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 29.-31.05.2014, Hamburg (poster, Poster Award)
- 354) K. Kohse-Höinghaus
Combustion chemistry
14th French School of Combustion, 02.-07.05.2014, Les Hauts de Bruyères, Chaumont-sur-Tharonne, France (invited lecture)
- 355) S.M. Sarathy, P. Oßwald, N. Hansen, K. Kohse-Höinghaus
Alcohol combustion chemistry
2nd International Conference of the Cluster of Excellence "Tailor-Made Fuels from Biomass", 16.-18.06.2014, Aachen (lecture)
- 356) K. Kohse-Höinghaus
Optical diagnostics in combustion and beyond
Award ceremony "SAOT Young Researcher Award", Friedrich-Alexander Universität Erlangen-Nürnberg, 10.07.2014, Nürnberg (invited lecture)
- 357) K. Kohse-Höinghaus
Combustion experiments for kinetic mechanism development
23rd International Symposium on Gas Kinetics and Related Phenomena, 20.-25.07.2014, Szeged, Hungary (invited lecture)

- 358) D. Felsmann, K. Moshhammer, J. Krüger, A. Lackner, A. Brockhinke, T. Kasper, T. Bierkandt, E. Akyildiz, N. Hansen, A. Lucassen, P. Oßwald, M. Köhler, G.A. Garcia, L. Nahon, P. Hemberger, A. Bodi, T. Gerber, K. Kohse-Höinghaus
Electron ionization, photoionization and photoelectron/photoion coincidence spectroscopy in mass-spectrometric investigations of a low-pressure ethylene/oxygen flame
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**lecture**)
- 359) V. Gururajan, F.N. Egolfopoulos, K. Kohse-Höinghaus
Direct numerical simulations of probe effects in low-pressure flame sampling
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**lecture**)
- 360) M. Schenk, S. Lieb, H. Vieker, A. Beyer, A. Gölzhäuser, H. Wang, K. Kohse-Höinghaus
Morphology of nascent soot in ethylene flames
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**lecture**)
- 361) M. Schenk, N. Hansen, H. Vieker, A. Beyer, A. Gölzhäuser, K. Kohse-Höinghaus
PAH formation and soot morphology in flames of C₄ fuels
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**lecture**)
- 362) Z.-Y. Tian, P. Mountapmbeme Kouotou, A. El Kasmi, P.H. Tchoua Ngamou, K. Kohse-Höinghaus, H. Vieker, A. Beyer, A. Gölzhäuser
Low-temperature deep oxidation of olefins and DME over cobalt ferrite
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**lecture**)
- 363) L.S. Tran, B. Sirjean, P.A. Glaude, K. Kohse-Höinghaus, F. Battin-Leclerc
Influence of substituted furans on the formation of polycyclic aromatic hydrocarbons in flames
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**lecture**)
- 364) X. Yang, D. Felsmann, N. Kurimoto, J. Krüger, T. Wada, T. Tan, E.A. Carter, K. Kohse-Höinghaus, Y. Ju
Kinetic studies of methyl acetate pyrolysis and oxidation in a flow reactor and a low-pressure flat flame using molecular-beam mass spectrometry
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**lecture**)
- 365) D. Felsmann, C. Hemken, K. Moshhammer, K. Kohse-Höinghaus
Low-temperature combustion chemistry – detailed speciation experiments
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**WIP poster**)
- 366) J. Krüger, K. Kohse-Höinghaus, A. Brockhinke
The role of CO₂* on chemiluminescence sensors for active control
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**WIP poster**)
- 367) D. Mayer, K. Moshhammer, L. Cai, H. Pitsch, K. Kohse-Höinghaus
A numerical study of highly-diluted, burner stabilized dimethyl ether flames
35th International Symposium on Combustion, 3.-8.8.2014, San Francisco, USA (**WIP poster**)
- 368) L. Seidel, K. Moshhammer, X. Wang, T. Zeuch, F. Mauss, K. Kohse-Höinghaus
Combined kinetic modelling and experimental study of a fuel rich, premixed n-heptane flame
8th International Seminar on Flame Structure, 21.-24.09.2014, Berlin Institute of Technology (**lecture**)
- 369) M. Schenk, S. Lieb, H. Vieker, A. Beyer, A. Gölzhäuser, H. Wang, K. Kohse-Höinghaus
Probing structural aspects of <10nm-sized young soot
AVS 61st International Symposium & Exhibition, 09.-14.11.2014, Baltimore, MD, USA (**poster**)

- 370) K. Kohse-Höinghaus
 Combustion chemistry research – a prerequisite for emission control
 28th Annual Symposium of the Israeli Section of the Combustion Institute, 18.12.2014, Tel Aviv, Israel (**invited keynote lecture**)
- 371) K. Moshhammer, A.W. Jasper, D.M. Popolan-Vaida, A. Lucassen, P. Diévar, H. Selim, A.J. Eskola, C.A. Taatjes, S.M. Sarathy, Y. Ju, P. Dagaut, K. Kohse-Höinghaus, N. Hansen
 Advanced insights in low-temperature oxidation of dimethyl ether – a theoretical and experimental approach
 9th U.S. National Combustion Meeting, 17.-20.05.2015, Cincinnati, OH, USA (**lecture**)
- 372) L. Seidel, K. Moshhammer, C. Klauer, T. Zeuch, K. Kohse-Höinghaus, F. Mauss
 Comprehensive kinetic modeling and experimental study of a fuel-rich, premixed *n*-heptane flame
 3rd Topical COST (SMARTCATS) Workshop: Taming uncertainty in combustion chemistry: experiments and models, 30.03.2015, Budapest, Hungary (**lecture**)
- 373) L. Ruwe, M. Schenk, D. Emmrich, H. Vieker, A. Beyer, A. Gölzhäuser, K. Kohse-Höinghaus
 Structural details of combustion-generated soot particles
 114. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 14.-16.05.2015, Bochum (**poster**)
- 374) A. Lucassen, K. Moshhammer, C. Togbé, K. Kohse-Höinghaus, N. Hansen
 Is 2-methylfuran a clean biofuel?
 114. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 14.-16.05.2015, Bochum (**lecture**)
- 375) K. Kohse-Höinghaus
 Challenges in alternative fuels
 International Combustion Institute Summer School, 8.-12.06.2015, São Paulo, Brazil (**invited keynote lecture**)
- 376) K. Kohse-Höinghaus
 Biofuel combustion chemistry – diagnostic advances and challenges
 3rd TMFB International Conference, 23.-25.06.2015, Aachen (**invited keynote lecture**)
- 377) K. Kohse-Höinghaus
 Some like it hot – Combustion and the Future (**Lectio Magistralis**)
 Giulio Natta Award, 06.11.2015, Politecnico di Milano, Italy
- 378) J. Pieper, M. Zeng, L.-S. Tran, I. Graf, K. Kohse-Höinghaus
 Structural effects of the biofuel isomers diethyl ether and *n*-butanol on the flame chemistry of premixed *n*-butane flames
 KAUST Future Fuels Workshop, 07.-09.03.2016, Thuwal, Saudi Arabia (**poster**)
- 379) C. Hemken, U. Burke, I. Graf, L. Ruwe, S. Park, S.M. Sarathy, K.A. Heufer, K. Kohse-Höinghaus
 Experimental and kinetic study of the combustion of 2-butanone – a potential new biofuel
 KAUST Future Fuels Workshop, 07.-09.03.2016, Thuwal, Saudi Arabia (**poster**)

- 380) C. Hemken, U. Burke, K.A. Heufer, I. Graf, L. Ruwe, K. Kohse-Höinghaus
2-Butanone as an advanced biofuel – assessment of potential combustion emissions
115. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 5.-
7.05.2016, Rostock (**poster**)
- 381) J. Pieper, M. Zeng, L.-S. Tran, I. Graf, K. Kohse-Höinghaus
Influence of the biofuel isomers diethyl ether and *n*-butanol on pollutant formation in premixed *n*-
butane flames
115. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 5.-
7.05.2016, Rostock (**poster**)
- 382) L. Ruwe, K. Kohse-Höinghaus
Fuel-structure dependence of soot precursor formation processes in non-premixed laminar
opposed-flow diffusion flames
115. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 5.-
7.05.2016, Rostock (**poster**)
- 383) D. Felsmann, H. Zhao, Q. Wang, I. Graf, T. Tan, X. Yang, E.A. Carter, Y. Ju, K. Kohse-
Höinghaus
Contributions to improving small ester combustion chemistry: theory, model and experiments
36th International Symposium on Combustion, 31.7.-5.8.2016, Seoul, Korea (**lecture**)
- 384) C. Hemken, U. Burke, I. Graf, L. Ruwe, S. Park, S.M. Sarathy, K.A. Heufer, K. Kohse-
Höinghaus
A laminar flame investigation of 2-butanone, and the combustion-related intermediates formed
through its oxidation
36th International Symposium on Combustion, 31.7.-5.8.2016, Seoul, Korea (**lecture**)
- 385) L.-S. Tran, J. Pieper, H.-H. Carstensen, H. Zhao, I. Graf, Y. Ju, F. Qi, K. Kohse-Höinghaus
Experimental and kinetic modeling study of diethyl ether flames
36th International Symposium on Combustion, 31.7.-5.8.2016, Seoul, Korea (**lecture**)
- 386) J. Pieper, L.-S. Tran, M. Zeng, Y. Li, F. Qi, K. Kohse-Höinghaus
Chemistry of C4-fuel combinations: reaction pathways in *n*-butane flames upon addition of the
biofuel isomers diethyl ether or *n*-butanol
36th International Symposium on Combustion, 31.7.-5.8.2016, Seoul, Korea (**WIP poster**)
- 387) J. Pieper, D. Felsmann, A. Lucassen, J. Krüger, G.A. Garcia, L. Nahon, A. Brockhinke, K.
Kohse-Höinghaus
Fixed-photon-energy double-imaging photoelectron/photoion coincidence (*i*²PEPICO)
spectroscopy for combustion analysis
36th International Symposium on Combustion, 31.7.-5.8.2016, Seoul, Korea (**WIP poster**)
- 388) L. Ruwe, K. Moshhammer, N. Hansen, K. Kohse-Höinghaus
Fuel-structure dependence of hydrocarbon consumption and growth processes in flames fueled by
C5-fuels
36th International Symposium on Combustion, 31.7.-5.8.2016, Seoul, Korea (**WIP poster**)
- 389) K. Kohse-Höinghaus, Andreas Brockhinke
Photons, electrons, and ions: Detective work in combustion chemistry research
OSA Meeting *Light, Energy and the Environment*, 14.-17.11.2016, Leipzig (**invited lecture**)

- 390) D. Emmrich, M. Salamanca, L. Ruwe, H. Vieker, A. Beyer, K. Kohse-Höinghaus, A. Gölzhäuser
Metrology on nascent soot particles from flames by Helium Ion Microscopy
DPG-Frühjahrstagung, 19.-24.03.2017, Dresden, Germany (**lecture**)
- 391) L. Ruwe, L. Leon, K. Moshhammer, L. Seidel, N. Hansen, F. Mauss, K. Kohse-Höinghaus
Experimental and modeling study in a premixed 2-methyl-2-butene flame
8th European Combustion Meeting, 18.-21.4.2017, Dubrovnik, Croatia (**poster**)
- 392) K. Moshhammer, N. Hansen, L. Ruwe, K. Kohse-Höinghaus
Combustion chemistry of *n*-pentane – an extensive experimental study
8th European Combustion Meeting, 18.-21.4.2017, Dubrovnik, Croatia (**poster**)
- 393) Z. Wang, B. Chen, K. Moshhammer, D.M. Popolan-Vaida, S. Sioud, V.S. Bhavani Shankar, D. Vuilleumier, T. Tao, L. Ruwe, E. Bräuer, N. Hansen, P. Dagaut, K. Kohse-Höinghaus, M.A. Raji, S.M. Sarathy
Detection oxygenated intermediates from the low-temperature oxidation of *n*-heptane in a stirred reactor and motored engine
8th European Combustion Meeting, 18.-21.4.2017, Dubrovnik, Croatia (**poster**)
- 394) H. Hansen, J. Wullenkord, D.A. Obenchain, K. Kohse-Höinghaus, J.-U. Grabow
Fourier transform microwave spectroscopic studies of dimethyl ether and ethylene flames
10th U.S. National Combustion Meeting, 23.-26.04.2017, College Park, MD, USA (**lecture**)
- 395) C. Hemken, U. Burke, J. Pieper, R. Büttgen, K.A. Heufer, K. Kohse-Höinghaus
Effect of the carbonyl group in the oxidation of small methyl ketones
116. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.05.2017, Kaiserslautern (**lecture**)
- 396) M. Salamanca, L. Ruwe, K. Kohse-Höinghaus
Effects of unsaturated methyl esters on soot precursors
116. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.05.2017, Kaiserslautern (**poster**)
- 397) S. Schmitt, J. Pieper, J. Krüger, G.A. Garcia, L. Nahon, W. Eisfeld, A. Brockhinke, K. Kohse-Höinghaus
Double-imaging fixed-photon-energy photoelectron/photoion coincidence (i^2 PEPICO) spectroscopy for combustion analysis
116. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.05.2017, Kaiserslautern (**poster**)
- 398) J. Wullenkord, M. Zeng, I. Graf, K. Kohse-Höinghaus
Influence of small ether addition on combustion-related intermediates and flame structure in premixed *n*-heptane flames
116. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.05.2017, Kaiserslautern (**poster**)
- 399) L. Ruwe, L. Leon, K. Moshhammer, L. Seidel, N. Hansen, F. Mauss, K. Kohse-Höinghaus
Experimental and modeling investigation on fuel-structure-dependent reaction pathways in C₅-flames
116. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-27.05.2017, Kaiserslautern (**poster**)

- 400) D.A. Obenchain, J. Wullenkord, K. Kohse-Höinghaus, J.-U. Grabow, N. Hansen
Fourier transform microwave spectroscopic studies of dimethyl ether and ethylene flames
116. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 25.-
27.05.2017, Kaiserslautern (**lecture**)
- 401) D.A. Obenchain, J. Wullenkord, K. Kohse-Höinghaus, J.-U. Grabow, N. Hansen
Fourier transform microwave spectroscopic studies of dimethyl ether and ethylene flames
International Symposium on Molecular Spectroscopy, 19.-23.06.2017, Champaign-Urbana, IL,
USA (**lecture**)
- 402) C. Betrancourt, F. Liu, P. Desgroux, X. Mercier, A. Faccinetto, M. Salamanca, L. Ruwe, K.
Kohse-Höinghaus, D. Emmrich, A. Beyer, A. Gölzhäuser, T. Tritscher
Comparison of LII, HIM and 1nm-SMPS measurements of incipient soot particle sizes in flat
premixed *n*-butane sooting and nucleation flames
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-
23.06.2017, Bielefeld (**poster**)
- 403) H. Jin, E. Bräuer, J. Pieper, L. Ruwe, C. Hemken, L.-S. Tran, K. Kohse-Höinghaus
Chemical interaction of dual-fuel mixtures in low-temperature oxidation, comparing *n*-
pentane/dimethyl ether and *n*-pentane/ethanol
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-
23.06.2017, Bielefeld (**poster**)
- 404) J. Pieper, S. Schmitt, J. Krüger, G.A. Garcia, L. Nahon, W. Eisfeld, A. Brockhinke, K.
Kohse-Höinghaus
Isomer selective combustion analysis by double-imaging fixed-photon-energy
photoelectron/photoion coincidence (i²PEPICO) spectroscopy
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-
23.06.2017, Bielefeld (**poster**)
- 405) L. Ruwe, K. Moshhammer, N. Hansen, K. Kohse-Höinghaus
Influence of the fuel structure on the combustion chemistry of C₅-fuels
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-
23.06.2017, Bielefeld (**poster**)
- 406) M. Salamanca, L. Ruwe, K. Kohse-Höinghaus
Effects of the unsaturation degree in methyl esters on the combustion process
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-
23.06.2017, Bielefeld (**poster**)
- 407) S. Schmitt, I. Graf, B. Lehrheuer, M. Wick, J. Andert, K. Kohse-Höinghaus
Influence of water addition on the combustion chemistry of *iso*-octane investigating laminar
premixed flames
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-
23.06.2017, Bielefeld (**poster**)
- 408) L.-S. Tran, O. Herbinet, Y. Li, M. Zeng, F. Battin-Leclerc, K. Kohse-Höinghaus, F. Qi
Study of the high-pressure low-temperature oxidation chemistry of *n*-pentane, diethyl ether, and
their mixture
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-
23.06.2017, Bielefeld (**poster**)

- 409) Z. Wang, D.M. Popolan-Vaida, B. Chen, K. Moshhammer, S. Mohamed, H. Wang, S. Sioud, M.A. Raji, K. Kohse-Höinghaus, N. Hansen, P. Dagaut, S.R. Leone, S.M. Sarathy
Direct observation of multi-functional peroxides in gas-phase oxidation of organic compounds
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-23.06.2017, Bielefeld (**poster**)
- 410) J. Wullenkord, M. Zeng, I. Graf, K. Kohse-Höinghaus
Investigations on fuel-structure-dependent effects of small ether addition in premixed *n*-heptane and *iso*-octane flames
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-23.06.2017, Bielefeld (**poster**)
- 411) N. Hansen, J. Wullenkord, D.A. Obenchain, K. Kohse-Höinghaus, J.-U. Grabow, R.S. Tranter, K. Moshhammer, J.B. Randazzo, J.P.A. Lockhart, A.L. Kastengren
New tools for flame diagnostics: Microwaves and X-rays
International Bunsen Discussion Meeting *Chemistry and Diagnostics for Clean Combustion*, 21.-23.06.2017, Bielefeld (**lecture**)
- 412) R. Büttgen, U. Burke, H. Minwegen, C. Hemken, K. Kohse-Höinghaus, K.A. Heufer
Detailed investigation of the oxidation kinetics of 2- and 3-pentanone
5th International Conference of the Cluster of Excellence "Tailor-Made Fuels from Biomass", 20.-22.06.2017, Aachen (**poster**)
- 413) L. Ruwe, C. Hemken, K. Kohse-Höinghaus, K. Moshhammer, N. Hansen
Detailed chemistry investigations for conventional and alternative fuels
Symposium for Combustion Control, 28.-29.06.2017, Aachen (**poster**)
- 414) K. Kohse-Höinghaus
Combustion chemistry developments between experiments, modeling, and theory
26th International Colloquium on the Dynamics of Explosions and Dynamic Systems, 29.07.-04.08.2017, Boston, USA (**invited plenary lecture**)
- 415) D. Emmrich, M. Salamanca, L. Ruwe, H. Vieker, A. Beyer, K. Kohse-Höinghaus, A. Götzhäuser
Analysis of nascent soot particles from flames by Helium Ion Microscopy
Workshop Focused Ion Beams in Berlin, 06.-07.11.2017, Berlin (**lecture**)
- 416) Z. Wang, B. Chen, K. Moshhammer, D.M. Popolan-Vaida, S. Sioud, V.S. Bhavani Shankar, D. Vuilleumier, T. Tao, L. Ruwe, E. Bräuer, N. Hansen, P. Dagaut, K. Kohse-Höinghaus, M.A. Raji, S.M. Sarathy
n-Heptane cool flame chemistry: unraveling intermediate species measured in a stirred reactor and motored engine
11th Asia-Pacific Conference on Combustion, 10.-14.12.2017, Sydney, Australia (**lecture**)
- 417) L.-S. Tran, O. Herbinet, Y. Li, E. Bräuer, M. Zeng, F. Qi, K. Kohse-Höinghaus, F. Battin-Leclerc
Low-temperature oxidation of dibutyl ether: reactivity and fuel-specific products
Journées Biomasse, 7.-8.11.2017, Villeneuve d'Ascq, France (**poster**)
- 418) A. Beyer, D. Emmrich, M. Salamanca, L. Ruwe, H. Vieker, K. Kohse-Höinghaus, A. Götzhäuser
Characterization of soot particles by Helium Ion Microscopy
DPG-Frühjahrstagung und EPS-CMD27, 11.-16.03.2018, Berlin (**lecture**)

- 419) L.-S. Tran, O. Herbinet, Y. Li, F. Qi, K. Kohse-Höinghaus, F. Battin-Leclerc
Comparative study of the high-pressure low-temperature oxidation of linear five-heavy-atom fuels: diethyl ether vs. *n*-pentane and their mixture
Workshop on Gas-phase Reaction Kinetics of Biofuels Oxygenated Molecules, 23.-24.04.2018, Milano, Italy (**lecture**)
- 420) L. Ruwe, L. Cai, K. Moshhammer, N. Hansen, H. Pitsch, K. Kohse-Höinghaus
Towards formation of small aromatic compounds: Mass spectrometric investigation of fuel-specific decomposition and growth pathways in selected alkane and alkene flames
117. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 10.-12.05.2018, Hannover (**lecture**)
- 421) J. Wullenkord, M. Salamanca, M. Zeng, L.-S. Tran, I. Graf, S. Schmitt, L. Ruwe, K. Kohse-Höinghaus
Molecular-beam mass spectrometric study of fuel-structure-dependent species formation in laminar premixed low-pressure flames
117. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 10.-12.05.2018, Hannover (**lecture**)
- 422) S. Schmitt, I. Graf, M. Wick, B. Lehrheuer, J. Andert, K. Kohse-Höinghaus
Investigation on the effect of water addition in iso-octane combustion
117. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, 10.-12.05.2018, Hannover (**poster**)
- 423) K. Kohse-Höinghaus
Advances and developments in combustion chemistry and diagnostics
25th International Symposium on Chemical Reaction Engineering, 20.-23.05.2018, Florence, Italy (**invited plenary lecture**)
- 424) J. Wullenkord, M. Zeng, M. Salamanca, I. Graf, S. Schmitt, L. Ruwe, K. Kohse-Höinghaus
Experimental investigation of fuel-specific species formation in blended premixed flames
Joint Meeting of the German and Italian Sections of the Combustion Institute, 23.-26.05.2018, Sorrento, Italy (**lecture**)
- 425) L.-S. Tran, O. Herbinet, Y. Li, F. Qi, K. Kohse-Höinghaus, F. Battin-Leclerc
High-pressure low-temperature oxidation of diethyl ether compared to *n*-pentane and their mixture
25th International Symposium on Gas Kinetics & Related Phenomena, 22.-26.07.2018, Lille, France (**poster**)
- 426) J. Pieper, C. Hemken, R. Büttgen, I. Graf, N. Hansen, K.A. Heufer, K. Kohse-Höinghaus
A high-temperature study of 2-pentanone oxidation: experiment and kinetic modeling
37th International Symposium on Combustion, 29.07.-03.08.2018, Dublin, Ireland (**lecture**)
- 427) M. Salamanca, J. Wullenkord, I. Graf, S. Schmitt, L. Ruwe, K. Kohse-Höinghaus
Experimental investigation of the joint combustion behavior of two small methyl esters with three C₂-C₄ hydrocarbon base fuels in laminar premixed low-pressure flames
37th International Symposium on Combustion, 29.07.-03.08.2018, Dublin, Ireland (**lecture**)
- 428) L.-S. Tran, O. Herbinet, Y. Li, J. Wullenkord, M. Zeng, E. Bräuer, F. Qi, K. Kohse-Höinghaus, F. Battin-Leclerc
Low-temperature gas-phase oxidation of diethyl ether: fuel reactivity and fuel-specific products
37th International Symposium on Combustion, 29.07.-03.08.2018, Dublin, Ireland (**lecture**)

- 429) L. Ruwe, L. Cai, K. Moshhammer, N. Hansen, H. Pitsch, K. Kohse-Höinghaus
How does the fuel structure influence the combustion chemistry? An experimental and kinetic modeling study on C₅ fuels
37th International Symposium on Combustion, 29.07.-03.08.2018, Dublin, Ireland (**WIP poster**)
- 430) S. Schmitt, M. Wick, I. Graf, B. Lehrheuer, J. Andert, K. Kohse-Höinghaus, S. Pischinger
Effects of water addition on the combustion processes in premixed flames, a laminar flow reactor and HCCI engine
37th International Symposium on Combustion, 29.07.-03.08.2018, Dublin, Ireland (**WIP poster**)
- 431) J. Wullenkord, M. Baroncelli, D. Felsmann, L. Cai, H. Pitsch, K. Kohse-Höinghaus
Investigation on the influence of small ether addition on *n*-heptane combustion in counterflow diffusion flames
37th International Symposium on Combustion, 29.07.-03.08.2018, Dublin, Ireland (**WIP poster**)
- 432) A. Beyer, D. Emmrich, M. Salamanca, L. Ruwe, H. Vieker, K. Kohse-Höinghaus, A. Gölzhäuser
Characterization of Soot Particles by Helium Ion Microscopy
AVS 65th International Symposium & Exhibition, 12.-26.10.2018, Long Beach, USA (**lecture**)
- 433) K. Kohse-Höinghaus
Will responsible energy strategies include combustion?
ZiF Conference and Symposium of the European Academy of Science: *Integrity and Responsibility on Science: Navigating through Conflicting Social and Epistemic Demands*, 18.-20.10.2018, Bielefeld (**invited lecture**)
- 434) K. Kohse-Höinghaus
Combustion-related answers from and questions for photon tools
PTPC2019: *Photon Tools for Physical Chemistry*, 08.-11.01.2019, Beatenberg, Switzerland (**invited lecture**)
- 435) K. Kohse-Höinghaus
What could and should we measure in combustion chemistry diagnostics?
hiGKIAC 2019: International Workshop on Gas-Phase Kinetics in Interstellar, Atmospheric and Combustion Chemistry, 06.-09.03.2019, Hefei, China (**invited lecture**)
- 436) M. Wick, T. Ottenwälder, C. Wouters, B. Lehrheuer, S. Pischinger, S. Schmitt, K. Kohse-Höinghaus, N. Hansen, J. Andert
Detailed analysis of the influence of direct water injection on HC emissions in HCCI-engines
Symposium for Combustion Control, 05.-06.06.2019, Aachen (**poster**)
- 437) S. Schmitt, M. Wick, C. Wouters, I. Graf, J. Andert, N. Hansen, K. Kohse-Höinghaus, S. Pischinger
Detaillierte Untersuchungen zu den Einflüssen von Wasseraddition bei der Verbrennung von iso-Oktan im Hinblick auf homogenisierte Kompressionsbrennverfahren
29. Deutscher Flammentag, 17.-18.09.2019, Ruhr-Universität Bochum (**lecture**)
- 438) S. Schwarz, W.H. Yuan, L. Ruwe, H. Gossler, L. Maier, F. Qi, K. Kohse-Höinghaus, O. Deutschmann
Kinetische Analyse homogener Gasphasenreaktionen in Abgasnachbehandlungssystemen von Verbrennungsmotoren
29. Deutscher Flammentag, 17.-18.09.2019, Ruhr-Universität Bochum (**lecture**)

In addition, I have held more than 200 lectures upon invitation of national and international universities and institutions.