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Publications

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- 7) K. Kohse-Höinghaus, Th. Just
Jahrestagung der Deutschen Physikalischen Gesellschaft, Stuttgart, 03/1986, *lecture*
- 8) U. Meier, K. Kohse-Höinghaus, Th. Just
9th International Symposium on Gas Kinetics, Bordeaux, France, 07/1986, *poster*
- 9) U. Meier, K. Kohse-Höinghaus, J. Bittner, Th. Just
21st International Symposium on Combustion, München, 08/1986, *poster*
- 10) K. Kohse-Höinghaus, P. Koczar, Th. Just
21st International Symposium on Combustion, München, 08/1986, *lecture*
- 11) K. Kohse-Höinghaus, Th. Just
2nd Workshop on Modelling of Chemical Reaction Systems, Heidelberg, 08/1986, *lecture*
- 12) K. Kohse-Höinghaus
Gordon Research Conference on Laser Diagnostics in Combustion, Plymouth, NH, USA, 07/1987, *invited plenary lecture*
- 13) J. Bittner, A. Jörg, K. Kohse-Höinghaus, U. Meier, Th. Just
23. Symposium für Theoretische Chemie, Waldfischbach, 09/1987, *poster*
- 14) K. Kohse-Höinghaus
2. Bundesdeutsche Fachtagung Plasmatechnologie, Bochum, 10/1987, *invited plenary lecture*
- 15) K. Kohse-Höinghaus, D. F. Davidson, R. K. Hanson
Western States Section of the Combustion Institute, Spring Technical Meeting, Salt Lake City,

UT, USA, 03/1988, *lecture*

16) A. Jörg, U. Meier, K. Kohse-Höinghaus, Th. Just

10th International Symposium on Gas Kinetics, Swansea, UK, 07/1988, *poster*

17) K. Kohse-Höinghaus, J. B. Jeffries, R. A. Copeland, G. P. Smith, D. R. Crosley

22nd International Combustion Symposium, Seattle, WA, USA, 08/1988, *lecture*

18) K. Kohse-Höinghaus, D. F. Davidson, A. Y. Chang, R. K. Hanson

22nd International Combustion Symposium, Seattle, WA, USA, 08/1988, *poster*

19) J. B. Jeffries, K. Kohse-Höinghaus, G. P. Smith, R. A. Copeland, D. R. Crosley

Gordon Research Conference on Atomic and Molecular Interactions, Plymouth, NH, USA, 08/1988, *poster*

20) K. Kohse-Höinghaus, D. F. Davidson, A. Y. Chang, R. K. Hanson

Hauptversammlung der Deutschen Bunsengesellschaft, Siegen, 05/1989, *lecture*

21) R. Tirgrath, A. Lawitzki, K. Kohse-Höinghaus, U. Meier, A. Jörg, Th. Just

Gordon Research Conference on Laser Diagnostics in Combustion, Plymouth, NH, USA, 07/1989, *poster*

22) A. Jörg, U. Meier, K. Kohse-Höinghaus

Gordon Research Conference on Laser Diagnostics in Combustion, Plymouth, NH, USA, 07/1989, *poster*

23) J. Bittner, K. Kohse-Höinghaus, U. Meier, Th. Just

Kolloquium "Grundlagen technischer Verbrennungsvorgänge" der Stiftung Volkswagenwerk, Stuttgart, 10/1989, *lecture*

24) A. Jörg, U. Meier, K. Kohse-Höinghaus, A. Degli Esposti, H.-J. Werner

Nineth European CARS Workshop, Dijon, France, 03/1990, *poster*

25) K. Kohse-Höinghaus, U. Meier, B. Attal-Trétout

Nineth European CARS Workshop, Dijon, France, 03/1990, *poster*

26) K. Kohse-Höinghaus

5th Meeting on Diagnostics for Hermes Testing Facilities, Châtillon, France, 03/1990, *lecture*

27) K. Kohse-Höinghaus

Nineth European CARS Workshop, Dijon, France, 03/1990, *invited plenary lecture*

28) A. Jörg, U. Meier, K. Kohse-Höinghaus

XIXth Informal Conference on Photochemistry, Ann Arbor, MI, USA, 06/1990, *poster*

29) J. Bittner, A. Lawitzki, U. Meier, K. Kohse-Höinghaus

23rd International Symposium on Combustion, Orléans, France, 07/1990, *poster*

30) A. Jörg, U. Meier, K. Kohse-Höinghaus, A. Degli Esposti, H.-J. Werner

Gordon Research Conference on Atomic and Molecular Interactions, Newport, RI, USA, 07/1990, *poster*

31) T. Griffin, A. Jörg, U. Meier, K. Kohse-Höinghaus

XIth International Symposium on Gas Kinetics, Assisi, Italy, 09/1990, *poster*

- 32) R. Kienle, A. Jörg, K. Kohse-Höinghaus
Tenth European CARS Workshop, Garching, 03/1991, *poster*
- 33) K. Kohse-Höinghaus
Gordon Research Conference on Laser Diagnostics in Combustion, Plymouth, NH, USA, 07/1991, *invited plenary lecture*
- 34) R. Kienle, A. Jörg, K. Kohse-Höinghaus,
COMET XII European Research Conference on Molecular Energy Transfer, Nijmegen,
Netherlands, 07/1991, *poster*
- 35) K. Kohse-Höinghaus
5th International Symposium on Laser-Aided Plasma Diagnostics, Bad Honnef, 08/1991, *invited plenary lecture*
- 36) K. Kohse-Höinghaus
7th Meeting on Diagnostics for Hermes Testing Facilities, Palaiseau, France, 10/1991, *lecture*
- 37) I. Plath, U. Meier, K. Kohse-Höinghaus, B. Attal-Trétout
11th European CARS Workshop, Florence, Italy, 03/1992, *lecture*
- 38) K. Kohse-Höinghaus
ONERA-DLR-NASA-VKI Advanced Research Workshop on New Trends in Instrumentation for
Hypersonic Research, Toulouse, France, 04/1992, *invited plenary lecture*
- 39) N. Heberle, J. Heinze, K. Kohse-Höinghaus, U.E. Meier
Gordon Research Conference on Diamond Synthesis by Chemical Vapor Deposition, Plymouth,
NH, USA, 06/1992, *poster*
- 40) N. Heberle, J. Heinze, K. Kohse-Höinghaus
ADUC Chemiedozententagung, Dresden, 02/1993, *lecture*
- 41) K. Kohse-Höinghaus
Third International Symposium on Special Topics in Chemical Propulsion, Scheveningen,
Netherlands, 05/1993 *invited plenary lecture*
- 42) B. Atakan, V. Jörres, K. Kohse-Höinghaus
Laser Diagnostics for Industrial Processes, Diskussionstagung der Deutschen Bunsengesellschaft,
Heidelberg, 06/1993, *poster*
- 43) K. Kohse-Höinghaus
Gordon Research Conference on Laser Diagnostics in Combustion, Plymouth, NH, USA, 07/1993,
invited plenary lecture
- 44) M.P. Lee, R. Kienle, K. Kohse-Höinghaus
Gordon Research Conference on Laser Diagnostics in Combustion, Plymouth, NH, USA, 07/1993,
poster
- 45) B. Atakan, V. Jörres, K. Kohse-Höinghaus
Gordon Research Conference on Laser Diagnostics in Combustion, Plymouth, NH, USA, 07/1993,
poster

- 46) K. Kohse-Höinghaus
Twentysecond International Symposium on Free Radicals, Doorwerth, Netherlands, 09/1993,
invited plenary lecture
- 47) J. Heinze, N. Heberle, K. Kohse-Höinghaus
Twentysecond International Symposium on Free Radicals, Doorwerth, Netherlands, 09/1993,
poster
- 48) R. Kienle, M. Lee, K. Kohse-Höinghaus
Euromech Colloquium 309 on Optical Flow Diagnostics, Göttingen, 09/1993, *lecture*
- 49) A. Brockhinke, P. Andresen, K. Kohse-Höinghaus
Quantitative one-dimensional single-pulse multi-species concentration and temperature
measurement in a turbulent H₂/air diffusion flame
25th Symposium (International) on Combustion, Irvine, CA, USA, 08/1994, *poster*
- 50) A. Brockhinke, P. Andresen, K. Kohse-Höinghaus
Double-pulse 1D Raman/Rayleigh measurement for the detection of temporal and spatial
structures in a turbulent H₂/air flame
Gordon Research Conference on Laser Diagnostics in Combustion, Plymouth, NH, USA, 07/1995,
poster
- 51) A. Brockhinke, P. Andresen, K. Kohse-Höinghaus
Time sequences by one-dimensional single-pulse Rayleigh/Raman scattering in turbulent H₂/air
diffusion flames
Euromech Colloquium 340 on Statistical Properties of Turbulent Gaseous Flames, Delft,
Netherlands, 08/1995, *lecture*
- 52) A. Brockhinke, P. Andresen, K. Kohse-Höinghaus
Quantitative 1D single-pulse multispecies concentration and temperature measurements in
hydrogen and methane diffusion flames using Raman/Rayleigh polarization properties
Conference of the German and French Section of the Combustion Institute, Mulhouse, France,
10/1995, *poster*
- 53) K. Kohse-Höinghaus
Laser diagnostics in high-temperature reactive flows
Windows-on-Science Colloquium, Wright Patterson Airforce Base, Dayton, OH, USA, 03/1996,
lecture
- 54) U. Bergmann, K. Lummer, B. Atakan, K. Kohse-Höinghaus
The influence of acetone on the temperature and stoichiometry dependence of flame deposition of
diamond films
26th Symposium (International) on Combustion, Naples, Italy, 08/1996, *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, Naples, Italy, 08/1996, *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, Switzerland, 09/1996, *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, Switzerland, 09/1996, *poster*
- 58) K. Kohse-Höinghaus
 Energy transfer in quantitative combustion diagnostics: does an engineer need physics?
 Gordon Research Conference on Molecular Energy Transfer, Ventura, CA, USA, 01/1997, *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, CA, USA, 01/1997, *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, 03/1997, *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, 03/1997, *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, 03/1997, *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, Darmstadt, 05/1997, *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", Delft, Netherlands, 08/1997, *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, Plymouth, NH, USA, 07/1997, *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, Plymouth, NH, USA, 07/1997, *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, Plymouth, NH, USA, 07/1997 *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, Diamond Bar, CA, USA, 10/1997, *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, 09/1997, *invited plenary lecture*

70) K. Kohse-Höinghaus
Les possibilités des méthodes optiques et laser pour la caractérisation des flammes
Réunion "Stabilisation des flames" organisée par le Groupement Français de Combustion et le Groupement de Recherche "Combustion Propre"; Ecole Centrale, Paris, France, 10/1997, *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, 03/1998, *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, Münster, 05/1998, *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, Münster, 05/1998, *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, Münster, 05/1998, *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, France, 05/1998 *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, CO, USA, 08/1998, *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, CO, USA, 08/1998, *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, CO, USA, 08/1998, *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, MA, USA, 08/1998, *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, 10/1998, *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, 10/1998, *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, China, 05/1999, *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, 05/1999, *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, 05/1999, *poster*
- 85) A.T. Hartlieb, B. Atakan, K. Kohse-Höinghaus
Temperaturmessungen in brennstoffreichen Niederdruckflammen
98. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Dortmund, 05/1999, *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, Nancy, France, 05/1999, *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, Il Ciocco, Italy, 20.-25.06.1999, *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, Il Ciocco, Italy, 20.-25.06.1999, *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, Il Ciocco, Italy, 20.-25.06.1999, *poster*

90) B. Atakan, K. Kohse-Höinghaus

Diamantabscheidung in Flammen

D-A-CH Abschlußkolloquium 2000, Neuhofen a.d.Ybbs, Austria, 06.-09.03.2000, *lecture*

91) B. Atakan, K. Kohse-Höinghaus

Untersuchung des Gasphasenmechanismus bei der Diamantabscheidung aus Flammen

D-A-CH Abschlußkolloquium 2000, Neuhofen a.d.Ybbs, Austria, 06.-09.03.2000, *lecture*

92) A. G. Löwe, B. Atakan, K. Kohse-Höinghaus

Untersuchungen zum Mechanismus der Diamantabscheidung in Niederdruckflammen

D-A-CH Abschlußkolloquium 2000, Neuhofen a.d.Ybbs, Austria, 06.-09.03.2000, *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, Würzburg, 01.-03.06.2000, *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, Würzburg, 01.-03.06.2000, *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, Edinburgh, UK, 30.07.-04.08.2000, *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, Edinburgh, UK, 30.07.-04.08.2000, *poster*

97) A. Lamprecht, B. Atakan, K. Kohse-Höinghaus

Fuel-rich flame chemistry in low-pressure cyclopentene flames

28th International Symposium on Combustion, Edinburgh, UK, 30.07.-04.08.2000, *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, Köln, 07.-09.09.2000, *lecture*

99) K. Kohse-Höinghaus

Concentration and temperature measurement in fuel-rich flames

Journée Scientifique de l'ONERA Paris, France, 22.11.2000, *invited 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, Tel Aviv, Israel,
28.12.00, *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), Glyfada, Athens,
Greece, 26.-31.08.2001, *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), Glyfada, Athens,
Greece, 26.-31.08.2001, *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, Washington, DC, USA, 25.-30.03.2001, *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,
Leeds, UK, 09.-11.07.2001, *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, Stuttgart,
24.-26.05.2001, *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, Stuttgart,
24.-26.05.2001, *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, Stuttgart,
24.-26.05.2001, *poster*
- 108) K. Kohse-Höinghaus
Das teutolab: eine chemische Verbindung zwischen Schule und Uni
Conference on "Public Understanding of Science", ZiF Center for Interdisciplinary Research,
Bielefeld, 07.-08.06.2001, *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, Mount
Holyoke College, South Hadley, MA, USA, 01.-06.07.2001, *poster*
- 110) M. Hofstätter, B. Atakan, K. Kohse-Höinghaus
CVD growth of silicon films at high rates

13th European Conference on Chemical Vapor Deposition, Athens, Greece, 26.-31.08.2001, *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, Athens, Greece, 26.-31.08.2001, *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, Bad Herrenalb,

07.-11.10.2001, *invited plenary lecture*

113) A. Brockhinke, A. Bülter, 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, Potsdam,

09.-11.05.2002, *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, Potsdam,

09.-11.05.2002, *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, Potsdam,

09.-11.05.2002, *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, Sapporo, Japan, 21.-26.07.2002, *poster*

117) A. Brockhinke, A. Bülter, U. Rahmann, U. Lenhard, K. Kohse-Höinghaus

Study of energy transfer processes as prerequisite for quantitative LIF measurements

29th International Symposium on Combustion, Sapporo, Japan, 21.-26.07.2002, *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, Flensburg, 23.-26.09.2002, *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, Dresden, 24.-26.09.2002, *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, Boston, MA, USA, 02.-06.12.2002, *lecture*

121) N. Bahlawane, B. Atakan, K. Kohse-Höinghaus

Flame spray deposition of aluminum oxide using sol-gel feedstock
2002 MRS Fall Meeting, Boston, MA, USA, 02.-06.12.2002, *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, Ventura, CA, USA, 12.-17.01.2003,
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", Saint-Jacut-
de-la-Mer, France, 28.-30.01.2003, *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, ZiF, Bielefeld, 20.-21.02. 2003, *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, San Antonio, TX, USA, 01.-05.03.2003, *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, Paris, France, 27.04.-02.05. 2003, *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, Paris, France, 27.04.-02.05. 2003, *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, Paris, France, 27.04.-02.05. 2003, *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, Kiel, 29.-
31.05.2003, *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, Kiel, 29.-
31.05.2003, *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, Kiel, 29.-

31.05.2003, *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, Kiel, 29.-31.05.2003, *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, Oxford, UK, 17.-22.08.2003, *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, Oxford, UK, 17.-22.08.2003, *poster*

135) K. Kohse-Höinghaus

Heiße Chemie – Verbrennung und Materialabscheidung aus der Gasphase

GDCh-Jahrestagung Chemie, München, 06.-11.10.2003, *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, Annapolis, MD, USA, 09.-11.02.2004, *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, Dresden, 20.-22.05.2004, *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, Dresden, 20.-22.05.2004, *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, Dresden, 20.-22.05.2004, *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, Dresden, 20.-22.05.2004, *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, Dresden,

20.-22.05.2004, *poster*

142) K. Kohse-Höinghaus

Combustion at the focus: laser diagnostics and control

30th International Symposium on Combustion, Chicago, IL, USA, 25.-30.07.2004, *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, Chicago, IL, USA, 25.-30.07.2004, *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, Chicago, IL, USA, 25.-30.07.2004, *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, Chicago, IL, USA, 25.-30.07.2004, *poster*

146) A. Brockhinke, A. Bülter, 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, Chicago, IL, USA, 25.-30.07.2004, *poster*

147) K. Kohse-Höinghaus

Investigations of high-temperature gas phase systems

18th International Symposium on Gas Kinetics, Bristol, UK, 07.-12.08.2004, *invited plenary lecture*

148) K. Kohse-Höinghaus

Zuschauen bei der chemischen Reaktion? Laserdiagnostik mit kurzen Lichtpulsen

123. Versammlung der Gesellschaft Deutscher Naturforscher und Ärzte, Passau, 18.-21.09.2004, *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, Santa Ynez Valley Marriott, Buellton, CA, USA, 09.-14.01.2005, *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, Kanagawa University, Yokohama, Japan, 26.-29.03.2005, *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, Frankfurt/Main, 05.-07.05.2005, *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,
 Frankfurt/Main, 05.-07.05.2005, *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,
 Frankfurt/Main, 05.-07.05.2005, *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,
 Frankfurt/Main, 05.-07.05.2005, *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,
 Frankfurt/Main, 05.-07.05.2005, *poster*
- 156) K. Kohse-Höinghaus
 The flame chemistry preceding PAH formation: quantitative detection of intermediate species
 Interstellar Reactions: from the Gas phase to Solids, Dresden, 05.-09.06.2005, *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, Berlin, 20.-21.06.2005, *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, Chemnitz, 25.-28.06.2005, *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, Novosibirsk, Russia, 11.-14.07.2005, *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, Mount
 Holyoke College, South Hadley, MA, USA, 31.07.- 05.08.2005, *poster*
- 161) M. Letzgus, S. Rinne, U. Lenhard, A. Bülter, 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, Mount
 Holyoke College, South Hadley, MA, USA, 31.07.- 05.08.2005, *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, Mount Holyoke College, South Hadley, MA, USA, 31.07.- 05.08.2005, *poster*

163) J. Feldmann, N. Bahlawane, K. Kohse-Höinghaus
Chemical vapor deposition of $Zn_xCo_{3-x}O_4$ films and their characterisation
EUROCVDFIFTEEN, Bochum, 04.-09.09.2005, *poster*

164) Th. Haase, N. Bahlawane, H. Lang, K. Kohse-Höinghaus
Mass spectrometry as criteria for the selection of CVD precursors
EUROCVDFIFTEEN, Bochum, 04.-09.09.2005, *poster*

165) N. Bahlawane, K. Kohse-Höinghaus, R. G. Gordon
ALD/CVD processes for the preparation of noble metal free monolithic catalysts
EUROCVDFIFTEEN, Bochum, 04.-09.09.2005, *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, Bochum, 04.-09.09.2005, *poster*

167) K. Kohse-Höinghaus
Light and fire: laser diagnostics for combustion chemistry
19th Colloquium on High Resolution Molecular Spectroscopy, Salamanca, Spain, 11.-16.09.2005, *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*, Berlin-Brandenburgische Akademie der Wissenschaften, Berlin, 27.-28.09.2005, *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, Berkeley, USA, 20.-22.10.2005, *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, Santa Ynez Valley Marriott, Buellton, CA, USA, 29.01.-03.02.2006, *poster; selected as hot topic*

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 und Künste, Düsseldorf, 01.02.2006, *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, Mainz, 05.-08.03.2006, *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 Mainz, 05.-08.03.2006, *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, Erlangen, 25.-27.05.2006, *poster*

175) M. Letzgus, S. Rinne, A. Brockhinke, K. Kohse-Höinghaus

Mesurement of picosecond time-resolved LIF spectra of C₂ affected by energy transfer

105. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Erlangen, 25.-27.05.2006, *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, Erlangen, 25.-27.05.2006, *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, Erlangen, 25.-27.05.2006, *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, Erlangen, 25.-27.05.2006, *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, Erlangen, 25.-27.05.2006, *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, Erlangen, 25.-27.05.2006, *poster*

181) M. Braun-Unkhoff, M. Kamphus, K. Kohse-Höinghaus

Modelling small PAH in premixed fuel-rich propene and cyclopentene low-pressure flames

31st International Symposium on Combustion, Heidelberg, 06.-11.08.2006, *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

31st International Symposium on Combustion, Heidelberg, 06.-11.08.2006, *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

31st International Symposium on Combustion, Heidelberg, 06.-11.08.2006, *poster*

184) M. Letzgus, A. Brockhinke, U. Lenhard, A. Bülter, K. Kohse-Höinghaus

Measurement of energy transfer processes in small radicals in combustion environments

31st International Symposium on Combustion, Heidelberg, 06.-11.08.2006, *poster*

185) M. Letzgus, K. Kohse-Höinghaus, A. Brockhinke

LASKINv2: Simulation of spectra affected by saturation and energy transfer effects

31st International Symposium on Combustion, Heidelberg, 06.-11.08.2006, *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

31st International Symposium on Combustion, Heidelberg, 06.-11.08.2006, *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

31st International Symposium on Combustion, Heidelberg, 06.-11.08.2006, *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

31st International Symposium on Combustion, Heidelberg, 06.-11.08.2006, *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

31st International Symposium on Combustion, Heidelberg, 06.-11.08.2006, *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, Louvain-la-Neuve, Belgium, 10.-14.09.2006, *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, Berkeley, CA, USA, 9.-11.10.2006, *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, Bruges, Belgium, 04.-07.03.2007, *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, Bremen, 11.-14.03.2007, *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, Bremen, 11.-14.03.2007, *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, Bremen, 11.-14.03.2007, *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, Bremen, 11.-14.03.2007, *poster*
- 197) K. Kohse-Höinghaus
Schülerlabore: Bildungschance, unfaire Konkurrenz oder vergebene Mühe
Tagung des Stifterverbandes für die Deutsche Wissenschaft Übergang Schule-Hochschule, Bielefeld, 15.-16.03.2007, 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, Paris, France, 27.-28.03.2007, *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, Graz, Austria, 17.-19.05.2007, *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, Graz, Austria, 17.-19.05.2007, *poster*
- 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, Graz, Austria, 17.-19.05.2007, *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, Graz,

Austria, 17.-19.05.2007, *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, Graz, Austria, 17.-19.05.2007, *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, Graz, Austria, 17.-19.05.2007, *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, Graz, Austria, 17.-19.05.2007, *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, Oxford, UK, 12.-17.08.2007, *invited plenary 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, Oxford, UK, 12.-17.08.2007, *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, Oxford, UK, 12.-17.08.2007, *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, Oxford, UK, 12.-17.08.2007, *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, Oxford, UK, 12.-17.08.2007, *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, Den Haag/ Scheveningen, Netherlands, 16.-21.9.2007, *lecture*

212) N. Bahlawane, P.A. Premkumar, K. Onwuka, K. Kohse-Höinghaus

Catalytically enhanced H₂-free CVD of transition metal films using commercially available

precursors

Sixteenth European Conference on Chemical Vapor Deposition, Den Haag/ Scheveningen, Netherlands, 16.-21.9.2007, **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, Den Haag/ Scheveningen, Netherlands, 16.-21.9.2007, **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, Den Haag/ Scheveningen, Netherlands, 16.-21.9.2007, **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, Gießen, 02.-05.03.2008, **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, Gießen, 02.-05.03.2008, **poster**

217) P. Oßwald, U. Struckmeier, A. Lucassen, K. Kohse-Höinghaus

In-Situ Massenspektrometrie zur Verbrennungsdiagnostik

41. Jahrestagung der Deutschen Gesellschaft für Massenspektrometrie, Gießen, 02.-05.03.2008, **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, Gießen, 02.-05.03.2008, **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, Saarbrücken, 01.-03.05.2008, **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, Saarbrücken, 01.-03.05.2008, **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,

Saarbrücken, 01.-03.05.2008, *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, Saarbrücken, 01.-03.05.2008, *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, Saarbrücken, 01.-03.05.2008, *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, Saarbrücken, 01.-03.05.2008, *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, Saarbrücken, 01.-03.05.2008, *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, Saarbrücken, 01.-03.05.2008, *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, Saarbrücken, 01.-03.05.2008, *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, Saarbrücken, 01.-03.05.2008, *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

Spring Technical Meeting of the Central States Section of the Combustion Institute, Tuscaloosa, AL, USA, 20.-22.04.2008, *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, Montreal, Canada, 03.-08.08.2008, *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, Montreal, Canada, 03.-08.08.2008, *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, Montreal, Canada, 03.-08.08.2008, *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, Montreal, Canada, 03.-08.08.2008, *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, Montreal, Canada, 03.-08.08.2008, *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, Montreal, Canada, 03.-08.08.2008, *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, Montreal, Canada, 03.-08.08.2008, *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, Montreal, Canada, 03.-08.08.2008, *poster*
- 238) K. Kohse-Höinghaus
Experimental and numerical methods to study the flame structure
6th International Seminar on Flame Structure, Brussel, Belgium, 14.-17.9.2008, *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, Konstanz, 08.-11.03.2009, *poster*
- 240) K. Kohse-Höinghaus
Chemical vapor deposition: dirty chemistry or clean materials?
Conference "From the witches cauldrons in materials science", Goslar, 30.04.2009, *lecture*
- 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, Ann Arbor, MI, USA, 17.-20.5.2009, *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, Ann Arbor, MI, USA, 17.-20.5.2009, *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, Ann Arbor, MI, USA, 17.-20.5.2009, **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, Ann Arbor, MI, USA, 17.-20.5.2009, **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, Köln, 21.-23.05.2009, **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, Köln, 21.-23.05.2009, **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, Köln, 21.-23.05.2009, **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, Köln, 21.-23.05.2009, **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, Köln, 21.-23.05.2009, **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, Köln, 21.-23.05.2009, **poster**
- 251) K. Kohse-Höinghaus
 Combustion chemistry diagnostics
 30th Annual Combustion Research Conference, Warrenton, VA, USA, 26.-29.05.2009, **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), The Ohio State University, USA, 22.-26.06.2009, **invited lecture**

- 253) K. Kohse-Höinghaus
Investigating intermediate species chemistry in combustion
30th International Symposium on Free Radicals, Savonlinna, Finland, 25.7.-30.7.2009, *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, Waterville Valley, NH, USA, 16.-21.08.2009, *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, Bremen, 30.08.-04.09.2009, *poster*
- 256) F. Reilmann, N. Bahlawane, F. Qi, K. Kohse-Höinghaus
Understanding the decomposition process of $[SbEt_2GatBu_2]_2$ from *in situ* EI- and PI-RTOF mass spectrometric analysis
18th International Mass Spectrometry Conference, Bremen, 30.08.-04.09.2009, *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, Bremen, 30.08.-04.09.2009, *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, Vienna, Austria, 04.-09.10.2009, *poster*
- 259) K. Kohse-Höinghaus
Radical reactions in combustion
ACU IV Symposium des SFB 450 (TU Berlin), Berlin, 08.-10.10.2009, *invited lecture*
- 260) K. Kohse-Höinghaus
Diagnostics and combustion chemistry
Aerospace Thematic Workshop: Fundamentals of Aerodynamic Flow and Combustion Control by Plasmas, Les Houches, France, 11.-16.10.2009, *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
AIChE Annual Meeting, Nashville, TN, USA, 08.-13.11.2009, *poster & lecture*
- 262) 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
AIChE Annual Meeting, Nashville, TN, USA, 08.-13.11.2009, *lecture*
- 263) 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, Halle, 07.-10.03.2010,

poster

- 264) 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 Halle, 07.-10.03.2010,

poster

- 265) 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 Halle, 07.-10.03.2010,

lecture

- 266) 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, Bielefeld, 13.-15.05.2010, *poster*

- 267) 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, Bielefeld, 13.-15.05.2010, *poster*

- 268) 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, Bielefeld, 13.-15.05.2010, *poster*

- 269) 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, Bielefeld, 13.-15.05.2010, *poster*

- 270) 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, Bielefeld, 13.-15.05.2010, *lecture*

- 271) 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, Bielefeld, 13.-15.05.2010, *lecture*

- 272) 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, Beijing, China, 01.-06.08.2010, *lecture*

273) 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, Beijing, China, 01.-06.08.2010, *lecture*

274) A. Seipel, R. Brockhinke, K. Kohse-Höinghaus, A. Brockhinke

Monitoring combustion chemistry via chemiluminescence

33rd International Symposium on Combustion, Beijing, China, 01.-06.08.2010, *poster*

275) 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, Beijing, China, 01.-06.08.2010, *poster*

276) P. Oßwald, H. Güldenbergl, 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 COST Action CM0901 Meeting, Nancy, France, 15.-17.09.2010, *poster*

277) A. Seipel, M. Heusing, R. Brockhinke, K. Kohse-Höinghaus, A. Brockhinke
Chemiluminescence emissions in one-dimensional flames: Spectrally- and spatially-resolved measurements

International Discussion Meeting: Combustion Diagnostics – Key to Understanding Fundamental Flame Processes, Seeheim, 04.-05.11.2010, *poster*

278) 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, Seeheim, 04.-05.11.2010, *poster*

279) K. Kohse-Höinghaus

Biofuel combustion chemistry: pathways towards a new pollutant balance

Saudi-Arabian Section of the Combustion Institute, Inauguration Meeting, KAUST, Thuwal, Saudi-Arabia, 16.01.2011, *invited lecture*

280) 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, Dortmund, 27.02.-02.03.2011, *poster*

281) 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, Dortmund, 27.02.-02.03.2011, *poster*

282) 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, Dortmund, 27.02.-02.03.2011, *poster*

283) 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
7th U.S. National Combustion Meeting, Georgia Institute of Technology, Atlanta, GA, USA, 20.-
23.03.2011, *lecture*

284) 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
7th U.S. National Combustion Meeting, Georgia Institute of Technology, Atlanta, GA, USA, 20.-
23.03.2011, *lecture*

285) N. Labbe, A. Lucassen, P.R. Westmoreland, K. Kohse-Höinghaus
Mechanistic insights into nitrogen fate in a morpholine flat flame
7th U.S. National Combustion Meeting, Georgia Institute of Technology, Atlanta, GA, USA, 20.-
23.03.2011, *lecture*

286) S.M. Sarathy, C.K. Westbrook, M. Mehl, W.J. Pitz, K. Yasunaga, H.J. Curran, T.
Tsujimura, P. Oßwald, K. Kohse-Höinghaus
The combustion chemistry of butanol isomers
7th U.S. National Combustion Meeting, Georgia Institute of Technology, Atlanta, GA, USA, 20.-
23.03.2011, *lecture*

287) 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, Berlin,
02.-04.06.2011, *poster*

288) 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, Berlin,
02.-04.06.2011, *poster*

289) 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, Berlin,
02.-04.06.2011, *poster*

290) 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*

291) K. Kohse-Höinghaus
Teaching Science
36th International Conference on Improving University Teaching, Bielefeld, 19.-22.07.2011,
invited plenary lecture

292) 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, Waterville Valley, NH, USA,
14.-19.08.2011, *poster*

293) 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, Waterville Valley, NH, USA,

14.-19.08.2011, *poster*

294) K. Kohse-Höinghaus

Needs for combustion measurements

Workshop on Techniques for High-Pressure Combustion, Argonne National Laboratory, IL, USA, 29.08.-01.09.2011, *invited lecture*

295) K. Kohse-Höinghaus

Verbrennung von Biokraftstoffen

GDCh-Wissenschaftsforum Chemie 2011, Bremen, 04.-07.09.2011, *invited lecture*

296) P. Oßwald, M. Schenk, K. Kohse-Höinghaus

Combustion of butene isomers – a detailed experimental investigation of their premixed, flat flames

2nd Annual COST Action CM0901 Meeting, Zaragoza, Spain, 07.-09.09.2011, *lecture*

297) K. Kohse-Höinghaus

Combustion diagnostics meeting new challenges

International Workshop on Frontiers in Synchrotron Tools for Studies of Combustion and Energy Conversion, Shanghai, China, 14.-18.10.2011, *invited lecture*

298) K. Kohse-Höinghaus

Combustion from a chemist's perspective

CECOST 14th Annual Seminar, Lund, Sweden, 17.-18.11.2011, *invited lecture*

299) K. Kohse-Höinghaus

Chemistry and combustion – new challenges for an old science

43rd KOSCO Symposium, Gyeongju, Korea, 01.-02.12.2011, *invited lecture*

300) 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 Poznan, Poland, 04.-07.03.2012, *poster*

301) 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, Leipzig, 17.-19.05.2012, *poster*

302) 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, Leipzig, 17.-19.05.2012, *lecture*

303) K. Kohse-Höinghaus

The role of advanced diagnostics in combustion chemistry research

1st International Workshop on Flame Chemistry, Warsaw, Poland, 28.-29.07.2012, *invited plenary lecture*

304) 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, Warsaw, Poland, 29.07.-03.08.2012, *lecture*

- 305) 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, Warsaw, Poland, 29.07.-03.08.2012, **lecture**
- 306) Z.-Y. Tian, N. Bahlawane, V. Vannier, K. Kohse-Höinghaus
 Structure sensitivity of propene oxidation over Co-Mn spinels
 34th International Symposium on Combustion, Warsaw, Poland, 29.07.-03.08.2012, **lecture**
- 307) 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, Warsaw, Poland, 29.07.-03.08.2012, **lecture**
- 308) 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, Warsaw, Poland, 29.07.-03.08.2012, **lecture**
- 309) 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, Warsaw, Poland, 29.07.-03.08.2012, **lecture**
- 310) 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, Warsaw, Poland, 29.07.-03.08.2012, **lecture**
- 311) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 312) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 313) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 314) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 315) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**

- 316) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 317) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 318) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 319) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 320) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 321) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 322) 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, Warsaw, Poland, 29.07.-03.08.2012, **poster**
- 323) 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 COST Action CM0901 Meeting, Sofia, Bulgaria, 05.-07.09.2012, **lecture**
- 324) 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 COST Action CM0901 Meeting, Sofia, Bulgaria, 05.-07.09.2012, **lecture**
- 325) 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 COST Action CM0901 Meeting, Sofia, Bulgaria, 05.-07.09.2012, **poster**
- 326) K. Kohse-Höinghaus
Physikalische Chemie: Diagnostik am Puls chemischer Veränderung
Wilhelm-Jost-Gedächtnisvorlesung 2012 der Akademie der Wissenschaften Göttingen und der

Deutschen Bunsen-Gesellschaft, Berlin, 31.10.12, Leipzig, 01.11.12, Darmstadt, 06.11.12, Marburg, 14.11.12, Göttingen, 22.11.12, *award lectures*

327) K. Kohse-Höinghaus
Forschungsergebnisse: Gedankengebäude mit Verfallsdatum?
Leopoldina-Workshop *Nachhaltigkeit in der Wissenschaft*, Berlin, 12.11.2012, *invited lecture*

328) K. Kohse-Höinghaus
(Bio)-fuel combustion: chemical challenges
Festveranstaltung zur Verleihung des Clara-Immerwahr-Preises 2013, TU Berlin, Berlin, 11.02.2013, *invited keynote lecture*

329) K. Kohse-Höinghaus
Combustion Chemistry
AAAS Annual Meeting, Boston, MA, USA, 14.-18.02.2013, *invited lecture*

330) 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, Berlin, 10.-13.03.2013, *poster*

331) 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, Berlin, 10.-13.03.2013, *poster*

332) 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 Action CM0901 Joint Working Group Meeting "Soot and PAHs", Sorrento, Italy, 10.-12.04.2013, *lecture*

333) 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, Karlsruhe, 09.-11.05.2013, *poster*

334) J. Koppmann, A. Brockhinke, K. Kohse-Höinghaus
Contributions to combustion chemistry research
8th US National Combustion Meeting, Salt Lake City, UT, USA, 19.-22.05.2013, *invited plenary lecture*

335) 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 Action CM0901 Topical Workshop: Kinetic studies using laminar flames, Lund, Sweden, 25.06.2013, *lecture*

336) K. Kohse-Höinghaus
Clean combustion: Challenges and research opportunities for chemists
6th European Combustion Meeting, Lund, Sweden, 25.-28.06.2013, *invited plenary lecture*

- 337) 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, Lund, Sweden, 25.-28.06.2013, *poster*
- 338) 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, San Antonio, TX, USA, 08.-10.08.2013, *lecture*
- 339) K. Kohse-Höinghaus
Combustion chemistry diagnostics
Gordon Research Seminar on Laser Diagnostics in Combustion, Waterville Valley, NH, USA, 10.-11.08.2013, *invited keynote lecture*
- 340) K. Kohse-Höinghaus
Clean combustion – a chemist's view
8th Mediterranean Combustion Symposium, Izmir, Turkey, 08.-13.09.2013, *invited plenary lecture*
- 341) 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 COST Action CM0901 Meeting, Perugia, Italy, 16.-18.09.2013, *lecture*
- 342) 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, Dalian, China, 22.-27.09.2013, *invited lecture*
- 343) K. Kohse-Höinghaus
Developments in combustion chemistry diagnostics
International Workshop on Frontiers of Combustion Chemistry, Huangshan, China, 26.-29.09.2013, *invited plenary lecture*
- 344) Z.-Y. Tian, P. Mountapmbeme Kouotou, K. Kohse-Höinghaus
Catalytic combustion of propene over transition metal oxides
International Workshop on Frontiers of Combustion Chemistry, Huangshan, China, 26.-29.09.2013, *lecture*
- 345) K. Kohse-Höinghaus
Könnten das Sie sein?
Tageskongress der Gesellschaft Deutscher Naturforscher und Ärzte "Frauen in Naturwissenschaft, Medizin und Technik", Berlin, 25.10.2013, *invited lecture*
- 346) H. Vieker, A. Beyer, Z.-Y. Tian, P. Mountapmbeme Kouotou, A. El Kasmi, K. Kohse-Höinghaus, A. Götzhäuser
HIM of CVD-grown films: transition metals and catalytically active transition metal oxides
AVS 60th International Symposium & Exhibition, Long Beach, CA, USA, 27.10.-01.11.2013, *lecture*
- 347) 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, Long Beach, CA, USA, 27.10.-01.11.2013,
poster

348) K. Kohse-Höinghaus
Exzellenz – geplant, verdient, erworben?
Conference "Exzellenz in der Wissenschaft – Österreich im internationalen Vergleich",
Österreichischer Wissenschaftsrat, Vienna, Austria, 07.-08.11.2013, *invited lecture*

349) 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, Düsseldorf, 29.11.2013, *invited lecture*

350) K. Kohse-Höinghaus
Combustion: Important science for the future
51st Japanese Symposium on Combustion, Tokio, Japan, 04.-06.12.2013, *invited lecture*

351) K. Kohse-Höinghaus
(Bio)fuel and future
49th Winter Seminar "Biophysical Chemistry, Molecular Biology and Cybernetics of Cell
Functions", Klosters, Switzerland, 11.-25.01.2014, *invited lecture*

352) M. Schenk, S. Lieb, H. Vieker, A. Beyer, A. Gölzhäuser, H. Wang, K. Kohse-Höinghaus
Probing structural aspects of <10 nm-sized young soot
113. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Hamburg,
29.-31.05.2014, *poster, poster award*

353) K. Kohse-Höinghaus
Combustion chemistry
14th French School of Combustion, Les Hauts de Bruyères, Chaumont-sur-Tharonne, France, 02.-
07.05.2014, *invited lecture*

354) 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",
Aachen, 16.-18.06.2014, *lecture*

355) K. Kohse-Höinghaus
Optical diagnostics in combustion and beyond
Award presentation ceremony "SAOT Young Researcher Award", Friedrich-Alexander
Universität Erlangen-Nürnberg, Nürnberg, 10.07.2014, *invited lecture*

356) K. Kohse-Höinghaus
Combustion experiments for kinetic mechanism development
23rd International Symposium on Gas Kinetics and Related Phenomena, Szeged, Hungary, 20.-
25.07.2014, *invited lecture*

357) 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, San Francisco, CA, USA, 03.-08.08.2014, *lecture*

- 358) V. Gururajan, F.N. Egolfopoulos, K. Kohse-Höinghaus
Direct numerical simulations of probe effects in low-pressure flame sampling
35th International Symposium on Combustion, San Francisco, CA, USA, 03.-08.08.2014, *lecture*
- 359) M. Schenk, S. Lieb, H. Vieker, A. Beyer, A. Götzhäuser, H. Wang, K. Kohse-Höinghaus
Morphology of nascent soot in ethylene flames
35th International Symposium on Combustion, San Francisco, CA, USA, 03.-08.08.2014, *lecture*
- 360) M. Schenk, N. Hansen, H. Vieker, A. Beyer, A. Götzhäuser, K. Kohse-Höinghaus
PAH formation and soot morphology in flames of C₄ fuels
35th International Symposium on Combustion, San Francisco, CA, USA, 03.-08.08.2014, *lecture*
- 361) Z.-Y. Tian, P. Mountapmbeme Kouotou, A. El Kasmi, P.H. Tchoua Ngamou, K. Kohse-Höinghaus, H. Vieker, A. Beyer, A. Götzhäuser
Low-temperature deep oxidation of olefins and DME over cobalt ferrite
35th International Symposium on Combustion, San Francisco, CA, USA, 03.-08.08.2014, *lecture*
- 362) 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, San Francisco, CA, USA, 03.-08.08.2014, *lecture*
- 363) 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, San Francisco, CA, USA, 03.-08.08.2014, *lecture*
- 364) D. Felsmann, C. Hemken, K. Moshhammer, K. Kohse-Höinghaus
Low-temperature combustion chemistry – detailed speciation experiments
35th International Symposium on Combustion, San Francisco, CA, USA, 03.-08.08.2014, *poster*
- 365) J. Krüger, K. Kohse-Höinghaus, A. Brockhinke
The role of CO₂* on chemiluminescence sensors for active control
35th International Symposium on Combustion, San Francisco, CA, USA, 03.-08.08.2014, *poster*
- 366) 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, San Francisco, CA, USA, 03.-08.08.2014, *poster*
- 367) 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, Berlin, 21.-24.09.2014, *lecture*
- 368) M. Schenk, S. Lieb, H. Vieker, A. Beyer, A. Götzhäuser, H. Wang, K. Kohse-Höinghaus
Probing structural aspects of <10nm-sized young soot
AVS 61st International Symposium & Exhibition, Baltimore, MD, USA, 09.-14.11.2014, *poster*
- 369) K. Kohse-Höinghaus
Combustion chemistry research – a prerequisite for emission control
28th Annual Symposium of the Israeli Section of the Combustion Institute, Tel Aviv, Israel, 18.12.2014, *invited keynote lecture*
- 370) 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 US National Combustion Meeting, Cincinnati, OH, USA, 17.-20.05.2015, **lecture**

371) 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, Budapest, Hungary, 30.03.2015, **lecture**

372) 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, Bochum, 14.-16.05.2015, **poster**

373) 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, Bochum, 14.-16.05.2015, **lecture**

374) K. Kohse-Höinghaus
Challenges in alternative fuels
International Combustion Institute Summer School, São Paulo, Brazil, 8.-12.06.2015, **invited keynote lecture**

375) K. Kohse-Höinghaus
Biofuel combustion chemistry – diagnostic advances and challenges
3rd TMFB International Conference, Aachen, 23.-25.06.2015, **invited lecture**

376) K. Kohse-Höinghaus
Some like it hot – Combustion and the Future
Giulio Natta Award, Politecnico di Milano, Italy, 06.11.2015, **award lecture (Lectio Magistralis)**

377) 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, Thuwal, Saudi Arabia, 07.-09.03.2016, **poster**

378) 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, Thuwal, Saudi Arabia, 07.-09.03.2016, **poster**

379) 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, Rostock, 05.-07.05.2016, **poster**

380) 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, Rostock, 05.-07.05.2016, **poster**

- 381) 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, Rostock, 05.-07.05.2016, *poster*
- 382) 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, Seoul, Korea, 31.07.-05.08.2016, *lecture*
- 383) 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, Seoul, Korea, 31.07.-05.08.2016, *lecture*
- 384) 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, Seoul, Korea, 31.07.-05.08.2016, *lecture*
- 385) 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, Seoul, Korea, 31.07.-05.08.2016, *poster*
- 386) 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 (i²PEPICO) spectroscopy for combustion analysis
 36th International Symposium on Combustion, Seoul, Korea, 31.07.-05.08.2016, *poster*
- 387) 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, Seoul, Korea, 31.07.-05.08.2016, *poster*
- 388) K. Kohse-Höinghaus, Andreas Brockhinke
 Photons, electrons, and ions: Detective work in combustion chemistry research
 OSA Meeting *Light, Energy and the Environment*, Leipzig, 14.-17.11.2016, *invited lecture*
- 389) D. Emmrich, M. Salamanca, L. Ruwe, H. Vieker, A. Beyer, K. Kohse-Höinghaus, A. Götzhäuser
 Metrology on nascent soot particles from flames by Helium Ion Microscopy
 DPG-Frühjahrstagung, Dresden, 19.-24.03.2017, *lecture*
- 390) 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, Dubrovnik, Croatia, 18.-21.04.2017, *poster*
- 391) K. Moshhammer, N. Hansen, L. Ruwe, K. Kohse-Höinghaus
 Combustion chemistry of *n*-pentane – an extensive experimental study
 8th European Combustion Meeting, Dubrovnik, Croatia, 18.-21.04.2017, *poster*

- 392) 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, Dubrovnik, Croatia, 18.-21.04.2017, *poster*
- 393) 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, College Park, MD, USA, 23.-26.04.2017, *lecture*
- 394) 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, Kaiserslautern, 25.-27.05.2017, *lecture*
- 395) M. Salamanca, L. Ruwe, K. Kohse-Höinghaus
Effects of unsaturated methyl esters on soot precursors
116. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Kaiserslautern, 25.-27.05.2017, *poster*
- 396) 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 (i²PEPICO) spectroscopy for combustion analysis
116. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie, Kaiserslautern, 25.-27.05.2017, *poster*
- 397) 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, Kaiserslautern, 25.-27.05.2017, *poster*
- 398) 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, Kaiserslautern, 25.-27.05.2017, *poster*
- 399) 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, Kaiserslautern, 25.-27.05.2017, *lecture*
- 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
International Symposium on Molecular Spectroscopy, Champaign-Urbana, IL, USA, 19.-23.06.2017, *lecture*
- 401) 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*, Bielefeld, 21.-23.06.2017, **poster**

402) 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*, Bielefeld, 21.-23.06.2017, **poster**

403) 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*, Bielefeld, 21.-23.06.2017, **poster**

404) 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*, Bielefeld, 21.-23.06.2017, **poster**

405) 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*, Bielefeld, 21.-23.06.2017, **poster**

406) 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*, Bielefeld, 21.-23.06.2017, **poster**

407) 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*, Bielefeld, 21.-23.06.2017, **poster**

408) 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*, Bielefeld, 21.-23.06.2017, **poster**

409) 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*, Bielefeld, 21.-23.06.2017, **poster**

410) 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*,

Bielefeld, 21.-23.06.2017, *lecture*

411) 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",
Aachen, 20.-22.06.2017, *poster*

412) L. Ruwe, C. Hemken, K. Kohse-Höinghaus, K. Moshhammer, N. Hansen
Detailed chemistry investigations for conventional and alternative fuels
Symposium for Combustion Control, Aachen, 28.-29.06.2017, *poster*

413) K. Kohse-Höinghaus
Combustion chemistry developments between experiments, modeling, and theory
26th International Colloquium on the Dynamics of Explosions and Dynamic Systems, Boston,
MA, USA, 29.07.-04.08.2017, *invited plenary lecture*

414) D. Emmrich, M. Salamanca, L. Ruwe, H. Vieker, A. Beyer, K. Kohse-Höinghaus, A.
Gölzhäuser
Analysis of nascent soot particles from flames by Helium Ion Microscopy
Workshop on Focused Ion Beams, Berlin, 06.-07.11.2017, *lecture*

415) 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, Sydney, Australia, 10.-14.12.2017, *lecture*

416) 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, Villeneuve d'Ascq, France, 07.-08.11.2017, *poster*

417) K. Kohse-Höinghaus
Clean air? Combustion of Biofuels and mixtures
Clean Combustion Energy Research Day, Tsinghua University, Beijing, China, 28.02.2018,
invited lecture

418) A. Beyer, D. Emmrich, M. Salamanca, L. Ruwe, H. Vieker, K. Kohse-Höinghaus, A.
Gölzhäuser
Characterization of soot particles by Helium Ion Microscopy
DPG-Frühjahrstagung und EPS-CMD27, Berlin, 11.-16.03.2018, *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, Milano, Italy, 23.-
24.04.2018, *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, Hannover,
10.-12.05.2018, *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, Hannover, 10.-12.05.2018, *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, Hannover, 10.-12.05.2018, *poster*
- 423) K. Kohse-Höinghaus
Advances and developments in combustion chemistry and diagnostics
25th International Symposium on Chemical Reaction Engineering, Florence, Italy, 20.-23.05.2018, *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, Sorrento, Italy, 23.-26.05.2018, *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, Lille, France, 22.-26.07.2018, *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, Dublin, Ireland, 29.07.-03.08.2018, *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, Dublin, Ireland, 29.07.-03.08.2018, *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, Dublin, Ireland, 29.07.-03.08.2018, *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, Dublin, Ireland, 29.07.-03.08.2018, *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, Dublin, Ireland, 29.07.-03.08.2018, *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, Dublin, Ireland, 29.07.-03.08.2018, *poster*

432) A. Beyer, D. Emmrich, M. Salamanca, L. Ruwe, H. Vieker, K. Kohse-Höinghaus, A. Götzhäuser

Characterization of Soot Particles by Helium Ion Microscopy

AVS 65th International Symposium & Exhibition, 12.-26.10.2018, Long Beach, CA, USA, *lecture*

433) K. Kohse-Höinghaus

Will responsible energy strategies include combustion?

Symposium of the European Academy of Science: *Integrity and Responsibility on Science: Navigating through Conflicting Social and Epistemic Demands*, Bielefeld, 18.-20.10.2018, *invited*

lecture

434) K. Kohse-Höinghaus

Burning issues and bright concepts

Crocco Lecture, Princeton University, Princeton, NY, USA, 29.-30.11. 2018, *award lecture*

435) K. Kohse-Höinghaus

Combustion-related answers from and questions for photon tools

PTPC2019: *Photon Tools for Physical Chemistry*, Beatenberg, Switzerland, 08.-11.01.2019,

invited lecture

436) K. Kohse-Höinghaus

What could and should we measure in combustion chemistry diagnostics?

GKIAC 2019: International Workshop on Gas-Phase Kinetics in Interstellar, Atmospheric and Combustion Chemistry, Hefei, China, 06.-09.03.2019, *invited lecture*

437) 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, Aachen, 05.-06.06.2019, *poster*

438) K. Kohse-Höinghaus

Future combustion research and technology: Related diagnostic needs and challenges

Gordon Research Conference on Laser Diagnostics in Energy and Combustion Science, Les Diablerets, Switzerland, 23.-28.06.2019, *invited plenary lecture*

439) 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, Bochum, 17.-18.09.2019, *lecture*

440) 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, Bochum, 17.-18.09.2019, *lecture*

441) Katharina Kohse-Höinghaus

Perspectives of combustion chemistry research

RESOLV Excellence Center Symposium, Bochum, 08.-09.01.2020, *invited lecture*

- 442) Katharina Kohse-Höinghaus
 Combustion perspectives: Some contributions from physical chemistry
 715. Heraeus Seminar: Fuels, Processes, and Combustion Physics, Bad Honnef, 08.-12.03.2020, *invited lecture*
- 443) Katharina Kohse-Höinghaus
 Combustion perspectives – is combustion obsolete?
 Carbon Conversion Workshop, Bochum, 10.-11.09. 2020, *invited (online) lecture*
- 444) Katharina Kohse-Höinghaus
 Some like it hot – combustion at crossroads
 Bunsen Award Ceremony Online-Conference, 10.11.2020 *award lecture*
- 445) L. Ruwe, L. Cai, J. Wullenkord, S.C. Schmitt, D. Felsmann, M. Baroncelli, B. Chen, K. Moshhammer, N. Hansen, H. Pitsch, K. Kohse-Höinghaus
 Low- and high-temperature study of *n*-heptane combustion chemistry
 38th International Symposium on Combustion, Adelaide, Australia, 24.-29.01.2021, *online lecture*
- 446) S.M. Fritz, P. Mishra, J. Wullenkord, P.G. Fugazzi, K. Kohse-Höinghaus, T.S. Zwier, N. Hansen
 Detecting combustion intermediates via broadband chirped-pulse microwave spectroscopy
 38th International Symposium on Combustion, Adelaide, Australia, 24.-29.01.2021, *online lecture*
- 447) W. Yuan, L. Ruwe, S. Schwarz, C. Cao, J. Yang, O. Deutschmann, K. Kohse-Höinghaus, F. Qi
 Insights into the interaction kinetics between propene and NO_x at moderate temperatures with experimental and modeling methods
 38th International Symposium on Combustion, Adelaide, Australia, 24.-29.01.2021, *online lecture*
- 448) K. Kohse-Höinghaus
 Combustion in the future: The importance of chemistry
 38th International Symposium on Combustion, Adelaide, Australia, 24.-29.01.2021, *invited (online) keynote lecture*
- 449) K. Kohse-Höinghaus
 Women in Science and Engineering – exotic or normality?
 KAUST WISE Conference, Thuwal, Saudi Arabia, 08.-09.03.2021, *invited (online) lecture*
- 450) K. Kohse-Höinghaus
 Combustion – a hot topic
 The 3rd International Discussion Meeting on Chemistry and Technology of Combustion Application, Beijing, China, 04.-05.06.2021, *invited (online) keynote lecture*
- 451) K. Kohse-Höinghaus
 Chemical Kinetics in Combustion
 International Combustion Institute Virtual Summer School on Near-Wall Reactive Flows, 07.-10.06.2021, *invited (online) lecture*
- 452) S. Schmitt, S. Goßler, L. Maier, O. Deutschmann, K. Kohse-Höinghaus,
 Experimental study on the heterogeneous conversion of NO_x and NH₃ catalyzed by a vanadia-based SCR catalyst at highly diluted conditions,
 30. Deutscher Flammentag, Hannover, 28.-29.09.2021, *(online) lecture*

- 453) N. Gaiser, T. Bierkandt, H. Zhang, S. Schmitt, P. Oßwald, J. Zinsmeister, P. Hemberger, S. Shaqiri, T. Kasper, K. Kohse-Höinghaus, M. Köhler, M. Aigner, Systematic study on laminar low-pressure oxymethylene ether (OME_{0.4}) flames using molecular beam mass spectrometry and synchrotron photoionization
30. Deutscher Flammentag, Hannover, 28.-29.09.2021, **(online) lecture**
- 454) L. Ruwe, S. Schmitt, D. Zhu, B. Shu, K. Kohse-Höinghaus, A. Lucassen, Investigation of NH₃-H₂ mixtures in a plug-flow reactor
28th International Colloquium on the Dynamics of Explosions and Reactive Systems (ICDERS), Naples, Italy, 19.-24.06.2022, **poster**
- 455) K. Kohse-Höinghaus
Combustion and chemistry – some burning issues
Lectures on Theoretical and Computational Chemistry, Hefei, China, 06.01.2023, **invited (online) lecture**
- 456) K. Kohse-Höinghaus
Pathways in Combustion
WIMER – Women in Metrology and Energy Research Lecture, PTB Braunschweig, 08.03.2023, **invited (online) lecture**
- 457) K. Kohse-Höinghaus
Combustion chemistry research towards a low-carbon environment
Yun-Ji Lecture, 70th Anniversary of Nanjing University of Science and Technology
Nanjing, China, 29.03.2023, **invited (online) lecture**
- 458) K. Kohse-Höinghaus,
Thoughts on Excellence
CENIDE Conference 2023,
Bergisch Gladbach, 02.-04.05.2023, **invited keynote lecture**
- 459)
Combustion and Chemistry towards a low-carbon future,
Belgium Section of the Combustion Institute, Biannual Technical Meeting, Brussels, Belgium, 03.-05.04.2024, **invited keynote lecture**
- 460) K. Kohse-Höinghaus,
Verbrennung und Nachhaltigkeit
Seniorexperten Chemie der GDCh, Jahrestreffen, Magdeburg, 06.-08.05.2024, **invited lecture**

In addition, I have held more than 280 lectures upon invitation of national and international universities and institutions as well as moderated and participated in numerous panel discussions.