

Publication list of Ron Hanson

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> , submitted 12/16.
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> , in press 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
1124	S. Wang, D.F. Davidson and R.K. Hanson, "Shock Tube Measurement for the Dissociation Rate Constant of Acetaldehyde using Sensitive CO Diagnostic," <i>J. Phys. Chem. A</i> 120 (35) 6895–6901 (2016) DOI 10.1021/acs.jpca.6b03647
1123	S. Wang, D.F. Davidson and R.K. Hanson, "Improved Shock Tube Measurement of the CH ₄ + Ar = CH ₃ + H + Ar Rate Constant using UV Cavity-enhanced Absorption Spectroscopy of CH ₃ ," <i>J. Phys. Chem. A</i> 120 (28) 5427–5434 (2016) DOI 10.1021/acs.jpca.6b02572
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> in press DOI 10.2514/1.T4952
1121	W.Y. Peng, R. Sur, C.L. Strand, R.M. Spearrin, J.B. Jeffries and R.K. Hanson, "High-sensitivity <i>in situ</i> QCLAS-based Ammonia Concentration Sensor for High-temperature Applications," <i>App. Phys. B</i> 122 (7) (2016) DOI 10.1007/s00340-016-6464-2
1120	V.A. Miller, V.A. Troutman, M.G. Mungal and R.K. Hanson, " 20 kHz tracer-based PLIF of a jet in crossflow in an expansion tube ," 17th Int. Symp. on Applications of Laser Techniques to Fluid Mechanics, July 7-10, 2014.
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.
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.

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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
1113	S. Wang, K. Sun, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "Cavity-enhanced Absorption Spectroscopy with a ps-pulsed UV Laser for Sensitive, High-speed Measurements in a Shock Tube," <i>Optics Express</i> 24 (1) 308-318 (2016) DOI 10.1364/OE.24.000308
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
1111	P. Gokulakrishnan, C.C. Fuller, M. Klassen, Y. Zhu, D.F. Davidson, R.K. Hanson and B. Kiel, "Ignition of Light Hydrocarbon Mixtures Relevant to Thermal Cracking of Jet Fuels," AIAA Sci. & Tech. Forum, San Diego, Jan. 2016 DOI 10.2514/6.2016-0661
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
1108	S. Wang, D.F. Davidson and R.K. Hanson, "Rate Constants of Long, Branched, and Unsaturated Aldehydes with OH at Elevated Temperatures," 36th Symp. (Int.) on Combustion, Seoul, Korea, 2016 DOI 10.1016/j.proci.2016.06.017
1107	W. Ren, K.-Y. Lam, D.F. Davidson and R.K. Hanson, "Pyrolysis and Oxidation of Methyl Acetate in a Shock Tube: A Multi-species Time-history Study," 36th Symp. (Int.) on Combustion, Seoul, Korea, 2016 DOI 10.1016/j.proci.2016.05.002
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
1105	V.A. Miller, M. Tilghman and R.K. Hanson, "The Hidden Complexities of the Simple Match," <i>Physics of Fluids</i> 27 091105 (2015) DOI 10.1063/1.4930906
1104	M.F. Campbell, D.F. Davidson and R.K. Hanson, "Scaling Relation for High-Temperature Biodiesel Surrogate Ignition Delay Times," <i>Fuel</i> 164 151–159 (2016) DOI 10.1016/j.fuel.2015.09.078
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
1102	M.F. Campbell, D.R. Haylett, D.F. Davidson and R.K. Hanson, "AEROFROSH: A Shock Condition Calculator for Multi-component Fuel Aerosol-laden Flows," <i>Shock Waves</i> 26 (4) 429-447 (2015) DOI 10.1007/s00193-015-0582-3
1101	S. Wang, S. Li, D.F. Davidson and R.K. Hanson, "Shock Tube Measurement of the High-temperature Rate Constant for OH + CH ₃ → Products," <i>J. Phys. Chem. A</i> 119 (33) 8799–8805 (2015) DOI 10.1021/acs.jpca.5b05725
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
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.
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
1096	C.S. Goldenstein, V.A. Miller and R.K. Hanson, "Infrared Planar Laser-induced Fluorescence with a CW Quantum-Cascade Laser for Spatially Resolved CO ₂ and Gas Properties," <i>App. Phys. B</i> 120 185-199 (2015) DOI 10.1007/s00340-015-6167-0

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1095	V.A Miller, R.M. Spearrin, C.L. Strand, R.K. Hanson and G.M Enns, "Breath-Ammonia Spectroscopy for Point-of-care Pediatric Applications," <i>Biomed. Phys. Eng. Express</i> , submitted 7/2015.
1094	R. Sur, K. Sun, J.B. Jeffries, J.G. Socha and R.K. Hanson, "Scanned-wavelength-modulation Spectroscopy Sensor for CO, CO ₂ , CH ₄ and H ₂ O in a High-pressure Engineering-scale Transport-reactor Coal Gasifier," <i>Fuel</i> 150 102-111 (2015) DOI 10.1016/j.fuel.2015.02.003
1093	S. Wang, K. Sun, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "Shock Tube Measurement of Acetone Dissociation using Cavity-enhanced Absorption Spectroscopy of CO," <i>J. Phys. Chem. A</i> 119 7257-7262 (2015) DOI 10.1021/jp511642a
1092	C.S. Goldenstein and R.K. Hanson, "Diode-laser Measurements of Linestrength and Temperature-dependent Lineshape Parameters for H ₂ O Transitions near 1.4 μm using Voigt, Rautian, Galatry and Speed-dependent Voigt Profiles," <i>JQSRT</i> 152 127-139 (2015) DOI 10.1016/j.jqsrt.2014.11.008
1091	D.F. Davidson, A. Tulgestke, Y. Zhu and R.K. Hanson, " Species Time-history Measurements during Jet Fuel Pyrolysis and Oxidation ," ISSW 30/Tel Aviv, 7/2015; in press.
1090	D.F. Davidson, A. M. Tulgestke, C. Strand, M. Campbell and R.K. Hanson, "Rapid Chemiluminescent Imaging behind Reflected Shock Waves," ISSW 30/ Tel Aviv, 7/2015; in press.
1089	R. Sur, S. Wang, K. Sun, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "High Sensitivity Interference-free Diagnostic for Measurement of Methane in Shock Tubes," <i>JQSRT</i> 156 80-87 (2015) DOI 10.1016/j.jqsrt.2015.01.023
1088	S. Wang, E. Dames, D.F Davidson and R.K. Hanson, "Reaction Rate Constant of CH ₂ O + H=HCO + H ₂ Revisited: A Combined Study of Direct Shock Tube Measurement and Transition State Theory Calculation," <i>J. Phys. Chem. A</i> 118 10201-10209 (2014) DOI 10.1021/jp5085795
1087	OB0BY. Zhu, R.K. Hanson and D.F. Davidson, "Shock Tube/ Laser Absorption Measurements of Jet Fuel Pyrolysis and Oxidation," 53rd AIAA Aerospace Sciences Meeting, Kissimmee, FL 1/2015 DOI 10.2514/6.2015-1158
1086	C.L. Strand and R.K. Hanson, "Quantification of Transient Supersonic Impulse Flow Conditions via High-bandwidth TDLAS Measurements," <i>AIAA J.</i> 53 2978-2987 (2015) DOI 10.2514/1.J053842
1085	S. Li, S.M. Sarathy, D.F. Davidson, R.K. Hanson and C.K. Westbrook, "Shock Tube and Modeling Study of 2,7-dimethyloctane Pyrolysis and Oxidation," <i>Comb. and Flame</i> 162 2296-2306 (2015) DOI 10.1016/j.combustflame.2015.01.027
1084	K. Sun, S. Wang, R. Sur, X. Chao, J.B. Jeffries and R.K. Hanson, "Time-resolved in situ Detection of CO in a Shock Tube using Cavity-enhanced Absorption Spectroscopy with a Quantum-cascade Laser near 4.6 μm," <i>Optics Express</i> 22 (20) 24559-24565 (2014) DOI 10.1364/OE.22.024559
1083	R.M. Spearrin, I.A. Schultz, J.B. Jeffries and R.K. Hanson, "Laser Absorption of Nitric Oxide for Thermometry in High-enthalpy Air," <i>Meas. Sci. and Tech.</i> 25 125103 (7pp) (2014) DOI 10.1088/0957-0233/25/12/125103
1082	C.S. Goldenstein, C.A. Almodovar, J.B. Jeffries and R.K. Hanson, "High-bandwidth Scanned-wavelength-modulation Spectroscopy Sensors for Temperature and H ₂ O in a Rotating Detonation Engine," <i>Meas. Sci. and Tech.</i> 25 (2014) DOI 10.1088/0957-0233/25/10/105104
1081	K. Owen, D.F. Davidson and R.K. Hanson, "Measurements of Oxygen Dissociation Using Laser Absorption," <i>AIAA J. of Thermophysics and Heat Transfer</i> 30 (2) 274-278 (2016) DOI 10.2514/1.T4506
1080	K. Owen, D.F. Davidson and R.K. Hanson, "Oxygen Vibrational Relaxation Times: Shock Tube/Laser Absorption Measurements," <i>AIAA J. of Thermophysics and Heat Transfer</i> 30 (4) 791-798 (2016) DOI 10.2514/1.T4505
1079	C.H. Smith, C.S. Goldenstein and R.K. Hanson, "A Scanned-wavelength Modulation Absorption Spectroscopy Sensor for Temperature and H ₂ O in Low-pressure Flames," <i>Meas. Sci. and Tech.</i> 25 115501 (13pp) (2014) DOI 10.1088/0957-0233/25/11/115501
1078	S.M. Burke, U. Burke, R. McDonagh, O. Mathieu, E.L. Petersen, W. Wang, M.A. Oehlschlaeger, B. Rhodes, R.K. Hanson, D.F. Davidson, B.W. Weber, C.-J. Sung, J. Santer, Y. Ju, E.N. Volkov, A.A. Konnov, M. Alrefae, F. Khaled, A. Farooq and H.J. Curran, "An Experimental and Modeling Study of Propene Oxidation. Part 2: Ignition Delay Time and Flame Speed Measurements," <i>Comb. and Flame</i> 132 170-177 (2014) DOI 10.1016/j.combustflame.2014.07.032

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1077	S. Li, Y. Zhu, D.F. Davidson and R.K. Hanson, "Pyrolysis Study of Conventional and Alternative Fuels behind Reflected Shock Waves," <i>Fuel</i> 132 170-177 (2014) DOI 10.1016/j.fuel.2014.04.077
1076	M.F. Campbell, A.M. Tulgestke, D.F. Davidson and R.K. Hanson, "A Second-generation Constrained Reaction Volume Shock Tube," <i>Rev. Sci. Instr.</i> 85 055108 (2014) DOI 10.1063/1.4875056
1075	M.F. Campbell, T. Parise, A.M. Tulgestke, R.M. Spearrin, D.F. Davidson and R.K. Hanson, "Strategies for Obtaining Long Constant-pressure Test Times in Shock Tubes," <i>Shock Waves</i> 25 (6) 651-665 (2015) DOI 10.1007/s00193-015-0596-x
1074	M.F. Campbell, D.R. Haylett, D.F. Davidson and R.K. Hanson, "Ignition Delay Times of Very-low-vapor-pressure Biodiesel Surrogates behind Reflected Shock Waves," <i>Fuel</i> 126 271-281 (2014) DOI 10.1016/j.fuel.2014.02.050
1073	M.F. Campbell, K.G. Freeman, D.F. Davidson and R.K. Hanson, "FTIR Measurements of Mid-IR Absorption Spectra of Gaseous Fatty Acid Methyl Esters at T = 25 – 500° c," <i>JQSRT</i> 145 57-73 (2014) DOI 10.1016/j.jqsrt.2014.04.017
1072	R.M. Spearrin, C.S. Goldenstein, I.A. Schultz, J.B. Jeffries and R.K. Hanson, "Simultaneous Sensing of Temperature, CO and CO ₂ in a Scramjet Combustor using Quantum Cascade Laser Absorption Spectroscopy," <i>App. Phys. B</i> 117 689-698 (2014) DOI 10.1007/s00340-014-5884-0
1071	M.F. Campbell, D.F. Davidson and R.K. Hanson, "Ignition Delay Times of Very-low-vapor-pressure Biodiesel Surrogates behind Reflected Shock Waves," <i>Fuel</i> 126 271-281 (2014) DOI 10.1016/j.fuel.2014.02.050
1070	K. Sun, S. Wang, R. Sur, X. Chao, J.B. Jeffries and R.K. Hanson, "Sensitive and Rapid Laser Diagnostics for Shock Tube Kinetics Studies using Cavity-enhanced Absorption Spectroscopy," <i>Optics Express</i> 22 (8) 9291-9300 (2014) DOI 10.1364/OE.22.009291
1069	V.A. Miller, V.A. Troutman and R.K. Hanson, "Near-kHz 3D Tracer-based LIF Imaging of a Co-flow Jet using Toluene," <i>Meas. Sci. and Tech.</i> 25 1-10 (2014) DOI 10.1088/0957-0233/25/7/075403
1068	K. Sun, R. Sur, J.B. Jeffries, R.K. Hanson, T. Clark, J. Anthony, S. Machove and J. Northington, "Application of a Wavelength-scanned WMS H ₂ O Absorption Measurements in an Engineering-scale High-pressure Coal Gasifier," <i>App. Phys. B</i> 117 (1) 411-421 (2014) DOI 10.1007/s00340-014-5850-x
1067	R.M. Spearrin, W. Ren, J.B. Jeffries and R.K. Hanson, "Multi-band Infrared CO ₂ Absorption Sensor for Sensitive Temperature and Species Measurements in High-temperature Gases," <i>App. Phys. B</i> 116 855-865 (2014) DOI 10.1007/s00340-014-5772-7
1066	C.S. Goldenstein, R.M. Spearrin, I.A. Schultz, J.B. Jeffries and R.K. Hanson, "Wavelength Modulation Spectroscopy near 1.4 μm for Measurements of H ₂ O and Temperature in High-pressure and –temperature Gases," <i>Meas. Sci. and Tech.</i> 25 1-9 (2014) DOI 10.1088/0957-0233/25/5/055101
1065	C.S. Goldenstein, C.L. Strand, I.A. Schultz, K. Sun, J.B. Jeffries and R.K. Hanson, "Fitting of Calibration-free Scanned-wavelength-modulation Spectroscopy Spectra for Determination of Gas Properties and Absorption Lineshapes," <i>Applied Optics</i> 53 356-367 (2014) DOI 10.1364/AO.53.000356
1064	I. Stranic and R.K. Hanson, "Laser Absorption Diagnostic for Measuring Acetylene Concentrations in Shock Tubes," <i>JQSRT</i> 142 58-65 (2014) DOI 10.1016/j.jqsrt.2014.03.024
1063	V.A. Miller, V.A. Troutman, R.K. Hanson and M.G. Mungal, "20 kHz Toluene PLIF Imaging of a Jet in Nearly Sonic Crossflow," <i>App. Phys. B</i> 117 401-410 (2014) DOI 10.1007/s00340-014-5849-3
1062	A. Farooq, D.F. Davidson, R.K. Hanson and C.K. Westbrook, "A Comparative Study of the Chemical Kinetics of Methyl and Ethyl Propanoate," <i>Fuel</i> 134 26-38 (2014) DOI 10.1016/j.fuel.2014.05.035
1061	R.M. Spearrin, C.S. Goldenstein, J.B. Jeffries and R.K. Hanson, "Quantum Cascade Laser Absorption Sensor for Carbon Monoxide in High-pressure-gases using Wavelength-modulation Spectroscopy," <i>Applied Optics</i> 53 1938-1946 (2014) DOI 10.1364/AO.53.001938
1060	S. Li, D.F. Davidson and R.K. Hanson, "Shock Tube Study of Ethylamine Pyrolysis and Oxidation," <i>Comb and Flame</i> 161 2512-2518 (2014) DOI 10.1016/j.combustflame.2014.04.002

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1059	P.P. Lappas, A.D. McCartt, S.D. Gates, J.B. Jeffries and R.K. Hanson, "Laser Measurements of Bacterial Endospore Destruction from Shock Waves," SPIE Conf., Melbourne, Australia, 11/2013, <i>Proc. SPIE.</i> 8923 DOI 10.1117/12.2033936
1058	V.A. Miller, V.A. Troutman and R.K. Hanson, "Demonstration of 15 kHz Planar Laser-induced Fluorescence Imaging and 940 Hz Volumetric Reconstruction of a Co-flow Jet using Acetone, 3-Pentanone, Toluene and Anisole," <i>Retitled See 1069.</i>
1057	R.M. Spearrin, J.B. Jeffries and R.K. Hanson, "Mid-infrared Absorption Sensor for Measurements of CO and CO ₂ in Propulsion Flows," AIAA S&T Forum 2014, National Harbor, MD, Jan. 2014 DOI 10.2514/6.2014-0390
1056	W. Ren, R.M. Spearrin, D.F. Davidson and R.K. Hanson, "Experimental and Modeling Study of the Thermal Decomposition of C ₃ -C ₅ Ethyl Esters behind Reflected Shock Waves," <i>J. Phys. Chem. A</i> 118 1785-1798 (2014) DOI 10.1021/jp411766b
1055	R.M. Spearrin, S. Li, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "High-temperature Iso-butene Diagnostic for Shock Tube Kinetics using a Pulsed Quantum Cascade Laser near 11.3 μm," <i>Proc. Comb. Inst.</i> 35 3645-3651 (2015) DOI 10.1016/j.proci.2014.04.002
1054	M.F. Campbell, S. Wang, C.S. Goldenstein, R.M. Spearrin, A.M. Tulgestke, L.T. Zaczek, D.F. Davidson and R.K. Hanson, "Constrained Reaction Volume Shock Tube Study of n-Heptane Oxidation: Ignition Delay Times, Multi-species Time-histories and Temperature Profiles," <i>Proc. Comb. Inst.</i> 35 231-239 (2015) DOI 10.1016/j.proci.2014.05.001
1053	C.S. Goldenstein, R.M. Spearrin, J.B. Jeffries and R.K. Hanson, "Infrared Laser Absorption Sensors for Multiple Performance Parameters in a Detonation Combustor," <i>Proc. Comb. Inst.</i> 35 3739-3747 (2015) DOI 10.1016/j.proci.2014.05.027
1052	L.T. Zaczek, K.Y. Lam, D.F. Davidson and R.K. Hanson, "A Shock Tube Study of CH ₃ OH + OH → Products using OH Laser Absorption," <i>Proc. Comb. Inst.</i> 35 377-384 (2015) DOI 10.1016/j.proci.2014.05.051
1051	Y. Zhu, S. Li, D.F. Davidson and R.K. Hanson, "Ignition Delay Times of Conventional and Alternative Fuels behind Reflected Shock Waves," <i>Proc. Comb. Inst.</i> 35 241-248 (2015) DOI 10.1016/j.proci.2014.05.034
1050	S. Wang, D.F. Davidson and R.K. Hanson, "High Temperature Measurements for the Rate Constants of C ₁ -C ₄ Aldehydes with OH in a Shock Tube," <i>Proc. Comb. Inst.</i> 35 473-480 (2015) DOI 10.1016/j.proci.2014.06.112
1049	C.S. Goldenstein, I.A. Schultz, J.B. Jeffries and R.K. Hanson, "Two-color Absorption Spectroscopy Strategy for Measuring the Column Density and Path Average Temperature of the Absorbing Species in Nonuniform Gases," <i>Applied Optics</i> 52 7950-7962 (2013) DOI 10.1364/AO.52.007950
1048	S. Li, D.F. Davidson and R.K. Hanson, "Shock Tube Study Dimethylamine Oxidation," <i>IJCK</i> 47 (1) 19-26 (2014) DOI 10.1002/kin.20888
1047	S. Li, D.F. Davidson and R.K. Hanson, "High-Temperature Measurements of the Reactions of OH with Ethylamine and Dimethylamine," <i>J. Phys. Chem. A</i> 118 70-77 (2014) DOI 10.1021/jp411141w
1046	I.L.R. Bec, Y. Zhu, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Ignition Delay Times for the Butanol Isomers with Application of the Constrained Reaction Volume Strategy," <i>IJCK</i> 46 433-442 (2014) DOI 10.1002/kin.20859
1045	R.K. Hanson and D.F. Davidson, "Recent Advances in Laser Absorption and Shock Tube Methods for Studies of Combustion Chemistry," <i>Prog. in Energy and Comb. Sci.</i> 44 103-114 (2014) DOI 10.1016/j.pecs.2014.05.001
1044	I. Stranic, G.A. Pang, R.K. Hanson and D.M. Golden, "Shock Tube Measurements of the Rate Constants for the Reaction Ethanol + OH," <i>J. Phys. Chem. A</i> 118 822-828 (2014) DOI 10.1021/jp410853f
1043	I.A. Schultz, C.S. Goldenstein, R.M. Spearrin, J.B. Jeffries and R.K. Hanson, "Multispecies Mid-infrared Absorption Measurements in a Hydrocarbon-fueled Scramjet Combustor," <i>J. Propul. Power</i> 30 1595-1604 (2014) DOI 10.2514/1.B35261
1042	J.B. Jeffries, R. Sur, K. Sun and R.K. Hanson, "Laser-absorption Sensing of Gas Composition of Products of Coal Gasification," SPIE DDS Micro-Nanotechnology Sensors Conf. VI, May 2014, invited paper 28, <i>Proc. SPIE</i> 9083 DOI 10.1117/12.2049788

Publication list of Ron Hanson

1041	E. Dames, K.Y. Lam, D.F. Davidson and R.K. Hanson, "An Improved Kinetic Mechanism for 3-Pentanone Pyrolysis and Oxidation using Multispecies Time Histories in Shock Tubes" <i>Comb. and Flame</i> 161 1135-1145 (2014) DOI 10.1016/j.combustflame.2013.11.010
1040	C.S. Goldenstein, I.A. Schultz, R.M. Spearrin, J.B. Jeffries and R.K. Hanson, "Scanned-wavelength-modulation Spectroscopy near 2.5 μm for H_2O and Temperature in a Hydrocarbon-fueled Scramjet Combustor," <i>App. Phys. B</i> 116 717-727 (2014) DOI 10.1007/s00340-013-5755-0
1039	C.S. Goldenstein, R.M. Spearrin, J.B. Jeffries and R.K. Hanson, "Wavelength Modulation Spectroscopy near 2.5 μm for H_2O and Temperature in High-pressure and -Temperature Gases," <i>App. Phys. B</i> 116 705-716 (2014) DOI 10.1007/s00340-013-5754-1
1038	S. Li, A. Campos, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Branched Alkane Ignition Delay Times," <i>Fuel</i> 118 398-405 (2014) DOI 10.1016/j.fuel.2013.11.028
1037	K. Sun, X. Chao, R. Sur, C.S. Goldenstein, J.B. Jeffries and R.K. Hanson, "Analysis of Calibration-free Wavelength Scanned Modulation Spectroscopy for Practical Gas Sensing using Tunable Diode Lasers," <i>Meas. Sci. and Tech.</i> 24 (2013) DOI 10.1088/0957-0233/24/12/125203
1036	R. Sur, K. Sun, J.B. Jeffries, R.K. Hanson, R.J. Pummill, T. Waind, D.W. Wagner and K. Whitty, "TDLAS-based Sensors for <i>in situ</i> Measurement of Syngas Composition in a Pressurized, Oxygen-blown, Entrained Flow coal Gasifier," <i>App. Phys. B</i> 116 33-42 (2014) DOI 10.1007/s00340-013-5644-6
1035	Y. Zhu, D.F. Davidson and R.K. Hanson, "Pyrolysis and Oxidation of Decalin at Elevated Pressures: A Shock Tube Study," <i>Comb. and Flame</i> 161 371-383 (2014) DOI 10.1016/j.combustflame.2013.09.005
1034	I.A. Schultz, C.S. Goldenstein, C.L. Strand, J.B. Jeffries, R.K. Hanson and C.P. Goyne, "Hypersonic Scramjet Testing via Diode Laser Absorption in a Reflected Shock Tunnel" <i>J. Propul. Power</i> 30 1586-1594 (2014) DOI 10.2514/1.B35220 ; also 52nd AIAA Aerospace Sciences Meeting, AIAA-2014-0389 DOI 10.2514/6.2014-0389
1033	I.A. Schultz, C.S. Goldenstein, J.B. Jeffries, R.K. Hanson, R.D. Rockwell and C.P. Goyne, "Spatially-resolved TDLAS measurements of temperature, H_2O column density, and velocity in a direct-connect scramjet combustor," AIAA-2014-1241 at AIAA SciTech 2014, National Harbor, MD, Jan. 2014 DOI 10.2514/6.2014-1241 ; also <i>J. Propul. Power</i> 30 (6) 1551-1558 (2014) DOI 10.2514/1.B35219
1032	S. Li, D.F. Davidson and R.K. Hanson, "Shock Tube Study of the Pressure Dependence of Monomethyl Hydrazine Pyrolysis," <i>Comb. and Flame</i> 161 16-22 (2014) DOI 10.1016/j.combustflame.2013.07.023
1031	V.A. Miller, M. Gamba, M.G. Mungal and R.K. Hanson, "Secondary Diaphragm Thickness Effects and Improved Pressure Measurements in an Expansion Tube," <i>AIAA Journal</i> 52 (2) 451-456 (2014) DOI 10.2514/1.J052767
1030	Y. Zhu, D.F. Davidson and R.K. Hanson, "1-Butanol Ignition Delay Times at Low Temperatures: An Application of the Constrained-reaction-volume Strategy," <i>Comb. and Flame</i> 161 634-343 (2014) DOI 10.1016/j.combustflame.2013.06.028
1029	J. Urzay, N. Kseib, D.F. Davidson, G. Iaccarino and R.K. Hanson, "Uncertainty-quantification Analysis of the Effects of Residual Impurities on Hydrogen-Oxygen Ignition in Shock Tubes," <i>Comb. and Flame</i> 161 1-15 (2014) DOI 10.1016/j.combustflame.2013.08.012
1028	C.S. Goldenstein, J.B. Jeffries and R.K. Hanson, "Diode-laser Measurements of Linestrength and Temperature-dependent Lineshape Parameters of H_2O , CO_2 , and N_2 -perturbed H_2O Transitions near 2474 and 2482nm," <i>JQSRT</i> 130 100-111 (2013) DOI 10.1016/j.jqsrt.2013.06.008
1027	S. Li, D.F. Davidson, R.K. Hanson, N.J. Lebbe, P.R. Westmoreland, P. Oßwald and K. Kohse-Höinghaus, "Shock Tube Measurements and Model Development for Morpholine Pyrolysis and Oxidation at High Pressures," <i>Comb. and Flame</i> 160 1559-1571 (2013) DOI 10.1016/j.combustflame.2013.03.027
1026	S. Li, D.F. Davidson, R.K. Hanson, K. Moshhammer and K. Kohse-Höinghaus, " Shock Tube Study of Ethylamine Pyrolysis and Oxidation ," 8th U.S. National Comb. Meeting, Park City, UT 5/2013, paper 070RK-0075.
1025	S. Wang, D.F. Davidson and R.K. Hanson, "High-temperature Laser Absorption Diagnostics for CH_2O and CH_3CHO and their Application to Shock Tube Kinetic Studies," <i>Comb. and Flame</i> 160 1930-1938 (2013) DOI 10.1016/j.combustflame.2013.05.004

Publication list of Ron Hanson

1024	I. Stranic, G.A. Pang, R.K. Hanson, D.M. Golden and C.T. Bowman, "Shock Tube Measurements of the Terbutanol and OH Reaction Ratio and the <i>tert</i> -C ₄ H ₈ OH Radical β -scission Branching Ratio using Isotropic Labelling," <i>J. Phys. Chem. A</i> 117 4777-4784 (2013) DOI 10.1021/jp402176e
1023	W. Ren, E. Dames, D. Hyland, D.F. Davidson and R.K. Hanson, "Shock Tube Study of Methanol and Methyl Formate Pyrolysis: CH ₃ OH and CO Time-history Measurements," <i>Comb. and Flame</i> 160 2669-2679 (2013) DOI 10.1016/j.combustflame.2013.06.016
1022	R. Sur, K. Sun, J.B. Jeffries, R.K. Hanson, R.S. Pummill and K. Whitty, " TDLAS-based <i>in situ</i> Monitoring of Syngas Composition from a Pressurized, Oxygen-Blown, Entrained-flow Coal Gasifier ," 8th U.S. National Comb. Meeting, Park City, UT, May 2013.
1021	K. Sun, R. Sur, J.B. Jeffries, R.K. Hanson, T. Clark, J. Anthony, S. Machovec and J. Northington, " In situ Measurements of Syngas Temperature, Water Vapor and Carbon Dioxide in an Engineering Scale Liquefied Coal Gasifier ," 8th U.S. National Comb. Meeting, Park City, UT, May 2013.
1020	W. Ren, R.M. Spearrin, D.F. Davidson and R.K. Hanson, " Thermal Decomposition of C₃-C₅ Ethyl Esters: CO CO₂ and H₂O Time-history Measurements behind Reflected Shock Waves ," 8th U.S. National Comb. Meeting, Park City, UT, May 2013.
1019	R.K. Hanson, G.A. Pang, S. Chakraborty, W. Ren, S. Wang and D.F. Davidson, "Constrained Reaction Volume Approach for Studying Chemical Kinetics behind Reflected Shock Waves," <i>Comb. and Flame</i> 160 1550-1558 (2013) DOI 10.1016/j.combustflame.2013.03.026
1018	R. Sur, K. Sun, J.B. Jeffries and R.K. Hanson, "Multi-species Laser Absorption Sensors for <i>in situ</i> Monitoring of Syngas Composition," <i>App. Phys. B</i> 115 9-24 (2014) DOI 10.1007/s00340-013-5567-2
1017	I. Stranic, G.A. Pang, D.F. Davidson, R.K. Hanson, D.M. Golden and C.T. Bowman, " Shock Tube Measurements of the <i>tert</i>-butanol + OH Reaction Ratio and the <i>tert</i>-C₄H₈OH Radical β-scission Branching Ratio using Isotropic Labeling ," 8th U.S. Comb. Meeting, Park City, UT, paper 070RK-0014, 5/2013.
1016	M.A. Campbell, D.F. Davidson and R.K. Hanson, " Ignition Delay Times of Very-low-vapor-pressure Biodiesel Surrogate behind Reflected Shock Waves ," 8th U.S. Comb. Meeting, Park City, UT, paper 070RK-0008, 5/2013.
1015	E. Dames, K.Y. Lam, D.F. Davidson and R.K. Hanson, " Combustion Kinetic Mechanism Development using Multispecies Time Histories in Shock Tube Pyrolysis of 3-pentanone ," 8th U.S. Comb. Meeting, Park City, UT, 5/2013.
1014	C.S. Goldenstein, I.A. Schultz, R.M. Spearrin, J.B. Jeffries and R.K. Hanson, " Diode Laser Measurements of Temperature and H₂O for Monitoring Pulse Detonation Combustor Performance ," 24th ICDERS Conf., Taipei, 7/2013.
1013	R.M. Spearrin, C.S. Goldenstein, J.B. Jeffries and R.K. Hanson, "Fiber-coupled 2.7 μ m Laser Absorption Sensor for CO ₂ in Harsh Combustion Environments," <i>Meas. Sci. and Tech.</i> 24 (2013) DOI 10.1088/0957-0233/24/5/055107
1012	I.A. Schultz, C.S. Goldenstein, J.B. Jeffries, R.K. Hanson, R.D. Rockwell and C.P. Goyne, "Diode Laser Absorption Sensor for Combustion in Progress in a Model Scramjet," <i>J. Propul. Power</i> 30 (3) 550-557 (2014) DOI 10.2514/1.B34905
1011	R.K. Hanson, S. Chakraborty, G.A. Pang, W. Ren, S. Wang and D.F. Davidson, " Constrained Reaction Volume: A Strategy for Reflected Shock Wave Experiments ," 24th ICDERS Conf., Taipei, 7/2013, paper 29.
1010	D.F. Davidson and R.K. Hanson, " Fundamental Kinetics Database Utilizing Shock Tube Measurements: Volume 3, Reaction Rate Measurements ," High Temperature Gasdynamics Laboratory, Mechanical Engineering Department, Stanford University
1009	E.A. Barbour and R.K. Hanson, "Analytic Model for Single-Cycle Detonation Tube with Diverging Nozzle," <i>J. Propul. Power</i> 25 162-172 (2009) DOI 10.2514/1.35420
1008	A. Farooq, J.B. Jeffries and R.K. Hanson, "High Pressure measurements of CO ₂ absorption near 2.7 μ m: Line mixing and finite duration collision effects," <i>JQSRT</i> 111 949-960 (2010) DOI 10.1016/j.jqsrt.2010.01.001
1007	G.A. Pang, R.K. Hanson and D.M. Golden, "High-Temperature Rate Constant Determination for the Reaction of OH with iso-Butanol," <i>J. Phys. Chem. A</i> 116 4720-4725 (2012) DOI 10.1021/jp302719j

Publication list of Ron Hanson

1006	R.D. Cook, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Species Time-histories in Monomethyl Hydrazine Oxidation," not submitted May 2012.
1005	S. Li, D.F. Davidson, R.K. Hanson, N. J. Labbe, P.R. Westmoreland, P. Oßwald and K. Kohse-Höinghaus, "Shock Tube Measurements and Model Development for Morpholine Pyrolysis and Oxidation at High Pressures," <i>Comb. and Flame</i> 106 1559-1571 (2013) DOI 10.1016/j.combustflame.2013.03.027
1004	P. Gokulakrishnan, C. Fuller, M. Klassen, D. Davidson, R.K. Hanson and B. Kiel, "Experimental and Modeling Studies of JP-8, F-T and HRK Ignition under Vitiated Conditions," AIAA 49th Joint Propulsion Conf., 15-17 July 2013, San Jose CA.
1003	M.N. Martin, L.S. Chang, J.B. Jeffries, R.K. Hanson, A. Nawaz, J.S. Taunk, D.M. Driver and G.A. Raiche, "Monitoring temperature in high enthalpy arc-heated plasma flows using tunable diode laser absorption spectroscopy," AIAA-2013-2761 at 44th AIAA Plasmadynamics and Lasers Conf. DOI 10.2514/6.2013-2761
1002	I. Stranic, S.H. Pyun, D.F. Davidson and R.K. Hanson, "Multi-species Measurements in 2-butanol and i-Butanol Pyrolysis behind reflected shock waves," <i>Comb. and Flame</i> 160 1012-1019 (2013) DOI 10.1016/j.combustflame.2013.01.015
1001	V.A. Miller, M. Gamba, M.G. Mungal and R.K. Hanson, "Single- and Dual-band Collection Toluene PLIF Thermometry," <i>Expts. Fluids</i> 54 1539-1552 (2013) DOI 10.1007/s00348-013-1539-x
1000	S.K. Wang, D.F. Davidson and R.K. Hanson, "Laser Absorption Diagnostics for Aldehydes in Shock Tube Kinetics Studies," ISSW 29, Madison, WI, 10/2012 DOI 10.1007/978-3-39-16835-7_22
999	R.M. Spearrin, C.S. Goldenstein, J.B. Jeffries and R.K. Hanson, "Mid-infrared Laser Absorption Diagnostics for Detonation Studies," ISSW 29, Madison, WI, 10/2012 DOI 10.1007/978-3-319-16835-7_39
998	R.K. Hanson, S. Chakraborty, W. Ren, S.K. Wang and D.F. Davidson, "Constrained Reaction Volume: A New Approach to Studying Reactive Systems in Shock Tubes," ISSW 29, Madison, WI, 10/2012 DOI 10.1007/978-3-319-16835-7_21
997	K.Y. Lam, D.F. Davidson and R.K. Hanson, "High-Temperature Measurements of the Reactions of OH with Small Methyl Esters: Methyl Formate, Methyl Acetate, Methyl Propanate and Methyl Butanoate," <i>J. Phys. Chem. A</i> 116 12229-12241 (2012) DOI 10.1021/jp310256j
996	K.Y. Lam, D.F. Davidson and R.K. Hanson, "A Shock Tube Study of $H_2 + OH \rightarrow H_2O + H$ using Laser Absorption," <i>IJCK</i> 45 363-373 (2013) DOI 10.1002/kin.20771
995	S.H. Pyun, W. Ren, K.Y. Lam, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Methane, Ethylene and Carbon Monoxide Time-histories in DME Pyrolysis," <i>Comb. and Flame</i> 160 747-754 (2013) DOI 10.1016/j.combustflame.2012.12.004
994	S.H. Pyun, W. Ren, D.F. Davidson and R.K. Hanson, "Methane and Ethylene Time-history Measurements in n-Butane and n-Heptane Pyrolysis behind Reflected Shock Waves," <i>Fuel</i> 108 557-564 (2013) DOI 10.1016/j.fuel.2012.12.034
993	J. Urzay, N. Kseib, D.F. Davidson, G. Iaccarino and R.K. Hanson, "Uncertainty-quantification Analysis of the Effects of Residual Impurities on Hydrogen-Oxygen Ignition in Shock Tubes," APS Fall Meeting, Nov. 2012; also <i>Comb. and Flame</i> 161 1-15 (2014) DOI 10.1016/j.combustflame.2013.08.012
992	G.A. Pang, C.T. Bowman, D.M. Golden and R.K. Hanson, "Experimental Determination of the High-temperature Rate Constant for the Reaction of OH with sec-Butanol," <i>J. Phys. Chem. A</i> 116 9607-9613 (2012) DOI 10.1021/jp306977e
991	X. Chao, J.B. Jeffries and R.K. Hanson, "Real-Time, <i>in situ</i> , Continuous Monitoring of CO in a Pulverized-Coal-fuel Power Plant with a 2.3 μ m Laser Absorption Sensor," <i>App. Phys. B</i> 110 359-365 (2013) DOI 10.1007/s00340-012-5262-8
990	W. Ren, A. Farooq, D.F. Davidson and R.K. Hanson, "CO Concentration and Temperature Sensor for Combustion Gases using Quantum-cascade Laser Absorption near 4.7 μ m," <i>App. Phys. B</i> 107 849-860 (2012) DOI 10.1007/s00340-012-5046-1
989	M.E. MacDonald, D.F. Davidson and R.K. Hanson, "Formulation of an RP-1 Pyrolysis Surrogate from Shock Tube Measurements of Fuel and Ethylene Time Histories," <i>Fuel</i> 103 1051-1059 (2013) DOI 10.1016/j.fuel.2012.10.008

Publication list of Ron Hanson

988	M.E. MacDonald, W. Ren, D.F. Davidson, R.K. Hanson, W. Pitz, M. Mehl and C.K. Westbrook, "Fuel and Ethylene Measurements during n-Dodecane, Methylcyclohexane and iso-Cetane Pyrolysis in Shock Tubes," <i>Fuel</i> 103 1060-1068 (2013) DOI 10.1016/j.fuel.2012.09.068
987	V.A. Miller, M. Gamba, M.G. Mungal and R.K. Hanson, " Two-camera Dual-band Collection Toluene PLIF Thermometry in Supersonic Flows ," 16th Int. Symp. on Applications of Laser Techniques to Fluid Mechanics, July 9-12, 2012.
986	M. Gamba, M.G. Mungal and R.K. Hanson, " OH PLIF of the Reaction Zone in Combusting Transverse Jets in Supersonic Crossflow ," 16th Int. Symp. on Applications of Laser Techniques to Fluid Mechanics, July 9-12, 2012.
985	K.Y. Lam, D.F. Davidson and R.K. Hanson, "High Temperature Measurements of the Reaction of OH with a Series of Ketones: Acetone, 2-Butanone, 3-Pentanone and 2-Pentanone," <i>J. Phys. Chem. A</i> 116 5549-5559 (2013) DOI 10.1021/jp303853h
984	K.Y. Lam, W. Ren, Z. Hong, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of 3-Pentanone Pyrolysis and Oxidation," <i>Comb. and Flame</i> 159 3251-3263 (2012) DOI 10.1016/j.combustflame.2012.06.012
983	I. Stranic, S.H. Pyun, D.F. Davidson and R.K. Hanson, "Multi-species Measurements in 1-butanol Pyrolysis behind Reflected Shock Waves," <i>Comb. and Flame</i> 159 3242-3250 (2012) DOI 10.1016/j.combustflame.2012.06.005
982	K. Sun, X. Chao, R. Sur, J.B. Jeffries and R.K. Hanson, "Wavelength Modulation Diode Laser Absorption Spectroscopy for High Pressure Gas Sensing," <i>App. Phys. B</i> 110 497-508 (2013) DOI 10.1007/s00340-012-5286-0
981	Z. Hong, D.F. Davidson, K.Y. Lam and R.K. Hanson, "A Shock Tube Study of the Rate Constants for the Reaction of HO ₂ and CH ₃ ," <i>Comb. and Flame</i> 159 3007-3013 (2012) DOI 10.1016/j.combustflame.2012.04.009
980	M.F. Campbell, D.F. Davidson, R.K. Hanson and C.K. Westbrook, "Ignition Delay Times of Methyl Oleate and Methyl Linoleate behind Reflected Shock Waves," <i>Proc. Comb. Inst.</i> 34 419-425 (2013) DOI 10.1016/j.proci.2012.05.084
979	M.E. Macdonald, W. Ren, D.F. Davidson and R.K. Hanson, "Fuel and Ethylene Measurements during n-Dodecane, Methylcyclohexane, and iso-Cetane Decomposition in Shock Tubes," 47th AIAA/ASME/SAE/ASEE Joint Propulsion Conf. & Exhibit, San Diego, July 2011 DOI 10.2514/6.2011-5854
978	Z. Hong, K.Y. Lam, R. Sur, S. Wang, D.F. Davidson and R.K. Hanson, "On the Rate Constants of OH + HO ₂ and HO ₂ + HO ₂ : A comprehensive Study of H ₂ O ₂ Thermal Decomposition using Multi-species Laser Absorption," <i>Proc. Comb. Inst.</i> 34 565-571 (2012) DOI 10.1016/j.proci.2012.06.108
977	W. Ren, K.Y. Lam, S.H. Pyun, A. Farooq, D.F. Davidson and R.K. Hanson, "Shock Tube/Laser Absorption Studies of the Decomposition of Methyl Formate," <i>Proc. Comb. Inst.</i> 34 453-461 (2013) DOI 10.1016/j.proci.2012.05.071
976	A. Farooq, W. Ren, K.Y. Lam, D.F. Davidson, R.K. Hanson and C.K. Westbrook, "Shock Tube Studies of Methyl Butanoate Pyrolysis with Relevance to Biodiesel," <i>Comb. and Flame</i> 159 3235-3241 (2012) DOI 10.1016/j.combustflame.2012.05.013
975	K.Y. Lam, W. Ren, S.H. Pyun, A. Farooq, D.F. Davidson and R.K. Hanson, "Multi-species Time-history Measurements during High-temperature Acetone and 2-Butanone Pyrolysis," <i>Proc. Comb. Inst.</i> 34 607-615 (2013) DOI 10.1016/j.proci.2012.06.009
974	K. Sun, R. Sur, X. Chao, J.B. Jeffries, R.K. Hanson, R.J. Pummill and K.J. Whitty, "TDL Absorption Sensors for Gas Temperature and Concentrations in a High-pressure Entrained-flow Coal Gasifier," <i>Proc. Comb. Inst.</i> 34 3593-3601 (2013) DOI 10.1016/j.proci.2012.05.018
973	M. Gamba, V.A. Miller, M.G. Mungal and R.K. Hanson, "Combustion characteristics of an inlet/supersonic combustor model," AIAA-2012-0612 at 50th AIAA Aerospace Sciences Meeting, Nashville, 1/2012 DOI 10.2514/6.2012-612
972	D.R. Haylett, D.F. Davidson, R.D. Cook, Z. Hong, W. Ren, S.H. Pyun and R.K. Hanson, "Multi-species Time-history Measurements during n-Hexadecane Oxidation behind Reflected Shock Waves," <i>Proc. Comb. Inst.</i> 34 369-376 (2012) DOI 10.1016/j.proci.2012.06.014
971	X. Chao, J.B. Jeffries and R.K. Hanson, "Laser Absorption Sensor for Real-time <i>in situ</i> Dual-species Monitoring (NO/NH ₃ , CO/O ₂) in Combustion Exhaust" <i>Proc. Comb. Inst.</i> 34 3583-3592 (2013) DOI 10.1016/j.proci.2012.05.024

Publication list of Ron Hanson

970	G.A. Pang, R.K. Hanson, D.M. Golden and C.T. Bowman, "Rate Constant Measurements of the Overall Reaction of OH + 1-Butanol → Products from 900 to 1200K," <i>J. Phys. Chem. A</i> 116 2475-2483 (2012) DOI 10.1021/jp211885p
969	I.A. Schultz, C.S. Goldenstein, J.B. Jeffries, R.K. Hanson, R.D. Rockwell, Jr. and C.P. Goynes, "Tunable Diode Laser Absorption Sensor for <i>in situ</i> Determination of Combustion Progress in Scramjet Ground Testing," AIAA-2012-2654 at 28th Aerodyn. Meas. Tech., Ground Testing, and Flight Testing Conf., June 2012 DOI 10.2514/6.2012-2654
968	V.A. Miller, M. Gamba, M.G. Mungal, R.K. Hanson, K. Mohri and C. Schulz, "Toluene Laser-induced Fluorescence Imaging of Compressible Flows in an Expansion Tube," DFD11 Meeting of APS, Nov. 2011.
967	M. Gamba, V.A. Miller, M.G. Mungal and R.K. Hanson, "Ignition and Flame Structure in a Compact Inlet/Scramjet Combustor," AIAA-2011-2366 at 17th AIAA Space Planes Conf., Apr. 2011, San Francisco (2011) DOI 10.2514/6.2011-2366
966	G.A. Pang, R.K. Hanson, D.M. Golden and C.T. Bowman, High-temperature Measurements of the Ratio Constants for Reactions of OH with a Series of Large Normal Alkanes: n-Pentane, n-Heptane and n-Nonane," <i>Zeitschrift für Physikalisch Chemie</i> 225 1157-1178 (2011) DOI 10.1524/zpch.2011.0156
965	X. Chao, J.B. Jeffries and R.K. Hanson, "Wavelength Modulation Spectroscopy for Real-time, <i>in situ</i> NO Detection in Combustion Gases with a 5.2 μm Quantum Cascade Laser," <i>App. Phys. B</i> 106 987-997 (2012) DOI 10.1007/s00340-011-4839-y
964	B.H. Cheung and R.K. Hanson, "3-Pentanone Fluorescence Yield Measurements and Modeling at Elevated Temperatures and Pressures," <i>App. Phys. B</i> 106 755-768 (2012) DOI 10.1007/s00340-012-4901-4
963	A.D. McCartt, S.D. Gates, J.B. Jeffries, R.K. Hanson, L.M. Joubert, T.L. Buhr, "Response of Bacillus thuringiensis Al Hakam endospores to gas dynamic heating in a shock tube," <i>Zeitschrift für Physikalisch Chemie</i> 225 1367-1377 (2011) DOI 10.1524/zpch.2011.0183
962	D.F. Davidson, S. Li, K.Y. Lam, I. Stranic and R.K. Hanson, "Shock Tube/Laser Absorption Measurements of JP-8 Ignition Delay Times and Multi-species Time-histories," JANNAF Meeting, Huntsville AB, Dec. 2011.
961	D.F. Davidson, R.K. Hanson and W. Ren, "Shock Tube/Laser Absorption Database for the Oxidation of Hi Fire JP-7 Surrogate Fuel," JANNAF Meeting, Huntsville AB, Dec. 2011.
960	D.F. Davidson, M.E. MacDonald and R.K. Hanson, "RP-Fuel and Surrogate Pyrolysis: Multi-species Time-history Measurements using Shock Tube/Laser Absorption," JANNAF Meeting, Huntsville AB, Dec. 2011.
959	C.S. Goldenstein, I.A. Schultz, J.B. Jeffries and R.K. Hanson, "TDL Absorption Sensor for Rapid Temperature and H ₂ O Measurement in High Pressure and Temperature Gases," AIAA-2012-1061 at 50th AIAA Aerospace Sciences Meeting, Nashville, 1/2012 DOI 10.2514/6.2012-1061
958	M. Gamba, M.G. Mungal and R.K. Hanson, "Ignition and Near-wall Burning in Transverse Hydrogen Jets in Supersonic Crossflow," AIAA-2011-319 at 49th AIAA Aerospace Sciences Meeting, Nashville, Jan. 2011 DOI 10.2514/6.2011-319
957	R.K. Hanson and J.B. Jeffries, "Combustion and Propulsion Sensors using Tunable Diode Laser Absorption," 50th AIAA Aerospace Sciences Meeting, Nashville, Jan. 2012.
956	B.H. Cheung and R.K. Hanson, "Determination of Fluorescence and Non-radiative De-excitation Rates of Excited 3-pentanone at Low Pressures," <i>App. Phys. B</i> 106 741-753 (2012) DOI 10.1007/s00340-011-4817-4
955	R.D. Cook, D.F. Davidson and R.K. Hanson, "Multi-species Measurements of n-Butanol Pyrolysis behind Reflected Shock Waves," <i>IJCK</i> 44 303-311 (2012) DOI 10.1002/kin.20713
954	A.D. McCartt, S.D. Gates, P.P. Lappas, J.B. Jeffries and R.K. Hanson, " <i>In situ</i> Optical Measurements of Bacterial Endospore Breakdown in a Shock Tube," <i>App. Phys. B</i> 106 769-774 (2012) DOI 10.1007/s00340-011-4844-1
953	Z. Hong, K.Y. Lam, D.F. Davidson and R.K. Hanson, "Broad-linewidth Laser Absorption Measurements of Oxygen between 211 and 235 nm at High Temperatures," <i>JQSRT</i> 112 2698-2703 (2011) DOI 10.1016/j.jqsrt.2011.08.003
952	D.F. Davidson, W. Ren, S.H. Pyun and R.K. Hanson, "Experimental Database for Development of a Hi Fire JP-7 Surrogate Fuel Mechanism," AIAA-2012-0620 at 50th AIAA Aerospace Sciences Meeting, Nashville, 1/2012 DOI 10.2514/6.2012-620

Publication list of Ron Hanson

951	I. Stranic, D. P. Chase, J.T. Harmon, S. Yang, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Ignition Delay Times for the Butanol Isomers," <i>Comb. and Flame</i> 159 516-527 (2012) DOI 10.1016/j.combustflame.2011.08.014
950	S.D. Gates, A.D. McCartt, J.B. Jeffries, R.K. Hanson, L.A. Hokama and K.E. Mortelmans, "Extension of Bacillus Endospore Gas Dynamic Heating Studies to Multiple Strains and Test Conditions," <i>J. Applied Microbiology</i> 109 1591-1598 (2010) DOI 10.1111/j.1365-2672.2010.04785.x
949	S. Li, W. Ren, D.F. Davidson and R.K. Hanson, "Boundary Layer Effects behind Incident and Reflected Shock Waves in a Shock Tube," 28th Int. Shock Waves Symp., Manchester, 7/2011; Shock Waves, editor, K. Kontis, Heidelberg, Springer 2012, ISBN: 978-3-642-25687-5 DOI 10.1007/978-3-642-25685-1_71
948	W. Ren, D.F. Davidson and R.K. Hanson, "IR Laser Absorption Diagnostic for C ₂ H ₄ in Shock Tube Kinetics Studies," <i>IJCK</i> 44 (2012) 423-432 DOI 10.1002/kin.20599
947	A. Farooq, J.B. Jeffries and R.K. Hanson, "High-pressure Measurements of CO ₂ Absorption near 2.7 μm: Line Mixing and Finite Duration Collision Effects," <i>JQSRT</i> 111 949-960 (2010) DOI 10.1016/j.jqsrt.2010.01.001
946	J. Yoo, J. Mitchell, D.F. Davidson and R.K. Hanson, "Near-wall Imaging using Toluene-based Planar Laser-induced Fluorescence in Shock Tube Flows," <i>Shock Waves</i> 21 523-532 (2011) DOI 10.1007/s00193-011-0338-7
945	K. Sun, R. Sur, X. Chao, J.B. Jeffries, R.K. Hanson, R.J. Pummill, D. A. Wagner, K.J. Whitty and R. C. Steele, "Temperature Measurements in an Entrained Flow, Slagging, Coal Gasifier using Laser Absorption of Water Vapor," 28th Int. Pittsburgh Coal Conf., Sept 2011, Pittsburgh, PA.
944	S. Li, A. Farooq and R.K. Hanson, "H ₂ O Temperature Sensor for Low-pressure Flames using Tunable Diode Laser Absorption near 2.9 μm," <i>Meas. Sci. and Tech.</i> 22 1-11 (2011) DOI 10.1088/0957-0233/22/12/125301
943	R.D. Rockwell, Jr., C.P. Goyne, W. Haw, J.C. McDaniel, C.S. Goldenstein, I.A. Schultz, J.B. Jeffries and R.K. Hanson, "Measurement of Water Vapor Levels for Investigation of Test Gas Vitiation Effects on Scramjet Performance," <i>J. Propul. Power</i> 27 1315-1317 (2011) DOI 10.2514/1.B34270
942	D.R. Haylett, D.F. Davidson and R.K. Hanson, "Ignition Delay Times of Low-vapor-pressure Fuels Measured using an Aerosol Shock Tube," <i>Comb. and Flame</i> 159 552-561 (2012) DOI 10.1016/j.combustflame.2011.08.021
941	K.Y. Lam, Z. Hong, S. W. Durrstein, D.F. Davidson, R.K. Hanson and C. Schulz, "Shock Tube Measurements of Ignition Delay Times and OH and H ₂ O Species Time-histories in 3-pentanone/O ₂ /Ar Mixtures" 7th Int. Conf. on Chemical Kinetics, MIT, July 2011.
940	R.D. Cook, R. Sur, I. Stranic D.F. Davidson, R.K. Hanson, M.R. Harper and W. H. Green, "Multi-species Measurements of n-Butanol Pyrolysis behind Reflected Shock Waves," 7th Int. Conf. on Chemical Kinetics, MIT, July 2011.
939	S.S. Vasu, D.F. Davidson, R.K. Hanson and D.M. Golden, " High-temperature Reactions of OH with Linear Alkenes up to C₄ ," 7th Int. Conf. on Chemical Kinetics, MIT, July 2011.
938	M.R. Harper, W.H. Green, K.M. Van Geem, B.W. Weber, C. Sung, I. Stranic, D.F. Davidson and R.K. Hanson, " Combustion of the Butanol Isomers: Reaction Pathways at Elevated Pressures from Low to High Temperatures ," 7th Int. Conf. on Chemical Kinetics, MIT, July 2011.
937	I. Stranic, D.P. Chase, J.T. Harmon, S. Yang, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Ignition Delay Times for the Butanol Isomers," 7th U.S. National Comb. Meeting, Atlanta, Mar. 2011.
936	S.S. Vasu, D.F. Davidson and R.K. Hanson, "A Shock Tube Study of Syngas Ignition in Rich CO ₂ Mixtures and Determination of the Ratio of the Rate of H + O ₂ + CO ₂ → HO ₂ + CO ₂ ," <i>Energy and Fuels</i> 25 990-997 (2011) DOI 10.1021/ef1015928
935	S.S. Vasu, L.K. Huynh, D.F. Davidson, R.K. Hanson and D.M. Golden, "Reactions of OH with Butene Isomers: Measurements of the Overall Rates and a Theoretical Study," <i>J. Phys. Chem A.</i> 115 2549-2556 (2011) DOI 10.1021/jp112294h
934	M.G. Smayda, P.D. Vogel, I.A. Schultz, R.K. Hanson, R. Foelsche, C.Y. Tsai, D. Cresci and C.P. Goyne, "Hypervelocity Testing of a Dual-mode Scramjet," AIAA-2012-0481 at 50th AIAA Aerospace Sciences Meeting, Nashville, TN, Jan. 9-12, 2012 DOI 10.2514/6.2012-481

Publication list of Ron Hanson

933	R.D. Cook, D.F. Davidson, S.H. Pyun and R.K. Hanson, " MMH Pyrolysis and Oxidation: Species Time-history Measurements behind Reflected Shock Waves ," 23rd ICDERS, Irvine, July 2011.
932	I. Stranic, D. P. Chase, J.T. Harmon, S. Yang, D.F. Davidson and R.K. Hanson, " Shock Tube Measurements of Ignition Delay Times for the Butanol Isomers ," 23rd ICDERS, Irvine, July 2011.
931	M.E. MacDonald, D.F. Davidson and R.K. Hanson, "Decomposition Measurements of RP-1, RP-2, JP-7, n-Dodecane and Tetrahydroquinoline in Shock Tubes," <i>J. Propul. Power</i> 27 981-989 (2011) DOI 10.2514/1.B34204
930	C.L. Strand and R.K. Hanson, "Thermometry and Velocimetry in Supersonic Flows via Scanned Wavelength-modulation Absorption Spectroscopy," 47th AIAA/ASME/SAE/ASEE Joint Propulsion Conf. & Exhibit, San Diego, July 2011 DOI 10.2514/6.2011-5600
929	W. Ren, S. Li, D.F. Davidson and R.K. Hanson, " Temperature Time-history Measurements in a Shock Tube using Diode Laser Absorption of CO₂ near 2.7 μm ," 23rd ICDERS, Irvine, July 2011.
928	W. Ren, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Ethylene Concentration Time-histories during Ethylene, n-Heptane and Methylcyclohexane Pyrolysis," 7th U.S. National Comb. Meeting, Atlanta, Mar. 2011.
927	M.E. MacDonald, D.F. Davidson, G.L. Pilla and R.K. Hanson, "Decomposition Studies of RP-1 and n-Dodecane in Shock Tubes: Fuel and Ethylene Time Histories," 47th AIAA/ASME/SAE/ASEE Joint Propulsion Conf. & Exhibit, San Diego, July 2011 DOI 10.2514/6.2011-5854
926	I.A. Schultz, C.S. Goldenstein, J.B. Jeffries and R.K. Hanson, "Tunable Diode Laser Absorption Diagnostic for Scramjet Combustion Flows," 7th U.S. National Comb. Meeting, Atlanta, Mar. 2011.
925	Z. Hong, K.Y. Lam, D.F. Davidson and R.K. Hanson, "A Comparative Study of the Oxidation Characteristics of Cyclohexane, Methylcyclohexane and n-Butylcyclohexane at High Temperatures," <i>Comb. and Flame</i> 158 1456-1468 (2011) DOI 10.1016/j.combustflame.2010.12.019
924	R.D. Cook, R. Sur, I Stranic, D.F. Davidson and R.K. Hanson, "Multi-species Measurements of n-Butanol Pyrolysis behind Reflected Shock Waves," paper 2462 at 28th Int. Shock Waves Symp., Manchester, 7/2011; Shock Waves, editor, K. Kontis, Heidelberg, Springer 2012, ISBN: 978-3-642-25687-5 DOI 10.1007/978-3-642-25688-2_69
923	M. Campbell, D.F. Davidson and R.K. Hanson, "A Second-generation Aerosol Shock Tube and its Use in Studying Ignition Delay Times of Large Methyl Esters," 28th Int. Shock Waves Symp., Manchester, 7/2011; Shock Waves, editor, K. Kontis, Heidelberg, Springer 2012, ISBN: 978-3-642-25687-5 DOI 10.1007/978-3-642-25688-2_79
922	S.H. Pyun, J. Cho, D.F. Davidson and R.K. Hanson, "Interference-free Mid-IR Laser Absorption Detection of Methane," <i>Meas. Sci. and Tech.</i> 22 (2011) DOI 10.1088/0957-0233/22/2/025303
921	M. Gamba, V.A. Miller, M.G. Mungal and R.K. Hanson, "Ignition and Flame Structure in a Compact Inlet/Scramjet Combustor Model," at 17th Int. Space Planes and Hypersonic Systems Technologies Conf., San Francisco, CA, Apr. 11-14, 2011 DOI 10.2514/6.2011-2366
920	V.A. Miller, M. Gamba, M.G. Mungal and R.K. Hanson, "Development of a Model Scramjet Combustor," AIAA-2011-320 at 49th AIAA Aerospace Sciences Meeting, Orlando, Jan. 4-7, 2011 DOI 10.2514/6.2011-320
919	M. Gamba, M.G. Mungal and R.K. Hanson, "Ignition and Near-wall Burning in Transverse Hydrogen Jets in Supersonic Crossflow," AIAA-2011-0319 at 49th AIAA Aerospace Sciences Meeting, Orlando, Jan. 4-7, 2011. (Best paper award for 2011 from Propellants and Combustion TC) DOI 10.2514/6.2011-319
918	K.R. Sholes, K. Shouji, T. Chaya, J.B. Jeffries, J.M. Porter, S.H. Pyun and R.K. Hanson, "Crank-angle-resolved Measurements of Air-Fuel Ratio, Temperature and Liquid Fuel Droplet Scattering in a Direct-injection Gasoline Engine," paper 2010-01-2246 at SAE Powertrains, Fuels and Lubricants 2010, San Diego, CA, Oct. 2010 DOI 10.4271/2010-01-2246
917	M. Gamba, M.G. Mungal and R.K. Hanson, " Ignition, Flame Structure and Near-wall Burning in Transverse Hydrogen Jets in Supersonic Crossflow ," submission DFD10-2010-002167 to APS Fluid Dynamics Meeting, Nov. 2010.
916	S.S. Vasu, Z. Hong, D.F. Davidson, R.K. Hanson and D.M. Golden, "Measurements of the Reaction of OH with n-Butanol at High Temperatures," <i>Chem. Phys. Lett.</i> 497 26-29 (2010) DOI 10.1016/j.cplett.2010.08.001

Publication list of Ron Hanson

915	R.D. Cook, S.H. Pyun, J. Cho, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Species Time-histories in Monomethyl Hydrazine Pyrolysis," <i>Comb. and Flame</i> 158 790-795 (2011) DOI 10.1016/j.combustflame.2011.01.001 .
914	S.S. Vasu, Z. Hong, D.F. Davidson, R.K. Hanson and D.M. Golden, "Shock Tube/Laser Absorption Measurements of the Reaction Rates of OH with Ethylene and Propene," <i>J. Phys. Chem. A</i> 114 11529-11537 (2010) DOI 10.1021/jp106049s
913	Z. Hong, D.F. Davidson and R.K. Hanson, "An Improved H ₂ /O ₂ Mechanism based on Recent Shock Tube/Laser Absorption Measurements," <i>Comb. and Flame</i> 158 633-644 (2011) DOI 10.1016/j.combustflame.2010.10.002
912	D.A. Rothamer and R.K. Hanson, "Temperature and Pressure Imaging using IP Planar Laser-induced Fluorescence," <i>Applied Optics</i> 49 6436-6447 (2010) DOI 10.1364/AO.49.006436
911	W. Ren, J.B. Jeffries and R.K. Hanson, "Temperature Sensing in Shock-heated Evaporating Aerosol using Wavelength-modulation Absorption Spectroscopy near 2.7 μm," <i>Meas. Sci. and Tech.</i> 21 (2010) DOI 10.1088/0957-0233/21/10/105603
910	J.A. Snyder, R.K. Hanson, N. Dronniou and J.E. Dec, "PLIF Measurements of Thermal Stratification in a HCCI Engine under Fired Operation," paper 11PFL-0797 at SAE World Congress, 2010 DOI 10.4271/2011-01-1291
909	S.S. Vasu, J. Zador, D.F. Davidson, R.K. Hanson, D.M. Golden and J.A. Miller, "High-temperature Measurement and a Theoretical Study of the Reaction of OH with 1-3 Butadiene," <i>J. Phys. Chem. A</i> 114 8312-8318 (2010) DOI 10.1021/jp104880u
908	J.B. Jeffries, J.M. Porter, S.H. Pyun, R.K. Hanson, K.R. Sholes, K. Shoji and T. Chaya, "An In-cylinder Laser Absorption Sensor for Crank-angle-resolved Measurements of Gasoline, Concentration and Temperature," paper 2010-01-2251 at SAE Powertrains, Fuels and Lubricants 2010, San Diego, CA, Oct. 2010; also published in <i>SAE Int. J. Engines</i> 3 373-382 (2010) DOI 10.4271/2010-01-2251
907	C.S. Goldenstein, I.A. Schultz, J.B. Jeffries and R.K. Hanson, "Tunable Diode Laser Absorption Sensor of Temperature and Water Concentration in Supersonic Flows," AIAA-2011-1094 at 49th Aerospace Sciences Mtg., Orlando, FL, 6/2010 DOI 10.2514/6.2011-1094
906	L.S. Chang, C.L. Strand, J.B. Jeffries, R.K. Hanson, G.S. Dishkin, R. Gaffney and D. Capriotti, "Supersonic Mass Flux Measurements via Tunable Diode Laser Absorption and Non-uniform Flow Modeling," 49th Aerospace Sciences Mtg., Orlando, FL, Jan. 2011 DOI 10.2514/6.2011-1093 ; also <i>AIAA J.</i> 49 2783-2791 (2011) DOI 10.2514/1.J051118
905	D.F. Davidson, M.E. MacDonald, G.L. Pilla and R.K. Hanson, "Shock Tube Laser Absorption Studies of the Decomposition of Fuel Surrogates," paper 1334 at JANNAF Joint Propulsion Meeting, May 2010.
904	L.S. Chang, J.B. Jeffries and R.K. Hanson, "Mass Flux Sensing via Tunable Laser Absorption of Water Vapor" <i>AIAA J.</i> 48 (2010) 2687-2693 DOI 10.2514/1.J050544
903	S.D. Gates, A.D. McCartt, P.P. Lappas, J.B. Jeffries, R.K. Hanson, L.A. Hokama and K.E. Mortelmans, "Bacillus Endospore Resistance to Gasdynamic Heating," <i>J. Applied Microbiology</i> 109 (2010) 1591-1598 DOI 10.1111/j.1365-2672.2010.04785.x
902	Z. Hong, S.S. Vasu, D.F. Davidson and R.K. Hanson, "Experimental Study of the Ratio of OH + HO ₂ → H ₂ O + O ₂ at High Temperatures using the Reverse Reaction," <i>J. Phys. Chem. A</i> 114 (2010) 5520-5525 DOI 10.1021/jp100739t
901	J. Yoo, D. Mitchell, D.F. Davidson and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging in Shock Tube Flows," <i>Expts. Fluids</i> 49 (2010) 751-759 DOI 10.1007/s00348-010-0876-2
900	X. Chao, J.B. Jeffries and R.K. Hanson, "In situ Absorption Sensor for NO in Combustion Gases with a 5.2 μm Quantum Cascade Laser," <i>Proc. Comb. Inst.</i> 33 725-733 (2011) DOI 10.1016/j.proci.2010.05.014
899	Z. Hong, R.D. Cook, D.F. Davidson and R.K. Hanson, "A Shock Tube Study of OH + H ₂ O ₂ → H ₂ O + HO ₂ and H ₂ O ₂ + M → 2OH + M using Laser Absorption of H ₂ O and OH," <i>J. Phys. Chem. A</i> 114 (2010) 5718-5727 DOI 10.1021/jp100204z
898	D.R. Haylett, R.D. Cook, D.F. Davidson and R.K. Hanson, "OH and C ₂ H ₄ Species Time-histories during Hexadecane and Diesel Ignition behind Reflected Shock Waves," <i>Proc. Comb. Inst.</i> 33 (2011) 167-173 DOI 10.1016/j.proci.2010.05.053

Publication list of Ron Hanson

897	Z. Hong, D.F. Davidson, E.A. Barbour and R.K. Hanson, "A New Shock Tube Study of the $H + O_2 \rightarrow OH + O$ Reaction Rate using Tunable Diode Laser Absorption near 2.5 μm ," <i>Proc. Comb. Inst.</i> 33 (2011) 309-316 DOI 10.1016/j.proci.2010.05.101
896	K.Y. Lam, Z. Hong, D.F. Davidson and R.K. Hanson, "Shock Tube Ignition Delay Time Measurements in Propane/ O_2 /Argon Mixtures at Near-constant Volume Conditions," <i>Proc. Comb. Inst.</i> 33 (2011) 251-258 DOI 10.1016/j.proci.2010.06.131
895	D.F. Davidson, Z. Hong, G.L. Pilla, A. Farooq, R.D. Cook and R.K. Hanson, "Multi-species Time History Measurements during N-Dodecane Oxidation behind Reflected Shock Waves," <i>Proc. Comb. Inst.</i> 33 (2011) 151-157 DOI 10.1016/j.proci.2010.05.104
894	G.L. Pilla, D.F. Davidson and R.K. Hanson, "Shock tube/laser absorption measurements of ethylene time-histories during ethylene and n-heptane pyrolysis," <i>Proc. Comb. Inst.</i> 33 (2011) 333-340 DOI 10.1016/j.proci.2010.06.146
893	D.F. Davidson, Z. Hong, G.L. Pilla, A. Farooq, R.D. Cook and R.K. Hanson, "Multi-species Time History Measurements During N-Heptane Oxidation behind Reflected Shock Waves," <i>Comb. and Flame</i> 157 (2010) 1899-1905 DOI 10.1016/j.combustflame.2010.01.004
892	W.N. Heltsley, M. Gamba, M.G. Mungal and R.K. Hanson, "Near-wall Combustion Zones of a Transverse Jet in Supersonic Crossflow," poster at 2009 DFD meeting of APS, Nov. 2009.
891	D.R. Haylett, D.F. Davidson and R.K. Hanson, "A Second-generation Aerosol Shock Tube," <i>Shock Waves</i> 22 483-493 (2012) DOI 10.1007/s00193-012-0383-x
890	R.P. Fitzgerald, R.S. Steeper, J.A. Snyder, R.K. Hanson and R.P. Hessel, " Determination of Cycle Temperatures and Residual Gas Fraction for HCCI Negative Valve Overlap Operation ," paper 10PFL-0731 at 2010 SAE World Congress, Detroit, 2010.
889	A. Farooq, J.B. Jeffries and R.K. Hanson, "Measurements of CO_2 Concentration and Temperature at High Pressures using If-normalized WMS-2f Spectroscopy near 2.7 μm ," <i>Applied Optics</i> 48 (2009) 6740-6753 DOI 10.1364/AO.48.006740
888	J.M. Porter, J.B. Jeffries and R.K. Hanson, "Mid-infrared Laser-absorption Diagnostic for Vapor-Phase Fuel Mole Fraction and Liquid Film Thickness," <i>App. Phys. B</i> 102 (2011) 345-355 DOI 10.1007/s00340-010-3942-9
887	R.K. Hanson, "Applications of Quantitative Laser Sensors to Kinetics, Propulsion and Practical Energy Systems," <i>Proc. Comb. Inst.</i> 33 (2011) 1-40 DOI 10.1016/j.proci.2010.09.007
886	R.P. Fitzgerald, R.S. Steeper, J.A. Snyder, R.K. Hanson and R.P. Hessel, "Determination of Cycle Temperatures and Residual Gas Fraction for HCCI Negative Valve Overlap Operation," <i>SAE Int. J. Engines</i> 3 (1) (2010) 124-141 DOI 10.4271/2010-01-0343
885	R.K. Hanson, "Laser Diagnostic Techniques for Shock Tube Studies of Combustion Chemistry," invited paper 10-I-141 at Laser Applications to Chemical and Environmental Analysis (LACSEA), San Diego, CA, Feb. 2010 DOI 10.1364/LACSEA.2010.LWB3
884	W.N. Heltsley, M. Gamba, M.G. Mungal and R.K. Hanson, "Boundary Layer Entrainment and Combustion in a Transverse Jet in Supersonic Crossflow," paper at APS Fluids Meeting, Nov. 2009.
883	K.Y. Lam, D. Vinh, S. Wang, Z. Hong, D.F. Davidson and R.K. Hanson, "Shock Tube Ignition Delay Time Measurements of Propane/ O_2 /Ar Mixtures at Near-Constant-volume Conditions," paper 09F-66 at WSS/CI meeting, Irvine, CA Oct. 2009.
882	Z. Hong, A. Farooq, E.A. Barbour, D.F. Davidson and R.K. Hanson, "Hydrogen Peroxide Decomposition Rate: A Shock Tube Study using Tunable Laser Absorption of H_2O near 2.5 μm ," paper 09F-65 at WSS/CI meeting, Irvine, CA Oct. 2009.
881	Z. Hong, A. Farooq, E.A. Barbour, D.F. Davidson and R.K. Hanson, "Hydrogen Peroxide Decomposition Rate: A Shock Tube Study using Tunable Laser Absorption of H_2O near 2.5 μm ," <i>J. Phys. Chem. A</i> 113 (2009) 12919-12925 DOI 10.1021/jp907219f
880	S.S. Vasu, D.F. Davidson and R.K. Hanson, "Shock Tube Experiments and Kinetic Modeling of Toluene Ignition," <i>J. Propul. Power</i> 26 (2010) 776-783 DOI 10.2514/1.46637

Publication list of Ron Hanson

879	S.H. Pyun, J.M. Porter, J.B. Jeffries, R.K. Hanson, J.C. Montoya, M.G. Allen and K.R. Sholes, "Two-color-absorption Sensor for Time-resolved Measurements of Gasoline Concentration and Temperature," <i>Applied Optics</i> 48 (2009) 6492-6500 DOI 10.1364/AO.48.006492
878	A.D. McCartt, S.D. Gates, P.P. Lappas, J.B. Jeffries and R.K. Hanson, "In situ Measurements of Shock Wave Interactions with Endospore-laden Aerosols," poster at 2009 Chem. & Biol. Defense Science & Tech. Conf. (CBD), Dallas, TX, Nov 16-20, 2009.
877	S.D. Gates, A.D. McCartt, P.P. Lappas, J.B. Jeffries, R.K. Hanson, L.A. Hokama and K.E. Mortelmans, "Ex Situ Analysis of Shock Wave Induced Damage to Bacillus Globigli (GB) Endospores," poster at 2009 Chem. & Biol. Defense Science & Tech. Conf. (CBD), Dallas, TX, Nov 16-20, 2009.
876	R.K. Hanson, J.B. Jeffries and L.S. Chang, " Hypersonic mass-flux sensing with fiber-coupled tunable diode lasers for ground test applications and flight evaluation ," NASA ARMD Hypersonics NRA Review Nov. 2008, Dallas, TX.
875	G.B. Rieker, J.B. Jeffries, R.K. Hanson, "Calibration-free wavelength modulation spectroscopy for measurements of gas temperature and concentration in harsh environments," <i>Applied Optics</i> 48 (2009) 5546-5560 DOI 10.1364/AO.48.005546
874	D.A. Rothamer, J.A. Snyder, R.K. Hanson and R.R. Steeper, "Optimization of a Tracer-based PLIF Diagnostic for Simultaneous Imaging of EGR and Temperature in Engines," <i>App. Phys. B: Lasers and Optics</i> 99 (2010) 371-384 DOI 10.1007/s00340-009-3815-2
873	D.F. Davidson, G.L. Pilla, A. Farooq, R.D. Cook, Z. Hong and R.K. Hanson, "Multi-species Measurements behind Reflected Shock Waves in Hydrocarbons using Laser Absorption," AIAA-2010-198 at 48th AIAA Aerospace Sciences Meeting, Orlando, FL, 1/2010 DOI 10.2514/6.2010-198
872	D.R. Haylett, D.F. Davidson and R.K. Hanson, "A Second-generation Aerosol Shock Tube for Combustion Research," AIAA-2010-196 at 48th AIAA Aerospace Sciences Meeting, Orlando, FL, 1/2010 DOI 10.2514/6.2010-196
871	L.S. Chang, J.B. Jeffries and R.K. Hanson, "Mass-flux Sensing Via Tunable Diode Laser Absorption of Water Vapor," AIAA-2010-303 at 48th AIAA Aerospace Sciences Meeting, Orlando, FL, Jan. 2010 DOI 10.2514/6.2010-303
870	J. Kastner, D. Cuppoletti, E. Gutmark, A. Fahrland, J.B. Jeffries and R.K. Hanson, "Simultaneous Measurement of Flow Fluctuations and Near-field Pressure in a Subsonic Jet," AIAA-2009-3211 at 15th AIAA/CEAS Aeroacoustics Conf., Miami, 5/2009 DOI 10.2514/6.2009-3211
869	J.B. Jeffries and R.K. Hanson, "Tunable Diode Laser Sensing Applications for Propulsion and Combustion," invited presentation at FLAIR – Field Laser Applications in Industry and Research 2009, Sept. 2009
868	E.A. Barbour and R.K. Hanson, "Chemical Non-equilibrium, Heat Transfer and Friction in a Detonation Tube with Nozzles," <i>J. Propul. Power</i> 26 (2010) 230-239 DOI 10.2514/1.44814
867	R.D. Cook, D.F. Davidson and R.K. Hanson, "High-Temperature Shock Tube Measurements of Dimethyl Ether Decomposition and the Reaction of Dimethyl Ether with OH," <i>J. Phys. Chem. A</i> 113 (2009) 9974-9980 DOI 10.1021/jp902403n
866	J.B. Jeffries, A. Fahrland, W. Min, R.K. Hanson, D. Sweeney, D. Wagner and K.J. Whitty, "Tunable Diode Laser Absorption Measurements in a Fluidized-bed Gasifier," 2009 Int. Pittsburgh Coal Conf., Pittsburgh, Sept 2009.
865	X. Chao, J.B. Jeffries and R.K. Hanson, "Absorption Sensor for CO in Combustion Gases using 2.3 μm Tunable Diode Lasers," <i>Meas. Sci. and Tech.</i> 20 (2009) DOI 10.1088/0957-0233/20/11/115201
864	J.M. Porter, J.B. Jeffries and R.K. Hanson, "Mid-infrared Absorption Measurements of Liquid Hydrocarbon Fuels near 3.4 μm ," <i>JQSRT</i> 110 2135-2147 (2009) DOI 10.1016/j.jqsrt.2009.05.017
863	D.F. Davidson, S. C. Ranganath, K. T. Lam, M. Liaw, Z. Hong and R.K. Hanson, "Ignition Delay Time Measurements of Normal Alkanes and Simple Oxygenates," <i>J. Propul. Power</i> 26 (2010) 280-287 DOI 10.2514/1.44034
862	B.H. Cheung and R.K. Hanson, "CW Laser-induced Fluorescence of Toluene for Time-resolved Imaging of Gaseous Flows," <i>App. Phys. B</i> 98 (2010) 581-591 DOI 10.1007/s00340-009-3785-4

Publication list of Ron Hanson

861	Z. K. Hong, D.F. Davidson and R.K. Hanson, "Contact Surface Tailoring Condition for Shock Tubes with Different Driver and Driver Section Diameters," <i>Shock Waves</i> 19 (2009) 331-336 DOI 10.1007/s00193-009-0212-z
860	J.A. Snyder, R.K. Hanson, R.P. Fitzgerald and R.R. Steeper, "Dual-wavelength PLIF Measurements of Temperature and Composition in an Optical Engine with Negative Valve Overlaps," paper 2009-01-0661 at 2009 SAE World Congress, Detroit, Apr. 20-24, 2009; also <i>SAE Int. J. Engines</i> 2 (1) (2009) 460-474 DOI 10.4271/2009-01-0661
859	R.K. Hanson, "Tunable Diode Laser Sensing in Harsh Environments: Applications to Propulsion and Combustion," invited plenary at 6th U.S. National Meeting on Combustion, Ann Arbor, MI, May 2009.
858	D.F. Davidson, A. Farooq, G.L. Pilla, R.D. Cook and R.K. Hanson, "Species Time-history Measurements During n-Heptane Oxidation behind Reflected Shock Waves," paper 31F1 at 6th U.S. National Meeting on Combustion, Ann Arbor, MI, May 2009.
857	S.S. Vasu, D.F. Davidson and R.K. Hanson, "Some Aspects of Toluene Ignition: Experiments and Modeling," paper 12F1 at 6th U.S. National Meeting on Combustion, Ann Arbor, MI, May 2009.
856	Z.C. Owens and R.K. Hanson, "The Influence of Wall Heat Transfer, Friction and Condensation on Detonation Tube Performance," <i>Comb. Sci. and Tech.</i> 182 (2010) 1104-1140 DOI 10.1080/00102200903485202
855	W.N. Heltsley, H. Do, J.A. Snyder, M.G. Mungal and R.K. Hanson, "Mixing and Reaction of Jets in Supersonic Crossflows," paper ... at 12th Euromech Turbulence Conf., Marburg, Germany, Sept. 2009.
854	A. Farooq, J.B. Jeffries and R.K. Hanson, "Wavelength-modulation Spectroscopy of CO ₂ near 2.7 μm for Sensitive Measurements of Temperature in Combustion Gases," paper 11A4 at 6th U.S. National Meeting on Combustion, Ann Arbor, MI, May 2009.
853	X. Chao, J.B. Jeffries and R.K. Hanson, "Tunable Diode Laser Sensing of NO near 5.2 μm and CO near 2.3 μm in Combustion Exhaust Gases," paper 11A3 at 6th U.S. National Meeting on Combustion, Ann Arbor, MI, May 2009.
852	Z. K. Hong, D.F. Davidson, S.S. Vasu and R.K. Hanson, "The Effect of Oxygenates on Soot Formation in Rich Heptane Mixtures: A Shock Tube Study," <i>Fuel</i> 88 (2009) 1901-1906 DOI 10.1016/j.fuel.2009.04.013
851	R.D. Cook, D.F. Davidson and R.K. Hanson, "Rate Measurements of DME Decomposition and DME + OH at Elevated Temperatures," paper 1P08 at 6th U.S. National Meeting on Combustion, Ann Arbor, MI, May 2009.
850	A. Farooq, J.B. Jeffries and R.K. Hanson, "Sensitive Detection of Temperature behind Reflected Shock Waves using Wavelength Modulation Spectroscopy of CO ₂ near 2.7 μm," <i>App. Phys. B</i> 96 (2009) 161-173 DOI 10.1007/s00340-009-3446-7
849	H. Li, J.B. Jeffries and R.K. Hanson, "Control of Instabilities in a Swirl-stabilized Flame with a Tunable Diode Laser Temperature Sensor," <i>Nihon Nensho Gakkaishi (J. of Combustion Society of Japan)</i> 50 (154) 289-296 (2008).
848	Z. K. Hong, G.A. Pang, S.S. Vasu, D.F. Davidson and R.K. Hanson, "The Use of Driver Inserts to Reduce Facility Effects behind Reflected Shock Waves," <i>Shock Waves</i> 19 113-123 (2009) DOI 10.1007/s00193-009-0205-y
847	J.M. Porter, J.B. Jeffries and R.K. Hanson, "Mid-infrared Laser-absorption Diagnostic for Vapor-phase Measurements in an Evaporating n-Decane Aerosol," <i>App. Phys. B</i> 97 215-225 (2009) DOI 10.1007/s00340-009-3658-x
846	G.B. Rieker, J.B. Jeffries and R.K. Hanson, "Measurements of High-pressure CO ₂ Absorption near 2.0 μm and Implications on Tunable Diode Laser Sensor Design," <i>App. Phys. B</i> 94 51-63 (2009) DOI 10.1007/s00340-008-3280-3
845	A.E. Klingbeil, J.B. Jeffries and R.K. Hanson, "Temperature- and Composition-dependent Mid-Infrared Absorption Spectrum of Gas-Phase Gasoline: Model and Measurements," <i>Fuel</i> 87 3600-3609 (2008) DOI 10.1016/j.fuel.2008.06.020
844	S.S. Vasu, D.F. Davidson, Z. Hong and R.K. Hanson, "A Shock Tube Study of Methylcyclohexane Ignition over a Wide Range of Pressure and Temperature," <i>Energy and Fuels</i> 23 175-185 (2009) DOI 10.1021/ef800694g
843	D.F. Davidson and R.K. Hanson, "Recent Advances in Shock Tube/Laser Diagnostic Methods for Improved Chemical Kinetics Measurements," <i>Shock Waves</i> 19 271-283 (2009) DOI 10.1007/s00193-009-0203-0

Publication list of Ron Hanson

842	S.S. Vasu, D.F. Davidson and R.K. Hanson, "OH Time-histories During Oxidation of n-Heptane and Methylcyclohexane at High Pressures and Temperatures," <i>Comb. and Flame</i> 156 736-749 (2009) DOI 10.1016/j.combustflame.2008.09.006
841	R.K. Hanson, J.B. Jeffries and M.G. Allen, " Tunable Diode Laser Absorption Sensor Applications to Aeropropulsion Testing ," NATO Applied Vehicle Technology Meeting: AVT-124, paper NBR-1, Budapest, Hungary, Apr. 2005.
840	D.F. Davidson, M.E. MacDonald and R.K. Hanson, "Investigation of the High Temperature Thermal Stability of Kerosenes using Shock Tubes" paper At JANNAF 4th Liquid Propulsion Joint Meeting, Orlando, FL, 12/2008 (withdrawn).
839	D.F. Davidson and R.K. Hanson, "Shock Tube Studies of n-Alkane Oxidation and Pyrolysis: Development of a Fundamental Kinetic Database for Jet Fuels and Surrogates," paper At JANNAF 4th Liquid Propulsion Joint Meeting, Orlando, FL, 12/2008 (withdrawn).
838	J.B. Jeffries, R.K. Hanson, D.F. Davidson, P.P. Lappas, A.D. McCartt, C. Strand, L.A. Hokama and K.E. Mortelmans, "Dispersion, Activation and Destruction of Airborne Biological Threats: Laboratory Studies of the Interaction of Spore-laden Aerosols with Shock/Blast Waves," poster #146 at Chem. Bio. Destruction (CBD) Conf., New Orleans, 11/2008.
837	X. Chao, J.B. Jeffries and R.K. Hanson, "2.3 μm Tunable Diode Laser Absorption Measurement of CO in Combustion Gases," WIP poster at 32nd Symp. (Int.) on Combustion, Montreal, 8/2008.
836	J.M. Porter, G.L. Pilla, J.B. Jeffries and R.K. Hanson, "Time-Resolved N-Decane Vapor Concentration Measurement of CO in a Shock-heated Evaporating Aerosol" WIP poster at 32nd Symp. (Int.) on Combustion, Montreal, 8/2008.
835	A. Farooq, J.B. Jeffries and R.K. Hanson, "Tunable Diode Laser Absorption Diagnostics for CO ₂ and H ₂ O in the 2.5-2.9 μm Spectral Region," WIP poster at 32nd Symp. (Int.) on Combustion, Montreal, 8/2008.
834	G.A. Pang, D.F. Davidson and R.K. Hanson, "Experimental Study and Modeling of Shock Tube Ignition Delay Times for Hydrogen-Oxygen-Argon Mixtures at Low Temperatures," paper 08S-10 at Spring Meeting of WSS/CI, Los Angeles, CA Mar. 17-18, 2008.
833	S.S. Vasu, D.F. Davidson and R.K. Hanson, "OH Time-history Absorption Measurements at High Pressures and Temperatures behind Reflected Shocks during Methylcyclohexane Oxidation," paper 08S-13 at Spring Meeting of WSS/CI, Los Angeles, CA Mar. 17-18, 2008.
832	D.F. Davidson and R.K. Hanson, "Recent Advances in Shock Tube/Laser Diagnostic Methods for Improved Chemical Kinetics Measurements," paper 08S-1 at Spring Meeting of WSS/CI, Los Angeles, CA Mar. 17-18, 2008.
831	T. Lee, W.G. Bessler, J. Yoo, C. Schulz, J.B. Jeffries and R.K. Hanson, "Fluorescence Quantum Yield of Carbon Dioxide for Quantitative UV Laser-induced Fluorescence in High-pressure Flames," <i>App. Phys. B</i> 93 677-685 (2008) DOI 10.1007/s00340-008-3161-9
830	A. Farooq, J.B. Jeffries and R.K. Hanson, " <i>In situ</i> Combustion Measurements of H ₂ O and Temperature near 2.5 μm using Tunable Diode Lasers," <i>Meas. Sci. and Tech.</i> 19 1-11 (2008) DOI 10.1088/0957-0233/19/7/075604
829	V. Vasudevan, R.D. Cook, R.K. Hanson, C.T. Bowman and D.M. Golden, "High Temperature Shock Tube Study of the Reactions CH ₃ + OH \rightarrow Products and CH ₃ OH + Ar \rightarrow Products," <i>Int. J. Chem. Kin.</i> 40 488-495 (2008) DOI 10.1002/kin.20334
828	D.A. Rothamer, J.A. Snyder, R.K. Hanson, R.R. Steeper and R.P. Fitzgerald, "Simultaneous Imaging of Exhaust Gas Residuals and Temperature During HCCI Combustion," <i>Proc. Comb. Inst.</i> 32 2869-2876 (2009) DOI 10.1016/j.proci.2008.07.018
827	J.D. Koch, J. Gronki and R.K. Hanson, "Measurements of Near-UV Absorption Spectra of Acetone and 3-pentanone at High Temperatures," <i>JQSRT</i> 109 2037-2044 (2008) DOI 10.1016/j.jqsrt.2008.02.010
826	W.N. Heltsley, J.A. Snyder, M.G. Mungal and R.K. Hanson, " Mapping the Combustion Stability Regimes of Hydrogen and Hydrocarbon Jets in Supersonic Crossflow with OH-PLIF ," paper 1135 at 14th Int. Symp. on Applications of Laser Techniques to Fluid Mechanics, Lisbon, July 7-10, 2008.
825	G. A Pang, D.F. Davidson and R.K. Hanson, "Experimental Study and Modeling of Shock Tube Ignition Delay Times for Hydrogen-Oxygen-Argon Mixtures at Low Temperatures," <i>Proc. Comb. Inst.</i> 32 181-188 (2009) DOI 10.1016/j.proci.2008.06.014

Publication list of Ron Hanson

824	A. Farooq, D.F. Davidson, R.K. Hanson, L.K. Huynh and A. Violi, "An Experimental and Computational Study of Methyl Ester Decomposition Pathways using Shock Tubes," <i>Proc. Comb. Inst.</i> 32 (2009) 247-253 DOI 10.1016/j.proci.2008.06.084
823	D.R. Haylett, D.F. Davidson and R.K. Hanson, "Application of an Aerosol Shock Tube to the Measurement of Diesel Ignition Delay Times," <i>Proc. Comb. Inst.</i> 32 (2009) 477-484 DOI 10.1016/j.proci.2008.06.134
822	R.D. Cook, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Ignition Delay Times and OH Time-histories in Dimethyl Ether Oxidation," <i>Proc. Comb. Inst.</i> 32 189-196 (2009) DOI 10.1016/j.proci.2008.06.113
821	A.E. Klingbeil, J.B. Jeffries and R.K. Hanson, "Two-wavelength Mid-IR Diagnostic for Temperature and n-Dodecane Concentration in an Aerosol Shock Tube," <i>App. Phys. B</i> 93 627-638 (2008) DOI 10.1007/s00340-008-3190-4
820	Z. Hong, D.F. Davidson, S.S. Vasu and R.K. Hanson, "Shock Tube Study of Soot Formation in Rich Heptane/Oxygen Mixtures with DME/Acetone/Butanol/3-Pentanone Additives," 32nd Symp. (Int.) on Combustion, Montreal Aug. 2008.
819	A.E. Klingbeil, J.M. Porter, J.B. Jeffries and R.K. Hanson, "Two-wavelength Mid-IR Absorption Diagnostic for Simultaneous Measurement of Temperature and Hydrocarbon Fuel Concentration," <i>Proc. Comb. Inst.</i> 32 (2009) 821-829 DOI 10.1016/j.proci.2008.06.058
818	S.S. Vasu, D.F. Davidson, Z. Hong, V. Vasudevan and R.K. Hanson, "n-Dodecane oxidation at high pressures: measurements of ignition delay times and OH concentration time histories," <i>Proc. Comb. Inst.</i> 32 (2009) 173-180 DOI 10.1016/j.proci.2008.05.006
817	G.B. Rieker, J.B. Jeffries, R.K. Hanson, T. Mathur, M.R. Gruber and C.D. Carter, "Diode Laser-based Detection of Combustion Instabilities with Application to a Scramjet Engine," <i>Proc. Comb. Inst.</i> 32 (2009) 831-838 DOI 10.1016/j.proci.2008.06.114
816	J. Yoo, T. Lee, J.B. Jeffries and R.K. Hanson, "Detection of Trace Nitric Oxide Concentrations using 1-D LIF Imaging," <i>App. Phys. B</i> 91 661-667 (2008) DOI 10.1007/s00340-008-3030-6
815	M.E. MacDonald, D.F. Davidson and R.K. Hanson, "Aerosol Shock Tube Measurements of the Decomposition Rate Measurements of RP-1, RP-2, n-Dodecane, and RP-1 with Fuel Stabilizers," AIAA-2008-4766 at 44th AIAA/ASME/SAE/ASEE Joint Propulsion Conf., Hartford, CT, July 2008 DOI 10.2514/6.2008-4766
814	D.F. Jackson, D.F. Davidson and R.K. Hanson, "Application of an Aerosol Shock Tube for the Study of Nano-energetic Material Decomposition Processes," AIAA-2008-4767 at 44th AIAA Joint Propulsion Conf., Hartford, CT, July 2008 DOI 10.2514/6.2008-4767
813	M. Gruber, C. Carter, M. Ryan, G.B. Rieker, J.B. Jeffries, R.K. Hanson, J. Liu and T. Mathur, "Laser-based Measurements of OH, Temperature, and Water Vapor Concentration in a Hydrocarbon-fueled Scramjet," AIAA-2008-5070 at 44th AIAA Joint Propulsion Conf., Hartford, CT, July 2008 DOI 10.2514/6.2008-5070
812	D.F. Davidson, D.R. Haylett and R.K. Hanson, "Development of an Aerosol Shock Tube for Kinetic Studies of Low-vapor-pressure Fuels," <i>Comb. and Flame</i> 155 (2008) 108-117 DOI 10.1016/j.combustflame.2008.01.006
811	J.B. Jeffries, A.E. Klingbeil, E.A. Barbour, A. Farooq and R.K. Hanson, "Mid-infrared Gas Sensing for Combustion Applications," paper presented at Laser Applications to Chemical and Environmental Analysis (LACSEA), Orlando, Mar. 2008 DOI 10.1364/LACSEA.2008.LWC2
810	P.P. Lappas, D.R. Haylett, J.M. Porter, J.B. Jeffries, R.K. Hanson, L.A. Hokoma and K. Mortelmans, "Destruction of Bacterial Spore-laden Aqueous Aerosols in Shock-heated Flows," paper presented at LACSEA, Orlando, Mar. 2008 DOI 10.1364/BIOMED.2008.JMA28
809	T.C. Hanson, D.F. Davidson and R.K. Hanson, "Shock-induced Behavior in Micron-sized Water Aerosols," <i>Physics of Fluids</i> 19 056104 (2007) DOI 10.1063/1.2736082
808	A. Farooq, J.B. Jeffries and R.K. Hanson, "CO ₂ Concentration and Temperature Sensor for Combustion Gases using Diode-laser Absorption Near 2.7 μm," <i>App. Phys. B</i> 90 619-628 (2008) DOI 10.1007/s00340-007-2925-y
807	R.K. Hanson, 2007 Air Products Distinguished Lecture, "Advanced Sensors for Propulsion," Penn State University, Apr. 2007.

Publication list of Ron Hanson

806	R.K. Hanson, invited "Frontiers in Spectroscopy" Distinguished Lecture, Ohio State University, Feb. 2007.
805	D.A. Rothamer, J.A. Snyder, R.K. Hanson and R.R. Steeper, "Two-wavelength PLIF Diagnostic for Temperature and Composition," SAE Technical Paper 2008-01-1067, 2008 DOI 10.4271/2008-01-1067
804	H. Li, X. Zhou, J.B. Jeffries and R.K. Hanson, "Active Control of Lean Blowout in a Swirl-stabilized Combustor using a Tunable Diode Laser," <i>Proc. Comb. Inst.</i> 31 3215-3223 (2007) DOI 10.1016/j.proci.2006.07.006
803	Z. Hong, D.F. Davidson and R.K. Hanson, "Shock Tube Studies of Soot Formation in Rich Heptane/Oxygen Mixtures with DME/Acetone/Butanal Additives," paper #07F-34 at WSS/CI Fall Meeting, Livermore, CA 10/2007.
802	G.A. Pang, D.F. Davidson and R.K. Hanson, "Shock Tube Ignition Delay Times for Hydrogen-Oxygen-Argon Mixtures at Low Temperatures and Elevated Pressures," paper #07F-12 at WSS/CI Fall Meeting, Livermore, CA 10/2007.
801	D.A. Rothamer, J.A. Snyder, R.R. Steeper and R.K. Hanson, "Optimized Two-line Tracer PLIF Measurements of Temperature and Composition in an IC engine," paper #07F-02 at WSS/CI Fall Meeting, Livermore, CA 10/2007.
800	V. Vasudevan, R.K. Hanson, C.T. Bowman, D.M. Golden and D.F. Davidson, "Shock Tube Study of the Reaction of CH with N ₂ : Overall Rate and Branching Ratio," <i>J. Phys. Chem. A</i> 111 11818-11830 (2007) DOI 10.1021/jp075638c
799	H. Li, Z.C. Owens, D.F. Davidson and R.K. Hanson, "A Simple Reactive Gasdynamics Model for the Computation of Gas Temperature and Species Concentrations behind Reflected Shock Waves," <i>IJCK</i> 40 189-198 (2008) DOI 10.1002/kin.20305
798	W.N. Heltsley, J.A. Snyder, C. C. Cheung, M.G. Mungal and R.K. Hanson, "Combustion Stability Regimes of Hydrogen Jets in Crossflow," AIAA-2007-5401 at 43rd AIAA Joint Propulsion Conf., Cincinnati, OH, July 2007 DOI 10.2514/6.2007-5401
797	S.S. Vasu, D.F. Davidson and R.K. Hanson, "Jet Fuel Ignition Delay Times and Modeling: Studies at High Pressures and Low Temperatures," AIAA-2007-5671 at 43rd AIAA Joint Propulsion Conf., Cincinnati, OH, July 2007 DOI 10.2514/6.2007-5671
796	H. Li, A. Farooq, J.B. Jeffries and R.K. Hanson, "Near-infrared Diode Laser Absorption Sensor for Rapid Measurements of Temperature and Water Vapor in a Shock Tube," <i>App. Phys. B</i> 89 407-416 (2007) DOI 10.1007/s00340-007-2781-9
795	R.D. Cook, D.F. Davidson and R.K. Hanson, "Measurements of Ignition Delay Times and OH Species Concentrations in DME/O ₂ /AR Mixtures," paper 2970P at 26th Int. Symp. on Shock Waves (ISSW), Gottingen, Germany, July 2007 DOI 10.1007/978-3-540-85168-4_123
794	R.K. Hanson, J. Haswell, R. Himes, J.B. Jeffries, J. Muncy, E. Padgett and J.N. Sorge, "Facilities for the Validation of Line-of-sight Combustion Gas Monitors for Coal-fire Boilers," Proc. of 17th Annual Joint ISA POWID/EPRI Controls and Instrumentation Conf., 50th Power Industry Symp., Pittsburgh, June 10-15, 2007.
793	Z.C. Owens and R.K. Hanson, "Single-cycle Unsteady Nozzle Phenomena in Pulse Detonation Engines," <i>J. Propul. Power</i> 23 325-337 (2007) DOI 10.2514/1.22415
792	H. Li, A. Farooq, J.B. Jeffries and R.K. Hanson, "Diode Laser Measurements of Temperature-dependent Collisional Narrowing and Broadening Parameters of Ar-Perturbed H ₂ O Transitions of 1391.7 and 1397.8nm," <i>JQSRT</i> 109 132-143 (2008) DOI 10.1016/j.jqsrt.2007.05.008
791	J.B. Jeffries and R.K. Hanson, "Tunable Diode Laser Sensors for Combustion and Propulsion Applications," invited presentation at Tunable Diode Laser Spectroscopy Symp., Reims, France, July 3-13, 2007.
790	S.S. Vasu, D.F. Davidson and R.K. Hanson, "Jet Fuel Ignition Times: Shock Tube Experiments over Wide Conditions and Surrogate Model Predictions," <i>Comb. and Flame</i> 152 125-143 (2008) DOI 10.1016/j.combustflame.2007.06.019
789	S.S. Vasu, D.F. Davidson and R.K. Hanson, " Jet Fuel Ignition Delay Times: Shock Tube Investigations at High Pressures ," paper 129 at 21st ICDERS, Poitiers, France, July 23-27, 2007.
788	A.E. Klingbeil, J.M. Porter, J.B. Jeffries and R.K. Hanson, "Two-wavelength mid-IR Absorption Sensor for Simultaneous Temperature and n-Heptane Concentration Experiments" paper GO3 at 5th U.S. Combustion Meeting, San Diego, Mar. 2007.

Publication list of Ron Hanson

787	J.H. Yoo, T. Lee, J.B. Jeffries and R.K. Hanson, "Detection of Trace NO Conditions using 1-D NO-LIF Imaging," paper GO5 at 5th U.S. Combustion Meeting, San Diego, Mar. 2007.
786	S.S. Vasu, N.N. Parikh, D.F. Davidson and R.K. Hanson, "Methylcyclohexane Oxidation: Shock Tube Experiments and Modeling over a Wide Range of Conditions," paper D17 at 5th U.S. Combustion Meeting, San Diego, Mar. 2007.
785	Z.C. Owens and R.K. Hanson, " Preliminary Investigation into the Influence of Transverse Waves in PDE Simulations ," 21st ICDERS, Poitiers, France, July 12-27, 2007.
784	A.E. Klingbeil, J.B. Jeffries and R.K. Hanson, "Temperature-dependent Mid-IR Absorption Spectra of Gaseous Hydrocarbons" <i>JQSRT</i> 107 407-420 (2007) DOI 10.1016/j.jqsrt.2007.03.004
783	G.B. Rieker, J.B. Jeffries and R.K. Hanson, "Comparison of Wavelength Modulation and Direct Absorption Spectroscopy for Measurements of Gas Temperature in a Scramjet Combustor," paper GO1 at 5th U.S. Combustion Meeting, San Diego, Mar. 2007.
782	V. Vasudevan, R.K. Hanson, D.M. Golden, C.T. Bowman and D.F. Davidson, "High-Temperature Shock Tube Measurements of Methyl Radical Decomposition," <i>J. Phys. Chem. A.</i> 111 4062-4072 (2007) DOI 10.1021/jp0677187
781	E.A. Barbour, P. Hutcheson, C.M. Brophy, J.O. Sinibaldi and R.K. Hanson, " Tunable Mid-IR Sensing of a JP-10-Fueled Pulsed Detonation Engine " 21st ICDERS, Poitier, France, July 23-27, 2007.
780	J.A. Snyder, L.S. Chang, K. Nakakita, W.N. Heltsley, M.G. Mungal and R.K. Hanson, "Pressure Sensitive Paint Measurements of Sonic Jet Injection into Supersonic Crossflow," AIAA-2007-5418 at 43rd AIAA Joint Propulsion Meeting, Cincinnati, OH, July 2007 DOI 10.2514/6.2007-5418
779	A. Farooq, H. Li, J.B. Jeffries and R.K. Hanson, "Measurements of CO ₂ and H ₂ O near 2.7 μm using Tunable Diode Laser Absorption," AIAA-2007-5015 at 43rd AIAA Joint Propulsion Conf., Cincinnati, OH, July 2007 DOI 10.2514/6.2007-5015
778	D.R. Haylett, D.F. Davidson and R.K. Hanson, "Development of an Aerosol Shock Tube for Kinetic Studies of Low-vapor-pressure Fuels," AIAA-2007-5678 at 43rd AIAA Joint Propulsion Conf., Cincinnati, OH, July 2007 DOI 10.2514/6.2007-5678
777	R.K. Hanson and J.B. Jeffries, "Diode Laser Sensors for Combustion and Propulsion Flows," at JANNAF-41st Comb. Subcommittee/29th Airbreathing Prop. Subcommittee/23rd Prop. Sys. Hazards Subcommittee Meeting, San Diego, CA, Dec. 2006.
776	H. Li, A. Farooq, R.D. Cook, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "A Diode-laser Absorption Sensor for Temperature and Water Vapor in a Shock Tube," paper P2660 at 26th Int. Symp. on Shock Waves (ISSW), Göttingen, Germany, July 2007 DOI 10.1007/978-3-540-85168-4_65
775	E.A. Barbour, R.K. Hanson, P. Hutcheson, C.M. Brophy and J.O. Sinibaldi, "Simultaneous Mid-IR Measurements of Equivalence Ratio and Temperature in a JP10-fueled Pulse Detonation Engine" AIAA-2007-0232 at 43rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2007 DOI 10.2514/6.2007-232
774	C. Cathey, et. al. (including E.A. Barbour and R.K. Hanson), "Transient Plasma Ignition for Delay Reduction in Pulse Detonation Engine Ignition," AIAA-2007-0443 at 43rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2007 DOI 10.2514/6.2007-443
773	Z. Hong, D.F. Davidson and R.K. Hanson, "Shock Tube Studies of Soot Formation in n-heptane and n-heptane/DME Mixtures using Optical Methods," AIAA-2007-0774 at 43rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2007 DOI 10.2514/6.2007-774
772	S.S. Vasu, D.F. Davidson and R.K. Hanson, "High-pressure Shock Tube Experiments and Modeling of n-Dodecane/air Ignition," paper P2730, 26th Int. Symp. on Shock Waves (ISSW), Göttingen, Germany July 2007 DOI 10.1007/978-3-540-85168-4_46
771	R.K. Hanson, "Advances in Diode Laser Sensors for Combustion and Propulsion," Keynote speaker at Zinn Combustion Laboratory Naming Ceremony, Georgia Tech., May 18, 2006.
770	R.K. Hanson and J.B. Jeffries, "Advances in Diode Laser Absorption Sensors for Combustion and Propulsion," invited paper and presentation, Laser Applications to Chemical and Environmental Analysis (LACSEA), Incline Village, Nevada, Feb 5-9, 2006 DOI 10.1364/LACSEA.2006.ThC1

Publication list of Ron Hanson

769	G.B. Rieker, H. Li, J.B. Jeffries, R.K. Hanson, M.G. Allen, S.D. Wehe, P.A. Mullhall and H.S. Kindle, "A Diode Laser Sensor for Rapid, Sensitive Measurements of Gas Temperature and Water Vapor Concentration at High Temperatures and Pressures," <i>Meas. Sci. and Tech.</i> 18 1195-1204 (2007) DOI 10.1088/0957-0233/18/5/005
768	R.K. Hanson, "Applications of Laser Diagnostics to Combustion and Propulsion," Invited Special Lecture, Lund Univ. Laser Center, Sweden Sept. 19, 2006.
767	R.K. Hanson, "Advances in Diode Laser Sensors for Combustion and Propulsion," Invited School of Mech. Engring. Dept. Seminar, Purdue Univ., Sept. 14, 2006.
766	G.B. Rieker, X. Liu, H. Li, J.B. Jeffries and R.K. Hanson, "Measurements of Near-IR Water Vapor Absorption and High Pressure and Temperature," <i>App. Phys. B</i> 87 169-178 (2007) DOI 10.1007/s00340-006-2523-4
765	X. Liu, J.B. Jeffries and R.K. Hanson, "Measurement of Spectral Parameters of Water Vapor Transitions near 1388 and 1345 μm . for Accurate Simulation of High-pressure Absorption Spectra," <i>Meas. Sci. and Tech.</i> 18 1185-1194 (2007) DOI 10.1088/0957-0233/18/5/004
764	X. Liu, J.B. Jeffries and R.K. Hanson, "Measurement of Non-uniform Temperature Distributions using Line-of-sight Absorption Spectroscopy," <i>AIAA J.</i> 45 411-419 (2007) DOI 10.2514/1.26708
763	X. Zhou, J.B. Jeffries, R.K. Hanson, G. Li and E.J. Gutmark "Wavelength-scanned Tunable Diode Laser Measurements of Temperature in a Swirl-stabilized Model Gas Turbine Combustor," <i>AIAA J.</i> 45 420-425 (2007) DOI 10.2514/1.26624
762	A.E. Klingbeil, J.B. Jeffries and R.K. Hanson, "Design of a Fiber-coupled Mid-IR Fuel Sensor for Pulse Detonation Engines," <i>AIAA J.</i> 45 772-778 (2007) DOI 10.2514/1.26504
761	W.N. Heltsley, J.A. Snyder, A. Houle, D.F. Davidson, M. Mungal and R.K. Hanson, "Design and Characterization of the Stanford 6-inch Expansion Tube," AIAA-2006-4443 at 42nd AIAA Joint Propulsion Meeting, Sacramento, CA, July 2006 DOI 10.2514/6.2006-4443
760	A. Houle, K. Nakakita, W.N. Heltsley, J.B. Jeffries and R.K. Hanson, "Diode Laser Absorption Measurements of Supersonic Flow in an Expansion Tube," AIAA-2006-4444 at 42nd AIAA Joint Propulsion Meeting, Sacramento, CA, July 2006 DOI 10.2514/6.2006-4444
759	M. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "Investigation of the Reaction of Toluene with Molecular Oxygen in Shock-heated Gases," <i>Comb. and Flame</i> 147 195-208 (2006) DOI 10.1016/j.combustflame.2006.08.006
758	R.K. Hanson and J.B. Jeffries, "Diode Laser Sensor for Ground Testing," AIAA-2006-3441 at 25th Ground Testing Conf., San Francisco, July 2006 (invited) DOI 10.2514/6.2006-3441
757	M. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "Experimental Investigation of Toluene + H \rightarrow Benzyl + H ₂ at High Temperatures," <i>J. Phys. Chem. A</i> 110 9867-9873 (2006) DOI 10.1021/jp062567t
756	A.E. Klingbeil, J.B. Jeffries and R.K. Hanson, "Temperature- and Pressure-dependent Absorption Cross-sections of Gaseous Hydrocarbons at 3.39 μm ," <i>Meas. Sci. and Tech.</i> 17 1950-1957 (2006) DOI 10.1088/0957-0233/17/7/038
755	V. Vasudevan, R.K. Hanson, C.T. Bowman and D.M. Golden, "High-temperature Shock Tube Measurements of Methyl Radical Decomposition," presented at 19th Int. Symp. on Gas Kinetics, Orleans, France, July 22-26, 2006.
754	R.K. Hanson, D.W. Mattison, L. Ma, D.F. Davidson and S.T. Sanders, "Laser Diagnostics and Combustion Chemistry for Pulse Detonation Engines" Chap. 10, 365-376 in <i>Combustion Processes in Propulsion</i> , ed. G. Roy, Elsevier Press, 2006 DOI 10.1016/B978-012369394-5/50038-X
753	K.H. Lyle, J.B. Jeffries and R.K. Hanson, "Diode Laser Sensor for Air Mass Flux Based on Oxygen Absorption: II. Non-uniform Flow Modeling and Aeroengine Tests," <i>AIAA J.</i> 45 2213-2223 (2007) DOI 10.2514/1.27683
752	K.H. Lyle, J.B. Jeffries, R.K. Hanson and M. Winter, "Diode Laser Sensor for Air Mass Flux Based on Oxygen Absorption: I. Design and Wind Tunnel Validation," <i>AIAA J.</i> 45 2201-2212 (2007) DOI 10.2514/1.26360
751	G.B. Rieker, H. Li, X. Liu, J.T.C. Liu, J.B. Jeffries, R.K. Hanson, M.G. Allen, S.D. Wehe, P.A. Mulhall, H.S. Kindle, A. Kakulo, K.R. Sholes, T. Matsuura and S. Takatani, "Rapid Measurements of Temperature and H ₂ O Concentrations in IC Engines with a Spark Plug-mounted Diode Laser Sensor," 31st Symp. (Int.) on Combustion, Heidelberg, Aug. 2006; in <i>Proc. Comb. Inst.</i> 31 3041-3049 (2007) DOI 10.1016/j.proci.2006.07.158

Publication list of Ron Hanson

750	A.E. Klingbeil, J.B. Jeffries and R.K. Hanson, "Tunable Mid-IR Laser Absorption Sensor for Time-resolved Hydrocarbon Measurements," 31st Symp. (Int.) on Combustion, Heidelberg, Aug. 2006; in <i>Proc. Comb. Inst.</i> 31 807-815 (2007) DOI 10.1016/j.proci.2006.07.228
749	D.W. Mattison, J.B. Jeffries, R.K. Hanson, R.R. Steeper, S. DeZilwa, J.E. Dec, M. Sjoberg and H. Hwang, "In-cylinder Gas Temperature and Water Concentration Measurements in HCCI Engines using a Multiplexed Wavelength Diode-laser System: Sensor Development and Initial Demonstration," 31st Symp. (Int.) on Combustion, Heidelberg, Aug. 2006; in <i>Proc. Comb. Inst.</i> 31 791-798 (2007) DOI 10.1016/j.proci.2006.07.048
748	T. Lee, J.B. Jeffries and R.K. Hanson, "Experimental Evaluation Strategies for Quantitative Laser-induced Fluorescence Imaging of Nitric Oxide in High-pressure Flames," 31st Symp. (Int.) on Combustion, Heidelberg, Aug. 2006; in <i>Proc. Comb. Inst.</i> 31 757-764 (2007) DOI 10.1016/j.proci.2006.07.090
747	A.E. Klingbeil, J.B. Jeffries, R.K. Hanson, K.M. Hinckley and A.J. Dean, "3.39 μm Laser Absorption Sensor for Ethylene and Propane Measurements in a Pulse Detonation Engine," AIAA-2006-0925 at 44th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2006 DOI 10.2514/6.2006-925
746	V. Vasudevan, D.F. Davidson, R.K. Hanson, C.T. Bowman and D.M. Golden, "High-Temperature Measurements of the Rates of the Reactions $\text{CH}_2\text{O} + \text{M} \rightarrow \text{Products}$ and $\text{CH}_2\text{O} + \text{O}_2 \rightarrow \text{Products}$," 31st Symp. (Int.) on Combustion, Heidelberg, Aug. 2006; in <i>Proc. Comb. Inst.</i> 31 175-183 (2007) DOI 10.1016/j.proci.2006.07.017
745	D.F. Davidson, M.A. Oehlschlaeger and R.K. Hanson, "Methyl Concentration Time Histories during iso-Octane and n-Heptane Oxidation and Pyrolysis," 31st Symp. (Int.) on Combustion, Heidelberg, Aug. 2006; in <i>Proc. Comb. Inst.</i> 31 321-328 (2007) DOI 10.1016/j.proci.2006.07.087
744	M.A. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "Thermal Decomposition of Toluene: Overall Rate and Branching Ratio," 31st Symp. (Int.) on Combustion, Heidelberg, Aug. 2006; in <i>Proc. Comb. Inst.</i> 31 211-219 (2007) DOI 10.1016/j.proci.2006.07.002
743	H. Li, X. Zhou, J.B. Jeffries and R.K. Hanson, "Sensing and Control of Combustion Instabilities in Swirl-stabilized Combustors using Diode Laser Absorption," <i>AIAA J.</i> 45 390-398 (2007) DOI 10.2514/1.24774
742	S. Vasu, D.F. Davidson and R.K. Hanson, "Shock Tube Ignition Times and Modeling of Jet Fuel Mixtures," AIAA-2006-4402 at 42nd AIAA Joint Propulsion Meeting, Sacramento, CA, July 2006 DOI 10.2514/6.2006-4402
741	H. Li, X. Zhou, J.B. Jeffries and R.K. Hanson, "Sensing and Control of Combustion Instabilities in Swirl-stabilized Combustors Using Diode-laser Absorption," AIAA-2006-4395 at 42nd AIAA Joint Propulsion Meeting, Sacramento, CA, July 2006 DOI 10.2514/6.2006-4395
740	D.A. Rothamer and R.K. Hanson, "Visualization of High-speed Flows using Infrared Planar Laser-induced Fluorescence (IRPLIF) of CO and CO ₂ ," AIAA-2006-4300 at 42nd AIAA Joint Propulsion Meeting, Sacramento, CA, July 2006 DOI 10.2514/6.2006-4300
739	M.A. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "Thermal Decomposition of Toluene: Overall Rate and Branching Ratio," paper 05F-59 at WSS/CI Fall Meeting, Stanford, CA, 10/2005.
738	M.A. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "Temperature Measurement using Ultraviolet Absorption of Carbon Dioxide behind Shock Waves," <i>Applied Optics</i> 44 6599-6605 (2005) DOI 10.1364/AO.44.006599
737	V. Vasudevan, D.F. Davidson, R.K. Hanson, C.T. Bowman and D.M. Golden, "High-Temperature Measurements of the Rates of the Reactions $\text{CH}_2\text{O} + \text{M} = \text{Products}$ and $\text{CH}_2\text{O} + \text{O}_2 = \text{Products}$," paper 05F-40 at WSS/CI Fall Meeting, Stanford, CA, 10/2005.
736	D.F. Davidson, M.A. Oehlschlaeger and R.K. Hanson, "Methyl Concentration Time Histories during iso-Octane and n-Heptane Oxidation," paper 05F-61 at WSS/CI Fall Meeting, Stanford, CA, 10/2005.
735	R.K. Hanson and J.B. Jeffries, "Advances in Diode Laser Sensors for Combustion and Propulsion," paper 05F-1 at WSS/CI Fall Meeting, Stanford, CA, 10/2005.
734	X. Liu, X. Zhou, J.B. Jeffries and R.K. Hanson, "Experimental Study of H ₂ O Spectroscopic Parameters in the Near-IR (6940-7440 cm ⁻¹) for Gas Sensing Applications at Elevated Temperatures," <i>JQSRT</i> 103 565-577 (2006) DOI 10.1016/j.jqsrt.2006.07.008
733	C.M. Brophy and R.K. Hanson, "Fuel Distribution Effects on Pulse Detonation Engine Operation and Performance," <i>J. Propul. Power</i> 22 1155-1161 (2006) DOI 10.2514/1.18713

Publication list of Ron Hanson

732	X. Liu, J.B. Jeffries, R.K. Hanson, K.M. Hinckley and M. A. Woodmansee, "Development of a Tunable Diode Laser Sensor for Measurements of Gas Turbine Exhaust Temperature," <i>App. Phys. B</i> 82 469-478 (2006) DOI 10.1007/s00340-005-2078-9
731	H. Li, G.B. Rieker, X. Liu, J.B. Jeffries and R.K. Hanson, "Extension of Wavelength Modulation Spectroscopy to Large Modulation Depth for Diode Laser Absorption Measurements in High-pressure Gases," <i>Applied Optics</i> 45 1052-1061 (2006) DOI 10.1364/AO.45.001052
730	X. Liu, J.B. Jeffries and R.K. Hanson, "Strategies for Measurement of Non-uniform Temperature Distributions using Line-of-sight Absorption Spectroscopy," AIAA-2006-0834 at 44th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2006 DOI 10.2514/6.2006-834
729	X. Zhou, X. Liu, J.B. Jeffries and R.K. Hanson, "Selection of NIR H ₂ O Absorption Transitions for In-cylinder Measurement of Temperature during the Compression Stroke of an IC Engine," <i>Meas. Sci. and Tech.</i> 16 2437-2445 (2005) DOI 10.1088/0957-0233/16/12/006
728	X. Zhou, J.B. Jeffries and R.K. Hanson, "Development of a Fast Temperature Sensor for Combustion Gases using a Single Tunable Diode Laser," <i>App. Phys. B</i> 81 711-722 (2005) DOI 10.1007/s00340-005-1934-y
727	M.A. Oehlschlaeger, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "Carbon Dioxide Thermal Decomposition: Observation of Incubation," <i>Zeitschrift für Physikalisch Chemie</i> 219 555-567 (2005) DOI 10.1524/zpch.219.5.555.64325
726	L. Ma and R.K. Hanson, "Measurement of Aerosol Size Distribution Functions by Wavelength-multiplexed Laser Extinction," <i>App. Phys. B</i> 81 567-576 (2005) DOI 10.1007/s00340-005-1913-3
725	J.T.C. Liu, G.B. Rieker, J.B. Jeffries, R.K. Hanson, M.R. Gruber, C.D. Carter and T. Mathur, "Near-infrared Diode Laser Absorption Diagnostic for Temperature and Water Vapor in a Scramjet Combustor," <i>Applied Optics</i> 44 6701-6711 (2006) DOI 10.1364/AO.44.006701
724	W. Koban, J.D. Koch, R.K. Hanson and C. Schultz, "Toluene LIF at Elevated Temperatures: Implications for Fuel-Air Ratio Measurements," <i>App. Phys. B</i> 80 147-150 (2005) DOI 10.1007/s00340-004-1715-z
723	M.A. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "High Temperature Thermal Decomposition of Benzyl Radicals," <i>J. Phys. Chem. A</i> 110 6649-6653 (2006) DOI 10.1021/jp0553961
722	T.C. Hanson, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Water and n-Dodecane Droplet Evaporation behind Shock Waves," AIAA-2005-0350 at 43rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2005 DOI 10.2514/6.2005-350
721	X. Liu, X. Zhou, J.B. Jeffries and R.K. Hanson, "Experimental Study of H ₂ O Spectroscopic Parameters in the Near-IR," AIAA-2005-0829 at 43rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2005 DOI 10.2514/6.2005-829
720	Z.C. Owens and R.K. Hanson, "Unsteady Nozzle Design for Pulse Detonation Engines," AIAA-2005-3649 at 41st Joint Propulsion Conf., Tucson, AZ, July 2005 DOI 10.2514/6.2005-3649
719	R.K. Hanson and J.B. Jeffries, "Advances in Laser-based Sensors for Propulsion Systems," AIAA-2004-2476 at AIAA Aerodynamic Measurement Technology and Ground Testing Conf., Portland, June 2004 DOI 10.2514/6.2004-2476
718	D.W. Mattison, J.B. Jeffries and R.K. Hanson, "Tunable Diode Laser Sensors for Harsh Combustion Environments with Applications to Pulse Detonation Engines and Internal Combustion Engines," Joint Meeting of U.S. Sections of Comb. Inst, Philadelphia, PA, Mar. 2005.
717	G.B. Rieker, J.T.C. Liu, J.B. Jeffries, R.K. Hanson, T. Mathur, M.R. Gruber and C. Carter, "Wavelength-multiplexed Tunable Diode Laser Sensor for Gas Temperature and Water Concentration in a Scramjet Combustor," AIAA-2005-3710 at 41st Joint Propulsion Conf., Tucson, AZ, July 2005 DOI 10.2514/6.2005-3710
716	K. Lyle, J.B. Jeffries, R.K. Hanson and M.M. Winter, "Aeroengine Mass Flux Sensor Based on Laser Absorption Measurements of Oxygen Velocity and Density," AIAA-2005-3784 at 41st Joint Propulsion Conf., Tucson, AZ, July 2005 DOI 10.2514/6.2005-3784
715	X. Zhou, J.B. Jeffries, R.K. Hanson, Q. Lu and E.J. Gutmark, "Rapid Measurements of Gas Temperature in a Swirl-stabilized Flame," Joint Meeting of U.S. Sections of Comb. Inst., Philadelphia, PA, Mar. 2005.

Publication list of Ron Hanson

714	A.E. Klingbeil, J.B. Jeffries, R.K. Hanson, C.M. Brophy and J.O. Sinibaldi, "Mid-IR Laser Absorption Sensor for Ethylene in a Pulsed Detonation Engine," AIAA-2005-4375 at 41st Joint Propulsion Conf., Tucson, AZ, July 2005 DOI 10.2514/6.2005-4375
713	T. Lee, W. Bessler, H. Kronemayer, C. Schulz, J.B. Jeffries and R.K. Hanson, "Quantitative Temperature Measurements in High-pressure Flames with Multi-line NO-LIF Thermometer," Joint Meeting of U.S. Sections of Comb. Inst., Philadelphia, PA, Mar. 2005.
712	L. Ma, J.B. Jeffries, R.K. Hanson, K.M. Hinckley, P.F. Pinar and A.J. Dean, "Characterization of the Fuel Fill Process in a Multi-cycle Pulse Detonation Engine using a Diode-laser Sensor," AIAA-2005-3834 at 41st Joint Propulsion Conf., Tucson, AZ, July 2005 DOI 10.2514/6.2005-3834
711	E.A. Barbour, L. Ma, J.B. Jeffries, R.K. Hanson, C.M. Brophy and J.O. Sinibaldi, "Real-time Measurements of C ₂ H ₄ Concentration with Application to PDEs Operating on Oxygen and Air," AIAA-2005-4376 at 41st Joint Propulsion Conf., Tucson, AZ, July 2005 DOI 10.2514/6.2005-4376
710	S.S. Vasu, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements and Modeling of Ignition Delay Time Measurements," 25th Int. Symp. on Shock Waves (ISSW), Bangalore, India, July 2005.
709	V. Vasudevan, D.F. Davidson and R.K. Hanson, "High Temperature Measurements of Elementary OH Radical Reactions," paper C23 at Joint Meeting of U.S. Sections of Comb. Inst., Philadelphia, PA, Mar. 2005.
708	V. Vasudevan, D.F. Davidson and R.K. Hanson, "High Temperature Measurements of the Reactions of OH with Toluene and Acetone," <i>J. Phys. Chem. A</i> 109 3352-3359 (2005) DOI 10.1021/jp0501143 ; also 25th Int. Symp. on Shock Waves (ISSW), Bangalore, India, July 2005.
707	E.L. Petersen and R.K. Hanson, "Measurement of Reflected-shock Bifurcation Over a Wide Range of Gas Composition and Pressure," <i>Shock Waves</i> 15 333-340 (2006) DOI 10.1007/s00193-006-0032-3
706	W. Koban, J.D. Koch, R.K. Hanson and C. Schulz, "Oxygen Quenching of Toluene Fluorescence at Elevated Temperatures," <i>App. Phys. B</i> 80 777-784 (2005) DOI 10.1007/s00340-005-1769-6
705	M.A. Oehlschlaeger, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "Ultraviolet Absorption Cross-sections of Hot Carbon Dioxide" <i>Chem. Phys. Lett.</i> 399 490-495 (2005) DOI 10.1016/j.cplett.2004.10.060
704	B.M. Gauthier, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Ignition Delay Times in N-Heptane, Gasoline and Surrogate Fuel Mixtures," poster at 30th Int. Combustion Symp., Chicago, July 2004.
703	E.A. Barbour, Z.C. Owens, C.I. Morris and R.K. Hanson, "The Impact of Heat Transfer on PDE Performance and its Associated Flowfield," poster at 30th Int. Combustion Symp., Chicago, July 2004.
702	A. Sappey, J. Howell, P. Masterson, H. Hofvander, J.B. Jeffries, X. Zhou and R.K. Hanson, "Determination of O ₂ , CO and H ₂ O Concentration and Gas Temperature in a Coal-fired Utility Boiler using a Wavelength-multiplexed Tunable Diode Laser Sensor," poster at 30th Int. Combustion Symp., Chicago, July 2004.
701	W. Koban, J.D. Koch, R.K. Hanson and C. Schulz, "FARLIF: Myths and Reality," poster at 30th Int. Combustion Symp., Chicago, July 2004.
700	M.I. Radulescu and R.K. Hanson, "The Effect of Wall Heat Loss on the Impulse Generated in an Open-ended Detonation Tube," <i>J. Propul. Power</i> 21 274-285 (2005) DOI 10.2514/1.10286
699	S. Kim, J.B. Jeffries, R.K. Hanson and G.A. Raiche, "Temperature Measurements in the Arc-heater of a Large-scale Arcjet Facility using Tunable Diode Laser Absorption," AIAA-2005-0900 at 43rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2005 DOI 10.2514/6.2005-900
698	T. Lee, W.G. Bessler, C. Schulz, M. Patel, J.B. Jeffries and R.K. Hanson, "UV Planar Laser-induced Fluorescence Imaging of Hot Carbon Dioxide in a High-pressure Flame," <i>App. Phys. B</i> 79 427-430 (2004) DOI 10.1007/s00340-004-1595-2
697	E.A. Barbour, D.W. Mattison, Z.C. Owens, R.K. Hanson and C.I. Morris, "A Pulsed Detonation Tube with a Converging-Diverging Nozzle," AIAA-2005-1307 at 43rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2005 DOI 10.2514/6.2005-1307

Publication list of Ron Hanson

696	X. Zhou, X. Liu, J.B. Jeffries and R.K. Hanson, "Fast Temperature Sensor for Combustion Control using H ₂ O Diode Laser Absorption near 1.4 μm," AIAA-2005-0627 at 43rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2005 DOI 10.2514/6.2005-627
695	D.W. Mattison, J.T.C. Liu, J.B. Jeffries, R.K. Hanson, C.M. Brophy and J.O. Sinibaldi, "Tunable Diode-laser Temperature Sensor for Evaluation of a Valveless Pulse Detonation Engine," AIAA-2005-0224 at 43rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2005 DOI 10.2514/6.2005-224
694	V. Vasudevan, D.F. Davidson and R.K. Hanson, "Direct Measurements of the Reaction OH + CH ₂ O → HCO + H ₂ O at High Temperatures," <i>IJCK</i> 37 98-109 (2005) DOI 10.1002/kin.20056
693	M.A. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "High Temperature UV Absorption of Methyl Radicals behind Shock Waves," <i>JQSRT</i> 92 393-402 (2005) DOI 10.1016/j.jqsrt.2004.08.006
692	J.T.C. Liu, J.B. Jeffries and R.K. Hanson, "Large-modulation-depth 2f Spectroscopy with Diode Lasers for Rapid Temperature and Species Measurements in Gases with Blended and Broadened Spectra," <i>Applied Optics</i> 43 6500-6509 (2004) DOI 10.1364/AO.43.006500
691	W. Koban, J. Koch, R.K. Hanson and C. Schulz, "Absorption and Fluorescence of Toluene at Elevated Temperatures," <i>Phys. Chem. Chem. Physics</i> 6 2940-2945 (2004) DOI 10.1039/b400997e
690	J. Koch, R.K. Hanson, W. Koban and C. Schulz, "Rayleigh-calibrated Fluorescence Quantum Yield Measurements of Acetone and 3-pentanone," <i>Applied Optics</i> 43 5901-5910 (2004) DOI 10.1364/AO.43.005901
689	M.I. Radulescu and R.K. Hanson, "Technical Comment on 'Analytical Model for the Impulse of Single-cycle Pulse Detonation Tube'," <i>J. Propul. Power</i> 20 (2004) 956-959 DOI 10.2514/1.7876
688	H. Li, R.K. Hanson and J.B. Jeffries, "Diode Laser-induced Infrared Fluorescence of Water Vapor," <i>Meas. Sci. and Tech.</i> 15 (7) 1285-1290 (2004) DOI 10.1088/0957-0233/15/7/009
687	B.M. Gauthier, D.F. Davidson and R.K. Hanson, "Shock Tube Determination of Ignition Delay Times in Full-blend and Surrogate Fuel Mixtures," <i>Comb. and Flame</i> 139 300-311 (2004) DOI 10.1016/j.combustflame.2004.08.015
686	T. Lee, J.B. Jeffries, R.K. Hanson, W.G. Bessler and C. Schulz, "Carbon Dioxide UV Laser-induced Fluorescence Imaging in High-pressure Flames," AIAA-2004-0386 presented at 42nd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2004 DOI 10.2514/6.2004-386
685	J.T.C. Liu, J.B. Jeffries and R.K. Hanson, "Wavelength Modulation Absorption Spectroscopy for Combustion Temperature Measurements using Multiplexed Near-infrared Diode Lasers," AIAA-2004-0647 presented at 42nd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2004 DOI 10.2514/6.2004-647
684	M.I. Radulescu, C.I. Morris and R.K. Hanson, "The Effect of Wall Heat Loss on the Flow Fields in a Pulse Detonation Engine," AIAA-2004-1124 presented at 42nd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2004 DOI 10.2514/6.2004-1124
683	C.S. Libby, D.F. Davidson and R.K. Hanson, "A Shock Tube Study of the Oxidation of 1,3-Butadiene," AIAA-2004-1322 presented at 42nd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2004 DOI 10.2514/6.2004-1322
682	J.T. Kashdan, T.C. Hanson, E. Piper, D.F. Davidson and R.K. Hanson, "A New Facility for the Study of Shock Wave-induced Combustion of Liquid Fuels," AIAA-2004-468 at 42nd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2004 DOI 10.2514/6.2004-468
681	K.M. Hinckley, J.B. Jeffries and R.K. Hanson, "A Wavelength-multiplexed Diode Laser Sensor for Temperature Measurements in Pulse Detonation Engines," AIAA-2004-0713 at 42nd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2004 DOI 10.2514/6.2004-713
680	E.A. Barbour, Z.C. Owens, C.I. Morris and R.K. Hanson, "The Impact of a Converging-Diverging Nozzle on PDE Performance and its Associated Flowfield," AIAA-2004-867 at 42nd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2004 DOI 10.2514/6.2004-867
679	N. Xu, D.R. Pinkle, J.B. Jeffries, B.K. McMillin and R.K. Hanson, "Near-IR Diode Laser HF Monitor for Dielectric Etch," <i>J. Vac. Sci. and Tech. A</i> 22 2479-2486 (2004) DOI 10.1116/1.1809124
678	M.A. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "High Temperature Thermal Decomposition of iso-Butane and n-Butane behind Shock Waves," <i>J. Phys. Chem. A</i> 108 4247-4253 (2004) DOI 10.1021/jp0313627

Publication list of Ron Hanson

677	M.I. Radulescu, G.J. Sharpe, J.H.S. Lee, C. Kiyanda, A.J. Higgins and R.K. Hanson, "The Ignition Mechanism in Irregular Structure Gaseous Detonations," <i>Proc. Comb. Inst.</i> 30 1859-1867 (2005) DOI 10.1016/j.proci.2004.08.047
676	W. Koban, J. Koch, V. Sick, N. Wermuth, R.K. Hanson and C. Schulz, "Predicting LIF Signal Strength for Toluene and 3-Pentanone under Transient Temperature and Pressure Conditions," <i>Proc. Comb. Inst.</i> 30 1545-1553 (2005) DOI 10.1016/j.proci.2004.08.119
675	J.T. Herbon, R.K. Hanson, C.T. Bowman and D.M. Golden, "The Reaction of CH ₃ + O ₂ : Rate Coefficients for the Product Channels at High Temperatures," <i>Proc. Comb. Inst.</i> 30 955-963 (2005) DOI 10.1016/j.proci.2004.08.094
674	J.B. Jeffries, C. Schulz, D.W. Mattison, M.A. Oehlschlaeger, W.G. Bessler, T. Lee, D.F. Davidson and R.K. Hanson, "UV Absorption of CO ₂ for Temperature Diagnostics of Hydrocarbon Combustion Applications," <i>Proc. Comb. Inst.</i> 30 1591-1599 (2005) DOI 10.1016/j.proci.2004.08.009
673	Z.C. Owens, D.W. Mattison, E.A. Barbour, C.I. Morris and R.K. Hanson, "PDE Flowfield Characterization and Simulation Validation using Cesium-based Velocimetry," <i>Proc. Comb. Inst.</i> 30 2791-2798 (2005) DOI 10.1016/j.proci.2004.08.050
672	D.W. Mattison, M.A. Oehlschlaeger, C.I. Morris, Z.C. Owens, E.A. Barbour, J.B. Jeffries and R.K. Hanson, "Evaluation of Pulse Detonation Engine Modeling using Laser-based Temperature and OH Measurements," <i>Proc. Comb. Inst.</i> 30 2799-2807 (2005) DOI 10.1016/j.proci.2004.08.026
671	M.A. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "High Temperature Ethane and Propane Pyrolysis," <i>Proc. Comb. Inst.</i> 30 1119-1127 (2005) DOI 10.1016/j.proci.2004.07.032
670	D.F. Davidson, B.M. Gauthier and R.K. Hanson, "Shock Tube Ignition Measurements of Iso-Octane/Air and Toluene/Air at High Pressures," <i>Proc. Comb. Inst.</i> 30 1175-1182 (2005) DOI 10.1016/j.proci.2004.08.004
669	V. Vasudevan, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Ignition Times and OH Concentration Time Histories," <i>Proc. Comb. Inst.</i> 30 1155-1163 (2005) DOI 10.1016/j.proci.2004.07.039
668	T. Rossmann, M.G. Mungal and R.K. Hanson, "Mixing Efficiency Measurements using a Modified Cold-chemistry Technique," <i>Expts. Fluids</i> 37 566-576 (2004) DOI 10.1007/s00348-004-0851-x
667	D.F. Davidson and R.K. Hanson, "Interpreting Shock Tube Ignition Data," <i>IJCK</i> 36 510-523 (2004) DOI 10.1002/kin.20024 ; also paper WSS/CI-03F-61 at Fall 2003 WSS/CI meeting, UCLA, Oct. 2003.
666	M.A. Oehlschlaeger, D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of Ethane, Propane and Butane Decomposition using Laser Absorption of CH ₃ ," paper WSS/CI-03F-56 at Fall 2003 WSS/CI meeting, UCLA, Oct. 2003.
665	T. Rossmann, M.G. Mungal and R.K. Hanson, "Nitric oxide Planar Laser-induced Fluorescence applied to Low-pressure Hypersonic Flow Fields for the Imaging of Mixture Fraction," <i>Applied Optics</i> 42 6682-6695 (2003) DOI 10.1364/AO.42.006682
664	B.M. Gauthier, D.F. Davidson and R.K. Hanson, "A Shock Tube Study of Iso-Octane and Toluene Ignition at High Pressures," paper WSS/CI-03F-26 at Fall 2003 WSS/CI meeting, UCLA, Oct. 2003.
663	E.A. Barbour, M.A. Oehlschlaeger, D.W. Mattison, D.F. Davidson, C. Schulz, J.B. Jeffries and R.K. Hanson, " UV Absorption of CO₂ for Temperature Diagnostics ," presented at LACEA, Annapolis, Feb. 2004.
662	W.G. Bessler, H. Kronemayer, C. Schulz, T. Lee, J.B. Jeffries and R.K. Hanson, " Quantitative Multi-line NO-LIF Temperature Imaging in Flames over a Wide Pressure Range ," presented at LACEA, Annapolis, Feb. 2004.
661	J.T.C. Liu, J.B. Jeffries and R.K. Hanson, "Wavelength Modulation Absorption Spectroscopy with 2f Detection using Multiplexed Diode Lasers for Rapid Temperature Measurements in Gaseous Flows," <i>App. Phys. B</i> 78 503-511 (2004) DOI 10.1007/s00340-003-1380-7
660	D.W. Mattison, C.M. Brophy, S.T. Sanders, L. Ma, K.M. Hinckley, J.B. Jeffries and R.K. Hanson, "Pulse Detonation Engine Characterization and Control using Tunable Diode Laser Sensors," <i>J. Propul. Power</i> 19 568-572 (2003) DOI 10.2514/2.6167
659	A. Ben-Yakar, M.G. Mungal and R.K. Hanson, "Transverse Jets in Supersonic Crossflows Part II: The Effect of Compressibility, Velocity Ratio and Density Ratio," not submitted 2006.

Publication list of Ron Hanson

658	A. Ben-Yakar, M.G. Mungal and R.K. Hanson, "Time Evolution and Mixing Characteristics of Hydrogen and Ethylene Jets in Supersonic Crossflows," <i>Physics of Fluids</i> 18 1-16 (2006) DOI 10.1063/1.2139684
657	M.A. Oehlschlaeger, D.F. Davidson, J.T. Herbon and R.K. Hanson, "Shock Tube Measurements of Branched Alkane Ignition Times and OH Concentration Time Histories," <i>IJCK</i> 36 67-78 (2004) DOI 10.1002/kin.10173
656	S. Kim, P. Klimecky, J.B. Jeffries, F.L. Terry, Jr. and R.K. Hanson, "In Situ Measurements of HCl during Plasma Etching of Poly-Silicon using a Diode Laser Absorption Sensor," <i>Meas. Sci. and Tech.</i> 14 1662-1670 (2003) DOI 10.1088/0957-0233/14/9/318
655	X. Zhou, X. Liu, J.B. Jeffries and R.K. Hanson, "Development of a Sensor for Temperature and Water Vapor Concentration in Combustion Gases using a Single Tunable Diode Laser," <i>Meas. Sci. and Tech.</i> 14 1459-1468 (2003) DOI 10.1088/0957-0233/14/8/335
654b	J.B. Spicer, P. Dagdigian, R. Osiander, J.A. Miragliotta, X. Zhang, R. Kersting, D.R. Crosley, R.K. Hanson and J.B. Jeffries, "Overview: MURI Center on spectroscopic and time domain detection of trace explosives in condensed and vapor phases," <i>Proc. SPIE</i> . 5089 , Detection and Remediation Technologies for Mines and Minelike Targets VIII, 1088. (Sep. 15, 2003) DOI 10.1117/12.487531
654a	L. Ma, K.M. Hinckley, J.B. Jeffries and R.K. Hanson, "Propane Fuel Monitoring in Pulse Detonation Engines using a Diode-laser Sensor," AIAA-2003-4684 at 39th AIAA/ASME/SAE/ASEE Joint Propulsion Conf., Huntsville, AL, July 2003 DOI 10.2514/6.2003-4684
653	G. Friedrichs, D.F. Davidson and R.K. Hanson, "Validation of a Thermal Decomposition Mechanism of Formaldehyde by Detection of CH ₂ O and HCO behind Shock Waves," <i>IJCK</i> 36 157-169 (2004) DOI 10.1002/kin.10183
652	W.G. Bessler, C. Schulz, T. Lee, J.B. Jeffries and R.K. Hanson, "Carbon Dioxide UV Laser-induced Fluorescence in High-pressure Flames," <i>Chem. Phys. Lett.</i> 375 344-349 (2003) DOI 10.1016/S0009-2614(03)00858-3
651	W.G. Bessler, C. Schulz, T. Lee, J.B. Jeffries and R.K. Hanson, "Strategies for Laser-induced Fluorescence Detection of Nitric Oxide in High-pressure Flames: III. Comparison of A-X Excitation Schemes," <i>Applied Optics</i> 42 4922-4936 (2003) DOI 10.1364/AO.42.004922
650	S.D. Wehe, M.G. Allen, X. Liu, J.B. Jeffries and R.K. Hanson, "NO and CO Absorption Measurements with a Mid-IR Quantum Cascade Laser for Engine Exhaust Applications," AIAA-2003-0588 at 41st AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2003 DOI 10.2514/6.2003-588
649	D.W. Mattison, M.A. Oehlschlaeger, J.B. Jeffries and R.K. Hanson, "Pulse Detonation Tube Characterization using Laser Absorption Spectroscopy," AIAA-2003-0713 at 41st AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2003 DOI 10.2514/6.2003-713
648	X. Zhou, X. Liu, J.B. Jeffries and R.K. Hanson, "Diode Laser Sensors for Combustion Control," AIAA-2003-1010 at 41st AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2003 DOI 10.2514/6.2003-1010
647	L. Ma, J.B. Jeffries and R.K. Hanson, "Two-phase Fuel Diagnostic Based on Diode-lasers" AIAA-2003-0401 at 41st AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2003 DOI 10.2514/6.2003-401
646	T. Lee, J.B. Jeffries, R.K. Hanson, W.G. Bessler and C. Schulz, "Quantitative NO-LIF Temperature Imaging in High-pressure Flames" AIAA-2003-0583 at 41st AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2003 DOI 10.2514/6.2003-583
645	J.D. Koch and R.K. Hanson, "A Photophysics Model for 3-Pentanone PLIF: Temperature, Pressure and Excitation Wavelength Dependences," AIAA-2003-0403 at 41st AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2003 DOI 10.2514/6.2003-403
644	M.A. Oehlschlaeger, D.F. Davidson, J.T. Herbon and R.K. Hanson, "Shock Tube Measurements of Branched Alkane Ignition Times and OH Concentration Time Histories," AIAA-2003-0830 at 41st AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2003 DOI 10.2514/6.2003-830
643	F.Y. Zhang, T. Fujiwara, T. Miyaska, E. Nakayama, T. Hattori and R.K. Hanson, "Detonation Studies of High-frequency-operation Pulse Detonation Engine with Air/Hydrogen," AIAA-2003-1169, 41st AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2003 DOI 10.2514/6.2003-1169

Publication list of Ron Hanson

642	W.G. Bessler, C. Schulz, T. Lee, J.B. Jeffries and R.K. Hanson, "UV Laser-induced Fluorescence of Carbon Dioxide in High-pressure Flames," 3rd Joint Meeting of the U.S. Sections of the Comb. Inst., Chicago, IL, Mar. 16-20, 2003.
641	W.G. Bessler, T. Lee, C. Schulz, J.B. Jeffries and R.K. Hanson, "Strategies for Quantitative NO Concentration and Temperature Measurements by NO LIF in High-pressure Flames," 3rd Joint Meeting of the U.S. Sections of the Comb. Inst., Chicago, IL, Mar. 16-20, 2003.
640	J.T.C. Liu, J.B. Jeffries and R.K. Hanson, "Diode Laser Absorption Diagnostics for Measurements in Practical Combustion Flow Fields," AIAA-2003-4581 at 39th AIAA/ASME/SAE/ASEE Joint Propulsion Conf., Huntsville, AL, July 2003 DOI 10.2514/6.2003-4581
639	D.W. Mattison, M.A. Oehlschlaeger, J.B. Jeffries and R.K. Hanson, "Pulse Detonation Tube Characterization using Laser Absorption Spectroscopy," AIAA-2003-4685 at 39th AIAA/ASME/SAE/ASEE Joint Propulsion Conf., Huntsville, AL, July 2003 DOI 10.2514/6.2003-4685
638	S.T. Sanders, D.W. Mattison, J.B. Jeffries and R.K. Hanson, "Time-of-flight Diode-laser Velocimetry using a Locally-seeded Atomic Absorber: Application in a Pulse Detonation Engine," <i>Shock Waves</i> 12 435-441 (2003) DOI 10.1007/s00193-003-0182-5
637	S. Song, D.M. Golden, R.K. Hanson, C.T. Bowman, J.P. Senosiain, C. Musgrave and G. Friedrichs, "A Shock Tube Study of the Reaction $\text{NH}_2 + \text{CH}_4 \rightarrow \text{NH}_3 + \text{CH}_3$ " <i>IJCK</i> 35 304-309 (2003) DOI 10.1002/kin.10131
636	W.G. Bessler, C. Schulz, T. Lee, D.-I. Shin, M. Hofmann, J.B. Jeffries, J. Wolfrum and R.K. Hanson, "Quantitative NO-LIF Imaging in High-pressure Flames," in <i>Optical and Laser Diagnostics</i> , C. Arcoumanis and K.T.V. Grettan, Editors (Inst. of Physics, Bristol, PA, 2003) 177 , 107-114; presented at 1st Int. Conf. on Optical and Laser Diagnostics (ICOLAD), City University, London, 12-16 Dec. 2002.
635	T. Rossmann, M.G. Mungal and R.K. Hanson, "Character of Mach Wave Radiation and Convective Velocity Estimation in Supersonic Shear Layers," AIAA-2002-2571 at 8th AIAA/CEAS Aeroacoustics Conf., Breckenridge, CO, Jun 2002 DOI 10.2514/6.2002-2571
634	D.C. Horning, D.F. Davidson and R.K. Hanson, "Study of the High-Temperature Autoignition of n-Alkane/O ₂ /Ar Mixtures," <i>J. Propul. Power</i> 18 363-371 (2002) DOI 10.2514/2.5942
633	T. Rossmann, M.G. Mungal and R.K. Hanson, "Evolution and Growth of Large-scale Structures in High Compressibility Mixing Layers," <i>J. of Turbulence</i> 3 (9) 1-18 (2002) DOI 10.1088/1468-5248/3/1/009
632	J.D. Koch and R.K. Hanson, "Temperature and Excitation Wavelength Dependences of 3-Pentanone Absorption and Fluorescence for PLIF Applications," <i>App. Phys. B</i> 76 319-324 (2003) DOI 10.1007/s00340-002-1084-4
631	W.G. Bessler, C. Schulz, T. Lee, J.B. Jeffries and R.K. Hanson, "Strategies for Laser-induced Fluorescence Detection of Nitric Oxide in High-pressure Flames: II. A-X (0,1) Excitations," <i>Applied Optics</i> 42 2031-2042 (2003) DOI 10.1364/AO.42.002031
630	T. Rossmann, M.G. Mungal and R.K. Hanson, " Laser-based Diagnostics and Scalar Imaging in High Compressibility Shear Layers ," Symp. on Applications of Laser Diagnostics to Fluid Mechanics, Lisbon, July 2002.
629	W.G. Bessler, C. Schulz, T. Lee, D.-I. Shin, J.B. Jeffries and R.K. Hanson, "Quantitative Temperature Imaging using NO-LIF in Flames at Elevated Pressures (1-60 bar)," contributed abstract to 6th Int. Workshop on Measurement and Computation for Turbulent Non-premixed Flames, Sapporo, Japan, July 2002.
628	M.G. Allen, E.R. Furlong and R.K. Hanson, "Tunable Diode Laser Sensing and Combustion Control," in Applied Combustion Diagnostics , ed. K. Kohse-Höinghaus and J.B. Jeffries, Taylor and Francis, NY, 2002, 479-798.
627	S.T. Sanders, D.W. Mattison, L. Ma, J.B. Jeffries and R.K. Hanson, "Wavelength-Agile Diode Laser Sensing Strategies for Monitoring Gas Properties in Optically Harsh Flows: application in Cesium-seeded Pulse Detonation Engine," <i>Optics Express</i> 10 505-514 (2002) DOI 10.1364/OE.10.000505
626	J.D. Koch and R.K. Hanson, "3-Pentanone Photophysics for PLIF Applications: Temperature Dependences and Limitations," paper 2002-17 at Spring meeting of WSS/CI, La Jolla, Mar. 25-26, 2002.
625	S.H. Song, D.M. Golden, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of Benzylamine Decomposition: Overall Rate Coefficient and Heat of Formation of the Benzyl Radical," <i>J. Phys. Chem. A</i> 106 6094-6098 (2002) DOI 10.1021/jp0200851

Publication list of Ron Hanson

624	S.H. Song, R.K. Hanson, C.T. Bowman and D.M. Golden, "A Shock Tube Study of the Product-branching Ratio of the $\text{NH}_2 + \text{NO}$ Reaction at High Temperatures," paper 2002-067 at Spring meeting of WSS/CI, La Jolla, Mar. 25-26, 2002; <i>J. Phys. Chem. A</i> 106 9233-9235 (2002) DOI 10.1021/jp020943d
623	L. Ma, S.T. Sanders, J.B. Jeffries, E.A. Romo and R.K. Hanson, "Characterization of Fuel Loading in Combustion Systems using Diode-laser Sensors," paper 2002-033 at Spring meeting of WSS/CI, La Jolla, Mar. 25-26, 2002.
622	J.T. Herbon, R.K. Hanson, D.M. Golden and C.T. Bowman, "A Shock Tube Study the Enthalpy of Formation of OH," 29th Symp. (Int.) on Combustion, Sapporo, Japan, July 2002, <i>Proc. Comb. Inst.</i> 29 1201-1208 (2002) DOI 10.1016/S1540-7489(02)80149-3
621	S. Kim, P. Klimecky, J.B. Jeffries, F.L. Terry Jr. and R.K. Hanson, "Diode Laser Sensor to Monitor HCl in a Plasma Etch Reactor," SPIE Conf. on Diode Laser Sensors and Applications, Seattle, July 2002, <i>Proc. SPIE</i> 4817 (2002) DOI 10.1117/12.452073
620	J.B. Jeffries, S.T. Sanders, X. Zhou, L. Ma, D.W. Mattison and R.K. Hanson, "Scanned-wavelength Diode Laser Sensors for Harsh Environments," Diode Lasers and Applications in Atmospheric Sensing, Seattle, July 2002 <i>Proc. SPIE</i> 4817 DOI 10.1117/12.452076
619	D.F. Davidson, M.A. Oehlschlaeger, J.T. Herbon and R.K. Hanson, "Shock Tube Measurements of Iso-Octane Ignition Times and OH Concentration Time Histories," 29th Symp. (Int.) on Combustion, Sapporo, Japan, July 2002; <i>Proc. Comb. Inst.</i> 29 1295-1301 (2002) DOI 10.1016/S1540-7489(02)80159-6
618	S. Song, D.M. Golden, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of the $\text{NH}_2 + \text{NO}_2$ Reaction," 29th Symp. (Int.) on Combustion, Sapporo, Japan, July 2002; <i>Proc. Comb. Inst.</i> 29 2163-2170 (2002) DOI 10.1016/S1540-7489(02)80263-2
617	L. Ma, S.T. Sanders, J.B. Jeffries and R.K. Hanson, "Monitoring and Control of a Pulse Detonation Engine using a Diode-laser Fuel Concentration and Temperature Sensor," 29th Symp. (Int.) on Combustion, Sapporo, Japan, July 2002; <i>Proc. Comb. Inst.</i> 29 161-166 (2002) DOI 10.1016/S1540-7489(02)80025-6
616	R.K. Hanson, "Advanced Laser Diagnostics for Reactive Flows," AIAA-2002-0196 at 40th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2002 DOI 10.2514/6.2002-196
615	W.G. Bessler, C. Schulz, T. Lee, D.-I. Shin, M. Hofmann, J.B. Jeffries, J. Wolfrum and R.K. Hanson, "Quantitative NO-LIF Imaging in High-pressure Flames," <i>App. Phys. B</i> 75 97-102 (2002) DOI 10.1007/s00340-002-0946-0
614	C. Schulz, J.B. Jeffries, J.D. Koch, D.F. Davidson, J. Wolfrum and R.K. Hanson, "Impact of UV Absorption by CO_2 and H_2O on NO LIF in High Pressure Combustion," 29th Symp. (Int.) on Combustion, Sapporo, Japan, July 2002; <i>Proc. Comb. Inst.</i> 29 2735-2742 (2002) DOI 10.1016/S1540-7489(02)80333-9
613	S.T. Sanders, D.W. Mattison, J.B. Jeffries and R.K. Hanson, "Sensors for High-pressure, Harsh Combustion Environments using Wavelength-agile Diode Lasers," 29th Symp. (Int.) on Combustion, Sapporo, Japan, July 2002; <i>Proc. Comb. Inst.</i> 29 2661-2667 (2002) DOI 10.1016/S1540-7489(02)80324-8
612	C. Schulz, J.D. Koch, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "Ultraviolet Absorption Spectra of Shock-heated Carbon Dioxide and Water between 900 and 3050K," <i>Chem. Phys. Letters</i> 355 82-88 (2002) DOI 10.1016/S0009-2614(02)00190-2
611	J.T.C. Liu, R.K. Hanson and J.B. Jeffries, "High-sensitivity Absorption Diagnostic for NO_2 using a Blue Diode Laser," <i>JQSRT</i> 72 (5) 655-664 (2002) DOI 10.1016/S0022-4073(01)00147-9
610	R. K. Hanson, "Tunable Diode Laser Sensing for Combustion Monitoring and Control," invited plenary lecture, Joint Int. Combustion Symp., Kauai, Hawaii, Sept. 10, 2001.
609	R.K. Hanson, "Advanced Laser Diagnostics for Reactive Flows," invited plenary lecture, Int. Conf. on Dynamics of Explosions and Reactive Systems, Seattle, WA, July 31, 2001.
608	R.K. Hanson, "Diode Lasers for Combustion Sensing and Control," invited plenary lecture, Int. Conf. on Tunable Diode Laser Spectroscopy, Zermatt, Switzerland, July 9, 2001.
607	R.K. Hanson, "Laser Diagnostics for Combustion and Propulsion," Distinguished Lecture Series, University of Utah, Feb. 20, 2001.

Publication list of Ron Hanson

606	S.T. Sanders, J.B. Jeffries, J. Wang and R.K. Hanson, "Wavelength-agile Diode Laser Sensors for Monitoring Gas Properties in Harsh Environments," Laser Applications to Chemical and Environmental Analysis, OSA Topical Meeting, Feb. 2002 DOI 10.1364/LACEA.2002.SuB2
605	W.G. Bessler, C. Schulz, D. Shin, T. Lee, J.B. Jeffries and R.K. Hanson, "Strategies for NO Laser-induced Fluorescence in Methane-Air Flames at Pressures between 1 and 60 bar," Laser Applications to Chemical and Environmental Analysis, OSA Topical Meeting, Feb. 2002 DOI 10.1364/LACEA.2002.FB4
604	C. Schulz, J. Gronki, J.D. Koch, D.F. Davidson, J.B. Jeffries and R.K. Hanson, "Temperature-dependent Absorption by CO ₂ : Implications for UV Diagnostics in High-Temperature Flames," Laser Applications to Chemical and Environmental Analysis, OSA Topical Meeting, Feb. 2002 DOI 10.1364/LACEA.2002.FC2
603	W.G. Bessler, C. Schulz, T. Lee, J.B. Jeffries and R.K. Hanson, "Strategies for Laser-induced Fluorescence Detection of Nitric Oxide in High-pressure Flames: I. A-X (0,0) Excitation," <i>Applied Optics</i> 41 3547-3557 (2002) DOI 10.1364/AO.41.003547
602	G. Friedrichs, D.F. Davidson and R.K. Hanson, "Direct Measurements of the Reaction $H + CH_2O \rightarrow H_2 + HCO$ by Means of V-UV Detection of Formaldehyde behind Shock Waves," <i>IJCK</i> 34 374-386 (2002) DOI 10.1002/kin.10059
601	S.T. Sanders, D.W. Mattison, J.B. Jeffries and R.K. Hanson, "Rapid Temperature-Tuning of a 1.4 μm Diode Laser with Application to High Pressure H ₂ O Absorption Spectroscopy," <i>Opt. Lett.</i> 26 1568-1570 (2001) DOI 10.1364/OL.26.001568
600	J.T. Herbon and R.K. Hanson, "Measurements of Collision-shift in Absorption Transitions of the A-X (0,0) Band using a Shock Tube," 23rd Int. Symp. on Shock Waves (ISSW), July 2001.
599	S.T. Sanders, M.M. Thurichengode, L. Ma, D.W. Mattison and R.K. Hanson, " Diode-laser Sensors for Detonation Flows ," 23rd Int. Symp. on Shock Waves (ISSW), July 2001.
598	D.F. Davidson, D.C. Horning, M.A. Oehlschlaeger and R.K. Hanson, "The Decomposition Products of JP-10," AIAA-2001-3707 37th Joint Propulsion Conf., Salt Lake City, (2001) DOI 10.2514/6.2001-3707
597	D.F. Davidson, J. Herbon, D.C. Horning and R.K. Hanson, "OH Concentration Time Histories in n-Alkane Oxidations," <i>IJCK</i> 33 775-783 (2001) DOI 10.1002/kin.10000
596	S. Song, R.K. Hanson, C.T. Bowman and D.M. Golden, "Shock Tube Determination of the Overall Rate of $NH_2 + NO \Rightarrow$ Products in the Thermal De-NO _x Temperature Window," <i>IJCK</i> 33 715-721 (2001) DOI 10.1002/kin.1068
595	D.C. Horning, D.F. Davidson and R.K. Hanson, "Shock Tube Study of the High-Temperature Thermal Decomposition of n-Alkanes," 23rd Symp. (Int.) on Shock Waves, July 2001.
594	D.C. Horning, D.F. Davidson and R.K. Hanson, "Ignition Time Correlations for n-Alkane/O ₂ /Ar Mixtures," 23rd Int. Symp. on Shock Waves (ISSW), July 2001.
593	L. Ma, S.T. Sanders and R.K. Hanson, "Laser-based Fuel Diagnostics for Sensing and Control in Pulse Detonation Engines," AIAA-2002-0609 at 40th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2002 DOI 10.2514/6.2002-609
592	X. Zhou, T. Jenkins, S.T. Sanders, J.B. Jeffries and R.K. Hanson, "Combustion Temperature and H ₂ O Concentration Sensor using a Single Diode Laser," AIAA-2002-0395 at 40th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2002 DOI 10.2514/6.2002-395
591	D.W. Mattison, S.T. Sanders, J.B. Jeffries and R.K. Hanson, "Diode-laser Sensors for Pulse Detonation Engine Applications," AIAA-2002-0471 at 40th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2002 DOI 10.2514/6.2002-471
590	T. Lee, D. Shin, J.B. Jeffries, R.K. Hanson, W.G. Bessler and C. Schulz, "Laser Induced Fluorescence Detection of NO in Methane/Air Flames at Pressures between 1 and 60 bar," AIAA-2002-0399 at 40th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2002 DOI 10.2514/6.2002-399
589	R.W. Bates, D.M. Golden, R.K. Hanson and C.T. Bowman, "Experimental Study and Modeling of the Reaction $H + O_2 + M \Rightarrow HO_2 + M$ (M = Ar, N ₂ , H ₂ O) at Elevated Pressures and Temperatures between 1050 and 1200K," <i>Phys. Chem. Chem. Phys.</i> 3 2337-2342 (2001); Troe birthday issue. DOI 10.1039/b010002i
588	S.T. Sanders, D.W. Mattison, L. Ma and R.K. Hanson, " Diode-laser Sensors for Pulse Detonation Engines ," paper

Publication list of Ron Hanson

	2001-143 at 2001 Joint Meeting of Comb. Inst., Oakland, CA, Mar. 2001.
587	W.G. Bessler, C. Schulz, T. Lee, J.B. Jeffries and R.K. Hanson, " Laser-induced-fluorescence Detection of Nitric Oxide in High-pressure Flames with A-X (0.1) Excitation ," paper 2001-239 at 2001 Joint Meeting of Comb. Inst., Oakland, CA, Mar. 2001.
586	E.L. Petersen and R.K. Hanson, "An Improved Turbulent Boundary-layer Model for Shock Tubes," AIAA-2001-2855 at 31st AIAA Fluid Dynamics Conf., Anaheim, CA, June 2001 DOI 10.2514/6.2001-2855 ; <i>AIAA J.</i> 41 1314-1322 (2003) DOI 10.2514/2.2076
585	R. Claps, D. Leleux, F.V. Englich, F.K. Tittel, M.E. Webber, J.B. Jeffries, R.K. Hanson, J.C. Graf and L.M. Vega, "Infrared Overtone Spectroscopy Measurements of Ammonia and Carbon Dioxide in the Effluent of a Biological Water Processor," 31st Inter. Conf. on Environmental Systems, Soc. Automotive Engineers, paper #190, Orlando, FL, July 2001 DOI 10.4271/2001-01-2159
584	B.J. Kirby and R.K. Hanson, "Linear Excitation Schemes for IR PLIF Imaging of CO and CO ₂ ," <i>Applied Optics</i> 41 1190-1201 (2002) DOI 10.1364/AO.41.001190
583	S. Song, C.T. Bowman, R.K. Hanson and D.M. Golden, "Shock Tube Determination of the Overall Ratio of NH ₂ and NO Products in the Thermal DeNO _x Temperature Window," paper 2001-204 at 2001 Joint Meeting of Comb. Inst., Oakland, CA, Mar. 2001.
582	T. Rossmann, M.G. Mungal and R.K. Hanson, "Acetone PLIF and Schlieren Imaging of High Compressibility Mixing Layers," AIAA-2001-0290 at 39th AIAA Aerospace Sciences Meeting, Reno, Jan. 2001 DOI 10.2514/6.2001-290
581	J.T.C. Liu, R.K. Hanson and J.B. Jeffries, "High-sensitivity Absorption Diagnostic for NO ₂ using a Blue Diode Laser," <i>JQSRT</i> 72 655-664 (2001) DOI 10.1016/S0022-4073(01)00147-9
580	M.E. Webber, D.S. Baer and R.K. Hanson, "Ammonia Monitoring Near 1.5 μm with Diode Laser Absorption Sensors," <i>Applied Optics</i> 40 2031-2042 (2001) DOI 10.1364/AO.40.002031
579	B.J. Kirby and R.K. Hanson, "CO ₂ Imaging with Saturated Planar Laser-induced Vibrational Fluorescence," <i>Applied Optics</i> 40 6130-6144 (2001) DOI 10.1364/AO.40.006136
578	M.E. Webber, R. Claps, F.V. Englich, F.K. Tittel, J.B. Jeffries and R.K. Hanson, "Measurements of NH ₃ and CO ₂ with DFB Lasers near 2 μm in Bioreactor Vent Gases," <i>Applied Optics</i> 40 4395-4403 (2001) DOI 10.1364/AO.40.004395
577	A. Ben-Yakar and R.K. Hanson, "Cavity Flame-holders for Ignition and Flame Stabilization in Scramjets: An Overview," <i>J. Propul. Power</i> 17 869-877 (2001) DOI 10.2514/2.5818
576	M.E. Webber, J. Wang, S.T. Sanders, D.S. Baer, J.B. Jeffries, R.K. Hanson, M. Maiorov, D.Z. Garbuzov and J.C. Connolly, "Measurements of CO, CO ₂ and H ₂ O Combustion Emissions and Flame Temperature using Diode Laser Sensors," ACS National Meeting, Envir. Chem. Symp., Washington, DC, Aug. 20-25, 2000.
575	T. Rossmann, M.G. Mungal and R.K. Hanson, "High Compressibility Mixing Layer Studies in a Shock Tunnel Driven Facility," 23rd Int. Symp. on Shock Waves (ISSW), Arlington, TX, July 2001.
574	A. Ben-Yakar and R.K. Hanson, "Ultra-fast-framing Schlieren System for Studies of the Time Evolution of Jets in Supersonic Crossflows," <i>Expts. Fluids</i> 32 652-666 (2002) DOI 10.1007/s00348-002-0405-z
573	S.T. Sanders, J. Wang, J.B. Jeffries and R.K. Hanson, "VCSEL Absorption Sensor for Line-of-sight Temperature Distributions," <i>Applied Optics</i> 40 4404-4415 (2001) DOI 10.1364/AO.40.004404
572	E.L. Petersen and R.K. Hanson, "Measurements of Reflected Shock Bifurcation in a High-pressure Shock Tube," 23rd Int. Symp. on Shock Waves (ISSW), Arlington, TX, July 2001.
571	T.P. Jenkins, S.T. Sanders, K. Kailasaneth, C. Li and R.K. Hanson, "Diode Laser-based Measurements for Model Validation in Pulse Detonation Flows," paper APS-CS-5A-3 at JANNAF Joint Meeting, Nov. 13-17, 2000, Monterey, CA.
570	J. Wang, J.B. Jeffries, R.K. Hanson, M. Maiorov, D.Z. Garbuzov and J.C. Connolly, "In situ CO Exhaust Measurements using Diode Laser Absorption near 2.3 μm," paper ThCC5 at OSA Annual Meeting, Providence, RI, Oct. 2000.

Publication list of Ron Hanson

569	B.J. Kirby and R.K. Hanson, "Excitation Schemes for Infrared PLIF Imaging of Carbon Dioxide and Methane," paper ThCC3 at OSA Annual Meeting, Providence, RI, Oct. 2000.
568	M.E. Webber, J.B. Jeffries and R.K. Hanson, "Vibration Overtone Spectroscopy of NH ₃ for Industrial Sensors using DFB Diode Lasers," at OSA Annual Meeting, Providence, RI, Oct. 2000.
567	T.P. Jenkins and R.K. Hanson, "Soot Pyrometry using Modulated Absorption/Emission," <i>Comb. and Flame</i> 126 1669-1679 (2001) DOI 10.1016/S0010-2180(01)00278-4
566	P. DeBarber, R.L. McKenzie, R.K. Hanson, J.B. Jeffries and M.E. Webber, "Tunable Diode Laser Sensors for Industrial Combustion Monitoring," presented at 2000 American Flame Research Committee (AFRC) Int. Symp., Irvine, CA, Sept. 2000.
565	J. Wang, S.T. Sanders, J.B. Jeffries and R.K. Hanson, "Oxygen Measurements at High Pressures using Vertical Cavity Surface-emitting Lasers," <i>App. Phys. B.</i> 72 865-872 (2001) DOI 10.1007/s003400100539
564	J.D. Koch and R.K. Hanson, "Ketone Photophysics for Quantitative PLIF Imaging," AIAA-2001-0413 at 39th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2001 DOI 10.2514/6.2001-413
563	J. Wang, M. Maiorov, J.B. Jeffries, D. Z Garbuzov, J.C. Connolly and R.K. Hanson, "A Potential Remote Sensor of CO in Vehicle Exhausts using 2.3 μm Diode Lasers," <i>Meas. Sci. and Tech.</i> 11 1576-1584 (2000) DOI 10.1088/0957-0233/11/11/306
562	M.E. Webber, S. Kim, S.T. Sanders, D.S. Baer, R.K. Hanson and Y. Ikeda, "In situ Combustion Measurements of CO ₂ using a DFB Diode Laser Sensor at 2.0 μm," <i>Applied Optics</i> 40 821-828 (2001) DOI 10.1364/AO.40.000821
561	S.T. Sanders, T.P. Jenkins and R.K. Hanson, "Multiplexed Diode Laser Absorption Sensors for Aeropropulsion Flows," AIAA-2001-0412 at 39th AIAA Aerospace Sciences Meeting, Reno, Jan. 2001 DOI 10.2514/6.2001-412
560	A. Ben-Yakar and R.K. Hanson, "Characterization of Expansion Tube Flows for Hypervelocity Combustion Studies in the Flight Mach 8-13 Engine," <i>J. Propul. Power</i> 18 943-952 (2002) DOI 10.2514/2.6021
559	T.P. Jenkins, S.T. Sanders, J.A. Baldwin, W. Fan, D.S. Baer and R.K. Hanson, "Diode Laser Based Sensors for Pulse Detonation Engine Flows," Int. Colloq. on Control of Detonation Processes, Moscow, July 2000; also in <u>High-speed Deflagration and Detonation: Fundamentals and Control</u> , eds. G.D. Roy, S.M. Frolov, D.W. Netzger and A.A. Borisov (Moscow: Elex-KM Publ., ISBN 5-93815-003-5), 273-288 (2000).
558	C.T. Bowman and R.K. Hanson, "Shock Tubes and Lasers: New Opportunities for High Temperature Kinetics Studies," Invited Plenary Lecture, 16th Inter. Symp. on Gas Kinetics, Cambridge, UK, July 2000.
557	S.I. Chou, D.S. Baer, R.K. Hanson, W.Z. Collison and T. Q. Ni, "HBr Concentration and Temperature Measurements in a Plasma Etch Reactor using Diode Laser Absorption Spectroscopy," <i>J. Vac. Sci. and Tech. B</i> 19 477-484 (2001) DOI 10.1116/1.1342863
556	J. Wang, M.E. Webber, S.T. Sanders, D.S. Baer, J.B. Jeffries and R.K. Hanson, "In situ Measurements of CO, CO ₂ , H ₂ O Combustion Emissions with Diode Laser Sensors," EPA / Air and Waste Management Association Symp., Research Triangle Park, NC, Sept. 12-14, 2000.
555	S.I. Chou, D.S. Baer and R.K. Hanson, "High Resolution Measurements of HBr Transitions in the First Overtone Band using Tunable Diode Lasers," <i>J. Molec. Spectroscopy</i> 200 138-142 (2000) DOI 10.1006/jmsp.1999.8038
554	J. Wang, M. Maiorov, D.S. Baer, D.Z. Garbuzov, J.C. Connolly and R.K. Hanson, "In situ Measurements of CO using Diode Laser Absorption near 2.3 μm," <i>Applied Optics</i> 39 (30) 5579-5589 (2000) DOI 10.1364/AO.39.005579
553	B.J. Kirby and R.K. Hanson, "Infrared PLIF Imaging of CO and CO ₂ ," <i>Proc. Comb. Inst.</i> 28 253-259 (2000) DOI 10.1016/S0082-0784(00)80218-0
552	M.E. Webber, J. Wang, S.T. Sanders, D.S. Baer and R.K. Hanson, "In situ Combustion Measurements of CO, CO ₂ , H ₂ O and Temperature using Diode Laser Absorption Sensors" <i>Proc. Comb. Inst.</i> 28 407-413 (2000) DOI 10.1016/S0082-0784(00)80237-4
551	S.T. Sanders, J.A. Baldwin, T.P. Jenkins, D.S. Baer and R.K. Hanson, "Diode-laser Sensor for Monitoring Multiple Combustion Parameters in Pulse Detonation Engines," <i>Proc. Comb. Inst.</i> 28 587-594 (2000) DOI 10.1016/S0082-0784(00)80258-1
550	S. Song, R.K. Hanson, C.T. Bowman and D.M. Golden, "Shock Tube Determination of the Overall Rate of NH ₂ +

Publication list of Ron Hanson

	NO → Products at High Temperatures,” <i>Proc. Comb. Inst.</i> 28 2403-2409 (2000) DOI 10.1016/S0082-0784(00)80653-0
549	D.F. Davidson, D.C. Horning, J.T. Herbon and R.K. Hanson, “Shock Tube Measurements of JP-10 Ignition,” <i>Proc. Comb. Inst.</i> 28 1687-1692 (2000) DOI 10.1016/S0082-0784(00)80568-8
548	G. Totschnig, D.S. Baer, J. Wang, F. Winter, H. Hofbauer and R.K. Hanson, “Multiplexed Continuous-wave Diode-laser Cavity Ringdown Measurements of Multiple Species,” <i>Applied Optics</i> 39 2009-2016 (2000) DOI 10.1364/AO.39.002009
547	S.T. Sanders, J.A. Baldwin, D.S. Baer and R.K. Hanson, “Diode Laser Sensor System for Multi-parameter Measurements in Pulse Detonation Engine Flows,” AIAA-2000-3593 at AIAA/ASME/SAE/ASEE Joint Propulsion Conf., Huntsville, AL, July 2000 DOI 10.2514/6.2000-3593
546	T.P. Jenkins and R.K. Hanson, “Soot Diagnostics for Pulse Detonation Engine Studies,” AIAA-2000-3588 at AIAA/ASME/SAE/ASEE Joint Propulsion Conf., Huntsville, AL, July 2000 DOI 10.2514/6.2000-3588
545	M.E. Webber, S. Kim, D.S. Baer and R.K. Hanson, “ <i>In situ</i> Combustion Diagnostics using Diode Laser Absorption Sensors,” Laser Applications to Chemical and Environmental Analysis (LACEA), Santa Fe, NM, Feb., 2000 DOI 10.1364/LACEA.2000.SuA5
544	F. A. Williams, R.K. Hanson and C. Segal, “Fundamental Investigations of Pulsed Detonation Phenomena,” JANNAF 36th CS/APS/PSHS Joint Meeting, Orlando, FL, Oct. 18-22, 1999.
543	T. Rossmann, M.G. Mungal and R.K. Hanson, “An Experimental Investigation of High Compressibility Non-reacting Mixing Layers,” AIAA-2000-0663 at 38th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2000 DOI 10.2514/6.2000-663
542	S.T. Sanders, T.P. Jenkins, D.S. Baer and R.K. Hanson, “Diode-laser Absorption Sensor for Measurements in Pulse Detonation Engines,” paper 38th AIAA-2000-0358 at AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2000 DOI 10.2514/6.2000-358
541	M.E. Webber, S. Kim, D.S. Baer and R.K. Hanson, “ <i>In situ</i> Combustion Measurements of CO ₂ using Diode Laser Sensors Near 2.0 μm,” AIAA-2000-0775 at 38th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2000 DOI 10.2514/6.2000-775
540	J. Wang, M. Maiorov, D.S. Baer, D.Z. Garbuzov, J.C. Connolly and R.K. Hanson, “ <i>In Situ</i> Combustion Measurements of CO using Diode-laser Absorption near 2.3 μm,” AIAA-2000-0255 at 38th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2000 DOI 10.2514/6.2000-255
539	T.P. Jenkins and R.K. Hanson, “A Soot Temperature Diagnostic using Two-color Combining Flame Emission and Modulated Laser Absorption,” AIAA-2000-0953 at 38th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2000 DOI 10.2514/6.2000-953
538	B.J. Kirby and R.K. Hanson, “Dual-camera Infrared PLIF Imaging of CO and CO ₂ ,” AIAA-2000-0640 at 38th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 2000 DOI 10.2514/6.2000-640
537	B.J. Kirby and R.K. Hanson, “Planar Laser-induced Fluorescence Imaging of Carbon Monoxide using Vibrational (Infrared) Transitions,” <i>App. Phys. B</i> 69 (1999) 505-507 DOI 10.1007/s003400050843
536	T. P. Parr and R.K. Hanson, “Combustion Diagnostics,” in <i>Propulsion Combustion: Fuels to Emissions</i> , Chap. 9, 281-320 (G. D. Roy, ed), Taylor and Francis, Washington, DC (1998).
535	S.I. Chou, D.S. Baer and R.K. Hanson, “Diode-laser Measurements of He-, Ar- and N ₂ -broadened HF Lineshapes in the First Overtone Band,” <i>J. Mol. Spectroscopy</i> 196 70-76 (1999) DOI 10.1006/jmsp.1999.7847
534	D.S. Baer, S.T. Sanders, S.D. Wehe and R.K. Hanson, “Diode-laser Absorption Sensors for Real-time <i>in situ</i> Measurements,” invited presentation at OSA Annual Meeting, Santa Clara, CA, Oct., 1999.
533	D.F. Davidson and R.K. Hanson, “Measurement Techniques and Diagnostics: 5.2 Spectroscopic Diagnostics,” in <i>Handbook of Shock Waves</i> , Vol. 1, Chapter 5.2, Academic Press, eds. G. Ben-Dor, O. Igra and T. Elperin, 2001 DOI 10.1016/B978-012086430-0/50018-X
532	E.L. Petersen and R.K. Hanson, “Nonideal Effects behind Reflected Shock Waves in a High-pressure Shock Tube,” <i>Shock Waves</i> 10 405-420 (2001) DOI 10.1007/PL00004051

Publication list of Ron Hanson

531	M. Votsmeier, S. Song, D.F. Davidson and R.K. Hanson, "Sensitive Detection of NH ₂ in Shock Tube Experiments using Frequency Modulation Spectroscopy," <i>IJCK</i> 31 445-453 (1999) <a href="https://doi.org/10.1002/(SICI)1097-4601(1999)31:6<445::AID-KIN6>3.0.CO;2-4">DOI 10.1002/(SICI)1097-4601(1999)31:6<445::AID-KIN6>3.0.CO;2-4
530	V. Nagali, J.T. Herbon, D.C. Horning, D.F. Davidson and R.K. Hanson, "Shock Tube Study of High-pressure H ₂ O Spectroscopy," <i>Applied Optics</i> 38 6942-6950 (1999) DOI 10.1364/AO.38.006942
529	E.L. Petersen, D.F. Davidson and R.K. Hanson, "Ignition Delay Times of Ram Accelerator CH ₄ /O ₂ /Diluent Mixtures," <i>J. Propul. Power</i> 15 82-91 (1999) DOI 10.2514/2.5394
528	B.J. Kirby and R.K. Hanson, "Infrared PLIF Imaging of CO and CO ₂ ," AIAA-1999-0775 at 37th AIAA Aerospace Sciences Meeting, Jan. 1999, Reno, NV DOI 10.2514/6.1999-775
527	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Diode-laser Absorption Measurements of CO ₂ near 2.0 μm at Elevated Temperatures," <i>Applied Optics</i> 37 8341-8347 (1998) DOI 10.1364/AO.37.008341
526	M.C. Thurber and R.K. Hanson, "Pressure and Composition Dependence of Acetone Laser-induced Fluorescence with Excitation at 248, 266 and 308 nm," <i>App. Phys. B</i> 69 (1999) 229-240 DOI 10.1007/s003400050799
525	K. Toshimitsu, A. Matsuo, M.R. Kamel, C.I. Morris and R.K. Hanson, "Comparison of Numerical Simulations and PLIF Imaging Results of Hypersonic Inert and Reactive Flows around Blunt Projectiles," <i>J. Propul. Power</i> 16 (2000) 16-21 DOI 10.2514/2.5558
524	S.D. Wehe, D.S. Baer and R.K. Hanson, "Diode-laser Sensor for Velocity Measurements in Hypervelocity Flows," <i>AIAA J.</i> 37 1013-1015 (1999) DOI 10.2514/2.7565
523	M.C. Thurber and R.K. Hanson, "Simultaneous Imaging of Temperature and Mole Fraction using Acetone Laser-induced Fluorescence," <i>Expts. Fluids</i> 30 93-101 (2001) DOI 10.1007/s003480000142
522	E.L. Petersen and R.K. Hanson, " Nonideal Effects behind Reflected Shock Waves in a High-pressure Shock Tube ," Proc. of Joint Meeting of U.S. Comb. Inst. Sections, 625-627, Washington, DC (1999).
521b	M.A. Maiorov, J. Wang, D.S. Baer, H. Lee, G.L. Belenky, R.K. Hanson, J.C. Connolly and D.Z. Garbuzov, "New room temperature CW InGaAsSb/AlGaAsSb QW ridge diode lasers and their application to CO measurements near 2.3 μm," <i>Proc. SPIE</i> 3855 , Air Monitoring and Detection of Chemical and Biological Agents II, 62 (Nov. 30, 1999); DOI 10.1117/12.371275
521a	D.F. Davidson, D.C. Horning, R.K. Hanson and B. Hitch, "Shock Tube Ignition Time Measurements for <i>n</i> -heptane/O ₂ /Ar with and without Additives," 22nd Int. Shock Tube and Shock Wave Symp., London, UK, June 1999.
520	S.D. Wehe, D.S. Baer, R.K. Hanson and K.M. Chadwick, "Gas Temperature and Velocity Measurements in Hypervelocity Flows using Diode-laser Absorption Sensors," 22nd Int. Shock Tube and Shock Wave Symp., London, UK, June 1999.
519	D.F. Davidson, D.C. Horning and R.K. Hanson, "Shock Tube Ignition Time Measurements for <i>n</i> -heptane/O ₂ /Ar and JP-10/O ₂ /Ar Mixtures," AIAA-1999-2216, at 35th Joint Propulsion Conf., Los Angeles, CA, July 1999 DOI 10.2514/6.1999-2216
518	S. Song, M. Votsmeier, R.K. Hanson, C.T. Bowman and D.M. Golden, "Shock Tube Study of the Reaction NH ₂ + NO → Products using Frequency Modulation Detection of NH ₂ : Product Branching Ratio and Overall Rate Coefficient," Proc. of Joint Meeting of U.S. Comb. Inst. Sections, 645-648, Washington, DC (Mar. 1999).
517	R.W. Bates, R.K. Hanson, C.T. Bowman and D.M. Golden, "Shock Tube Study of the H + O ₂ + M → HO ₂ + M (M = Ar, N ₂ , H ₂ O) Reaction at Elevated Pressures for Temperatures between 1050-1200K," Proc. of Joint Meeting of U.S. Comb. Inst. Sections, 629-632, Washington, DC (Mar. 1999).
516	D.F. Davidson, B. Hitch, D.C. Horning and R.K. Hanson, "Shock Tube Ignition Time Measurements for <i>n</i> -Heptane/Oxygen/Argon Mixtures with and without Additives," Proc. of Joint Meeting of U.S. Comb. Inst. Sections, 105-108, Washington, DC (Mar. 1999).
515	E.R. Furlong, D.S. Baer, R.M. Mihalcea, M.E. Webber and R.K. Hanson, "Advanced Diode-laser Absorption Sensors for Combustion Monitoring and Control," Proc. of Joint Meeting of U.S. Comb. Inst. Sections, 865-869, Washington, DC (1999).
514	K. Toshimitsu, A. Matsuo, M.R. Kamel, C.I. Morris and R.K. Hanson, "Comparison of Numerical Simulations and

Publication list of Ron Hanson

	PLIF Imaging Results of Hypersonic Inert and Reactive Flows around Blunt Projectiles,” in <i>Ram Accelerators</i> , K. Takayama and A. Sasoh, eds., Springer Press, 235-242 (1998) DOI 10.1007/978-3-642-46876-6_23
513	R.K. Hanson, D.S. Baer, C. Morris, M.C. Thurber, E. Furlong and S.D. Wehe, “Recent Advances in Laser-based Diagnostics for Gaseous Flows,” invited plenary paper, SPIE/VSJ, Yokohama, Dec. 7-9, 1998; also <i>J. Visualization</i> 2 (3/4) (2000) DOI 10.1007/BF03181447
512	R.M. Mihalcea, M.E. Webber, D.S. Baer and R.K. Hanson, “Diode Laser Sensor for Combustion Emissions Monitoring,” SPIE/VSJ, Yokohama, Dec. 7-9, 1998.
511	D.S. Baer and R.K. Hanson, “Diode Laser Sensors for Combustion Measurements and Control,” in <i>Advances in Chemical Propulsion</i> , G. D. Roy, ed., Taylor & Francis (1998).
510	E.R. Furlong, R.M. Mihalcea, M.E. Webber, D. S Baer and R.K. Hanson, “Diode Laser Sensors for Real-Time Control of Pulsed Combustion Systems,” <i>AIAA J.</i> 37 732-737 (1999) DOI 10.2514/2.781
509	M. Votsmeier, S. Song, R.K. Hanson and C.T. Bowman, “A Shock Tube Study of the Product Branching Ratio for the Reaction $\text{NH}_2 + \text{NO}$ using Frequency-modulation Detection of NH_2 ,” <i>J. Phys. Chem. A</i> 1566-1571 (1999) DOI 10.1021/jp983613v
508	V. Nagali, D.F. Davidson and R.K. Hanson, “Measurements of Temperature-dependent Argon-broadened Half-widths of H_2O Transitions in the 7117 cm^{-1} Region,” <i>JQSRT</i> 64 651-655 (2000) DOI 10.1016/S0022-4073(99)00160-0
507	S.I. Chou, D.S. Baer and R.K. Hanson, “Spectral Intensity and Lineshape Measurements in the First Overtone Band of HF using Tunable Diode Lasers,” <i>J. Mol. Spectroscopy</i> 195 123-131 (1999) DOI 10.1006/jmsp.1999.7805
506	E.L. Petersen and R.K. Hanson, “Reduced Kinetic Mechanisms for Ram Accelerator Combustion,” <i>J. Propul. Power</i> 15 (1999) 591-600 DOI 10.2514/2.5468
505	M. Votsmeier, S. Song, D.F. Davidson and R.K. Hanson, “Shock Tube Study of Monomethylamine Thermal Decomposition and NH_2 High Temperature Absorption Coefficient,” <i>IJCK</i> 31 323-330 (1999) <a href="https://doi.org/10.1002/(SICI)1097-4601(1999)31:5<323::AID-KIN1>3.0.CO;2-X">DOI 10.1002/(SICI)1097-4601(1999)31:5<323::AID-KIN1>3.0.CO;2-X
504	M.E. Webber, R.M. Mihalcea, D.S. Baer, R.K. Hanson, J. Segall and P.A. DeBarber, “Diode-laser Absorption Measurements of Hydrazine and Monomethylhydrazine,” <i>JQSRT</i> 62 511-522 (1999) DOI 10.1016/S0022-4073(98)00121-6
503	A. Ben-Yakar and R.K. Hanson, “Stability and Self-Ignition of Cross-flow Jets and the Influence of Cavity Flameholders in Supersonic Combustion,” AIAA-1999-0484 at 37th AIAA Aerospace Sciences Meeting, Jan., 1999, Reno, NV DOI 10.2514/6.1999-484
502	V. Nagali, J. Herbon, D. Horning, R. Bates, D. Davidson and R.K. Hanson, “Diode-laser Based Diagnostic to Monitor Water-vapor in High-pressure Environments,” AIAA-1999-0942 at 37th AIAA Aerospace Sciences Meeting, Jan., 1999, Reno, NV DOI 10.2514/6.1999-942
501	T. Rossmann, M.G. Mungal and R.K. Hanson, “A New Facility for High Compressibility Mixing Layer Studies,” AIAA-1999-0415 at 37th AIAA Aerospace Sciences Meeting, Jan., 1999, Reno, NV DOI 10.2514/6.1999-415
500	R.M. Mihalcea, M.E. Webber, D.S. Baer, R.K. Hanson, G.S. Feller, W. B. Chapman, “Diode-laser absorption measurements of CO_2 , H_2O , N_2O and NH_3 ,” <i>App. Phys. B</i> 67 283–288 (1998) DOI 10.1007/s003400050507
499	R.W. Bates, R.K. Hanson, C.T. Bowman and D.M. Golden, “Measurement of the Third-body Efficiency of Water for the $\text{H} + \text{O}_2 + \text{M} \rightarrow \text{HO}_2 + \text{M}$ Reaction at 35 atm and 1200 K,” poster at 27th Symp. (Int.) on Combustion, Aug., 1998, Boulder, CO.
498	S.D. Wehe, D.S. Baer and R.K. Hanson, “Measurements of Gas Temperature and Velocity in High Enthalpy Flows using a Diode Laser Absorption Sensor,” 1998 OSA Annual Meeting, Oct., 1998, Baltimore, MD
497	E.R. Furlong, R.M. Mihalcea, M.E. Webber, D.S. Baer and R.K. Hanson, “Advanced Diode-laser Sensors for Closed-loop Control of a Forced-vortex Combustor,” 1998 OSA Annual Meeting, Oct., 1998, Baltimore, MD.
496	D.S. Baer, E.R. Furlong, R.M. Mihalcea and R.K. Hanson, “Advanced Diode-laser Absorption Sensors for Combustion Monitoring and Control,” invited paper 3535-02, SPIE Symp. on Industrial and Environmental Monitors and Biosensors, Nov. 1-6, 1998, Boston, MA, <i>Proc. SPIE.</i> 3535 DOI 10.1117/12.337462

Publication list of Ron Hanson

495	C.I. Morris, M.R. Kamel and R.K. Hanson, "Investigation of Shock-induced Combustion in Hypersonic Wedge Flows," WSS/CI paper 98S-60, Mar. 23-24, 1998, Berkeley, CA.
494	A. Ben-Yakar, M.R. Kamel, C. Morris and R.K. Hanson, "Experimental Investigation of Hydrogen-Air Autoignition and Flame Stabilization in Hypervelocity Flows," WSS/CI paper 98S-40, Mar. 23-24, 1998, Berkeley, CA.
493	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Advanced Diode Laser Absorption Sensor for <i>in situ</i> Combustion Measurements of CO ₂ , H ₂ O and Temperature," WSS/CI paper 98S-21, Mar. 23-24, 1998, Berkeley, CA.
492	C.I. Morris, M.R. Kamel, A. Ben-Yakar and R.K. Hanson, "Combined Schlieren and OH PLIF Imaging Study of Ram Accelerator Flowfields," AIAA-1998-0244 at 36th AIAA Aerospace Sciences Meeting, Jan. 12-15, 1998, Reno, NV DOI 10.2514/6.1998-244
491	M.E. Webber, R.M. Mihalcea, D.S. Baer, R.K. Hanson, J. Segall and P. DeBarber, "Diode Laser Absorption Measurements of Hydrazine and Monomethylhydrazine," AIAA-1998-0400 at 36th AIAA Aerospace Sciences Meeting, Jan. 12-15, 1998, Reno, NV DOI 10.2514/6.1998-400
490	E.R. Furlong, D.S. Baer and R.K. Hanson, "Real-Time Adaptive Combustion Control using Diode-laser Absorption Sensors," WSS/CI paper 98S-9, Mar. 1998, Berkeley, CA.
489	E.F. Hasselbrink, M.G. Mungal and R.K. Hanson, "Simultaneous PIV and PLIF Measurements in Nonpremixed Transverse Jet Flames," 9th Int. Symp. on Applications of Laser Techniques to Fluid Mechanics, July 13-16, 1998, Lisbon, Portugal.
488	A. Ben-Yakar and R.K. Hanson, "Experimental Investigation of Flame-holding Capability of Hydrogen Transverse Jet in Supersonic Cross-flow," 27th Symp. (Int.) on Combustion, The Comb. Inst., 2173-2180 (1998) DOI 10.1016/S0082-0784(98)80066-0
487	C.I. Morris, M.R. Kamel and R.K. Hanson, "Shock-induced Combustion in High-speed Wedge Flows," 27th Symp. (Int.) on Combustion, The Comb. Inst., 2157-2164 (1998) DOI 10.1016/S0082-0784(98)80064-7
486	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Advanced Diode Laser Absorption Sensor for <i>in situ</i> Combustion Measurements of CO ₂ , H ₂ O and Temperature," 27th Symp. (Int.) on Combustion, The Comb. Inst., 95-101 (1998) DOI 10.1016/S0082-0784(98)80394-9
485	E.R. Furlong, D.S. Baer and R.K. Hanson, "Real-Time Adaptive Combustion Control using Diode-laser Absorption Sensors," 27th Symp. (Int.) on Combustion, The Comb. Inst., 103-111 (1998) DOI 10.1016/S0082-0784(98)80395-0
484	F. Grisch, M.C. Thurber and R.K. Hanson, "Mesure de Température par Fluorescence Induite par Laser sur la Moléculaire d'Acétone," <i>Revue Scientifique et Technique de la Défense</i> 4 51-60 (1997).
483	R.M. Mihalcea, D.S. Baer, R.K. Hanson and G.S. Feller, "Diode-laser Absorption Measurements of CO ₂ , H ₂ O and N ₂ O near 2 μm," paper at OSA LACEA (Laser App. to Chem. Envir. Analysis), Mar. 1998, Orlando, FL.
482	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Diode-laser Sensing System for Combustion Monitoring," paper at OSA LACEA (Laser App. to Chem. Envir. Analysis), Mar. 1998, Orlando, FL.
481	G.S. Feller, I-F. Wu, T. Day, R.J. Menna, R.U. Martinelli, J.C. Connolly, R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Continuously Tunable, Single Mode, External Cavity Diode Lasers at 2 μm," paper at OSA LACEA (Laser App. to Chem. Envir. Analysis) Meeting, Mar. 1998, Orlando, FL.
480	E.R. Furlong, D.S. Baer and R.K. Hanson, "Diode-laser Sensors for Real-Time Control of Temperature and H ₂ O in Pulsed Combustion Systems," AIAA-1998-3949 at 34th AIAA/ASME/SAE/ASEE Joint Propulsion Conf., July 13-15, 1998, Cleveland, OH DOI 10.2514/6.1998-3949
479	S.D. Wehe, D.S. Baer and R.K. Hanson, "Measurements of Gas Temperature and Velocity in Hypervelocity Flows using a Diode-laser Absorption Sensor," AIAA-1998-2699 at 20th AIAA Advanced Measurement and Ground Testing Conf., June 15-18, 1998, Albuquerque, NM DOI 10.2514/6.1998-2699
478	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Combustion Emissions Measurements using Diode-laser Absorption Sensors," AIAA-1998-3948 at 34th AIAA Joint Propulsion Conf., July 13-15, 1998, Cleveland, OH DOI 10.2514/6.1998-3948
477	A. Ben-Yakar, M.R. Kamel, C. Morris and R.K. Hanson, "Cavity Flame-holders for Ignition and Flame Stabilization in Scramjets: A Review and an Experimental Study," AIAA-1998-3122 at 34th AIAA Joint Propulsion Conf., July

Publication list of Ron Hanson

	13-15, 1998, Cleveland, OH DOI 10.2514/6.1998-3122
476	M.C. Thurber, F. Grisch, B. J. Kirby, M. Votsmeier and R.K. Hanson, "Measurement and Modeling of Acetone Laser-induced Fluorescence with Implications for Temperature Imaging Diagnostics," <i>Applied Optics</i> 37 4963-4978 (1998) DOI 10.1364/AO.37.004963
475	J.L. Palmer and R.K. Hanson, "Application of Method of Characteristics to Underexpanded, Free-Jet Flows with Vibrational Nonequilibrium," <i>AIAA J.</i> 36 193-200 (1998) DOI 10.2514/2.7501
474	E.F. Hasselbrink, M.G. Mungal and R.K. Hanson, "Simultaneous Planar Velocity Measurements and OH Imaging in a Transverse Jet Flame," <i>J. Visualization</i> 1 65-77 (1998) DOI 10.1007/BF03182475
473	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Diode-laser Absorption Sensor System for Combustion Emission Measurements," <i>J. Meas. Sci. and Tech.</i> 9 327-338 (1998) DOI 10.1088/0957-0233/9/3/004
472	M.R. Kamel, C.I. Morris, A. Ben-Yakar and R.K. Hanson, "Experimental Investigation of Hypersonic Reactive Flows around Axisymmetric Blunt Bodies," AIAA-1997-3177 at 33rd Joint Propulsion Conf., July 7-9, 1997, Seattle, WA. DOI 10.2514/6.1997-3177
471	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Diode-laser Absorption Sensor System for Combustion Monitoring and Control Applications," AIAA-1997-3356 at 33rd Joint Propulsion Conf., July 7-9, 1997, Seattle, WA DOI 10.2514/6.1997-3356
470	C.I. Morris, "PLIF and Schlieren Imaging of Oblique Detonation Waves," Proc. of the 21st Int. Symp. on Shock Tubes and Waves, July 20-25, 1997, Australia.
469	R.K. Hanson, "Advanced Laser-based Diagnostics for Shock Tube/Tunnel Flows," plenary paper, Proc. of the 21st Int. Symp. on Shock Tubes and Waves, held July 20-25, 1997, Australia.
468	S.D. Wehe, D.S. Baer and R.K. Hanson, "Tunable Diode-laser Absorption Measurements of Temperature, Velocity and H ₂ O in Hypersonic Flows," AIAA-1997-3267 at 33rd Joint Propulsion Conf., July 7-9, 1997, Seattle, WA DOI 10.2514/6.1997-3267
467	B.J. Kirby and R.K. Hanson, "Infrared PLIF Imaging of Gaseous Flows," AIAA-1998-0307 at 36th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 12-15, 1998 DOI 10.2514/6.1998-307
466	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Advanced Diode Laser Absorption Sensor for <i>in situ</i> Combustion Measurements of CO ₂ , H ₂ O and Gas Temperature," AIAA 98-0237 at 36th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 12-15, 1998 DOI 10.2514/6.1998-237
465	A. Ben-Yakar, M.R. Kamel, C.I. Morris and R.K. Hanson, "Hypersonic Combustion and Mixing Studies using Simultaneous OH-PLIF and Schlieren Imaging," AIAA-1998-0940 at 36th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 12-15, 1998 DOI 10.2514/6.1998-940
464	M.C. Thurber, B.J. Kirby and R.K. Hanson, "Instantaneous Imaging of Temperature and Mixture Fraction with Dual-wavelength Acetone PLIF," AIAA-1998-0397 at 36th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 12-15, 1998 DOI 10.2514/6.1998-397
463	E.R. Furlong, R.M. Mihalcea, M.E. Webber, D.S. Baer and R.K. Hanson, "Diode-laser Sensor System for Closed-loop Control of a 50-kW Incinerator," <i>Proc. SPIE</i> 3172 , paper 33; presented at 42nd annual SPIE meeting, San Diego, July, 1997 DOI 10.1117/12.293398
462	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Diode-laser Absorption Sensor System for Measurements of Combustion Pollutants," <i>Proc. SPIE</i> 3172 , paper 10, presented at 42nd annual SPIE Meeting, San Diego, July, 1997 DOI 10.1117/12.293387
461	D.F. Davidson, R. Bates, E.L. Petersen and R.K. Hanson, "Shock Tube Measurements of the Equation of State of Argon," 13 th Symp. on Thermophysical Properties, Boulder, June 22-27, 1997; also <i>Int. J. Thermophysics</i> 19 1585-1594 (1998) DOI 10.1007/BF03344910
460	V. Nagali and R.K. Hanson, "Design of a Diode-laser Sensor to Monitor Water Vapor in High-pressure Combustion Gases," <i>Applied Optics</i> 36 9518-9527 (1997) DOI 10.1364/AO.36.009518
459	C.T. Bowman, R.K. Hanson, W.C. Gardiner, V. Lissianski, M. Frenklach, M. Goldenberg, G.P. Smith and D.M. Golden, "An Optimized Chemical Mechanism for Natural Gas Combustion: Nitrogen Chemistry," AICHE 1997

Publication list of Ron Hanson

	Annual Meeting.
458	E.L. Petersen, D.F. Davidson and R.K. Hanson, "Kinetics Modeling of Shock-induced Ignition in Low-dilution CH ₄ /O ₂ Mixtures at High Pressures and Intermediate Temperatures," WSS/CI paper 97S-066, Livermore, CA, Apr. 14-15, 1997; also <i>Comb. and Flame</i> 117 272-290 (1999) DOI 10.1016/S0010-2180(98)00111-4
457	D. Woiki, M. Votsmeier, D.F. Davidson, R.K. Hanson and C.T. Bowman, "CH-Radical Concentration Measurements in Fuel Rich CH ₄ /O ₂ /Ar and CH ₄ /O ₂ /NO/Ar Mixtures behind Shock Waves," <i>Comb. and Flame</i> 113 624-626 (1998) DOI 10.1016/S0010-2180(97)00265-4
456	M.R. Kamel, C. I Morris, A. Ben-Yakar, E.L. Petersen and R.K. Hanson, "Experimental Investigation of Ram-accelerator Flow Fields and Combustion Kinetics," in <i>Ram Accelerators</i> , K. Takayama and A. Sasoh, eds., Springer Press, 281-294 (1998) DOI 10.1007/978-3-642-46876-6_28
455	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Diode-laser Sensor for Measurements of CO, CO ₂ and CH ₄ in Combustion Flows," <i>Applied Optics</i> 36 8745-8752 (1997) DOI 10.1364/AO.36.008745
454	M. Röhrig, E.L. Petersen, D.F. Davidson, R.K. Hanson and C.T. Bowman, "Measurement of the Rate Coefficient of the Reaction CH + O ₂ → Products in the Temperature Range 2200 to 2600 K," <i>IJCK</i> 29 781-789 (1997) <a href="https://doi.org/10.1002/(SICI)1097-4601(1997)29:10<781::AID-KIN7>3.0.CO;2-I">DOI 10.1002/(SICI)1097-4601(1997)29:10<781::AID-KIN7>3.0.CO;2-I
453	R.J. Cedolin, W.A. Hargus Jr., P.V. Storm, R.K. Hanson and M.A. Cappelli, "Laser-induced Fluorescence Study of a Xenon Hall Thruster," <i>App. Phys. B</i> 65 459-469 (1997) DOI 10.1007/s003400050297
452	R.K. Hanson, "Recent Advances in Laser-based Combustion Diagnostics," AIAA-1997-0115 at 35th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1997 DOI 10.2514/6.1997-115
451	A. Ben-Yakar, M.R. Kamel, C. Morris and R.K. Hanson, "Experimental Investigation of H ₂ Transverse Jet Combustion in Hypervelocity Flows," AIAA-1997-3019 at AIAA 33rd Joint Propulsion Conf., July 7-9, 1997, Seattle, WA DOI 10.2514/6.1997-3019
450b	E.R. Furlong, R.M. Mihalcea, M.E. Webber, D.S. Baer. R.K. Hanson, T.P. Parr, "Diode laser sensor system for closed-loop control of a 50-kw incinerator," <i>Proc. SPIE</i> 3172 , Optical Technology in Fluid, Thermal, and Combustion Flow III, 324 (Nov. 21, 1997) DOI 10.1117/12.293398
450a	E.R. Furlong, R.M. Mihalcea, M.E. Webber, D.S. Baer and R.K. Hanson, "Diode Laser Sensor System for Closed-loop Control of a 50-kW Incinerator," AIAA-1997-2833 at 33rd Joint Propulsion Conf., July 7-9, 1997, Seattle, WA DOI 10.2514/6.1997-2833
449	E.L. Petersen, R.W. Bates, D.F. Davidson and R.K. Hanson, "Development of Laser-absorption Techniques for Shock Tube Studies at Elevated Pressures," Proc. of the 21st Int. Symp. on Shock Tubes and Waves, held July 20-25, 1997, Australia.
448	E.L. Petersen and R.K. Hanson, "Toward a Reduced Kinetics Mechanism for Methane-based Ram Accelerator Combustion," AIAA-1997-2892 at 33rd Joint Propulsion Conf., July 7-9, 1997, Seattle, WA DOI 10.2514/6.1997-2892
447b	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Multiplexed Diode Laser Sensor System for Measurements of CO, CO ₂ , CH ₄ and H ₂ O in Combustion Flows," Proc. of Symp. on Optical Sensing for Environment and Process Monitoring, Air & Waste Management Association, Dallas, Nov. 6-8, 1996.
447a	D.S. Baer, E.R. Furlong and R.K. Hanson, "Real-time process control using diode laser absorption sensors," <i>Proc. SPIE</i> 2834 , Application of Tunable Diode and Other Infrared Sources for Atmospheric Studies and Industrial Process Monitoring, 205. (Oct. 21, 1996) DOI 10.1117/12.255327
446	E.R. Furlong, D.S. Baer and R.K. Hanson, "Combustion Control using an Advanced Multiplexed Diode-laser Sensor System," paper 96F-081 at WSS/CI Fall Meeting, Los Angeles, Oct. 28-29, 1996.
445	E.R. Furlong, D.S. Baer and R.K. Hanson, "Combustion Control using an Advanced Multiplexed Diode-laser Sensor System," 33rd JANNAF Combustion Meeting, Monterey, Nov. 4-8, 1996.
444	D.F. Davidson, E.L. Petersen, R.W. Bates and R.K. Hanson, "Real Gas Effects at High Pressures and Temperatures in Shock Tube Studies," 33rd JANNAF Combustion Meeting, Monterey, Nov. 4-8, 1996.
443	E.L. Petersen, D.F. Davidson and R.K. Hanson, "Ram Accelerator Mixture Chemistry: Kinetics and Ignition

Publication list of Ron Hanson

	Measurements,” 33rd JANNAF Combustion Meeting, Monterey, Nov. 4-8, 1996.
442	C.I. Morris, M.R. Kamel and R.K. Hanson, “Investigation of Ram-accelerator Projectile Flowfields in an Expansion Tube,” 33rd JANNAF Combustion Meeting, Monterey, Nov. 4-8, 1996.
441	R.K. Hanson, “Optical Diagnostics for Ground Testing: An Overview,” invited plenary speaker at 19th AIAA Advanced Measurement and Ground Testing Technology Conf., June 17-20, 1996, New Orleans.
440	R.K. Hanson, M.G. Mungal, F. Grisch, M.C. Thurber, S.H. Smith and E.F. Hasselbrink, “Temperature and Mixture-fraction Imaging of Gaseous Flows using Acetone PLIF,” AIAA-1996-1964 at 27th AIAA Fluid Dynamics Conf., June 17-20, 1996, New Orleans DOI 10.2514/6.1996-1964
439	M.C. Thurber, F. Grisch and R.K. Hanson, “Temperature Imaging with Single- and Dual-wavelength Acetone Planar Laser-induced Fluorescence,” <i>Opt. Lett.</i> 22 251-253 (1997) DOI 10.1364/OL.22.000251
438	S.I. Chou, D.S. Baer and R.K. Hanson, “Diode-laser Absorption Measurements of CH ₃ Cl and CH ₄ near 1.65 μm,” <i>Applied Optics</i> 36 3288-3293 (1997) DOI 10.1364/AO.36.003288
437	R.M. Mihalcea, D.S. Baer and R.K. Hanson, “Tunable Diode-laser Absorption Measurements of NO ₂ near 670 and 395 nm,” <i>Applied Optics</i> 35 4059-4064 (1996) DOI 10.1364/AO.35.004059
436	V. Nagali, S.I. Chou, D.S. Baer and R.K. Hanson, “Diode-laser Measurements of Temperature-dependent Collision Widths of H ₂ O Transitions in the 1.4 μm Region,” <i>JQSRT</i> 57 795-809 (1997) DOI 10.1016/S0022-4073(97)00011-3
435	D.F. Davidson, M. Röhrig, E. L. Peterson, M.D. DiRosa and R.K. Hanson, “Measurements of the OH A-X (0,0) 306 nm Absorption Bandhead at 60 atm and 1735K,” <i>JQSRT</i> 55 755-762 (1996) DOI 10.1016/0022-4073(96)00024-6
434	E.F. Hasselbrink, M.G. Mungal and R.K. Hanson, “Planar Velocity Measurements and OH Imaging in a Transverse Jet Flame,” AIAA-1997-0118 35th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1997 DOI 10.2514/6.1997-118
433	M.C. Thurber, B. J. Kirby, F. Grisch and R.K. Hanson, “Instantaneous Temperature Imaging with Single-wavelength Acetone PLIF,” AIAA-1997-0151 at 35th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1997 DOI 10.2514/6.1997-151
432	M.R. Kamel, C. Morris and R.K. Hanson, “Simultaneous PLIF and Schlieren Imaging of Hypersonic Reactive Flows around Blunted Cylinders,” AIAA-1997-0913 at 35th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1997 DOI 10.2514/6.1997-913
431	V. Nagali and R.K. Hanson, “Development of a Diode-laser Based Diagnostic to Monitor H ₂ O in High-pressure Environments,” AIAA-1997-0774 at 35th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1997 DOI 10.2514/6.1997-774
430	K. Toshimitsu, A. Matsuo, M.R. Kamel, C.I. Morris and R.K. Hanson, “Comparison of CFD Calculations with PLIF Imaging Results of Hypersonic Flows around Projectiles,” AIAA-1997-at 35th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1997.
429	D.F. Davidson, R. Bates, E.L. Petersen and R.K. Hanson, “Shock Tube Measurements of the Equation of State of Argon,” AIAA-1997-0984 at 35th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1997 DOI 10.2514/6.1997-984
428	E.R. Furlong, D.S. Baer and R.K. Hanson, “Combustion Control using a Multiplexed Diode-laser Sensor System,” 1996 JANNAF Meeting, Monterey, Nov. 4-8, 1996, also <i>Proc. SPIE.</i> 2703 , Lasers as Tools for Manufacturing of Durable Goods and Microelectronics, 208. (Apr. 8, 1996) DOI 10.1117/12.237729
427	E.R. Furlong, R.M. Mihalcea, M. Webber, D.S. Baer and R.K. Hanson, “Combustion Sensing and Control using Wavelength-multiplexed Diode-lasers,” AIAA-1997-0320 at 35th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1997 DOI 10.2514/6.1997-320
426	E.L. Petersen, R. Bates, D.F. Davidson and R.K. Hanson, “Laser Absorption and Infrared Emission Measurements in a High-pressure Shock Tube,” AIAA-1997-0316 at 35th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1997 DOI 10.2514/6.1997-316
425	D.F. Davidson, E.L. Petersen, M. Röhrig, R.K. Hanson and C.T. Bowman, “Measurement of the Rate Coefficient of H + O ₂ (+M) → HO ₂ (+M) for M = Ar and N ₂ at High Pressures,” 26th Symp. (Int.) on Combustion, The Comb.

Publication list of Ron Hanson

	Inst., Pittsburgh, 1996, 481-488 DOI 10.1016/S0082-0784(96)80250-5
424	D.S. Baer, R.M. Mihalcea and R.K. Hanson, "Multiplexed Diode-laser Absorption Sensors for Combustion Monitoring," SPIE 1996 Int. Symp. on Optical Sensing for Environment and Process Monitoring, Dallas, Nov. 6-8, 1996.
423	D.F. Davidson and R.K. Hanson, "Real Gas Corrections in Shock Tube Studies at High Pressures," <i>Israeli J. Chemistry</i> 36 321-326 (1996) DOI 10.1002/ijch.199600044
422	J.L. Palmer, B.K. McMillin and R.K. Hanson, "Multi-line Fluorescence Imaging of the Rotational Field in a Shock-Tunnel Free Jet," <i>App. Phys. B</i> 63 167-178 (1996) DOI 10.1007/BF01095269
421	V. Nagali, S.I. Chou, D.S. Baer, R.K. Hanson and J. Segall, "Tunable Diode Laser Absorption Measurements of Methane at Elevated Temperatures," <i>Applied Optics</i> 35 4026-4032 (1996) DOI 10.1364/AO.35.004026
420	M.R. Kamel, C.I. Morris, I.G. Stouklov and R.K. Hanson, "PLIF Imaging of Hypersonic Reacting Flow around Blunt Bodies," 26th Symp. (Int.) on Combustion, The Comb. Inst., Pittsburgh, 1996, 2909-2915 DOI 10.1016/S0082-0784(96)80132-9
419	M. Röhrig, E.L. Petersen, D.F. Davidson and R.K. Hanson, "A Shock Tube Study of the Pyrolysis of NO ₂ ," <i>IJCK</i> 29 483-493 (1997) DOI 10.1007/s00193-012-0383-x
418	E.L. Petersen, M. Röhrig, R.K. Hanson and C.T. Bowman, "High-pressure Methane Oxidation behind Reflected Shock Waves," 26th Symp. (Int.) on Combustion, The Comb. Inst., Pittsburgh, 1996, 799-806 DOI 10.1016/S0082-0784(96)80289-X
417	E.R. Furlong, D.S. Baer and R.K. Hanson, "Combustion Control using a Multiplexed Diode-laser Sensor System," 26th Symp. (Int.) on Combustion, The Comb. Inst., Pittsburgh, 1996, 2851-2858 DOI 10.1016/S0082-0784(96)80125-1
416	R.J. Cedolin, R.K. Hanson and M.A. Cappelli, "Laser-induced Fluorescence Diagnostics for Xenon Hall Thrusters," AIAA-1996-2986 at 32nd AIAA/ASME/SAE/ASEE Joint Prop. Conf., Lake Buena Vista, FL, July 1-3, 1996 DOI 10.2514/6.1996-2986
415	S.I. Chou, V. Nagali, D.S. Baer and R.K. Hanson, "Hydrocarbon Measurements using Diode-laser Absorption near 1.65 μm, AIAA-1996-0746 at 34th AIAA Aerospace Sciences Meeting, Reno, Jan. 1996 DOI 10.2514/6.1996-746
414	J.D. Mertens and R.K. Hanson, "A Shock Tube Study of H + HNCO → H ₂ + NCO and the Thermal Decomposition of NCO," 26th Symp. (Int.) on Combustion. The Comb. Inst., Pittsburgh, 1996, 551-558 DOI 10.1016/S0082-0784(96)80259-1
413	S. Smith, E. Hasselbrink, M. Mungal and R.K. Hanson, "The Scalar Concentration Field of the Axisymmetric Jet in Cross-flow," AIAA-1996-0198 at 34th AIAA Aerospace Sciences Meeting, Reno, Jan. 1996 DOI 10.2514/6.1996-198
412	D.F. Davidson, M.D. DiRosa, E.J. Chang, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of Methyl-Methyl Reactions between 1200 and 2400 K," <i>IJCK</i> 27 1179-1196 (1995) DOI 10.1002/kin.550271205
411	R.K. Hanson, D.S. Baer, B.K. McMillin and B. Yip, "Recent Developments in Laser-based Absorption and Fluorescence Diagnostics for Gases," invited paper at 8th Int. Symp. on Transport Phenomena, San Francisco, July 1995.
410	M.C. Thurber, F. Grisch and R.K. Hanson, "Temperature Imaging with Single- and Dual-wavelength Acetone PLIF," AIAA-1996-2936 at 32nd AIAA Joint Prop. Conf., Lake Buena Vista, FL, July 1996 DOI 10.2514/6.1996-2936
409	E.R. Furlong, D.S. Baer, M. Webber and R.K. Hanson, "Combustion Diagnostics and Control using a Multiplexed Diode Laser System," AIAA-1996-2763 at 32nd AIAA Joint Prop. Conf., Lake Buena Vista, FL, July 1996 DOI 10.2514/6.1996-2763
408	E.L. Petersen, M. Röhrig, D.F. Davidson and R.K. Hanson, "Ignition Delay Times of Ram Accelerator Mixtures," AIAA-1996-2681 at 32nd AIAA Joint Prop. Conf., Lake Buena Vista, FL, July 1996 DOI 10.2514/6.1996-2681
407	C.I. Morris, M.R. Kamel and R.K. Hanson, "Expansion Tube Investigation of Ram-accelerator Flow Fields," AIAA-1996-2680 at 32nd AIAA Joint Prop. Conf., Lake Buena Vista, FL, July 1996 DOI 10.2514/6.1996-2680

Publication list of Ron Hanson

406	M. Röhrig, E.L. Petersen, D.F. Davidson and R.K. Hanson, "The Pressure Dependence of the Thermal Decomposition of N ₂ O," <i>IJCK</i> 28 599-608 (1996) <a href="https://doi.org/10.1002/(SICI)1097-4601(1996)28:8<599::AID-KIN5>3.0.CO;2-Q">DOI 10.1002/(SICI)1097-4601(1996)28:8<599::AID-KIN5>3.0.CO;2-Q
405	M.R. Kamel, C. Morris, I. Stouklov and R.K. Hanson, "Imaging of Hypersonic Reactive Flow around Cylinders and Wedges," WSS/CI paper 95F-196, Stanford, CA, Oct. 30-31, 1995.
404	M. Röhrig, E.L. Petersen, D.F. Davidson and R.K. Hanson, "A Shock Tube Study of the Pyrolysis of NO ₂ ," WSS/CI paper 95F-156, Stanford, CA, Oct. 30-31, 1995.
403	V. Nagali, S.I. Chou, D.S. Baer and R.K. Hanson, "Tunable Diode Laser Absorption Measurements of Combustion Products at Elevated Pressures," AIAA-1996-2225 at 19th AIAA Advanced Measurement and Ground Testing Conf., New Orleans, June 17-20, 1996 DOI 10.2514/6.1996-2225
402	R.J. Cedolin, R.K. Hanson and M.A. Cappelli, "Laser-induced Fluorescence Measurements of Resonance Broadening in Xenon," <i>Phys. Rev. A</i> 54 335-342 (1996) DOI 10.1103/PhysRevA.54.335
401	M.D. DiRosa, K.G. Klavuhn and R.K. Hanson, "LIF Spectroscopy of NO and O ₂ in High-pressure Flames," <i>Comb. Sci. & Tech.</i> 118 257-283 (1996) DOI 10.1080/00102209608951981 ; also WSS/CI paper 95F-191, Stanford, CA, Oct. 30-31, 1995.
400	E.L. Petersen, D.F. Davidson, M. Röhrig, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of High-pressure Methane Oxidation," WSS/CI paper 95F-153, Stanford, CA, Oct. 30-31, 1995.
399	F. Grisch, M.C. Thurber and R.K. Hanson, "Temperature Measurement by Acetone LIF with Dual-wavelength Excitation," WSS/CI paper 95F-192, Stanford, CA, Oct. 30-31, 1995.
398	V. Nagali, E.R. Furlong, S.I. Chou, R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Diode-laser Sensor System for Methane, Water and Temperature Measurements in Combustion Environments," WSS/CI paper 95F-195, Stanford, CA, Oct. 30-31, 1995.
397	M.S. Wooldridge, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of CO + OH → CO ₂ + H and HNCO + OH → Products via Simultaneous Laser Absorption Measurements of OH and CO ₂ ," <i>IJCK</i> 28 361-372 (1996) <a href="https://doi.org/10.1002/(SICI)1097-4601(1996)28:5<361::AID-KIN5>3.0.CO;2-T">DOI 10.1002/(SICI)1097-4601(1996)28:5<361::AID-KIN5>3.0.CO;2-T
396	S.T. Wooldridge, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of Reactions of CN with HCN, OH and H ₂ using CN and OH Laser Absorption," <i>IJCK</i> 28 245-258 (1996) <a href="https://doi.org/10.1002/(SICI)1097-4601(1996)28:4<245::AID-KIN2>3.0.CO;2-V">DOI 10.1002/(SICI)1097-4601(1996)28:4<245::AID-KIN2>3.0.CO;2-V
395	M.S. Wooldridge, R.K. Hanson and C.T. Bowman, "Argon Broadening of the R (48), R (50) and R (52) Lines of CO ₂ in the (00 ¹) ← (00 ⁰) Band," <i>JQSRT</i> 57 425-434 (1997) DOI 10.1016/S0022-4073(96)00074-X
394	J.L. Palmer and R.K. Hanson, "Temperature Imaging in a Supersonic Free Jet of Combustion Gases using Two-line OH Fluorescence," <i>Applied Optics</i> 35 485-499 (1996) DOI 10.1364/AO.35.000485
393	E.R. Furlong, V. Nagali, D.S. Baer and R.K. Hanson, "Combustion Control using a Multiplexed Diode-laser Sensor System," AIAA-1996-0756 at the 34th AIAA Aerospace Sciences Meeting, Reno, Jan. 1996 DOI 10.2514/6.1996-756
392	C. Morris, M.R. Kamel and R.K. Hanson, "NO PLIF Imaging of Supersonic Reactive Flows around Projectiles in an Expansion Tube," AIAA-1996-0855 at the 34th AIAA Aerospace Sciences Meeting, Reno, Jan. 1996 DOI 10.2514/6.1996-855
391	M.D. DiRosa, K.G. Klavuhn and R.K. Hanson, "LIF spectroscopy of NO and O ₂ in High-pressure flames," AIAA-1996-0844 at the 34th AIAA Aerospace Sciences Meeting/Air Breathing Propulsion Session, Reno, Jan. 1996 DOI 10.2514/6.1996-844
390	A.F.P. Houwing, M.C. Thurber, S.D. Wehe, M.R. Kamel, C. Morris and R.K. Hanson, "PLIF Imaging and Thermometry of NO/N ₂ Shock Layer Flows in an Expansion Tube," AIAA-1996-0537 at the 34th AIAA Aerospace Sciences Meeting, Reno, NV, Jan., 1996 DOI 10.2514/6.1996-537
389	V. Nagali and R.K. Hanson, "Measurements of H ₂ O in High-pressure Flows using Near-IR Diode-laser Absorption," AIAA-1996-0846 at the 34th AIAA Aerospace Sciences Meeting/Air Breathing Propulsion Session, Reno, Jan. 1996 DOI 10.2514/6.1996-846

Publication list of Ron Hanson

388	R.M. Mihalcea, D.S. Baer and R.K. Hanson, "NO ₂ Measurements using Diode-laser Absorption Spectroscopy," AIAA-1996-0173 at the 34th AIAA Aerospace Sciences Meeting/Aerodynamic Measurement Technology, Reno, Jan. 1996 DOI 10.2514/6.1996-173
387	M. Frenklach, H. Wang, M. Goldenberg, C.T. Bowman, R.K. Hanson, G.P. Smith, D.M. Golden, W.C. Gardiner, Jr. and V. Lissianski, "Optimized Chemical Kinetics for Modeling Natural Gas Combustion," paper at 1995 AFRC Int. Symp., Monterey, CA, Oct. 1995.
386	C. Morris, M.R. Kamel, M.C. Thurber, S.D. Wehe and R.K. Hanson, "Expansion Tube Investigation of Combustion Structures in Supersonic Projectile Flowfields," presented at 20th Int. Symp. on Shock Waves (ISSW), Pasadena, July 1995.
385	D.F. Davidson, M. Röhrig, E.L. Petersen, M.D. DiRosa and R.K. Hanson, "Absorption Lineshape Measurements of the OH A-X (0,0) 306 nm Bandhead at High Pressures," presented at 20th Int. Symp. on Shock Waves (ISSW), Pasadena, July 1995.
384	E.L. Petersen, D.F. Davidson, M. Röhrig and R.K. Hanson, "High-pressure Shock Tube Measurements of Ignition Times in Stoichiometric H ₂ /O ₂ /Ar Mixtures," presented at 20th Int. Symp. on Shock Waves (ISSW), Pasadena, July 1995.
383	C. Morris, M.R. Kamel, M.C. Thurber, S.D. Wehe and R.K. Hanson, "Development of an Expansion Tube for Investigation of Combustion in Supersonic Projectile Flowfields," presented at RAMACII, 2nd Int. Meeting on Ram Accelerators, Seattle, July 17-20, 1995.
382	M.S. Wooldridge, R.K. Hanson and C.T. Bowman, "Development and Application of a Diode Laser Absorption Diagnostic for Shock Tube Studies of CO ₂ Reactions," paper 95S-065 at WSS/CSS Meeting of Comb. Inst., Apr. 1995, San Antonio.
381	S.T. Wooldridge, R.K. Hanson and C.T. Bowman, "Simultaneous Laser Absorption Measurements of CN and OH in a Shock Tube Study of HCN + OH → Products," paper 95S-043 at WSS/CSS Meeting of Comb. Inst., Apr. 1995, San Antonio.
380	S.T. Wooldridge, R.K. Hanson and C.T. Bowman, "Simultaneous Laser Absorption Measurements of CN and OH in a Shock Tube Study of HCN + OH → Products," <i>IJCK</i> 27 1075-1087 (1995) DOI 10.1002/kin.550271105
379	J.D. Mertens, M.S. Wooldridge and R.K. Hanson, "A Shock Tube Study of the Pyrolysis of C ₂ H ₅ I," paper at ESS/CI Meeting, Dec. 5-7, 1994, Clearwater, FL.
378	M.D. DiRosa, K.G. Klavuhn and R.K. Hanson, "PLIF Imaging of NO and O ₂ in High-pressure Flames," <i>Proc. SPIE</i> 2456 ; presented at SPIE Int. Symp. on Optical Science, San Diego, CA, July 1995 DOI 10.1117/12.221555
377	D.S. Baer, R.K. Hanson, M.E. Newfield and N.K.J.M. Gopaul, "Multiplexed Diode-laser Sensor System for Simultaneous H ₂ O, O ₂ and Temperature Measurements," <i>Opt. Lett.</i> 19 1900-1902 (1994) DOI 10.1364/OL.19.001900
376	E.L. Petersen, D.F. Davidson, M. Röhrig and R.K. Hanson, "Shock-induced Ignition of High-pressure H ₂ -O ₂ -Ar and CH ₄ -O ₂ -Ar Mixtures," AIAA-1995-3113 at 31st AIAA Joint Propulsion Conf., San Diego, July 10-12, 1995 DOI 10.2514/6.1995-3113
375	C. Morris, M.R. Kamel, M.C. Thurber, S.D. Wehe and R.K. Hanson, "Development of an Expansion Tube for Investigation of Combustion in Supersonic Projectile Flowfields," AIAA-1995-2717 at 31st AIAA Joint Propulsion Conf., San Diego, July 10-12, 1995 DOI 10.2514/6.1995-2717
374	V. Nagali, T. Furlong, S.I. Chou, R.M. Mihalcea, D.S. Baer and R.K. Hanson, "Diode-laser Sensor System for Multi-species and Multi-parameter Measurements in Combustion Flows," AIAA-1995-2684 at 31st AIAA Joint Propulsion Conf., San Diego, July 10-12, 1995 DOI 10.2514/6.1995-2684
373	N.J. Brock, M.S. Brown, P.A. DeBarber, M.C. Thurber, S.D. Wehe and R.K. Hanson, "Hydroxyl Concentration Measurements in Shock-heated Flows using Resonant Holographic Interferometric Spectroscopy (RHIS)," AIAA-1995-1951 at AIAA 26th Plasmadynamics and Lasers Conf., San Diego, CA, July, 1995.
372	D.F. Davidson, R.K. Hanson and C.T. Bowman, "Revised Values for the Rate Coefficients of Ethane and Methane Decomposition," <i>IJCK</i> 27 305-308 (1995) DOI 10.1002/kin.550270308
371	S.T. Wooldridge, R.K. Hanson and C.T. Bowman, "Measurements of Argon Collision Broadening in the CN B ₂ Σ ⁺ ←

Publication list of Ron Hanson

	X ₂ Σ ⁺ (0,0) Spectrum,” <i>JQSRT</i> 53 481-492 (1995) DOI 10.1016/0022-4073(95)90048-9
370	D.F. Davidson, M.D. DiRosa, E.J. Chang and R.K. Hanson, “An Improved Determination of the 216.615 nm Absorption Coefficient for the Methyl Radicals,” <i>JQSRT</i> 53 581-583 (1995) DOI 10.1016/0022-4073(95)90056-X
369	R.J. Cedolin, R.K. Hanson and M.A. Cappelli, “LIF Lineshape Analysis of the Xenon 6s[3/2] ₂ ⁰ - 6p[3/2] ₂ and 6s[3/2] ₁ ⁰ - 6p[1/2] ₀ Transitions in a Glow Discharge,” AIAA-1995-1969 at AIAA 26th Plasmadynamics and Lasers Conf., San Diego, June 1995 DOI 10.2514/6.1995-1969
368	B.E. Battles and R.K. Hanson, “Laser-induced Fluorescence Measurements of NO and OH Mole Fractions in Fuel-lean, High Pressure (1-10 atm), Methane Flames: Fluorescence Modeling and Experimental Validation,” <i>JQSRT</i> 54 521-537 (1995) DOI 10.1016/0022-4073(95)00020-L
367	T.C. Island, B.J. Patrie, M.G. Mungal and R.K. Hanson, “Instantaneous Three-dimensional Flow Visualization of a Supersonic Mixing Layer,” <i>Expts. Fluids</i> 20 249-256 (1996) DOI 10.1007/BF00192669
366	J.L. Palmer and R.K. Hanson, “Shock Tunnel Flow Visualization using Planar Laser-induced Fluorescence Imaging of NO and OH,” <i>Shock Waves</i> 4 313-323 (1995) DOI 10.1007/BF01413873
365	D.S. Baer, R.K. Hanson, M.E. Newfield and N.K.J.M. Gopaul, “Multi-species Diode-laser Sensor System for H ₂ O and O ₂ Measurements,” AIAA-1994-2643 at AIAA 18th Ground Test Conf., Colorado Springs, CO, June 20-23, 1994 DOI 10.2514/6.1994-2643
364	I.D. Boyd, A. Srinivasan, E.P. Muntz, R.K. Hanson and M.S. Holden, “Thermochemical Nonequilibrium Design Calculations for Detailed Hypervelocity Experiments in the LENS Facility,” AIAA-1994-2097 at AIAA 18th Ground Test Conf., Colorado Springs, CO, June 20-23, 1994 DOI 10.2514/6.1994-2097
363	D.S. Baer, V. Nagali, E.R. Furlong, R.K. Hanson and M.E. Newfield, “Scanned- and Fixed-wavelength Absorption Diagnostics for Combustion Measurements using Multiplexed Diode-laser Sensor System,” AIAA-1995-0426 at 33rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 9-12, 1995 DOI 10.2514/6.1995-426 ; also <i>AIAA J.</i> 34 489-493 (1996) DOI 10.2514/3.13094
362	M.R. Kamel, C. Morris and R.K. Hanson, “Expansion Tube Studies of Hypersonic Reactive Flows around Projectiles,” AIAA-1995-0233 at 33rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 9-12, 1995 DOI 10.2514/6.1995-233
361	A.F.P. Houwing, R.R. Boyce, J.L. Palmer, M.C. Thurber, S.D. Wehe and R.K. Hanson, “PLIF Thermometry in a High Temperature Shock Layer Flow on a Cylinder in a Supersonic Jet,” AIAA-1995-0515 at 33rd AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 9-12, 1995 DOI 10.2514/6.1995-515
360	M.D. DiRosa and R.K. Hanson, “Collision Broadening and Shift of NO γ (0,0) Absorption Lines by O ₂ and H ₂ O at High Temperatures,” <i>JQSRT</i> 52 515-529 (1994) DOI 10.1016/0022-4073(94)90021-3
359	S. Langlois, T.P. Birbeck and R.K. Hanson, “Temperature-dependent Collision-broadening Parameters of H ₂ O Lines in the 1.4 μm Region using Diode Laser Absorption Spectroscopy,” <i>J. Mol. Spec.</i> 167 272-281 (1994) DOI 10.1006/jmsp.1994.1234
358	C.-L. Yu, M. Frenklach, D.A. Masten, R.K. Hanson and C.T. Bowman, “Reexamination of Shock Tube Measurements of the Rate Coefficient of H + O ₂ → OH + O,” <i>J. Phys. Chem.</i> 98 4770-4771 (1994) DOI 10.1021/j100068a048
357	M.P. Arroyo, T.P. Birbeck, D.S. Baer and R.K. Hanson, “Dual Diode-laser Fiber-Optic Diagnostic for Water Vapor Measurements,” <i>Opt. Lett.</i> 19 1091-1093 (1994) DOI 10.1364/OL.19.001091
356	J.G. Liebeskind, R.K. Hanson and M.A. Cappelli, “Experimental Investigation of Velocity Slip Near an Arcjet Exit Plane,” <i>AIAA J.</i> 33 (2) 373-375 (1995) DOI 10.2514/3.12445
355	L.S. Zelson, D.F. Davidson and R.K. Hanson, “VUV Absorption Diagnostic for Shock Tube Kinetics Studies of C ₂ H ₄ ,” <i>JQSRT</i> 52 31-43 (1994) DOI 10.1016/0022-4073(94)90136-8
354	J.M. Seitzman, M.F. Miller, T.C. Island and R.K. Hanson, “Double-Pulse Imaging using Simultaneous Acetone/OH PLIF for Studying the Evolution of High-speed, Reacting Mixing Layers,” 25th Symp. (Int.) on Combustion, The Comb. Inst., 1743-1750 (1994) DOI 10.1016/S0082-0784(06)80823-4
353	J.L. Palmer, F.P. Houwing and R.K. Hanson, “PLIF Imaging of Transient Shock Phenomena in Hypersonic Flows,”

Publication list of Ron Hanson

	AIAA-1994-2642 at AIAA 18th Aerospace Ground Testing Conf., Colorado Springs, CO, June 20-23, 1994 DOI 10.2514/6.1994-2642
352	M.S. Wooldridge, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of the $\text{CO} + \text{OH} \rightarrow \text{CO}_2 + \text{H}$ Reaction, 25th Symp. (Int.) on Combustion, The Comb. Inst., 741-748 (1994) DOI 10.1016/S0082-0784(06)80706-X
351	S.T. Wooldridge, J.D. Mertens, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of the Reactions of CN and NCO with NO_2 ," 25th Symp. (Int.) on Combustion, The Comb. Inst., 903-991 (1994) DOI 10.1016/S0082-0784(06)80735-6
350	L.C. Philippe and R.K. Hanson, "Laser Diode Wavelength-modulation Spectroscopy for Simultaneous Measurement of Temperature, Pressure and Velocity in Shock-heated Oxygen Flows," <i>Applied Optics</i> 32 6090-6103 (1993) DOI 10.1364/AO.32.006090
349	R.J. Cedolin, R.K. Hanson and M.A. Cappelli, "Semiconductor Laser Diagnostics for Xenon Plasmas," AIAA-1994-2739 at 30th AIAA/ASME/SAE/ASEE Joint Propulsion Conf., Indianapolis, IN, June 27-29, 1994 DOI 10.2514/6.1994-2739
348	M.A. Cappelli, J.G. Liebeskind, R.K. Hanson, G.W. Butler and D.Q. King, " A Direct Comparison of Hydrogen Arcjet Thruster Properties to Model Predictions ," paper IEPC-93-220 at 23rd Int. Elec. Prop. Conf., Seattle, Sept. 13-16, 1993; <i>AIAA J.</i> , Apr. 1994.
347	J.G. Liebeskind, R.K. Hanson and M.A. Cappelli, " LIF Measurements of Species Velocities in an Arcjet Plume ," paper IEPC-93-131 at 23rd Int. Elec. Prop. Conf., Seattle, Sept. 13-16, 1993.
346	S.T. Wooldridge, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of the Reactions of CN and NCO with NO_2 ," paper 93-111 at WSS/CI Fall meeting, Menlo Park, CA, Oct. 1993.
345	L.S. Zelson, D.F. Davidson and R.K. Hanson, "Development and Application of a VUV Absorption Diagnostic for Shock Tube Kinetics Studies of C_2H_4 ," paper 93-057 at WSS/CI Fall meeting, Menlo Park, CA, Oct. 1993.
344	M.D. DiRosa and R.K. Hanson, "Collision Broadening and Shift of $\text{NO } \gamma (0,0)$ Absorption Lines by H_2O , O_2 and NO at 295 K," <i>J. Mol. Spectroscopy</i> 164 97-117 (1994) DOI 10.1006/jmsp.1994.1059
343	J.D. Mertens, M.S. Wooldridge and R.K. Hanson, "A Laser Photolysis Shock Tube Study of the Reaction of OH with NH_3 ," in <i>Shock Waves @ Marseilles II</i> , Springer-Verlag, 1995, 37-42; presented at 19th Int. Symp. on Shock Waves (ISSW 19), Marseilles, July 26-30, 1993 DOI 10.1007/978-3-642-78832-1_6
342	R.K. Hanson, D.S. Baer, B.K. McMillin and M.P. Arroyo, "Multi-parameter and Multi-point Measurements," invited paper at Symp. on Laser Diagnostics for Industrial Processes, Heidelberg, June 28, 1993; <i>Ber. Bunsenges. Phys. Chem.</i> 97 1548-1555 (1993) DOI 10.1002/bbpc.19930971209
341	A. Lozano, B. Yip and R.K. Hanson, "Simultaneous OH and Acetone Fluorescence Imaging in Diffusion Flames," presented at Joint Meeting of Italian and Spanish Sections of the Combustion Instituto, Stresa, Italy, 7/1/1993.
340	S. Langlois, T.B. Birbeck and R.K. Hanson, "Diode Laser Measurements of H_2O Line Intensities and Self-broadening Coefficients in the 1.4 μm Region," <i>J. Mol. Spectroscopy</i> 163 27-42 (1994) DOI 10.1006/jmsp.1994.1004
339	B. Yip, A. Lozano and R.K. Hanson, "Sensitized Phosphorescence: A Gas-Phase Molecular Mixing Diagnostic," <i>Expts. Fluids</i> 17 16-23 (1994) DOI 10.1007/BF02412799
338	J.M. Seitzman and R.K. Hanson, "Two-line Planar Fluorescence for Temporally Resolved Temperature Imaging in A Reacting Supersonic Flow over a Body," <i>App. Phys. B</i> 57 385-391 (1993) DOI 10.1007/BF00357380
337	B.E. Battles, J.M. Seitzman and R.K. Hanson, "Quantitative Planar Laser-induced Fluorescence Imaging of Radical Species in High Pressure Flames," AIAA-1994-0229 at 32nd AIAA Aerospace Sciences Meeting, Reno, Jan. 10-13, 1994 DOI 10.2514/6.1994-229
336	J. Palmer and R.K. Hanson, "PLIF Measurements of Temperature and Velocity in a Reacting Supersonic Free Jet with OH," AIAA-1994-0618 at 32nd AIAA Aerospace Sciences Meeting, Reno, Jan. 10-13, 1994 DOI 10.2514/6.1994-618
335	H.A. Chang, D.S. Baer and R.K. Hanson, "Semiconductor Diode Laser Absorption Diagnostics of Atomic Nitrogen for Hypersonic Flowfield Measurements," AIAA-1994-0385 at 32nd AIAA Aerospace Sciences Meeting, Reno,

Publication list of Ron Hanson

	1/10-13/1994 DOI 10.2514/6.1994-385
334	J.M. Seitzman, M.F. Miller, R.K. Hanson, P. DeBarber and C. Hess, "Multiple Scalar Planar Fluorescence Imaging for Reacting Flows," AIAA-1994-0228 at 32nd AIAA Aerospace Sciences Meeting, Reno, Jan. 10-13, 1994 DOI 10.2514/6.1994-228
333	M.F. Miller, T.C. Island, J.M. Seitzman, C.T. Bowman, M.G. Mungal and R.K. Hanson, "An Experimental Investigation of Supersonic Reacting Mixing Layers," AIAA-1994-0823 at 32nd AIAA Aerospace Sciences Meeting, Reno, 1/10-13/1994 DOI 10.2514/6.1994-823
332	B.J. Patrie, J.M. Seitzman and R.K. Hanson, "Modeling of Spatial Distortions in a High-speed Image Converter Camera," <i>Rev. of Sci. Inst.</i> 64 (10) 2901-2904 (1993) DOI 10.1063/1.1144380
331	B.J. Patrie, J.M. Seitzman and R.K. Hanson, "Instantaneous 3-D Flow Visualization by Rapid Acquisition of Multiple Planar Flow Images," <i>Opt. Engineering</i> 33 975-980 (1994) DOI 10.1117/12.160888
330	M. Miller, T. Island, B. Yip, C. Bowman, M. Mungal and R.K. Hanson, "Compressibility and Heat Release Effects in a Reacting Mixing Layer," AIAA-1993-1771, 29th AIAA/ASME/SAE/ASEE Joint Propulsion Conf., Monterey, CA, June 28-30, 1993 DOI 10.2514/6.1993-1771
329	D.F. Davidson, M.D. DiRosa, R.K. Hanson and C.T. Bowman, "A Study of Ethane Decomposition in a Shock Tube using Laser Absorption of CH ₃ ," <i>Int. J. Chem. Kin.</i> 25 969-982 (1993) DOI 10.1002/kin.550251109
328	M.S. Wooldridge, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of Nitric Acid Decomposition," in <i>Shock Waves @ Marseilles II</i> , Springer-Verlag, 1995, 83-88; presented at 19th Int. Symp. on Shock Waves (ISSW 19), Marseille, July 26-30, 1993 DOI 10.1007/978-3-642-78832-1_14
327	B.K. McMillin, J.M. Seitzman, J.L. Palmer and R.K. Hanson, "Dual-laser PLIF Imaging Techniques for Shock Tube Studies of Mixing and Combustion," in <i>Shock Waves @ Marseilles II</i> , Springer-Verlag, 1995, 315-320; presented at 19th Int. Symp. on Shock Waves (ISSW 19), Marseilles, July 26-30, 1993 DOI 10.1007/978-3-642-78829-1_51
326	R.K. Hanson, "The Role of Lasers in Shock Tube Studies of Chemical Kinetics," in <i>Shock Waves @ Marseilles II</i> , Springer-Verlag, 1995, 7-13; presented at 19th Int. Symp. on Shock Waves (ISSW 19), Marseille, July 26-30, 1993 DOI 10.1007/978-3-642-78832-1_2
325	H.A. Chang, D.S. Baer and R.K. Hanson, "Semiconductor Laser Diagnostics of Kinetic and Population Temperatures in High-enthalpy Flows," in <i>Shock Waves @ Marseilles II</i> , Springer-Verlag, 1995, 33-36; presented at 19th Int. Symp. on Shock Waves (ISSW 19), Marseille, July 26-30, 1993 DOI 10.1007/978-3-642-78832-1_5
324	J.M. Seitzman, R.K. Hanson, P.A. DeBarber and C. F. Hess, "Application of Quantitative Two-line OH PLIF for Temporally Resolved Planar Thermometry in Reacting Flows," <i>Applied Optics</i> 33 4000-4012 (1994) DOI 10.1364/AO.33.004000
323	M.P. Arroyo, S. Langlois and R.K. Hanson, "Diode Laser Absorption Technique for Simultaneous Measurements of Multiple Gasdynamic Parameters in High-speed Flows Containing Water Vapor," <i>Applied Optics</i> 33 3296-3307 (1994) DOI 10.1364/AO.33.003296
322	M.F. Miller, T.C. Island, B. Yip, C.T. Bowman, M.G. Mungal and R.K. Hanson, "An Experimental Study of the Structure of a Compressible, Reacting Mixing Layer," AIAA-1993-0354 at 31st AIAA Aerospace Sciences Meeting, Reno, Jan. 1993 DOI 10.2514/6.1993-354
321	A. Lozano, S.H. Smith, M.G. Mungal and R.K. Hanson, "Concentration Measurements in a Transverse Jet by Planar Laser-induced Fluorescence of Acetone," <i>AIAA J.</i> 32 218-221 (1994) DOI 10.2514/3.11974
320	J.M. Seitzman, J.L. Palmer, A.L. Antonio, R.K. Hanson, P.A. DeBarber and C. F. Hess, "Instantaneous Planar Thermometry of Shock-heated Flows using PLIF of OH," AIAA-1993-0802, 31st AIAA Aerospace Sciences Meeting, Reno, 1/1993 DOI 10.2514/6.1993-802
319	J.M. Seitzman and R.K. Hanson, "Planar Fluorescence Imaging in Gases," Chapter 6, (pp. 405-466) in <i>Experimental Methods for Flows with Combustion</i> , ed. A. Taylor, Academic Press, London, 1993.
318	D.S. Baer and R.K. Hanson, "Semiconductor Laser-based Measurements of Quench Rates in an Atmospheric Pressure Plasma using Saturated-fluorescence Spectroscopy," <i>Applied Optics</i> 32 948-955 (1993) DOI 10.1364/AO.32.000948

Publication list of Ron Hanson

317	J.L. Palmer, M.C. Thurber and R.K. Hanson, "Single-shot Velocimetry using Planar Laser-induced Fluorescence Imaging of Nitric Oxide," AIAA-1993-2020 at AIAA/SAE/ASME 29th Joint Propulsion Conf., Monterey, CA, June 1993 DOI 10.2514/6.1993-2020
316	S.T. Wooldridge, R.K. Hanson and C.T. Bowman, "Development of a CW Laser Absorption Diagnostic for CN in Shock Tube Experiments," <i>JQSRT</i> 50 19-34 (1993) DOI 10.1016/0022-4073(93)90125-2
315	B.K. McMillin, J.M. Seitzman and R.K. Hanson, "Comparison of NO and OH PLIF Temperature Measurements in a Scramjet Model Flowfield," AIAA-1993-2035 at 29th AIAA/SAE/ASME/ASEE Joint Propulsion Conf., Monterey, CA, June 1993 DOI 10.2514/6.1993-2035 ; also <i>AIAA J.</i> 32 1945-1952 (1994) DOI 10.2514/3.12237
314	J.G. Liebeskind, R.K. Hanson and M.A. Cappelli, "Plume Characteristics of an Arcjet Thruster," AIAA-1993-2530 at 29th AIAA/SAE/ASME/ASEE Joint Propulsion Conf., Monterey, CA, 1/1993 DOI 10.2514/6.1993-2530
313	B. Yip, A. Lozano and R.K. Hanson, "Gas Phase Molecular Mixing Imaging Measurements using the Acetone-Biacetyl System," AIAA-1993-0221, 31st AIAA Aerospace Sciences Meeting, Reno, 1/1993 DOI 10.2514/6.1993-221
312	J.L. Palmer, B.K. McMillin and R.K. Hanson, "Planar Laser-induced Fluorescence Temperature Measurements in Free Jet Flow with Vibrational Nonequilibrium," AIAA-1993-0046 at 31st AIAA Aerospace Sciences Meeting, Reno, 1/1993 DOI 10.2514/6.1993-46
311	B.J. Patrie, J.M. Seitzman and R.K. Hanson, "Planar Imaging at High Framing Rates: System Characterization and Measurements, Part II," AIAA-1993-0364 at 31st AIAA Aerospace Sciences Meeting, Reno, Jan. 1993 DOI 10.2514/6.1993-364
310	G.W. Butler, D.Q. King, J.G. Liebeskind, R.K. Hanson and M.A. Cappelli, "A Comparison of Arcjet Plume Properties to Model Predictions," AIAA-1993-0820 at 31st AIAA Aerospace Sciences Meeting, Reno, Jan. 1993 DOI 10.2514/6.1993-820
309	H.A. Chang, D.S. Baer and R.K. Hanson, "Semiconductor Laser Diagnostics of Atomic Oxygen for Hypersonic Flowfield Measurements," AIAA-1993-0628 at 31st AIAA Aerospace Sciences Meeting, Reno, 1/1993 DOI 10.2514/6.1993-628
308	D.S. Baer, H.A. Chang and R.K. Hanson, "Semiconductor Laser Diagnostics of Atomic Oxygen in Atmospheric Pressure Plasmas," <i>JQSRT</i> 50 621-633 (1993) DOI 10.1016/0022-4073(93)90030-L ; also AIAA-1993-0822, 31st AIAA Aerospace Sciences Meeting, Reno, Jan. 1993 DOI 10.2514/6.1993-822
307	R.K. Hanson, "Quantitative LIF and PLIF Diagnostics," invited paper at 3rd Int. Symp. on Special Topics in Chemical Propulsion: Nonintrusive Diagnostics," Scheveningen, The Netherlands, May 10-13, 1993.
306	R.K. Hanson, "Multi-parameter and Multi-point Measurements," invited presentation at Rank Prize Symp. on Laser Techniques for Combustion Diagnostics, Lake District, Great Britain, Apr. 19-22, 1993.
305	M.S. Wooldridge, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of the $\text{OH} + \text{OH} \rightarrow \text{H}_2\text{O} + \text{O}$ Reaction," <i>IJCK</i> 26 389-401 (1994) DOI 10.1002/kin.550260402 ; also paper 92-93 at WSS/CI Fall Meeting, Berkeley, CA, Oct. 12-13, 1992.
304	J.G. Liebeskind, R.K. Hanson and M.A. Cappelli, "LIF Diagnostic for Temperature and Velocity in a Hydrogen Arcjet," <i>Applied Optics</i> 32 6117-6127 (1993) DOI 10.1364/AO.32.006117
303	B.K. McMillin, J.L. Palmer, A.L. Antonio and R.K. Hanson, "Comparison of Two SCRAMJET Model Flowfields using Instantaneous Two-Line PLIF Temperature Imaging," AIAA-93-0044 at 31st AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 11-14, 1993 DOI 10.2514/6.1993-44
302	B.K. McMillin, J.L. Palmer and R.K. Hanson, "Temporally Resolved, Two-line Fluorescence Imaging of NO Temperature in a Transverse Jet in a Supersonic Cross Flow," <i>Applied Optics</i> 32 7532-7545 (1993) DOI 10.1364/AO.32.007532
301	M.P. Arroyo and R.K. Hanson, "Absorption Measurements of Water-vapor Concentration, Temperature and Line-shape Parameters using a Tunable InGaAsP Diode Laser," <i>Applied Optics</i> 32 (30) 6104-6116 (1993) DOI 10.1364/AO.32.006104
300	S.H. Smith, A. Lozano, M.G. Mungal and R.K. Hanson, "Scalar Mixing in the Subsonic Jet in Crossflow," paper at AGARD 72nd Fluid Dynamics Meeting, Apr. 19-23, 1993, Winchester, United Kingdom.

Publication list of Ron Hanson

299	R.K. Hanson, "Laser Diagnostics for Combustion and Propulsion," in <i>Laser Applications in Combustion and Combustion Diagnostics</i> , L.C. Liou, ed., Soc. Photo-Opt. Instrum. Eng. <i>Proc. SPIE</i> 1862 98-112 (1993) DOI 10.1117/12.145713
298	R.L. McKenzie, R.K. Hanson and A.C. Eckbreth, "Shedding New Light on Gas Dynamics," <i>Aerospace America</i> , Nov. 1992, 20-25.
297	R.K. Hanson and L.C. Philippe, "Diode Laser Absorption Technique for Monitoring Mass Flux in High Speed Airflows," invited presentation at NASP Mid-Term Technology Review, Monterey, Apr. 22, 1992; published in NASP Technology Proceedings.
296	J.D. Trolinger, R. K. Hanson, B. Yip and B.E. Battles, "Resonant Holographic Interferometry — A Multipoint, Multiparameter Diagnostics Tool for Hypersonic Flow," in <i>New Trends in Instrumentation for Hypersonic Research</i> , A. Boutier (ed.), NATO ASI, Series E-Vol. 224, Kluwer Academic Publishers, The Netherlands, 123-134 (1992) DOI 10.1007/978-94-011-1828-6_11
295	R.K. Hanson, "Laser-based Diagnostics for Hypersonic Flows," in <i>New Trends in Instrumentation for Hypersonic Research</i> , A. Boutier (ed.), NATO ASI, Series E-Vol. 224, Kluwer Academic Publishers, The Netherlands, 185-194 (1992) DOI 10.1007/978-94-011-1828-6_16
294	M.D. DiRosa, A.Y. Chang and R.K. Hanson, "Continuous Wave Dye-laser Technique for Simultaneous, Spatially-resolved Measurements of Temperature, Pressure and Velocity of NO in an Underexpanded Free Jet," <i>Applied Optics</i> 32 4074-4087 (1993) DOI 10.1364/AO.32.004074
293	J.M. Seitzman and R.K. Hanson, "Comparison of Excitation Techniques for Quantitative Fluorescence Imaging of Reacting Flows," <i>AIAA J.</i> 31 , 513-519 (1993) DOI 10.2514/3.11359
292	D.F. Davidson, A.Y. Chang, M.D. DiRosa and R.K. Hanson, "A CW Laser Absorption Diagnostic for Methyl Radicals," <i>JQSRT</i> 49 559-571 (1993) DOI 10.1016/0022-4073(93)90067-R
291	B. Yip, M.F. Miller, A. Lozano and R.K. Hanson, "A Combined OH/Acetone Planar Laser-induced Fluorescence Imaging Technique for Visualizing Combustion Flows," <i>Expts. Fluids</i> 17 330-336 (1994) DOI 10.1007/BF01874413
290	L.C. Philippe and R.K. Hanson, "Laser-absorption Mass Flux Sensor for High-speed Air Flows," <i>Opt. Lett.</i> 16 2002-2004 (1992) DOI 10.1364/OL.16.002002
289	B.J. Patrie, J.M. Seitzman and R.K. Hanson, "Planar Imaging for 3-D Flow Visualization," presented at 20th Int. Congress on High Speed Photography and Photonics, Victoria, B. C., Sept. 1992 <i>Proc. SPIE.</i> 1801 DOI 10.1117/12.145718
288	M.P. Arroyo and R.K. Hanson, "Tunable Diode Laser Absorption Technique for Multi-parameter Measurements of Combustion Flows," 6th Int. Symp. on Applications of Laser Techniques to Fluid Mechanics, Lisbon, Portugal, July 1992.
287	J.D. Mertens, A.J. Dean, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of the Reactions of NCO with O and NO using NCO Laser Absorption," 24th Symp. (Int.) on Combustion, The Comb. Inst., 701-710 (1992) DOI 10.1016/S0082-0784(06)80086-X
286	D.F. Davidson, M.D. DiRosa, A.Y. Chang, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of Methane Decomposition using Laser Absorption by CH ₃ ," 24th Symp. (Int.) on Combustion, The Comb. Inst., 589-596 (1992) DOI 10.1016/S0082-0784(06)80072-X
285	M.P. Lee, B.K. McMillin and R.K. Hanson, "Temperature Measurements in Gases using Planar Laser-induced Fluorescence Imaging of NO," <i>Applied Optics</i> 32 5379-5396 (1993) DOI 10.1364/AO.32.005379
284	B. Yip, P.M. Danehy and R.K. Hanson, "Degenerate Four-wave Mixing Temperature Measurements in a Flame," <i>Opt. Lett.</i> 17 751-753 (1992) DOI 10.1364/OL.17.000751
283	D.S. Baer, H.A. Chang and R.K. Hanson, "Semiconductor Laser-based Measurements of Quench Rates in an Atmospheric Pressure Plasma using Saturated-fluorescence Spectroscopy, AIAA-1992-2961 at 23rd Plasmadynamics and Lasers Conference, Nashville, July 6-8, 1992 DOI 10.2514/6.1992-2961
282	J.G. Liebeskind, R.K. Hanson and M.A. Cappelli, "Flow Diagnostics of an Arcjet Thruster using Laser-induced Fluorescence," AIAA-1992-3243 at 28th Joint Propulsion Conference and Exhibit., Nashville, 7/6-8/1992 DOI 10.2514/6.1992-3243

Publication list of Ron Hanson

281	B.K. McMillin, J.L. Palmer and R.K. Hanson, "Instantaneous 2-D Temperature Measurements of a Transverse Jet in a Shock-heated Supersonic Crossflow," AIAA-1992-3347 at 28th Joint Propulsion Conference and Exhibit, Nashville, 7/6-8/1992 DOI 10.2514/6.1992-3347
280	B.E. Battles and R.K. Hanson, "Quantitative Fluorescence Measurements of the OH Radical in High Pressure Methane Flames," AIAA-1992-2960 at 23rd Plasmadynamics and Lasers Conf., Nashville, July 6-8, 1992 DOI 10.2514/6.1992-2960
279	M.D. DiRosa, L.C. Philippe, M.P. Arroyo and R.K. Hanson, "CW Laser Strategies for Simultaneous Multi-parameter Measurements in High-speed Flows," AIAA-1992-3955 at 17th Aerospace Ground Testing Conf., Nashville, 7/6-8/1992 DOI 10.2514/6.1992-3955
278	R.K. Hanson, "Laser-Photolysis Shock Tube Studies of Radical Reactions," invited paper at ACS Nat. Meeting, Symp. on Physical Chemistry in Atmospheric Science and Combustion, San Francisco, Apr. 5-12, 1992.
277	J.L. Palmer, B.K. McMillin and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging of Velocity and Temperature in Shock Tunnel Flows," AIAA-1992-0762 at 30th AIAA Aerospace Sciences Meeting, Reno, 1/1992 DOI 10.2514/6.1992-762
276	J.M. Seitzman and R.K. Hanson, "Quantitative Fluorescence Imaging: A Comparison of Linear, Predissociative and Saturated Pumping Techniques," AIAA-1992-0879 at 30th AIAA Aerospace Sciences Meeting, Reno, Jan. 6-9, 1992 DOI 10.2514/6.1992-879
275	J.L. Palmer, B.K. McMillin and R.K. Hanson, " Planar Laser-induced Fluorescence Measurements of High-enthalpy Free Jet Flow with Nitric Oxide ," NASA Conf. Publication 3161, 375-386 (1992); presented at 1992 NASA Measurement Technology Conf., NASA Langley Res. Ctr., Apr. 22-23, 1992.
274	J.D. Trolinger, C.F. Hess, B. Yip, B. Battles and R.K. Hanson, "Hydroxyl Density Measurements in a Flame with Resonant Holographic Interferometry," AIAA-1992-0582 at 30th AIAA Aerospace Sciences Meeting, Reno, 1/1992 DOI 10.2514/6.1992-582
273	B.J. Patrie, J.M. Seitzman and R.K. Hanson, "Planar Imaging at High Framing Rates: System Characterization and Measurements," AIAA-1992-0584 at AIAA 30th AIAA Aerospace Sciences Meeting, Reno, Jan. 1992 DOI 10.2514/6.1992-584
272	M.P. Arroyo and R.K. Hanson, "Tunable Diode Laser Absorption Technique for Detection of Water Vapor in Aerodynamic Flows," AIAA-1992-0510 at 30th AIAA Aerospace Sciences Meeting, Reno, 1/1992 DOI 10.2514/6.1992-510
271	D.S. Baer, H. J. Chang and R.K. Hanson, "Fluorescence Diagnostics for Atmospheric Pressure Plasmas using Semiconductor Lasers," <i>J. Opt. Soc. Am. B</i> 9 1968-1978 (1992) DOI 10.1364/JOSAB.9.001968 ; also AIAA-1992-0679 at 30th AIAA Aerospace Sciences Meeting, Reno, Jan. 1992 DOI 10.2514/6.1992-679 .
270	J.G. Liebeskind, R.K. Hanson and M.A. Cappelli, "Laser-induced Fluorescence of Atomic Hydrogen in an Arcjet Thruster," AIAA-1992-0678 at AIAA 30th AIAA Aerospace Sciences Meeting, Reno, 1/1992 DOI 10.2514/6.1992-678
269	M.D. DiRosa and R.K. Hanson, "CW Dye Laser Technique for Simultaneous, Spatially-resolved Measurements of Temperature, Pressure and Velocity of NO in an Underexpanded Jet," AIAA-1992-0006 at 30th AIAA Aerospace Sciences Meeting, Reno, Jan. 1992 DOI 10.2514/6.1992-6
268	L.C. Philippe and R.K. Hanson, "Sensitive Diode Laser Absorption Technique for Aerodynamic Measurements," AIAA-1992-0139 at 30th AIAA Aerospace Sciences Meeting, Reno, 1/1992 DOI 10.2514/6.1992-139
267	D.L. Hofeldt and R.K. Hanson, "Instantaneous Imaging of Particle Size and Spatial Distribution in Two-Phase Flows," <i>Applied Optics</i> 30 4936-4948 (1992) DOI 10.1364/AO.30.004936
266	A. Lozano, B. Yip and R.K. Hanson, "Acetone: A Tracer for Concentration Measurements in Gaseous Flows by Planar Laser-induced Fluorescence," <i>Expts. Fluids</i> 13 369-376 (1992) DOI 10.1007/BF00223244
265	D.S. Baer and R.K. Hanson, "Tunable Diode Laser Absorption Diagnostics for Atmospheric Pressure Plasmas," <i>JQSRT</i> 47 455-475 (1992) DOI 10.1016/0022-4073(92)90106-E
264	M.A. Cappelli, R.K. Hanson, J.G. Liebeskind and D.H. Manzella, " Optical Diagnostics of a Low Power Hydrogen Arcjet ," paper IEPC 91-091 at 22nd Int. Electric Propulsion Conf., Viareggio, Italy, 10/14-17/1991.

Publication list of Ron Hanson

263	R.K. Hanson, C.T. Bowman and D.F. Davidson, "High Temperature Reaction Kinetics Relevant to Nitramine Combustion," JANNAF Combustion Meeting, San Antonio, TX, Nov. 1, 1991.
262	D.F. Davidson, M.D. DiRosa, A.Y. Chang, R.K. Hanson and C.T. Bowman, "High Temperature Reaction Kinetics of the Methyl Radical," paper 91-103 at WSS/CI meeting, UCLA, Oct. 14-15, 1991.
261	D.F. Davidson, M.D. DiRosa, A.Y. Chang and R.K. Hanson, "Shock Tube Measurements of the Major Product Channels of $N_2O + O$," <i>Shock Waves</i> , K. Takayama (ed.), Springer-Verlag, 813-818 (1993), Proc. of the 18th Int. Symp. on Shock Waves (ISSW), Sendai, Japan, July 1991.
260	A.Y. Chang, M.D. DiRosa and R.K. Hanson, "Temperature Dependence of Collision Broadening and Shift in the $NO A \leftarrow X(0,0)$ Band in the Presence of Argon and Nitrogen," <i>JQSRT</i> 47 375-390 (1992) DOI 10.1016/0022-4073(92)90039-7
259	N. Clemens, P.H. Paul, M.G. Mungal and R.K. Hanson, "Scalar Mixing in the Supersonic Shear Layer," AIAA-1991-1720, 22nd Fluid Dynamics, Plasma Dynamics and Lasers Conf., Honolulu, June 24-27, 1991 DOI 10.2514/6.1991-1720
258	M.D. DiRosa and R.K. Hanson, "CW Laser Strategy of Probing NO at 220 nm for Flow Measurements," paper at Optcon '91, Santa Clara, 11/1991.
257	L.C. Philippe and R.K. Hanson, "Tunable Diode Laser Sensor for Temperature and Velocity Measurements of Oxygen," paper at Optcon '91, Santa Clara, 11/1991.
256	J.D. Mertens, A.Y. Chang, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of Reactions of Atomic Oxygen with Isocyanic Acid," <i>IJCK</i> 24 279-295 (1992) DOI 10.1002/kin.550240306
255	L.C. Cohen and R.K. Hanson, "Emission and Laser-induced Fluorescence Measurements in a Supersonic Jet of Plasma-Heated Nitrogen," <i>J. Phys. D: App. Phys.</i> 25 339-351 (1992) DOI 10.1088/0022-3727/25/3/001
254	M.P. Lee, B.K. McMillin, J.L. Palmer and R.K. Hanson, "Two-dimensional Imaging of a Transverse Jet in Supersonic Crossflow," <i>J. Propul. Power</i> 8 729-735 (1992) DOI 10.2514/3.23542
253	D.F. Davidson, A.Y. Chang, M.D. DiRosa and R.K. Hanson, "Development of a cw Laser Absorption Diagnostics for CH_3 ," paper WSS/CI 91-20 at WSS/CI Spring Meeting, Boulder, CO, Mar. 18-19, 1991.
252	J.M. Seitzman and R.K. Hanson, "Planar Fluorescence Imaging: Basic Concepts for Scalar and Velocity Measurements," chapter 14 in <i>Combusting-flow Diagnostics</i> , eds. D. Durao, M. Heitor, J. Whitelaw and P. Witze, Kluwer Academic Publishers, NATO/ASI Series E, 1991 DOI 10.1007/978-94-011-2588-8_5
251	A. Lozano, I. van Cruyningen, P. Danehy and R.K. Hanson, "Medidas De Concentraciones en un Jet Turbulento Mediante Fluorescencia Planar Inducida Por Laser," presented at 9th Congreso Nacional de Ingeniera Mecanica, 17-19 Dec. 1990, Zaragoza, Spain; published in Congress Proceedings.
250	J.G. Liebeskind, R.K. Hanson and M.A. Cappelli, "Velocity Measurement of a Hydrogen Arcjet using LIF," AIAA-1991-2112 at AIAA/SAE/ASME/ASEE 27th Joint Propulsion Conf., Sacramento, CA, July 1991 DOI 10.2514/6.1991-2112
249	B.K. McMillin, M.P. Lee, J.L. Palmer and R.K. Hanson, "Two-dimensional Imaging of Shock Tube flows using Planar Laser-induced Fluorescence," <i>Shock Waves</i> , Proc. of 18th Shock Tube Symp., Sendai, Japan, 1991; T. Takayama (ed.), Springer-Verlag, 819-824 (1992).
248	D.S. Baer, L.C. Philippe and R.K. Hanson, "Tunable Diode Laser Diagnostics for Atmospheric Pressure Plasmas," AIAA-1991-1495 at AIAA 22nd Fluid Dynamics, Plasma Dynamics and Lasers Conf., Honolulu, Hawaii, June 24-26, 1991 DOI 10.2514/6.1991-1495
247	J.L. Palmer, B.K. McMillin and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging of Underexpanded Free Jet Flow in a Shock Tunnel Facility," AIAA-1991-1687 at AIAA 22nd Fluid Dynamics, Plasma Dynamics and Lasers Conf., Honolulu, Hawaii, June 24-26, 1991.
246	B.E. Battles and R.K. Hanson, "Laser-based Measurements of OH in High Pressure CH_4 /Air Flames," AIAA-1991-1494 at AIAA 22nd Fluid Dynamics, Plasma Dynamics and Lasers Conf., Honolulu, Hawaii, June 24-26, 1991 DOI 10.2514/6.1991-1494
245	B.K. McMillin, M.P. Lee, J.L. Palmer and R.K. Hanson, "Two-dimensional Temperature Measurements of

Publication list of Ron Hanson

	Nonequilibrium Supersonic Flows using Planar Laser-induced Fluorescence of Nitric Oxide,” AIAA-1991-1670 at AIAA 22nd Fluid Dynamics, Plasma Dynamics and Lasers Conf., Honolulu, Hawaii, June 24-26, 1991 DOI 10.2514/6.1991-1670
244	J.D. Mertens, K. Kohse-Höinghaus, R.K. Hanson and C.T. Bowman, “A Shock Tube Study of $H + HNCO \rightarrow NH_2 + CO$,” <i>IJCK</i> 23 655-668 (1991) DOI 10.1002/kin.550230802
243	A.Y. Chang, M.D. DiRosa, D.F. Davidson and R.K. Hanson, “Rapid-tuning CW Laser Technique for Measurements of Gas Velocity, Temperature, Pressure, Density and Mass Flux using NO,” <i>Applied Optics</i> 30 3011-3022 (1991) DOI 10.1364/AO.30.003011
242	D.F. Davidson, A.Y. Chang, M.D. DiRosa and R.K. Hanson, “Continuous Wave Laser Absorption Techniques for Gasdynamic Measurements in Supersonic Flows,” <i>Applied Optics</i> 30 2598-2608 (1991) DOI 10.1364/AO.30.002598
241	D.F. Davidson, A.J. Dean, M.D. DiRosa and R.K. Hanson, “Shock Tube Measurements of the Reactions of CN with O and O ₂ ,” <i>IJCK</i> 23 1035-1050 (1991) DOI 10.1002/kin.550231107 ; also paper 90-13 at Fall WSS/CI Meeting, La Jolla, CA, Oct. 15-16, 1990.
240	R.K. Hanson, “Laser Diagnostics Research at Stanford,” invited presentation at Joint French-German Workshop on Hermes Research, Le Fauga, France, 7/1990.
239	J.M. Seitzman and R.K. Hanson, “Recent Developments in Laser Diagnostics at Stanford's High Temperature Gasdynamics Lab,” invited presentation at ICALEO '90, Boston, Nov. 1990; published in Symp. Proceedings.
238	E.C. Rea, Jr., A.Y. Chang and R.K. Hanson, “Motional Narrowing in Spectral Lines of OH,” not submitted Nov. 1990.
237	A. Lozano, I. van Cruyningen and R.K. Hanson, “Planar Laser-induced Fluorescence Scalar Measurements in a Turbulent Jet,” <i>Proc. 5th Int. Symp. on Applications of Laser Techniques to Fluid Mechanics</i> , Lisbon, Portugal, July 9-12, 1990 DOI 10.1007/978-3-642-61254-1_2
236	L.C. Philippe and R.K. Hanson, “Tunable Diode Laser Absorption Sensor for Temperature and Velocity Measurements of O ₂ in Air Flows,” AIAA-1991-0360 at 29th AIAA Aerospace Sciences Meeting, Reno, NV, 1/1991 DOI 10.2514/6.1991-360
235	J.M. Seitzman, P.H. Paul, B.J. Patrie and R.K. Hanson, “Instantaneous 3-D and Temporal Evolution Measurements by Rapid Acquisition of Planar Images,” AIAA-1991-0178 at 29th AIAA Aerospace Sciences Meeting, Reno, NV, 1/1991 DOI 10.2514/6.1991-178
234	M.D. DiRosa, A.Y. Chang, D.F. Davidson and R.K. Hanson, “CW Dye Laser Techniques for Simultaneous Measurements of Temperature, Pressure and Velocity in High-speed Flows using NO and O ₂ ,” AIAA-1991-0359 at 29th AIAA Aerospace Sciences Meeting, Reno, NV, 1/1991 DOI 10.2514/6.1991-359
233	P.H. Paul, U. Meier, J.M. Seitzman and R.K. Hanson, “Single-shot Multiple-camera Planar Laser-induced Fluorescence Imaging in Gaseous Flows,” AIAA-1991-0459 at 29th AIAA Aerospace Sciences Meeting, Reno, NV, 1/1991.
232	M.P. Lee, B.K. McMillin, J.L. Palmer and R.K. Hanson, “Two-dimensional Imaging of Combustion Phenomena in a Shock Tube using Planar Laser-induced Fluorescence,” AIAA-1991-0460 at 29th AIAA Aerospace Sciences Meeting, Reno, NV, 1/1991 DOI 10.2514/6.1991-460
231	R.K. Hanson, A.Y. Chang, M.D. DiRosa, L.C. Philippe, B.K. McMillin and M.P. Lee, “Laser-based Diagnostics for Propulsion and Hypersonics Testing,” AIAA-1990-1383 presented at AIAA 16th Aerodynamic Ground Testing Conf., Seattle WA, 6/1990.
230	A.J. Dean, R.K. Hanson and C.T. Bowman, “A Shock Tube Study of Reactions of C-atoms and CH with NO including Product Channel Measurements,” <i>J. Phys. Chem.</i> 95 3180-3189 (1991) DOI 10.1021/j100161a042
229	P.H. Paul, M.P. Lee, B.K. McMillin, J.M. Seitzman and R.K. Hanson, “Applications of Planar Laser-induced Fluorescence Imaging Diagnostics to Supersonic Reacting Flow,” AIAA-90-1844 at 28th AIAA/SAE/ASME/ASEE Joint Propulsion Conf., Orlando, FL, 7/1990 DOI 10.2514/6.1990-1848
228	I. van Cruyningen, A. Lozano and R.K. Hanson, “Quantitative Imaging of Concentration by Planar Laser-induced Fluorescence,” <i>Expts. Fluids</i> 10 41-49 (1990) DOI 10.1007/BF00187871

Publication list of Ron Hanson

227	A.J. Dean and R.K. Hanson, "CH and C-Atom Time Histories in Dilute Hydrocarbon Pyrolysis: Measurements and Kinetics Calculations," <i>IJCK</i> 24 517-532 (1992) DOI 10.1002/kin.550240602
226	J.M. Seitzman, A. Ungut, P.H. Paul and R.K. Hanson, "Imaging and Characterization of OH Structures in a Turbulent Nonpremixed Flame," 23rd Symp. (Int.) on Combustion, The Comb. Inst., 637-644 (1990) DOI 10.1016/S0082-0784(06)80311-5
225	D.F. Davidson and R.K. Hanson, "Shock Tube Measurements of the Rate Coefficient for $N + CH_3 \rightarrow H_2CN + H$ using N-Atom ARAS and Excimer Photolysis of NO," 23rd Symp. (Int.) on Combustion, The Comb. Inst., 267-273 (1990) DOI 10.1016/S0082-0784(06)80269-9
224	B.K. McMillin, M.P. Lee, P.H. Paul and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging of Shock-induced Ignition," 23rd Symp. (Int.) on Combustion, The Comb. Inst., 1909-1913 (1990) DOI 10.1016/S0082-0784(06)80473-X
223	A.J. Dean, R.K. Hanson and C.T. Bowman, "High Temperature Shock Tube Study of Reactions of CH and C-Atoms with N_2 ," 23rd Symp. (Int.) on Combustion, The Comb. Inst., 259-265 (1990) DOI 10.1016/S0082-0784(06)80268-7
222	B.K. McMillin, P.H. Paul and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging of Nitric Oxide in Shock Tube Flows with Vibrational Nonequilibrium," <i>AIAA J.</i> 30 436-443 (1992) DOI 10.2514/3.10935 ; also AIAA-1990-1519 at AIAA 21st Fluid Dynamics, Plasmadynamics and Lasers Conf., Seattle WA, June 1990 DOI 10.2514/6.1990-1519
221	R.K. Hanson and J.M. Seitzman, "Planar Fluorescence Imaging: Concepts and Applications," invited presentation at NATO Advanced Study Inst., Algarve, Portugal, Apr. 16-27, 1990.
220	I.J. van Cruyningen, A. Lozano and R.K. Hanson, "Computer Rendering of Planar Fluorescence Flowfield Images," AIAA-1990-0499 at 28th AIAA Aerospace Sciences Meeting, Reno, NV, 1/1990 DOI 10.2514/6.1990-499
219	J.M. Seitzman, P.H. Paul and R.K. Hanson, "PLIF Imaging Analysis of OH Structures in a Turbulent Nonpremixed H_2 Air Flame," AIAA-1990-0160 at 28th AIAA Aerospace Sciences Meeting, Reno, NV, 1/1990 DOI 10.2514/6.1990-160
218	R.K. Hanson, A. Y. Chang, J.M. Seitzman, M.P. Lee, P.H. Paul and B.E. Battles, "Laser-induced Fluorescence Diagnostics for Supersonic Flows," AIAA-1990-0625 at 28th AIAA Aerospace Sciences Meeting, Reno, NV, Jan. 1990 DOI 10.2514/6.1990-625
217	J.M. Seitzman, R.K. Hanson, P.H. Paul, M.P. Lee and B.K. McMillin, "Laser-induced Fluorescence Diagnostics for Supersonic Flows," paper WA2-1 at Laser Applications to Chemical Analysis, Feb. 5-8, 1990, Incline Village, NV.
216	D.F. Davidson and R.K. Hanson, "A Direct Comparison of Shock Tube Photolysis and Pyrolysis Methods in the Determination of the Rate Coefficient for $O + H_2 \rightarrow OH + H$," <i>Comb. and Flame</i> 82 445-447 (1990) DOI 10.1016/0010-2180(90)90014-I
215	P.H. Paul, I. van Cruyningen, R.K. Hanson and G. Kychakoff, "High Resolution Digital Flowfield Imaging of Jets," <i>Expts. Fluids</i> 9 241-251 (1990) DOI 10.1007/BF00233124
214	R.K. Hanson, J.M. Seitzman and P.H. Paul, "Planar Laser-fluorescence Imaging in Combustion Gases," <i>App. Phys. B</i> 50 441-454 (1990) DOI 10.1007/BF00408770
213	I. van Cruyningen, A. Lozano, M.G. Mungal and R.K. Hanson, "3D Visualization of Temporal Flow Sequences," <i>AIAA J.</i> 29 479-482 (1991) DOI 10.2514/3.10606
212	A.J. Dean, D.F. Davidson and R.K. Hanson, "A Shock Tube Study of Reactions of Carbon Atoms with H_2 and O_2 using Excimer Photolysis of C_3O_2 and Carbon Atom Atomic Resonance Absorption Spectroscopy," <i>J. Phys. Chem.</i> 95 183-191 (1991) DOI 10.1021/j100154a037
211	A.Y. Chang, B.E. Battles and R.K. Hanson, "Simultaneous Measurements of Velocity, Temperature and Pressure using Rapid cw Wavelength-modulation Laser-induced Fluorescence of OH," <i>Opt. Lett.</i> 15 706-708 (1990) DOI 10.1364/OL.15.000706
210	B.K. McMillin, M.P. Lee, J.L. Palmer, P.H. Paul and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging of Shock-heated Flows in Vibrational Nonequilibrium," <i>ASME FED-Vol.</i> 85 , 55-62 (1989); presented at 1989 ASME Winter Meeting, Symp. of Flow Visualization, San Francisco, CA, Dec. 10-15, 1989.

Publication list of Ron Hanson

209	I. van Cruyningen, A. Lozano and R.K. Hanson, "Interpretation of Planar Laser-induced Fluorescence Flowfield Images," ASME FED-Vol. 85 , 109-114 (1989); presented at 1989 ASME Winter Meeting, Symp. of Flow Visualization, San Francisco, CA, Dec. 10-15, 1989.
208	M.P. Lee, P.H. Paul and R.K. Hanson, "2-D Velocity Measurements in Supersonic Flow using Pulsed Planar Laser-induced Fluorescence," ASME FED-Vol. 85 , 101-108 (1989); presented at 1989 ASME Winter Meeting, Symp. of Flow Visualization, San Francisco, CA, Dec. 10-15, 1989.
207	J.D. Mertens, A.Y. Chang, D.A. Masten, R.K. Hanson and C.T. Bowman, "A Shock Tube Study of the Reactions of NH with NO, O and O ₂ ," <i>IJCK</i> 23 173-196 (1991); also paper 89-96 at Fall WSS/CI Meeting, Livermore, CA, Oct. 23-24, 1989 DOI 10.1002/kin.550230208
206	D.A. Masten, R.K. Hanson and C.T. Bowman, "Shock Tube Study of the Reaction $H + O_2 \rightarrow OH + O$ using OH Laser Absorption," <i>J. Phys. Chem.</i> 94 7119-7128 (1990) DOI 10.1021/j100381a033 ; also paper 89-97 at Fall WSS/CI Meeting, Livermore, CA, Oct. 23-24, 1989.
205	A. Lozano, I. van Cruyningen, M.G. Mungal and R.K. Hanson, "Volume Rendering of 2-D and 3-D Flowfield Image Data," presented at 42nd annual meeting of the Fluid Dynamics Section of APS, NASA Ames Res. Center, CA, 11/19-21/1989.
204	D.F. Davidson and R.K. Hanson, "High Temperature Reaction Rate Coefficients Derived from N-Atom ARAS Measurements and Excimer Photolysis of NO," <i>IJCK</i> 22 843-861 (1990) DOI 10.1002/kin.550220805
203	M.A. Cappelli, P.H. Paul and R.K. Hanson, "Laser-induced Fluorescence Imaging of Laser Ablated Barium," <i>App. Phys. Lett.</i> 56 1715-1717 (1990) DOI 10.1063/1.103124 ; also presented at 42nd Gaseous Electronics Conf., Palo Alto, Oct. 1989.
202	M.P. Lee, P.H. Paul, B.K. McMillin and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging of NO in Supersonic Flows," paper 89-40 at Fall WSS/CI Meeting, Livermore, CA, Oct. 23-24, 1989.
201	J. Haumann, J.M. Seitzman and R.K. Hanson, "Quantitative Two-dimensional Imaging of CO in Combustion Gases using LIF," in <i>Instrumentation for Combustion and Flow in Engines</i> , D.F.G. Durao, J.H. Whitelaw and P.O. Witze, eds., proceedings of meeting held in Vimeira, Portugal, Sep. 1987, <i>NATO Adv. Study Inst. Ser.</i> 154E , 141-150 (1989) DOI 10.1007/978-94-009-2241-9_7
200	D.F. Davidson, A.J. Dean, A.Y. Chang and R.K. Hanson, "Shock Tube Combustion Studies using Optical Diagnostics and Excimer Photolysis," presented at 1989 AIChE Annual Meeting, San Francisco, CA, Nov. 5-10, 1989.
199	P.H. Paul, J.M. Seitzman, A. Ungut and R.K. Hanson, "Structural OH Imaging in a Turbulent H ₂ -Air Diffusion Flame," presented at 42nd annual meeting of the Fluid Dynamics Section of APS, NASA Ames Res. Center, CA, 11/19-21/1989.
198	I. van Cruyningen, A. Lozano and R.K. Hanson, "Quantitative Planar Laser-induced Fluorescence Imaging of Turbulent Jets," presented at 42nd annual meeting of the Fluid Dynamics Section of APS, NASA Ames Res. Center, CA, 11/19-21/1989.
197	E.C. Rea, Jr., A.Y. Chang and R.K. Hanson, "Motional Narrowing in Spectral Lines of OH," paper 89-45 at Fall WSS/CI Meeting, Livermore, CA, 10/23-24/1989.
196	J.M. Seitzman, A. Ungut, P.H. Paul and R.K. Hanson, "Structural Characterization of a Turbulent Nonpremixed Hydrogen-Air Flame with PLIF of OH," paper 89-42 at Fall WSS/CI Meeting, Livermore, CA, 10/23-24/1989.
195	A. Gicquel, M.A. Cappelli, A.Y. Chang and R.K. Hanson, "Study of NH ₃ Plasma/Titanium Surface Interaction: Measurement of NH Radical Production and Dissociation Kinetics by Laser Absorption Spectroscopy," presented and published in Proceedings of Int. Plasma Chemistry Conf. (ILPC), Beri, Italy, Sept. 1989.
194	I.J. van Cruyningen, A. Lozano and R.K. Hanson, "Interpretation of Planar Laser-induced Fluorescence Flowfield Images," paper W-6/TSF-7 at Int. Turbulent Shear Flow Conf., Stanford, CA, 8/21-23/1989.
193	P.H. Paul, M.A. Cappelli and R.K. Hanson, "Imaging of Laser Produced Plasmas using Planar Laser-induced Fluorescence," presented at Int. Laser Science Conf., ILS 5, Stanford, CA, 8/28-31/1989.
192	J.D. Mertens, A.Y. Chang, R.K. Hanson and C.T. Bowman, "Reaction Kinetics of NH in the Shock Tube Pyrolysis of HNCO," <i>IJCK</i> 21 1049-1067 (1989) DOI 10.1002/kin.550211107

Publication list of Ron Hanson

191	D.F. Davidson, K. Kohse-Höinghaus, A.Y. Chang and R.K. Hanson, "A Pyrolysis Mechanism for Ammonia," <i>IJCK</i> 22 513-535 (1990) DOI 10.1002/kin.550220508 ; also paper 89-95 at Fall WSS/CI Meeting, Livermore, CA, Oct. 23-24, 1989.
190	B.K. McMillin, M.P. Lee, P.H. Paul and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging in a Shock Tube," AIAA-89-2566 at 25th AIAA/ASME/ASCE/SAE Joint Propulsion Conf., Monterey, CA, 7/10-12/1989 DOI 10.2514/6.1989-2566
189	D.F. Davidson, A.Y. Chang, K. Kohse-Höinghaus and R.K. Hanson, "High Temperature Absorption Coefficients of O ₂ , NH ₃ and H ₂ O for Broadband ArF Excimer Laser Radiation," <i>JQSRT</i> 42 267-278 (1989) DOI 10.1016/0022-4073(89)90073-3
188	D.F. Davidson, D.C. Snell and R.K. Hanson, "Shock Tube Excimer Photolysis and the Measurement of N Atom Kinetic Rates," AIP Conf. Proc. 208 , <i>Current Topics in Shock Waves: 17th Shock Tube Symp.</i> , ed. Y.W Kim (Bethlehem, PA 1990), 525-530 DOI 10.1063/1.39385 ; also presented at 17th Int. Symp. on Shock Tubes and Waves, Lehigh, PA, July 1989.
187	A.J. Dean, D.F. Davidson and R.K. Hanson, "C-Atom ARAS Diagnostic for Shock Tube Kinetics Studies," AIP Conf. Proc. 208 , <i>Current Topics in Shock Waves: 17th Shock Tube Symp.</i> , ed. Y.W Kim (Bethlehem, PA 1990), 537-542 DOI 10.1063/1.39387 ; also presented at 17th Int. Symp. on Shock Tubes and Waves, Lehigh, PA, July 1989.
186	P.H. Paul, J. Seitzman and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging in Supersonic Flows," AIAA-89-2912 at 25th AIAA/ASME/ASCE/SAE Joint Propulsion Conf., Monterey, CA, 7/10-12/1989 DOI 10.2514/6.1989-2912
185	I. van Cruyningen, A. Lozano and R.K. Hanson, "Quantitative Laser-induced Fluorescence Imaging of Flowfields," presented at Electronic Imaging West '89, Pasadena, CA, 4/10-13/1989; published in Conf. proceedings.
184	A.J. Dean and R.K. Hanson, "Development of a Laser Absorption Diagnostic for Shock Tube Studies of CH," <i>JQSRT</i> 42 375-384 (1989) DOI 10.1016/0022-4073(89)90004-6
183	P.H. Paul, J.M. Seitzman, M.P. Lee, B.K. McMillin and R.K. Hanson, "Planar Laser-induced Fluorescence Imaging in Supersonic Flows," AIAA-89-0059 at 27th AIAA Aerospace Sciences Meeting, Reno, 1/9-12/1989 DOI 10.2514/6.1989-59
182	P.H. Paul, M.P. Lee and R.K. Hanson, "Molecular Velocity Imaging of Supersonic Flows using Pulsed Planar-induced Fluorescence of NO," <i>Opt. Lett.</i> 14 417-419 (1989) DOI 10.1364/OL.14.000417
181	A.Y. Chang and R.K. Hanson, "Measurements of Absorption Lineshapes in the A ³ Π _i ← X ³ Σ (0,0) Band of NH in the Presence of Ar Broadening," <i>JQSRT</i> 42 207-217 (1989) DOI 10.1016/0022-4073(89)90004-6
180	P.H. Paul, J.M. Seitzman, M.P. Lee, B.K. McMillin and R.K. Hanson, "PLIF Imaging in Supersonic Flows using Planar Laser-induced Fluorescence," in <i>Advances in Laser Science - IV</i> , J. L. Gore, et al., eds. (Optical Science and Engineering Series 10, Am Inst. Physics, NY, 1989), 744 DOI 10.1063/1.38573
179	R.K. Hanson, "Applications of PLIF Imaging to Supersonic Flows," invited paper presented at 54th National Aero-Space Plane Symp., NASA Langley Res. Ctr., Hampton, VA, 10/18-21/1988.
178	D.S. Baer, A.Y. Chang, P.H. Paul and R.K. Hanson, "Plasma Diagnostics using PLIF and Wavelength Modulation Spectroscopy," paper E-14 presented at 42nd Gaseous Electronics Conf., Minneapolis, 10/17-21/1988.
177	R.K. Hanson, "Laser-based Diagnostics for Gaseous Flows," invited paper presented at workshop on Diagnostics for Ground-based NASP Testing, West Palm Beach, Florida, 4/1988.
176	R.K. Hanson, "Advanced Diagnostic Techniques for Testing NASP Engine Modules," invited presentation at workshop on NASP/ETF program, Arnold AFB, TN, Aug. 24-25, 1988.
175	K. Kohse-Höinghaus, D.F. Davidson and R.K. Hanson, "Quantitative NH ₂ Laser-absorption Diagnostic for Shock Tube Kinetics Studies," <i>JQSRT</i> 42 1-17 (1989) DOI 10.1016/0022-4073(89)90103-9 ; also poster paper presented at 22nd Symp. (Int.) on Combustion, Seattle, Aug. 15-19, 1988.
174	B. Hiller and R.K. Hanson, "Properties of the Iodine Molecule Relevant to Laser-induced Fluorescence Experiments in Gas Flows," <i>Expts. Fluids</i> 10 1-11 (1990) DOI 10.1007/BF00187865

Publication list of Ron Hanson

173	A.J. Dean, D.F. Davidson and R.K. Hanson, "Development and Application of CH Laser Absorption Diagnostic for Shock Tube Kinetic Studies," paper 88-91 at Western States Section/The Comb. Inst., Laguna Beach, CA, 10/1988.
172	J.D. Mertens, A.Y. Chang, R.K. Hanson and C.T. Bowman, "Decomposition Kinetics of HNCO at High Temperatures," paper 88-64 at Western States Section/The Comb. Inst., Laguna Beach, CA, 10/1988.
171	P.H. Paul, J.M. Seitzman, M.P. Lee, B.K. McMillin and R.K. Hanson, "Imaging of Supersonic Flows using Planar Laser-induced Fluorescence," poster paper presented at 22nd Symp. (Int.) on Combustion, Seattle, Aug. 15-19, 1988.
170	A.J. Dean, D.F. Davidson and R.K. Hanson, "CH Diagnostic for Shock Tube Kinetic Studies using Laser Absorption at 431 nm," poster paper presented at 22nd Symp. (Int.) on Combustion, Seattle, Aug. 15-19, 1988.
169	D.F. Davidson, A.Y. Chang and R.K. Hanson, "Laser Photolysis Shock Tube for Combustion Kinetics Studies," 22nd Symp. (Int.) on Combustion 22 , (1) 1877-1885 (1989) DOI 10.1016/S0082-0784(89)80202-4
168	R.K. Hanson, A.Y. Chang and D.F. Davidson, "Modern Shock Tube Methods for Chemical Studies in High Temperature Gases," AIAA paper 88-2712; presented at AIAA Thermophysics, Plasmadynamics and Lasers Conf., San Antonio, Texas, June 27-29, 1988 DOI 10.2514/6.1988-2712
167	J.M. Seitzman, P.H. Paul and R.K. Hanson, "Digital Imaging of Laser-Ignited Combustion," AIAA paper 88-2775; presented at AIAA Thermophysics, Plasmadynamics and Lasers Conf., San Antonio, Texas, June 27-29, 1988 DOI 10.2514/6.1988-2775
166	R.K. Hanson, P.H. Paul and J.M. Seitzman, "Digital Fluorescence Imaging of Gaseous Flows," <i>Materials Research Society Symp. proceedings</i> (MRS, Pittsburgh, PA), 117 227-237, 1988; presented at MRS - Reno Meeting, Apr. 5-7, 1988 DOI 10.1557/PROC-117-227
165	K. Kohse-Höinghaus, D.F. Davidson and R.K. Hanson, "Quantitative NH ₂ Laser-absorption Diagnostic for Shock Tube Kinetic Studies," paper 88-55 presented at the spring meeting, Western States Section/The Comb. Inst., Salt Lake City, Utah, Mar. 21-22, 1988.
164	E.C. Rea, Jr., A.Y. Chang and R.K. Hanson, "Collisional Broadening of the A ² Σ ⁺ ← X ² Π (o,o) Band of OH by H ₂ O and CO ₂ in Atmospheric-pressure Flames," <i>JQSRT</i> 41 29-42 (1989) DOI 10.1016/0022-4073(89)90018-6
163	I. van Cruyningen, A. Lozano and R.K. Hanson, "Planar Laser-based Fluorescence Imaging of Flowfield Scalars," presented at ICALEO '88, Santa Clara, CA, 10/31-11/4/1988.
162	R.K. Hanson, "Laser-based Fluorescence Imaging of Gaseous Flows," invited paper presented at ICALEO '88, Santa Clara, 10/31-11/4/1988.
161	R.K. Hanson, "Laser-based Spectroscopic Measurements in High Temperature Gases," invited paper presented at 1988 Annual Meeting of the Optical Society of America, Santa Clara, CA, 10/31-11/4/1988.
160	P.H. Paul, J.M. Seitzman, L.M. Cohen, B.K. McMillin and R.K. Hanson, " Planar Laser-induced Fluorescence Imaging in Supersonic Flows ," invited paper THC1 presented at CLEO '88, Anaheim, CA, Apr. 1988.
159	R.K. Hanson and J.M. Seitzman, "Planar Fluorescence Imaging in Gases," Chap. 15, 219-132, in <i>Handbook of Flow Visualization</i> , ed. W. -J. Yang, Hemisphere Pub. Corp., 1989.
158	B. Hiller, P.H. Paul and R.K. Hanson, "Image-intensified Photodiode Array as a Fluorescence Detector in CW-laser Experiments," <i>Review of Scientific Inst.</i> 61 (7) 1808-1815 (1990) DOI 10.1063/1.1141098
157	B. Hiller and R.K. Hanson, "Simultaneous Planar Measurements of Velocity and Pressure Fields in Gas Flows using Laser-induced Fluorescence," <i>Applied Optics</i> 27 33-48 (1988) DOI 10.1364/AO.27.000033
156	Y. Asano, D.S. Baer, R. Hernberg and R.K. Hanson, "Radial Distribution Measurement of SiH in a Low Pressure Silane Plasma," <i>Plasma Chemistry and Plasma Processing</i> 8 1-8 (1988) DOI 10.1007/BF01016926
155	E.C. Rea, Jr., A.Y. Chang and R.K. Hanson, "Rapid Laser-wavelength Modulation Spectroscopy Applied as a Fast Temperature Measurement Technique in Hydrocarbon Combustion," <i>Applied Optics</i> 27 4454-4464 (1988) DOI 10.1364/AO.27.004454
154	U. Vandsburger, J.M. Seitzman and R.K. Hanson, "Visualization Methods for the Study of Unsteady Non-premixed Flame Structure," <i>Comb. Sci. and Tech.</i> 56 455-461 (1988) DOI 10.1080/00102208808947111
153	R.K. Hanson, "Planar Laser-induced Fluorescence Imaging," <i>JQSRT</i> 40 343-362 (1988) DOI 10.1016/0022-

Publication list of Ron Hanson

	4073(88)90125-2 ; also presented at S.S. Penner Spectroscopy Symp., La Jolla, July 1986
152	P.H. Paul, I. van Cruyningen and R.K. Hanson, "High-resolution Planar Laser-induced Fluorescence Imaging of Jets," presented at APS Fluid Dynamics Meeting, Eugene, OR, 11/ 22-25/1987.
151	E.C. Rea, Jr., A.Y. Chang and R.K. Hanson, "Rapid-tuning Laser Absorption Diagnostics for Shock Tube Flows," <i>Shock Tubes and Waves</i> , ed. H. Gronig, (VCH Publishers) 863-869 (1987); presented at 16th Int. Symp. on Shock Tubes and Waves, Aachen, July 1987.
150	G. Kychakoff, P.H. Paul, I. van Cruyningen and R.K. Hanson, "Movies and 3-D Images of Flowfields using Planar Laser-induced Fluorescence," <i>Applied Optics</i> 26 2498-2500 (1987) DOI 10.1364/AO.26.002498
149	Y. Asano, D.S. Baer and R.K. Hanson, "Substrate Temperature Dependence of SiH Concentration in Silane Plasmas for Amorphous Silicon Film Deposition," <i>J. Non-Cryst. Solids</i> 94 5-10 (1987) DOI 10.1016/S0022-3093(87)80254-5
148	M.P. Lee, P.H. Paul and R.K. Hanson, "Quantitative Imaging of Temperature Fields in Air using Planar Laser-induced Fluorescence of O ₂ ," <i>Opt. Lett.</i> 12 (2) 75-77 1987 DOI 10.1364/OL.12.000075
147	C. Hassa, P.H. Paul and R.K. Hanson, "Laser-induced Fluorescence Modulation Technique for Velocity Measurements in Gas Flows," <i>Expts. Fluids</i> 5 240-246 (1987) DOI 10.1007/BF00279736 .
146	A.Y. Chang, E.C. Rea, Jr. and R.K. Hanson, "Temperature Measurements in Shock Tubes using a Laser-based Absorption Technique," <i>Applied Optics</i> 26 885-891 (1987) DOI 10.1364/AO.26.000885 .
145	L.M. Cohen, M.P. Lee, P.H. Paul and R.K. Hanson, "Two-dimensional Imaging Measurements in Supersonic Flows using Laser-induced Fluorescence of Oxygen," AIAA paper 87-1527; presented at AIAA 22nd Thermophysics Conf., Honolulu, HI, June 8-10, 1987 DOI 10.2514/6.1987-1527
144	D.L. Hofeldt, M.G. Allen and R.K. Hanson, "Instantaneous Two-dimensional Multiple Particle-sizing Diagnostic," ICALEO '87 Symp. on Flow and Particle Diagnostics, 182-189, 1987; presented at ICALEO '87, San Diego, CA, Nov. 12, 1987.
143	D.L. Hofeldt, M.G. Allen and R.K. Hanson, "Instantaneous Two-dimensional Multiple Particle-sizing Diagnostic," presented at 24th JANNAF Combustion Meeting, Monterey, CA, 10/ 1987.
142	I. van Cruyningen, P.H. Paul and R.K. Hanson, "Turbulent Flowfield Interpretation through Processing of PLIF Images," paper presented at fall meeting of Western States Section/The Comb. Inst., Honolulu, HI, 11/1987.
141	R.K. Hanson, M.G. Allen, M.P. Lee and P.H. Paul, "Recent Advances in Digital Fluorescence Imaging of High Temperature Flowfields," <i>Proc. of 1987 ASME/JSME Thermal Engineering Conf.</i> , 1 175-180 (1987).
140	B. Hiller, L.M. Cohen and R.K. Hanson, "Simultaneous Measurements of Velocity and Pressure Fields in Subsonic and Supersonic Flows through Image-intensified Detection of Laser-induced Fluorescence," <i>Flow Visualization IV</i> , ed. C. Veret, (Hemisphere Pub. Corp.), 173-178 (1987).
139	J.M. Seitzman, J. Haumann and R.K. Hanson, "Quantitative Two-photon LIF Imaging of Carbon Monoxide in Combustion Gases," <i>Applied Optics</i> 26 2892-2899 (1987) DOI 10.1364/AO.26.002892
138	R.K. Hanson, "Two-dimensional Detector Arrays and Their Applications to Imaging Diagnostics," presented at Topical Meeting on Laser Applications to Chemical Analysis," Incline Village, Jan. 26-29, 1987.
137	M.G. Allen and R.K. Hanson, "Simultaneous Imaging of Species Distributions in Two-Phase Reacting Flowfields," presented at Int. Laser Science Conf. 1986, Seattle, 10/ 1986.
136	U. Vandsburger, G. Lewis, M.G. Allen, J.M. Seitzman, C.T. Bowman and R.K. Hanson, "Flame-flow Structure in an Acoustically Driven Jet Flame," paper WSS/CI 86-19 at fall meeting of Western States Section, The Comb. Inst., Tucson, 10/27-28/1986.
135	M.G. Allen and R.K. Hanson, "Digital Imaging of Species Concentration Fields in Spray Flames," 21st Symp. (Int.) on Combustion, The Comb. Inst., 1755-1762 (1986) DOI 10.1016/S0082-0784(88)80409-0
134	R.K. Hanson, "Combustion Diagnostics: Planar Flowfield Imaging," 21st Symp. (Int.) on Combustion, The Comb. Inst., 1677-1691 (1986) DOI 10.1016/S0082-0784(88)80401-6
133	C.T. Bowman, R.K. Hanson, U. Vandsburger, M.G. Allen and K.R. McManus, "Effects of Fuel Spray Characteristics and Vaporization on Energy Release Rates and Flow Field Structure in a Dump Combustor," 23rd

Publication list of Ron Hanson

	JANNAF Combustion Meeting, Hampton, VA, Oct. 20-24, 1986.
132	M.G. Allen and R.K. Hanson, " Species Imaging in Spray Flames ," paper TUK 38 at CLEO '86, San Francisco, June 9-13, 1986.
131	P.H. Paul, M.P. Lee and R.K. Hanson, " Laser Fluorescence Imaging of Temperature Fields in Air ," paper TUK 37 at CLEO '86, San Francisco, June 9-13, 1986.
130	R.K. Hanson, "Multipoint Flow Diagnostics," invited paper presented at ICALEO '86, Arlington, VA, Nov. 10-13, 1986.
129	J. Haumann, J.M. Seitzman and R.K. Hanson, "Two-photon Digital Imaging of CO in Combustion Flows using Planar Laser-induced Fluorescence," <i>Opt. Lett.</i> 11 776 (1986) DOI 10.1364/OL.11.000776
128	G. Kychakoff, P.H. Paul, I. van Cruyningen and R.K. Hanson, "High-resolution and Three-dimensional Digital Imaging of Jets," paper WSS/CI 86-15 at fall meeting of Western States Section, The Comb. Inst., Tucson, Oct. 27-28, 1986.
127	G. Kychakoff and R.K. Hanson, "Digital Flowfield Imaging," Int. Meeting on Physics and Engineering in Computerized Multidimensional Imaging and Processing, Newport Beach, CA, 1986, <i>Proc. SPIE.</i> 0671 , 72-80 DOI 10.1117/12.966680
126	M.G. Allen, R.D. Howe and R.K. Hanson, "Digital Imaging of Reaction Zones in Hydrocarbon-Air Flames using Planar Laser-induced Fluorescence," <i>Opt. Lett.</i> 11 126-128 (1986) DOI 10.1364/OL.11.000126
125	E.C. Rea, Jr., A.Y. Chang and R.K. Hanson, "Shock Tube Study of Pressure Broadening of the $A_2\Sigma^+ - X_2\Pi$ (o,o) Band of OH by Ar and N ₂ ," <i>JQSRT</i> 37 117-127 (1987) DOI 10.1016/0022-4073(87)90015-X ; also Western States Section/Comb. Inst. paper 86-3, Banff, Apr. 27-30, 1986
124	B. Hiller, L.M. Cohen and R.K. Hanson, "Simultaneous Measurements of Velocity and Pressure Fields in Subsonic and Supersonic Flows through Image-intensified Detection of Laser-induced Fluorescence," AIAA-86-0161, presented at the 24th AIAA Aerospace Sciences Meeting, Reno, Nevada, 1/ 6-9/ 1986 DOI 10.2514/6.1986-161
123	M.P. Lee, P.H. Paul and R.K. Hanson, "Laser Fluorescence Imaging of O ₂ in Combustion Flows using an ArF Laser," <i>Opt. Lett.</i> 11 7-9 (1986) DOI 10.1364/OL.11.000007
122	P. Roth, M.Y. Louge and R.K. Hanson, "O- and N-Atom Measurements in High Temperature C ₂ N ₂ + O Kinetics," <i>Comb. and Flame</i> 64 167 (1986) DOI 10.1016/0010-2180(86)90053-2
121	M.A. Kimball-Linne and R.K. Hanson, "Combustion-Driven Flow Reactor Studies of Thermal DeNO _x Reaction Kinetics," <i>Comb. and Flame</i> 64 337-351 (1986) DOI 10.1016/0010-2180(86)90150-1
120	M.A. Kimball-Linne, G. Kychakoff and R.K. Hanson, "Fiberoptic Absorption/Fluorescence Combustion Diagnostics," <i>Comb. Sci. and Technol.</i> 50 307-322 (1986) DOI 10.1080/00102208608923939
119	M.P. Lee and R.K. Hanson, "Calculations of O ₂ Absorption and Fluorescence at Elevated Temperatures for a Broadband Argon Fluoride Laser Source at 193 nm," <i>JQSRT</i> 36 425-440 (1986) DOI 10.1016/0022-4073(86)90098-1
118	M.G. Allen and R.K. Hanson, "Planar Laser-induced Fluorescence Monitoring of OH in a Spray Flame," <i>Optical Engineering</i> 25 1309-1311 (1986) DOI 10.1117/12.7974004
117	M.Y. Louge and R.K. Hanson, "Shock Tube Study of High Temperature Absorption Spectroscopy of CH at 431 nm," presented at 15th Int. Symp. on Shock Waves and Shock Tubes, Berkeley, CA, July 29-Aug. 1, 1985; also <i>Shock Waves and Shock Tubes</i> , ed. D. Bershader and R.K. Hanson (Stanford University Press) 827-831 (1986).
116	B. Hiller and R.K. Hanson, "Combined Measurements of Velocity and Pressure Fields in Compressible Flows using Laser-induced Fluorescence," paper WG. 4 at Lasers '85, Las Vegas, Dec. 2-6, 1985.
115	R.K. Hanson, J.M. Seitzman, J. Haumann, M.P. Lee and P.H. Paul, "Laser Fluorescence Imaging Diagnostics for Gaseous Flows," paper WG. 3 at Lasers '85, Las Vegas, Dec. 2-6, 1985.
114	M.G. Allen and R.K. Hanson, "Digital Imaging in Spray Flames," paper 85-13 at Western States Section/Comb. Inst. Fall Meeting, UC Davis (Oct. 1985).
113	M.P. Lee, P.H. Paul and R.K. Hanson, "Laser Fluorescence Imaging of O ₂ in Combustion Flows using an ArF

Publication list of Ron Hanson

	Laser,” paper 85-15 at Western States Section/The Comb. Inst. Fall Meeting, UC Davis (Oct. 1985).
112	F. Itoh, G. Kychakoff and R.K. Hanson, “Flow Visualization in Low-pressure Chambers using Laser-induced Biacetyl Phosphorescence,” <i>J. Vacuum Sci. and Technol. B</i> 3 (6) 1600-1603 (1985) DOI 10.1116/1.582946
111	A.Y. Chang and R.K. Hanson, “Shock Tube Study of HCN Self-broadening and Broadening by Argon for the P (10) Line of the v1 Band at 3 μm,” <i>JQSRT</i> 33 213-217 (1985) DOI 10.1016/0022-4073(85)90150-5
110	J.M. Seitzman, G. Kychakoff and R.K. Hanson, “Instantaneous Temperature Field Measurements using Planar Laser-induced Fluorescence,” <i>Opt. Lett.</i> 10 439-441 (Sep. 1985) DOI 10.1364/OL.10.000439
109	B. Hiller and R.K. Hanson, “Two-frequency Laser-induced Fluorescence Technique for Rapid Velocity-field Measurements in Gas Flows,” <i>Opt. Lett.</i> 10 206-208 (1985) DOI 10.1364/OL.10.000206
108	C. Hassa and R.K. Hanson, “Fast Laser-induced Aerosol Formation for Visualization of Gas Flows,” <i>Rev. of Sci. Inst.</i> 56 557-559 (1985) DOI 10.1063/1.1138286
107	A. Szekely, R.K. Hanson and C.T. Bowman, “Shock Tube Study of the Reaction between Hydrogen Cyanide and Atomic Oxygen,” 20th Symp. (Int.) on Combustion, The Comb. Inst., 647-654 (1985) DOI 10.1016/S0082-0784(85)80554-3
106	G. Kychakoff, R.K. Hanson and R.D. Howe, “Simultaneous Multiple-point Measurements of OH in Combustion Gases using Planar Laser-induced Fluorescence,” 20th Symp. (Int.) on Combustion, The Comb. Inst., 1265-1272 (1985) DOI 10.1016/S0082-0784(85)80616-0
105	M.Y. Louge and R.K. Hanson, “Shock Tube Study of NCO Kinetics,” 20th Symp. (Int.) on Combustion, The Comb. Inst., 665-672 (1985) DOI 10.1016/S0082-0784(85)80556-7
104	R.K. Hanson, B. Hiller, E.C. Rea, Jr., J.M. Seitzman, G. Kychakoff and R.D. Howe, “Laser-based Diagnostics for Flowfield Measurements,” <i>Amer. Soc. Mech. Eng. AMD-Vol. 66</i> , 1-10 (1984).
103	R.K. Hanson, M.Y. Louge, E.C. Rea, Jr., J.M. Seitzman and B. Hiller, “Recent Developments in Absorption and Fluorescence Laser Diagnostics for High Temperature Gases,” <i>L.I.A. (Laser Inst. of America) Vol. 47, ICALEO</i> , 98-106 (1984).
102	G. Kychakoff, R.D. Howe and R.K. Hanson, “Spatially Resolved Combustion Measurements using Cross-beam Saturated Absorption Spectroscopy,” <i>Applied Optics</i> 23 1303-1305 (1984) DOI 10.1364/AO.23.001303
101	G. Kychakoff, P.H. Paul and R.K. Hanson, “ Fiber-Optic Sensor Systems for Industrial Monitoring Applications ,” paper THA3 at CLEO 1984, Anaheim, 6/19-22/1984.
100	M.A. Kimball-Linne and R.K. Hanson, “Combustion-Driven Flow Reactor Studies of Thermal DeNO _x Reaction Kinetics,” presented at Fall Meeting, Western States Section/The Comb. Inst., Oct. 22-23, 1984.
99	J.M. Seitzman, G. Kychakoff and R.K. Hanson, “Temperature Field Measurements in Combustion Gases using Planar Laser-induced Fluorescence,” paper 84-66 at Fall Meeting, Western States Section/The Comb. Inst., Oct. 22-23, 1984.
98	J.M. Seitzman, G. Kychakoff and R.K. Hanson, “ Temperature Field Measurements in Combustion Gases using Planar Laser-induced Fluorescence ,” paper WF3 at CLEO 1984, Anaheim, 6/19-22/1984.
97	M.Y. Louge and R.K. Hanson, “High Temperature Kinetics of NCO,” <i>Comb. and Flame</i> 58 291-300 (1984) DOI 10.1016/0010-2180(84)90113-5
96	B. Hiller, R.A. Booman, C. Hassa and R.K. Hanson, “Velocity Visualization in Gas Flows using Laser-induced Phosphorescence of Biacetyl,” <i>Rev. Sci. Inst.</i> 55 1964-1967 (1984) DOI 10.1063/1.1137687
95	E.C. Rea, Jr., S. Salimian and R.K. Hanson, “Rapid-tuning Frequency-doubled Ring Dye Laser for High Resolution Absorption Spectroscopy in Shock-Heated Gases,” <i>Applied Optics</i> 23 (11) 1691-1694 (1984) DOI 10.1364/AO.23.001691
94	A. Szekely, R.K. Hanson and C.T. Bowman, “High-Temperature Determination of the Rate Coefficient for the Reaction CN + H ₂ O → OH + HCN,” <i>IJCK</i> 16 1609-1621 (1984) DOI 10.1002/kin.550161214
93	M.Y. Louge and R.K. Hanson, “High Temperature Kinetics of the Free Radical NCO,” paper 84-35 at the Western States Section/Comb. Inst. Meeting, Boulder, CO (Apr. 1984).

Publication list of Ron Hanson

92	M.Y. Louge, R.K. Hanson, E.C. Rea, Jr. and R.A. Booman, "Quantitative High Temperature Absorption Spectroscopy of NCO at 305 and 440 nm," <i>JQSRT</i> 32 353-362 (1984) DOI 10.1016/0022-4073(84)90106-7
91	G. Kychakoff, R.D. Howe, R.K. Hanson, M.D. Drake, R. Pitz, M. Lapp and C.M. Penney, "The Visualization of Turbulent Flame Fronts using Planar Laser-induced Fluorescence," <i>Science</i> 224 382-384 (1984) DOI 10.1126/science.224.4647.382
90	A. Szekely, R.K. Hanson and C.T. Bowman, "Shock Tube Study of the Thermal Decomposition of Cyanogen," <i>J. Chem. Phys.</i> 80 4982-4985 (1984) DOI 10.1063/1.446519
89	A. Szekely, R.K. Hanson and C.T. Bowman, "Thermal Decomposition of Hydrogen Cyanide behind Incident Shock Waves," <i>J. Phys. Chem.</i> 88 666 (1984) DOI 10.1021/j150648a009
88	S. Salimian, R.K. Hanson and C.H. Kruger, "High Temperature Study of the Reactions of O and OH with NH ₃ ," <i>IJCK</i> 16 725-739 (1984) DOI 10.1002/kin.550160609
87	S. Salimian, R.K. Hanson and C.H. Kruger, "Ammonia Oxidation in Shock-heated NH ₃ -N ₂ O-Ar Mixtures," <i>Combustion and Flame</i> 56 83-95 (1984) DOI 10.1016/0010-2180(84)90007-5
86	P.L. Varghese and R.K. Hanson, "Tunable Diode Laser Measurements of Spectral Parameters of HCN at Room Temperature," <i>JQSRT</i> 31 (6) 545-559 (1984) DOI 10.1016/0022-4073(84)90060-8
85	M.Y. Louge and R.K. Hanson, "Shock Tube Study of Cyanogen Oxidation Kinetics," <i>IJCK</i> 16 231 (1984) DOI 10.1002/kin.550160306
84	G. Kychakoff, K. Knapp, R.D. Howe and R.K. Hanson, "Flow Visualization in Combustion Gases using Nitric Oxide Fluorescence," <i>AIAA J.</i> 22 153-154 (1984) DOI 10.2514/3.8359
83	P.L. Varghese and R.K. Hanson, "Collisional Narrowing Effects on Spectral Line Shapes Measured at High Resolution," <i>Applied Optics</i> 23 (14) 2376-2385 (1984) DOI 10.1364/AO.23.002376
82	R.K. Hanson, S. Salimian and E.C. Rea, Jr., "Laser Absorption Techniques for Spectroscopy and Chemical Kinetics Studies in a Shock Tube," presented at 14th Int. Shock Tube Symp., Sydney, Australia, Aug. 15-18, 1983; also in <i>Shock Tubes and Waves</i> , ed. R. Archer and B. Milton, Sydney Symp. Publishers, 594-601 (1984).
81	G. Kychakoff, R.D. Howe and R.K. Hanson, "Quantitative Flow Visualization Technique for Measurements in Combustion Gases," <i>Applied Optics</i> 23 704-712 (1984) DOI 10.1364/AO.23.000704 ; also presented at 9th Int. Coll. on Explosions and Reactive Systems, Poitier, France, July 1983.
80	R.K. Hanson, "Tunable Diode Laser Measurement in Combustion Gases," <i>Tunable Diode Laser Development and Spectroscopy Applications Proc. SPIE</i> 438 75-83 (1983) DOI 10.1117/12.937432
79	R.K. Hanson, "Tunable Laser Absorption and Fluorescence Techniques for Combustion Research," invited paper presented at fall meeting of the APS, San Francisco (Nov. 21-23, 1983).
78	B. Hiller and R.K. Hanson, "Laser-induced Fluorescence Technique for Velocity Field Measurements in Compressible Flows," paper presented at APS Fluid Dynamics Meeting, Houston (Nov. 20-22, 1983).
77	P.K. Falcone, R.K. Hanson and C.H. Kruger, "Tunable Diode Laser Absorption Measurements of Nitric Oxide in Combustion Gases," <i>Comb. Science and Technol.</i> 35 81-99 (1983) DOI 10.1080/00102208308923704
76	G. Kychakoff, R.D. Howe and R.K. Hanson, "Use of Planar Laser-induced Fluorescence for the Study of Combustion Flowfields," AIAA paper 83-1361, 19th Propulsion Conf., Seattle (June 27-29, 1983) DOI 10.2514/6.1983-1361
75	A. Szekely, R.K. Hanson and C.T. Bowman, "Shock Tube Determination of the Rate Coefficient for the Reaction CN + HCN = C ₂ N ₂ + H," <i>IJCK</i> 15 1237-1241 (1983) DOI 10.1002/kin.550151110
74	E.C. Rea, Jr. and R.K. Hanson, "Fully Resolved Absorption/Fluorescence Lineshape Measurements of OH using a Rapid-scanning Ring Dye Laser," paper 83-66, presented at Western States Section/Comb. Inst. Fall Meeting, Los Angeles, CA (Oct. 1983).
73	A. Szekely, R.K. Hanson and C.T. Bowman, "Technique for the Rapid Generation of OH Radicals behind Shock Waves and Its Application to the Study of Combustion Kinetics," paper 83-76, presented at Western States Section/Comb. Inst. Fall Meeting, Los Angeles, CA (Oct., 1983).

Publication list of Ron Hanson

72	R.K. Hanson, G. Kychakoff, E.C. Rea, Jr., B. Hiller, R.D. Howe and M.A. Kimball-Linne, "Advanced Diagnostics for Reacting Flows," presented at 20th JANNAF Combustion Meeting, Naval Postgraduate School, Monterey, California (Oct. 1983).
71	J.C. McDaniel and R.K. Hanson, "Quantitative Visualization of Flowfields using Laser-induced Fluorescence," in <i>Proc. of 3rd Int. Flow Visualization Symp.</i> , University of Michigan, 113-117 (1983).
70	B. Hiller, J.C. McDaniel, E.C. Rea, Jr. and R.K. Hanson, "Laser-induced Fluorescence Technique for Velocity Field Measurements in Subsonic Gas Flows," <i>Opt. Lett.</i> 8 (9) 474-476 (1983) DOI 10.1364/OL.8.000474
69	K. Knapp and R.K. Hanson, "Spatially Resolved Tunable Diode Laser Absorption Measurements of CO using Optical Stark Shifting," <i>Applied Optics</i> 22 (13) 1980-1985 (1983) DOI 10.1364/AO.22.001980
68	G. Kychakoff, R.D. Howe, R.K. Hanson and K. Knapp, "Flow Visualization in Combustion Gases using Planar Laser-induced Fluorescence," 21st AIAA Aerospace Sciences Meeting, Reno, NV, AIAA-1983-0405 (Jan. 1983) DOI 10.2514/6.1983-405
67	A. Szekely, R.K. Hanson and C.T. Bowman, "High-Temperature Determination of the Rate Coefficient for the Reaction $H_2 + CN \rightarrow H + HCN$," <i>IJCK</i> 15 915-923 (1983) DOI 10.1002/kin.550150907
66	S. Salimian and R.K. Hanson, "Absorption Measurements of H ₂ O at High Temperatures using a CO Laser," <i>JQSRT</i> 30 1-7 (1983) DOI 10.1016/0022-4073(83)90066-3
65	G. Kychakoff, M.A. Kimball-Linne and R.K. Hanson, "Fiber-Optic Absorption/Fluorescence Probes for Combustion Measurements," <i>Applied Optics</i> 22 1426-1428 (1983) DOI 10.1364/AO.22.1426_1
64	R.K. Hanson, S. Salimian, G. Kychakoff and R.A. Booman, "Shock Tube Absorption Measurements of OH using a Remotely Located Dye Laser," <i>Applied Optics</i> 22 641-643 (1983) DOI 10.1364/AO.22.000641
63	E.C. Rea, Jr. and R.K. Hanson, "Rapid, Extended Range Tuning of Single-mode Ring Dye Lasers," <i>Applied Optics</i> 22 518-520 (1983) DOI 10.1364/AO.22.000518
62	J.C. McDaniel, B. Hiller and R.K. Hanson, "Simultaneous Multiple-point Velocity Measurements using Laser-induced Iodine Fluorescence," <i>Opt. Lett.</i> 8 51-53 (1983) DOI 10.1364/OL.8.000051
61	P.K. Falcone, R.K. Hanson and C.H. Kruger, "Tunable Diode Laser Measurements of the Band Strength and Collision Halfwidths of Nitric Oxide," <i>JQSRT</i> 29 (3) 205-221 (1983) DOI 10.1016/0022-4073(83)90039-0
60	C.T. Bowman, R.K. Hanson, M. Louge and A. Garman, "Gas Phase Reaction Kinetics of NO _x Formation from Fuel Nitrogen in Fossil Fuel Combustion," in <i>Proc. of 1982 Joint Symp. on Stationary NO_x Control</i> , Dallas, TX, (Nov. 1-4, 1982).
59	G. Kychakoff, R.D. Howe and R.K. Hanson, " Spatially Resolved Combustion Measurements using Crossed-beam Saturated Absorption Spectroscopy ," paper THM2 at CLEO 1982, Phoenix, AZ (Apr. 14-16, 1982).
58	M.A. Kimball-Linne, G. Kychakoff, R.K. Hanson and R.A. Booman, "A Fiber-Optic Fluorescence Probe for Species Measurements in Combustors," paper 82-50, Western States Section/The Comb. Inst. Meeting, Livermore, CA, (Oct. 11-12, 1982).
57	G. Kychakoff, K. Knapp, R.D. Howe and R.K. Hanson, "Quantitative Flow Visualization in Combustion Gases," paper 82-60, Western States Section/The Comb. Inst. Meeting, Livermore, CA (Oct. 11-12, 1982).
56	G. Kychakoff, R.D. Howe, R.K. Hanson and J.C. McDaniel, "Quantitative Visualization of Combustion Species in a Plane," <i>Applied Optics</i> 21 3225-3227 (1982) DOI 10.1364/AO.21.003225
55	S.M. Schoenung and R.K. Hanson, "Temporally and Spatially Resolved Measurements of Fuel Mole Fraction in a Turbulent CO Diffusion Flame," 19th Symp. (Int.) on Combustion, The Comb. Inst., Pittsburgh, 449-458 (1982) DOI 10.1016/S0082-0784(82)80217-8
54	R.K. Hanson and S. Salimian, "Survey of Rate Constants in the N/H/O System," Chapter 6 in <i>Combustion Chemistry</i> , ed. W.C. Gardiner, Jr. (Springer-Verlag), 361-421 (1982) DOI 10.1007/978-1-4684-0186-8_6
53	A. Szekely, R.K. Hanson and C.T. Bowman, "Shock Tube Study of the Thermal Dissociation of Hydrogen Cyanide," in <i>Shock Tubes and Waves</i> , State University of New York Press, 617-621 (1982).
52	S.M. Schoenung and R.K. Hanson, "Laser Absorption Sampling Probe for Temporally and Spatially Resolved

Publication list of Ron Hanson

	Combustion Measurements,” paper FB5 presented at CLEO 1981 , Washington, DC, June 1981; <i>IEEE Journal of Quantum Electronics</i> 17 (12) 156-156 (1981) DOI 10.1109/JQE.1981.1070954 ; <i>Applied Optics</i> 21 (10) 1767-1771 (1982) DOI 10.1364/AO.21.001767
51	G. Kychakoff and R.K. Hanson, “Optical Fiber Probe using Tunable Laser Absorption Spectroscopy for Combustion Measurements,” The Los Alamos Conf. on Optics 81, D. L. Lienbenbert, Ed., <i>Proc. SPIE</i> 288 , 236-240 (1982) DOI 10.1117/12.932048
50	G. Kychakoff and R.K. Hanson, “Tunable Laser Absorption/Fluorescence Fiberoptic Probe for Combustion Measurements,” paper 81-50, Western States Section/The Comb. Inst. (Oct. 1981).
49	P.L. Varghese and R.K. Hanson, “Room Temperature Measurements of Collision Widths of CO Lines Broadened by H ₂ O,” <i>J. Molecular Spectroscopy</i> 88 234-235 (1981) DOI 10.1016/0022-2852(81)90369-6
48	P.L. Varghese and R.K. Hanson, “Collision Width Measurements of CO in Combustion Gases using a Tunable Diode Laser,” <i>JQSRT</i> 26 339-347 (1981) DOI 10.1016/0022-4073(81)90128-X
47	T.R. Roose, R.K. Hanson and C.H. Kruger, “A Shock Tube Study of the Decomposition of NO in the Presence of NH ₃ ,” 18th Symp. (Int.) on Combustion, The Comb. Inst., Pittsburgh, PA, 853-862 (1981) DOI 10.1016/S0082-0784(81)80089-6
46	S.M. Schoenung and R.K. Hanson, “CO and Temperature Measurements in a Flat Flame by Laser Absorption Spectroscopy and Probe Techniques,” <i>Combustion Sci. and Tech.</i> 24 227-237 (1981) DOI 10.1080/00102208008952442
45	S. Salimian and R.K. Hanson, “A Kinetic Study of NO Removal from Combustion Gases by Injection of NHi-containing Compounds,” <i>Combustion Sci. and Tech.</i> 23 225-230 (1980) DOI 10.1080/00102208008952413
44	P.L. Varghese and R.K. Hanson, “Tunable Infrared Diode Laser Measurements of Line Strengths and Collision Widths of 12C 16O at Room Temperature,” <i>JQSRT</i> 24 479-489 (1980) DOI 10.1016/0022-4073(80)90017-5
43	A.C. Stanton, R.K. Hanson and M. Mitchner, “Performance of a CW Double Electric Discharge for Supersonic CO Lasers,” <i>J. App. Phys.</i> 51 1370-1378 (1980) DOI 10.1063/1.327832
42	A.C. Stanton, R.K. Hanson and M. Mitchner, “Vibrational Kinetics in CO Electrical Discharge Lasers: Modeling and Experiments,” <i>J. App. Phys.</i> 51 (3) 1360-1369 (1980) DOI 10.1063/1.327831
41	T.R. Roose, R.K. Hanson and C.H. Kruger, “Thermal Decomposition of NH ₃ in Shock Waves,” <i>Shock Tube and Waves</i> , ed. by A. Lifshitz and J. Rom, 476 (1980).
40	R.K. Hanson, P.L. Varghese, S.M. Schoenung and P.K. Falcone, “Absorption Spectroscopy of Combustion Gases using a Tunable Infrared Diode Laser,” in <i>Laser Probes in Combustion Chemistry</i> , 413-426, Vol. 134 of ACS Symp. Series (1980) DOI 10.1021/bk-1980-0134.ch035
39	R.K. Hanson, “Absorption Spectroscopy in Sooting Flames using a Tunable Diode Laser,” <i>Applied Optics</i> 19 (4) 482-484 (1980) DOI 10.1364/AO.19.000482
38	C.T. Bowman and R.K. Hanson, “Shock Tube Measurements of Rate Coefficients of Elementary Reactions,” <i>J. Phys. Chem.</i> 83 757-763 (1979) DOI 10.1021/j100469a023
37	R.K. Hanson, “Combustion Gas Measurements using Tunable Laser Absorption Spectroscopy,” AIAA paper 79-0086, 17th AIAA Aerospace Sciences Meeting, New Orleans (Jan. 1979) DOI 10.2514/6.1979-86
36	P.K. Falcone, R.K. Hanson and C.H. Kruger, “Measurements of Nitric Oxide in Combustion Gases using a Tunable Diode Laser,” paper 79-53 at autumn meeting of the Western States Section of the Comb. Inst., Berkeley, 10/1979.
35	R.K. Hanson, “High-resolution Absorption Spectroscopy of Combustion Gases,” invited talk presented at annual FACSS meeting, Philadelphia, Sep. 1979.
34	S.M. Schoenung, R.K. Hanson and P.K. Falcone, “CO Measurements in Combustion Gases by Laser Absorption Spectroscopy and Probe Sampling,” Western States Section, Comb. Inst. paper #78-46 (Oct. 1978).
33	J.P. Monat, R.K. Hanson and C.H. Kruger, “Shock Tube Determination of the Rate Coefficient for the Reaction O + N ₂ →N + NO,” The 17th Symp. (Int.) on Combustion, The Comb. Inst., Pittsburgh, PA, 543-552 (1978) DOI 10.1016/S0082-0784(79)80055-7

Publication list of Ron Hanson

32	R.K. Hanson, "Temperature Measurement Technique for High-Temperature Gases using a Tunable Diode Laser," <i>Applied Optics</i> 17 2477 (1978) DOI 10.1364/AO.17.002477
31	T.R. Roose, R.K. Hanson and C.H. Kruger, "Decomposition of NO in the Presence of NH ₃ " in Proc. of the 11 th (Int.) Symp. on Shock Tubes and Waves, University of Washington Press, p. 245 (1978).
30	R.K. Hanson, "High-resolution Spectroscopy of Shock-heated Gases using a Tunable Diode Laser," in Proc. of the 11 th (Int.) Symp. on Shock Tubes and Waves, University of Washington Press, 432 (1978).
29	J.P. Monat, R.K. Hanson and C.H. Kruger, "Kinetics of Nitrous Oxide Decomposition," <i>Comb. Sci. and Tech.</i> 16 21-28 (1977) DOI 10.1080/00102207708946790
28	W.L. Flower, R.K. Hanson and C.H. Kruger, "Experimental Study of Nitric Oxide Decomposition by Reaction with Hydrogen," <i>Comb. Sci. and Tech.</i> 15 115-128 (1977) DOI 10.1080/00102207708946777
27	R.K. Hanson, "Shock Tube Spectroscopy: Advanced Instrumentation with a Tunable Diode Laser," <i>Applied Optics</i> 16 (1977) DOI 10.1364/AO.16.1479_1
26	R.W. McCullough, C.H. Kruger and R.K. Hanson, "A Flow Tube Reactor Study of Thermal Decomposition Rates of Nitric Oxide," <i>Comb. Sci. and Tech.</i> 15 213-223 (1977) DOI 10.1080/00102207708946785
25	R.K. Hanson, P.A. Kuntz and C.H. Kruger, "High-resolution Spectroscopy of Combustion Gases using a Tunable IR Diode-laser," <i>Applied Optics</i> 16 2045-2048 (1977) DOI 10.1364/AO.16.002045
24	R.K. Hanson, P.A. Kuntz and C.H. Kruger, "Resonance Absorption Spectroscopy of Combustion Gases using Tunable Infrared Diode Lasers," presented at Fall Meeting of the Eastern States Section, The Comb. Inst., Philadelphia (Nov. 18-19, 1976).
23	R.W. McCullough, C.H. Kruger and R.K. Hanson, "Measurements of the Reaction Rate Constants of NO + O → N + O ₂ and NO + H → N + OH at 1700 and 2100 K," Western States Comb. Inst. Spring Meeting, Salt Lake City, Utah (Apr. 1976).
22	R.K. Hanson, J.P. Monat and C.H. Kruger, "Absorption of CO Laser Radiation by NO," <i>JQSRT</i> 16 705-713 (1976) DOI 10.1016/0022-4073(76)90063-7
21	R.K. Hanson, W.L. Flower, J.P. Monat and C.H. Kruger, " Decomposition of NO Studied by Infrared Emission and CO Laser Absorption ," <i>Modern Development in Shock Tube Research</i> , ed. by G. Kamimoto, Shock Tube Research Society, Japan, p. 536 (1975).
20	J.H. Blom and R.K. Hanson, "Double-discharge Arrangement for CW Electrical Excitation of Supersonic Flows," <i>App. Phys. Lett.</i> 26 190-192 (1975) DOI 10.1063/1.88111
19	W.L. Flower, R.K. Hanson and C.H. Kruger, "Investigation of Nitric Oxide Decomposition in the Temperature Range 2500-4100°K," Presented at the Spring 1974 meeting of the Western States Section of the Comb. Inst., Pullman, WA. (May 1974).
18	R.K. Hanson, W.L. Flower and C.H. Kruger, "Determination of the Rate Constant for the Reaction O + NO → N + O ₂ ," <i>J. Comb. Science and Tech.</i> 9 79-86 (1974) DOI 10.1080/00102207408960341
17	W.L. Flower, R.K. Hanson and C.H. Kruger, "Kinetics of the Reaction of Nitric Oxide with Hydrogen," in <i>15th Symp. (Int.) on Combustion</i> , The Comb. Inst., Pittsburgh, PA, 823-832 (Aug. 1974) DOI 10.1016/S0082-0784(75)80350-X
16	R.K. Hanson, "Shock Tube Study of Carbon Monoxide Dissociation Kinetics," <i>J. Chem. Phys.</i> 60 4970-4976 (June 15, 1974) DOI 10.1063/1.1681010
15	R.K. Hanson and W.L. Flower, "Verification of a Simple Relationship for Shock-wave Reflection in a Relaxing Gas," <i>AIAA Journal</i> 11 1777-1178 (Dec. 1973) DOI 10.2514/3.50694
14	R.K. Hanson, "The Dissociation of Shock-heated Carbon Monoxide," in <i>Recent Developments in Shock Tube Research</i> , ed. by D. Bershader and W. Griffith, Stanford University Press, p. 365 (1973).
13	R.K. Hanson, "Experimental Study of Shock-wave Reflection from a Thermally Accommodating Wall," <i>Physics of Fluids</i> 16 369-374 (1973) DOI 10.1063/1.1694351
12	G.S. Deiwert and R.K. Hanson, "Reflection of a Thick Planar Shock Wave from a Coplanar Surface," in Proc. of the

Publication list of Ron Hanson

	8th Int. Symp. on Rarefied Gas Dynamics, ed. by K. Karamcheti (Academic Press, 1973) DOI 10.1016/B978-0-12-398150-9.50018-3
11	R.K. Hanson and D. Baganoff, "Improved Fast-Response Pressure Gauge for Shock-reflection Studies in Ionized Gases," <i>Rev. Sci. Instr.</i> 43 394 (1972) DOI 10.1063/1.1685645
10	R.K. Hanson and D. Baganoff, "Shock Tube Study of Nitrogen Dissociation Rates using Pressure Measurements," <i>AIAA J.</i> 10 211 (1972) DOI 10.2514/3.50082
9	R.K. Hanson, "Ionization Relaxation Time Measurements in Neon," <i>J. Chem. Phys.</i> 55 3601 (1971) DOI 10.1063/1.1676624
8	R.K. Hanson, "Study of Gas-solid Interaction using Shock-wave Reflection," in Shock Tube Research, ed. by A. Gaydon, J. Owen and J. Stollery, Imperial College, London, paper 58, 1-12 (1971).
7	R.K. Hanson, "Shock Tube Study of Vibrational Relaxation in Carbon Monoxide using Pressure Measurements," <i>AIAA J.</i> 9 1811 (1971) DOI 10.2514/3.6427
6	R.K. Hanson, "The Influence of Film Thickness on the Calibration of Thin-film-gauge Backing Materials," <i>AIAA J.</i> 9 975-977 (1971) DOI 10.2514/3.6317
5	R.K. Hanson, "Shock-wave Reflection in a Relaxing Gas," <i>J. Fluid Mechanics</i> 45 721-746 (1971) DOI 10.1017/S0022112071000296
4	R.K. Hanson and D. Baganoff, "Shock Tube Study of Vibrational Relaxation in Nitrogen using Pressure Measurements," <i>J. Chem. Phys.</i> 53 4401 (1970) DOI 10.1063/1.1673958
3	R.K. Hanson and D. Baganoff, "Reflection of a Shock Wave into a Density Gradient," <i>AIAA J.</i> 8 805 (1970) DOI 10.2514/3.5760
2	L.L. Presley and R.K. Hanson, "Numerical Solutions of Reflected Shock-wave Flowfields with Nonequilibrium Chemical Reactions," paper at AIAA Fluid and Plasma Dynamics Conf. DOI 10.2514/6.1968-732 ; also <i>AIAA J.</i> 7 2267 (1969) DOI 10.2514/3.5526
1	R.K. Hanson and R. Watson, "Effects of Dissociation Rate Magnitudes and Relative Collision Efficiencies on Relaxation Profiles in Diatomic Gases," <i>AIAA J.</i> 4 749 (1966) DOI 10.2514/3.3538