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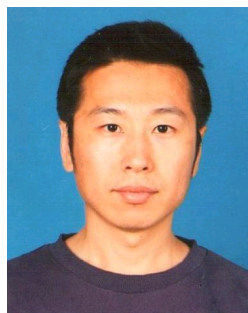
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主要研究方向:

燃烧的激光光谱诊断

代表性论著:

1. B. Li, Y. He, Z. S. Li, A. A. Konnov, Measurements of NO Concentration in NH₃-doped CH₄ + Air Flames using Saturated Laser-Induced Fluorescence and Probe Sampling, Combustion and Flame, accepted
2. Bo Li, Zhiwei Sun, Zhongshan Li, Marcus Aldén, Jon G. Jakobsen, Stine Hansen, Peter Glarborg, Post-flame gas-phase sulfation of potassium chloride, Combustion and Flame, accepted
3. Paul C. Miles, Bo Li, Zhongshan Li, Marcus Aldén, Atmospheric Pressure Acetylene Detection by UV Photo-fragmentation and Induced C₂ Emission, Applied Spectroscopy, accepted
4. B. Li, M. Jonsson, M. Algotsson, J. Bood, Z. S. Li, O. Johansson, M. Aldén, M. Tunér, B. Johansson, Quantitative detection of hydrogen peroxide in an HCCI engine using photofragmentation laser-induced fluorescence, Proceedings of the Combustion Institute, 34(2012).
5. Johan Sjöholm, Joakim Rosell, Bo Li, Mattias Richter, Zhongshan Li, Xue-Song Bai, and Marcus Aldén, Simultaneous measurements of OH, CH, CH₂O and Toluene LIF in a methane jet flame with varying degrees of turbulence, Proceedings of the Combustion Institute, 34(2012).

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- de Goey, Tar Conversion in Biogas by Partial Combustion: A Numerical and Experimental Study of Polycyclic Aromatic Hydrocarbons in a Laminar Diffusion Flame, *Proceedings of the Combustion Institute*, 34(2012).
- 7.Z.H. Wang, L. Yang, B. Li, Z.S. Li, Z.W. Sun, M. Aldén, K.F. Cen, A.A. Konnov, Investigation of combustion enhancement by ozone additive in CH₄/air flames using direct laminar burning velocity measurements and kinetic simulations, *Combustion and Flame*, 159(2012)120 – 129.
- 8.C. Duwig, B. Li, Z.S. Li, M. Aldén, High resolution imaging of flameless and distributed turbulent combustion, *Combustion and Flame*, 159(2012)306 – 316.
- 9.O. Johansson, J. Bood, B. Li, A. Ehn, Z.S. Li, Z.W. Sun, M. Jonsson, A.A. Konnov, M. Aldén, Photofragmentation laser-induced fluorescence imaging in premixed flames, *Combustion and Flame*, 158(2011)1908-1919.
- 10.Z.W. Sun, Z.S. Li, B. Li and M. Aldén, Flame temperature diagnostics with water lines using mid-infrared degenerate four-wave mixing, *Raman Spectroscopy*, 42(2011)1828 – 1835.
- 11.B. Yan, Y. Wu, C. Liu, J.F. Yu, B. Li, Z.S. Li, G. Chen, X.S. Bai, M. Aldén, A.A. Konnov, Experimental and modeling study of laminar burning velocity of biomass derived gases/air mixtures, *International Journal of Hydrogen Energy*, 36(2011)3769 – 3777.
- 12.Z.W. Sun, M. F^rsth, Z.S. Li, B. Li, and M. Aldén, Mid-infrared polarization spectroscopy: A tool for in situ measurements of toxic gases in smoke-laden environments, *Fire Mater.*, 35(2011)527 – 537.
- 13.E. Baudoin, X.S. Bai, B. Yan, C. Liu, A. Lantz, S.M. Hosseini, B. Li, A. Elbaz, M. Sami, Z.S. Li, R. Collin, G. Chen, L. Fuchs, M. Aldén, and M.S. Mansour, Effect of Partial Premixing on Stabilization and Local Extinction of Turbulent Methane/Air Flames, 7th Mediterranean Combustion Symposium, Chia Laguna, Italy, 2011.
- 14.Z.W. Sun, Z.S. Li, B. Li, Z.T. Alwahabi, M. Aldén, Quantitative C₂H₂ measurements in sooty flames using mid-infrared polarization spectroscopy, *Appl. Phys. B*, 101(2010)423-432.
- 15.A. Ehn, O. Johansson, J. Bood, A. Arvidsson, B. Li, M. Aldén, Fluorescence lifetime imaging in a flame, *Proceedings of the Combustion Institute*, 33(2010)807-813.
- 16.B. Li, J. Lindén, Z.S. Li, A.A. Konnov, M. Aldén, and L.P.H. de Goey, Accurate Measurements of Laminar Burning Velocity Using the Heat Flux Method and Thermographic Phosphor Technique, *Proceedings of the Combustion Institute*, 33(2010)939-946.
- 17.J. Kiefer, J.W. Troger, T. Seeger, A. Leipertz, B. Li, Z.S. Li, and M. Aldén, Laser-induced breakdown spectroscopy in gases using ungated detection in combination with polarization filtering and online background correction, *Meas. Sci. Technol.*, 21(2010) 065303.
- 18.Z.W. Sun, Z.S. Li, B. Li, M. Aldén, and P. Ewart, Detection of C₂H₂ and HCl using mid-infrared degenerate four-wave mixing with stable beam alignment: towards practical in situ sensing of trace molecular species, *Appl. Phys. B*, 98(2010)593 – 600.
- 19.Z.H. Wang, B. Li, A. Ehn, Z.W. Sun, Z.S. Li, J. Bood, M. Aldén, and K.F. Cen, Investigation of flue-gas treatment with O₃ injection using NO and NO₂ planar laser-induced fluorescence, *Fuel*, 89(2010)2346 – 2352.
- 20.B. Yan, B. Li, E. Baudoin, C. Liu, Z.W. Sun, Z.S. Li, X.S. Bai, M. Aldén, G. Chen, and M. S. Mansour, Structures and stabilization of low calorific value gas turbulent partially premixed flames in a conical burner, *Experimental Thermal and Fluid Science*, 34(2010)412 – 419.
- 21.Z.S. Li, B. Li, Z.W. Sun, X.S. Bai, and M. Aldén, Turbulence and combustion interaction: High resolution local flame front structure visualization using simultaneous single-shot PLIF imaging of CH, OH, and CH₂O in a piloted premixed jet flame, *Combustion and Flame*, 157(2010)1087 – 1096.
- 22.Bo Li, Yu Li, Zhihua Wang, Zhongshan Li, Zhiwei Sun, Marcus Aldén, A novel multi-jet quartz burner for laminar near-adiabatic flames: Standards of temperatures calibration of laser diagnostics techniques, 4th European Combustion Meeting, Vienna, Austria, 2009.
- 23.B. Li, B.B. Yan, C.Y. Liu, E. Baudoin, Z.W. Sun, Z.S. Li, X.S. Bai, M. Aldén, G. Chen, M. Mansour, Simultaneous OH/Fuel PLIF Imaging of a Partially Premixed Flame inside the Quartz Cone of a Conical burner, 4th European Combustion Meeting, Vienna, Austria, 2009.
- 24.Z.S. Li, B. Li, Z.W. Sun, X. S. Bai, M. Aldén, Turbulence and Combustion Interaction: High Resolution Local Flame Front Structure Visualization with Simultaneous Single-shot PLIF of CH and CH₂O in a Piloted Premixed Jet Flame Spectroscopic, 4th European Combustion Meeting, Vienna, Austria, 2009.
- 25.B.B. Yan, B. Li, E. Baudoin, C.Y. Liu, Z.W. Sun, Z.S. Li, X.S. Bai, M. Aldén, G. Chen, M. Mansour, Structures and Stabilization of Low Calorific Value Gas Turbulent Partially Premixed Flames in a Conical

Burner, 4th European Combustion Meeting, Vienna, Austria, 2009.

26. Z.S. Li, Z.W. Sun, B. Li, and M. Aldén, Spatially resolved trace detection of HCl in flames with mid-infrared polarization spectroscopy, *Optics Letter*, 33(2008)1836-1838.

27. Z.W. Sun, J. Kiefer, Z.S. Li, B. Li, and M. Aldén, Four Wave Mixing with Non-Resonant pump and Resonant