

## VERÖFFENTLICHUNGEN

### JOURNALE MIT WISSENSCHAFTLICHER QUALITÄTSSICHERUNG (PEER-REVIEW)

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## BUCHBEITRÄGE

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- B2. Keller, P., Hasse, C.: *Multicomponent droplet evaporation*, Best Practice Guidelines for Computational Fluid Dynamics of Turbulent Combustion, Springer, 2016.

## EINGELADENE VORTRÄGE UND BEITRÄGE

10. Hasse, C.: Novel approaches for comparing experimental and numerical data to understand the structure of turbulent flames (**Plenary Lecture**), 10<sup>th</sup> Mediterranean Combustion Symposium, 2017.
9. Hasse, C.: *Multi-scale modeling of solid fuel combustion and gasification: From detailed particle kinetics to large-scale CFD simulations* (**Invited Plenary Lecture**), 13<sup>th</sup> International Conference on Energy for a Clean Environment, 2017.
8. Hasse, C.: High-pressure engine sprays: the impact of multicomponent fuel modeling (**Keynote Lecture**), 15<sup>th</sup> Multiphase Flow Conference, 2017.
7. Scholtissek, A., Hunger, F., Dietzsch, F., Hasse, C.: The impact of thermal diffusion on the structure of non-premixed laminar flames (**Invited Lecture**), 10<sup>th</sup> US National Combustion Meeting, 2017.
6. Hasse, C.: *Scale-resolving simulations in engine combustion process design based on a systematic approach for model development* (**Invited Topical Review**), Journal of Engine Research, 17:44-62, 2016.
5. Hasse, C.: *Low-Grade Fuels, Energetic & Non-Energetic Use of Low-Grade Fuels: Scientific Challenges from a Combustion Point of View*, (**Invited Lecture**), KAUST Future Fuels Workshop, 2016.
4. Hasse, C.: *Modeling of Coal Kinetics* (**Invited Topical Review**), Elsevier Reference Module in Chemistry, Molecular Sciences and Chemical Engineering, 2015.
3. Buhl, S., Hartmann, F., Salenbauch, S., Hasse, C.: *Large Eddy Simulation von motorischer Verbrennung: Wie können hochauflösende CFD-Rechnungen im Entwicklungsprozess helfen?* (**Keynote Lecture**), Motorische Verbrennung - Aktuelle Probleme und moderne Lösungssätze, 2015.
2. Hasse, C.: *How accurate measurements of laminar flames can help for the computation of multidimensional flames*, 3<sup>rd</sup> Heat Flux Burner Workshop (**Keynote Lecture**), 2014.
1. Hasse, C.: *Cycle-to-Cycle Variations in IC Engines: Is LES an Academic Tool Only or Can It Solve Practical Problems?* (**Keynote Lecture**), Automotive Simulation World Congress, 2013.

## KONFERENZEN/PROCEEDINGS (MIT UND OHNE PEER REVIEW)

132. Vascellari, M., Hasse, C.: Towards high-fidelity CFD simulations of coal gasification, 8<sup>th</sup> International Conference on Clean Coal Technologies (CCT), 2017.
131. Scholtissek, A., Hunger, F., Dietzsch, F., Hasse, C.: Thermal diffusion effects on the structure of non-premixed flames, 10<sup>th</sup> US National Combustion Meeting, 2017.
130. Hartl, S., Geyer, D., Dreizler, A., Barlow, R.S., Hasse, C.: Reaction zone detection and characterization from Raman/Rayleigh line measurements in methane/air flames, 10<sup>th</sup> US National Combustion Meeting, 2017.
129. Schmidt, C., Hildebrandt, K., Zschutschke, A., Messig, D., Kureti, S., Hasse, C.: Experimental and numerical study of CO<sub>2</sub>-conversion by dynamic methanol synthesis, ProcessNet Reaktionstechnik, 2017.
128. Roy, S., Weise, S., Gupta, A., Modest, M., Hasse, C., Haworth, D.: Improvements to photon Monte Carlo radiation solver for combustion simulations, 17<sup>th</sup> International Conference on Numerical Combustion, 2017.
127. Baumann, P., Hübner, W., Hasse, C.: A Physical-Based Approach for Modeling Cycle-to-Cycle Variations within the 0D/1D Simulation Environment, 13. Konferenz Motorische Verbrennung - Aktuelle Probleme und moderne Lösungssätze, Berichte zur Energie- und Verfahrenstechnik (BEV), 2017.
126. Von Koerber, V., Birkhold, F., Leick, P., Bork, B., Hasse, C.: Understanding the effect of multiple high-pressure direct injections on diesel mixture formation and combustion using a combination of combustion chamber experiments and 3D CFD, 13. Konferenz Motorische Verbrennung - Aktuelle Probleme und moderne Lösungssätze, Berichte zur Energie- und Verfahrenstechnik (BEV), 2017.

125. Tufano, G.L., Stein, O.T., Kronenburg, A., Rieth, M., Kempf, A., Vascellari, M., Hasse, C.: Direct numerical simulation of burning coal particles under typical pulverized coal flame conditions, 17th International Conference on Numerical Combustion, 2017.
124. Gierth, S., Hunger, F., Ihme, M., Hasse, C.: Comparison of Diffusion modeling approaches for a turbulent oxy-fuel flames, 17th International Conference on Numerical Combustion, 2017.
123. Scholtissek, A., Messig, D., Vascellari, M., Hasse, C.: Assessment of flamelet tabulation strategies for pulverized coal combustion in a strained flow configuration, 17th International Conference on Numerical Combustion, 2017.
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121. Salenbauch, S., Sirignano, M., D'Anna, A., Marchisio, D.L., Vanni, M., Hasse, C.: Implementation of the Naples soot model in a Monte Carlo framework, 17th International Conference on Numerical Combustion, 2017.
120. Buhl, S., Hartmann, F., Kaiser, S., Hasse, C.: Numerical and experimental analysis of intake-port boundary-layer modeling and its influence on fluctuations of the large-scale charge motion, LES for Internal Combustion Engine Flows LES4ICE, 2016.
119. Buhl, S., Hain, D., Hartmann, F., Hasse, C.: A comparative investigation of the numerical treatment of intake and exhaust ports and their impact on in-cylinder cycle-to-cycle variations, LES for Internal Combustion Engine Flows LES4ICE, 2016.
129. Scholtissek, A., Hunger, F., Dietzsch, F., Hasse, C.: Thermal diffusion effects on the structure of non-premixed flames, 10th US National Combustion Meeting, 2017.
128. Hartl, S., Geyer, D., Dreizler, A., Barlow, R.S., Hasse, C.: Reaction zone detection and characterization from Raman/Rayleigh line measurements in methane/air flames, 10th US National Combustion Meeting, 2017.
127. Schmidt, C., Hildebrandt, K., Zschutschke, A., Messig, D., Kureti, S., Hasse, C.: Experimental and numerical study of CO<sub>2</sub>-conversion by dynamic methanol synthesis, ProcessNet Reaktionstechnik, 2017.
126. Roy, S., Weise, S., Gupta, A., Modest, M., Hasse, C., Haworth, D.: Improvements to photon Monte Carlo radiation solver for combustion simulations, 17th International Conference on Numerical Combustion, 2017.
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