

Publication list of Ron Hanson

1148	J.J. Girard and R.K. Hanson, “Minimally Intrusive Optical Probe for <i>in situ</i> Shock Tube Measurements of Temperature and Species via Tunable IR Laser Absorption,” <i>Applied Physics B</i> , submitted August 2017.
1147	M. Nations, S. Wang, C.S. Goldenstein, D.F. Davidson and R.K. Hanson, “Kinetics of Excited Oxygen Formation in Shock-Heated O ₂ -Ar Mixtures,” <i>J. Phys. Chem. A</i> 120 (43) 8234-8243 DOI 10.1021/acs.jpca.6b07274
1146	S. Wang, T. Parise, S.E. Johnson, D.F. Davidson and R.K. Hanson, “A New Diagnostic for Hydrocarbon Fuels using 3.41-micron Diode Laser Absorption,” <i>Comb. and Flame</i> 186 129-139 DOI 10.1016/j.combustflame.2017.07.026
1145	S. Wang, D.F. Davidson and R.K. Hanson, “A Shock Tube Study of CH ₂ Oxidation via Simultaneous Laser Absorption Measurements of OH and CO,” International Conference on Chemical Kinetics, Chicago, IL, 5/2017.
1144	C. Hemken, U. Burke, K.Y. Lam, D. F. Davidson, R. K. Hanson, K. A. Heufer and K. Kohse-Hoinghaus, “Towards a Better Understanding of 2-butanone Oxidation: Detailed Species Measurements and Kinetic Modeling,” <i>Comb. and Flame</i> 184 195-207 (2017) DOI 10.1016/j.combustflame.2017.06.001
1143	A.M. Tulgestke, S. Johnson, D.F. Davidson and R.K. Hanson, “High-Speed Imaging of Inhomogeneous Ignition in a Shock Tube,” submitted to 26th ICDERS, Boston, Massachusetts, 1/2017.
1142	R. Xu, D. Chen, K. Wang, Y. Tao, J.K. Shao, T. Parise, Y. Zhe, S. Wang, R. Zhao, D.J. Lee, F.N. Egolfopoulos, D.F. Davidson, R.K. Hanson, C.T. Bowman and H. Wang, “HyChem Model for Petroleum-Derived Jet Fuels,” submitted to 10th U.S. National Combustion Meeting.
1141	R. Xu, H. Wang, D.F. Davidson, R.K. Hanson, C.T. Bowman, F.N. Egolfopoulos, “Evidence Supporting a Simplified Approach to Modeling High-Temperature Combustion Chemistry,” submitted to 10th U.S. National Combustion Meeting.
1140	A.M. Tulgestke, D.F. Davidson and R.K. Hanson, “Laser Absorption Measurements of Ethylene and Carbon Monoxide Time-Histories During n-heptane Oxidation at Low Temperatures Behind Reflected Shock Waves,” submitted to 10th U.S. National Combustion Meeting.
1139	A.M. Ferris, D.F. Davidson and R.K. Hanson, “Combined Laser Absorption and Gas Chromatography (GC) Speciation in a Shock Tube: Validation and Application to Ethylene Pyrolysis,” submitted to 10th U.S. National Combustion Meeting.
1138	S. Wang, T. Parise, D.F. Davidson and R.K. Hanson, “A New Diagnostic for Hydrocarbon Fuels Using 3.41-micron Diode Laser Absorption,” submitted to 10th U.S. National Combustion Meeting.
1137	J.K. Shao, D.F. Davidson and R.K. Hanson, “Shock Tube Study of Jet Fuel Pyrolysis and Ignition at Elevated Pressure,” submitted to 10th U.S. National Combustion Meeting.
1136	K. Wang, R. Xu, T. Parise, J.K. Shao, D.F. Davidson, R.K. Hanson, H. Wang, C.T. Bowman, “Evaluation of a Hybrid Chemistry Approach for Combustion of Blended Petroleum and Bio-derived Jet Fuels,” submitted to 10th U.S. National Combustion Meeting.
1135	K. Wang, R. Xu, T. Parise, J.K. Shao, D.J. Lee, A. Movaghar, D.F. Davidson, R.K. Hanson, H. Wang, C.T. Bowman and F.N. Egolfopoulos, “Combustion Kinetics of Conventional and Alternative Jet Fuels using a Hybrid Chemistry (HyChem) Approach,” submitted to 10th U.S. National Combustion Meeting.
1134	H. Ning, J. Wu, L. Ma, W. Ren, D.F. Davidson and R.K. Hanson, “Chemical Kinetic Modeling and Shock Tube Study of Methyl Propanoate Decomposition,” <i>Comb. and Flame</i> 184 30-40 (2017) DOI 10.1016/j.combustflame.2017.06.001

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1133	J.K. Shao, D.F. Davidson and R.K. Hanson, "Ignition Delay Times of Methane and Hydrogen Highly Diluted in Carbon Dioxide," ISSW 31, Nagoya, Japan, 7/17, submitted 11/16.
1132	J.K. Shao, Y. Zhu, D.F. Davidson and R.K. Hanson, "Shock Tube Study of the Effect of NO Addition on Ignition Delay Times of n-Dodecane/Air Mixtures," ISSW 31, Nagoya, Japan, 7/17, submitted 11/16.
1131	J.J. Girard, R.M. Spearrin, C.S. Goldenstein and R.K. Hanson, "Compact Optical Probe for Flame Temperature and Carbon Dioxide using Interband Cascade Laser Absorption near 4.2 μ m," <i>Comb. and Flame</i> 178 158-167 DOI 10.1016/j.combustflame.2017.01.007
1130	C.A. Almodovar, R.M. Spearrin and R.K. Hanson, "Two-color Laser Absorption near 5 μ m for Temperature and Nitric Oxide Sensing in High-temperature Gases," <i>JQSRT</i> , DOI 10.1016/j.jqsrt.2017.03.003
1129	C.S. Goldenstein, R.M. Spearrin, J.B. Jeffries and R.K. Hanson, "Infrared Laser-absorption Sensing for Combustion Gases," <i>Prog. in Energy and Comb. Sci</i> 60 132-176 (2017) DOI 10.1016/j.pecs.2016.12.002
1128	M. Nations, L.S. Chang, J.B. Jeffries, R.K. Hanson, <i>et al.</i> , "Characterization of a Large-scale Arc-jet Facility using Tunable Diode Laser Absorption Spectroscopy," <i>AIAA J.</i> , submitted 10/16.
1127	W.Y. Peng, C.S. Goldenstein, R.M. Spearrin, J.B. Jeffries and R.K. Hanson, "A Single-ended Mid-infrared Laser-absorption Sensor for Simultaneous <i>in situ</i> Measurements of H ₂ O, CO ₂ and Temperature in Combustion Flows," <i>Applied Optics</i> 55 (33) 9347-9359 (2016) DOI 10.1364/AO.55.009347
1126	R. Sur, W.Y. Peng, C.S. Strand, R.M. Spearrin, J.B. Jeffries, R.K. Hanson, <i>et al.</i> , "Mid-Infrared Laser Absorption Spectroscopy of NO ₂ at Elevated Temperatures," <i>JQSRT</i> 187 364-374 (2017) DOI 10.1016/j.jqsrt.2016.10.016
1125	D.F. Davidson, J. Shao, T. Parise and R.K. Hanson, "Shock Tube Measurements of Jet and Rocket Fuels," AIAA SciTech 2017, Grapevine, TX, 2/2016 DOI 10.2514/6.2016-0178
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1122	M.F. Campbell, K.G. Owen, D.F. Davidson and R.K. Hanson, "Dependence of Calculated Postshock Thermodynamic Variables on Vibrational Equilibrium and Input Uncertainty," <i>AIAA J. of Thermophysics and Heat Transfer</i> 31 (3) 586-608 DOI 10.2514/1.T4952
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1119	M. Gamba and R.K. Hanson, " Cinematographic PLIF Imaging of Toluene Using CW Excitation ," 16th Int. Symp. on Applications of Laser Techniques to Fluid Mechanics, July 9-12, 2012.
1118	R.K. Hanson and D.F. Davidson, " Advances in Shock Tube Techniques for Fundamental Studies of Combustion Kinetics ," 25th ICDERS Conf., Leeds, UK, Aug. 2-7, 2015.
1117	Y. Zhu, S. Wang, D.F. Davidson and R.K. Hanson, " Shock Tube Measurements of Species Time-histories during Jet Fuel Pyrolysis and Oxidation ," 25th ICDERS Conf., Leeds, UK, Aug. 2-7, 2015.

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1116	C.S. Goldenstein, R.M. Spearrin and R.K. Hanson, "Fiber-coupled Diode-laser Sensors for Calibration-free Stand-off Measurements of Gas Temperature, Pressure and Composition," <i>Applied Optics</i> 55 (3) 479-484 (2016) DOI 10.1364/AO.55.000479
1115	A.M. Tulgestke, D.F. Davidson and R.K. Hanson, "High-speed OH Imaging Diagnostic for Shock Tube Studies of Inhomogeneous Ignition," 36th Symp. (Int.) on Combustion, submitted 12/2015.
1114	S. Wang, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "Time-resolved Sub-ppm CH ₃ Detection in a Shock Tube using Cavity-enhanced Absorption Spectroscopy with a ps-pulsed UV Laser," 36th Symp. (Int.) on Combustion, Seoul, Korea, 2016 DOI 10.1016/j.proci.2016.08.012
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1112	T. Parise, D.F. Davidson and R.K. Hanson, "Shock Tube/Laser Absorption Measurements of the Pyrolysis of a Bimodal Test Fuel," 36th Symp. (Int.) on Combustion, Seoul, Korea, 2016 DOI 10.1016/j.proci.2016.07.081
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1110	D.F. Davidson, Y.Y. Zhu, J. Shao and R.K. Hanson, "Ignition Delay Time Correlations for Distillate Fuels," <i>Fuel</i> 187 26–32 (2017) DOI 10.1016/j.fuel.2016.09.047
1109	R. Sur, R.M. Spearrin, W.Y. Peng, C.L. Strand, J.B. Jeffries, G.M. Enns and R.K. Hanson, "Line Intensities and Temperature-dependent Line Broadening Coefficients of Q-branch Transitions in the ν_2 Band of Ammonia near 10.4 μm ," <i>JQSRT</i> 175 90-99 (2016) DOI 10.1016/j.jqsrt.2016.02.002
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1106	V.A. Troutman, C.L. Strand, M.F. Campbell, A.M. Tulgestke, V.A. Miller, D.F. Davidson and R.K. Hanson, "High-speed OH* chemiluminescence imaging of ignition through a shock tube end-wall," <i>App. Phys B</i> 122 (3) (2016) DOI 10.1007/s00340-016-6326-y
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1103	M. Nations, S. Wang, C.S. Goldenstein, K. Sun, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "Shock Tube Measurements of Excited Oxygen Atoms using Cavity-enhanced Absorption Spectroscopy," <i>Applied Optics</i> 54 (29) 8766-8775 (2015) DOI 10.1364/AO.54.008766
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1100	D.F. Davidson, A. Tulgestke and R.K. Hanson, "High-speed Imaging of Ignition behind Reflected Shock Waves," AIAA Sci. & Tech. Forum, San Diego, Jan. 2016, DOI 10.2514/6.2016-0188

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1099	D.F. Davidson, Y. Zhu, S. Wang, T. Parise, R. Sur, and R.K. Hanson, "Shock Tube Measurements of Jet and Rocket Fuels," AIAA Sci. & Tech. Forum, San Diego, Jan. 2016 DOI 10.2514/6.2016-0178
1098	R.K. Hanson and D.F. Davidson, "Chemical Kinetics and Reacting Flows," invited paper, ISSW 30/Tel Aviv, Jul. 2015, DOI 10.1007/978-3-319-46213-4_7
1097	M. Gamba, V.A. Miller, M.G. Mungal and R.K. Hanson, "Temperature and Number Density Measurement in Non-uniform Supersonic Flowfields Undergoing Mixing using Toluene PLIF Thermometry," <i>App. Phys. B: Lasers and Optics</i> 120 285-304 (2015) DOI 10.1007/s00340-015-6136-7
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