

David F Davidson

List of Publications by Year in descending order

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178
papers

8,493
citations

36303

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all docs

182
docs citations

182
times ranked

2853
citing authors

#	ARTICLE	IF	CITATIONS
1	A new strategy of characterizing hydrocarbon fuels using FTIR spectra and generalized linear model with grouped-Lasso regularization. Fuel, 2021, 287, 119419.	6.4	15
2	Measurement of time histories of stable intermediates during first stage ignition of n-heptane and its two isomers in a shock tube. Proceedings of the Combustion Institute, 2021, 38, 957-965.	3.9	4
3	High-speed imaging of n-heptane ignition in a high-pressure shock tube. Proceedings of the Combustion Institute, 2021, 38, 911-918.	3.9	9
4	Shock tube study of ethanol pyrolysis II: Rate constant measurements and modeling. Combustion and Flame, 2021, 233, 111554.	5.2	3
5	Consonant excitation kinetics for $\text{O} + \text{C}_2\text{H}_5 \rightarrow \text{C}_2\text{H}_5\text{O} + \text{O}$. <i>Journal of Physical Chemistry A</i> , 2021, 125, 111553.	2.1	7
6	Shock tube study of ethanol pyrolysis I: Multi-species time-history measurements. Combustion and Flame, 2021, , 111553.	5.2	5
7	Experimental and modeling of autoignition of gaseous hydrocarbon fuels in the presence of H ₂ and C ₂ H ₄ . Fuel, 2021, 296, 120713.	6.4	3
8	Shock-induced ignition and pyrolysis of high-pressure methane and natural gas mixtures. Combustion and Flame, 2020, 221, 364-370.	5.2	20
9	A physics-based approach to modeling real-fuel combustion chemistry – VI. Predictive kinetic models of gasoline fuels. Combustion and Flame, 2020, 220, 475-487.	5.2	21
10	Determination of the JP10 + OH → Product Reaction Rate with Measured Fuel Concentrations in Shock Tube Experiments. Journal of Physical Chemistry A, 2020, 124, 3026-3030.	2.5	3
11	The pyrolysis of propane. International Journal of Chemical Kinetics, 2020, 52, 725-738.	1.6	11
12	The thermal decomposition of ethane. Fuel, 2020, 268, 117409.	6.4	19
13	Two-color frequency-multiplexed IMS technique for gas thermometry at elevated pressures. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	9
14	Spectroscopic inference of alkane, alkene, and aromatic formation during high-temperature JP8, JP5, and Jet-A pyrolysis. Fuel, 2020, 269, 117420.	6.4	6
15	Shock tube study of the rate constants for $\text{H} + \text{O}_2 \rightarrow \text{HO}_2$ and $\text{M} + \text{HO}_2 \rightarrow \text{M} + \text{O}_2$ (M = Ar, H ₂ O, CO ₂ , N ₂) at elevated pressures. Proceedings of the Combustion Institute, 2019, 37, 145-152.	3.9	34
16	Ignition delay times of methane and hydrogen highly diluted in carbon dioxide at high pressures up to 300 atm. Proceedings of the Combustion Institute, 2019, 37, 4555-4562.	3.9	69
17	A comparative laser absorption and gas chromatography study of low-temperature n-heptane oxidation intermediates. Proceedings of the Combustion Institute, 2019, 37, 249-257.	3.9	13
18	Shock tube measurements of OH concentration time-histories in benzene, toluene, ethylbenzene and xylene oxidation. Proceedings of the Combustion Institute, 2019, 37, 163-170.	3.9	14

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19	Single-Ended Sensor for Thermometry and Speciation in Shock Tubes Using Native Surfaces. IEEE Sensors Journal, 2019, 19, 4954-4961.	4.7	4
20	On estimating physical and chemical properties of hydrocarbon fuels using mid-infrared FTIR spectra and regularized linear models. Fuel, 2019, 255, 115715.	6.4	37
21	A streamlined approach to hybrid-chemistry modeling for a low cetane-number alternative jet fuel. Combustion and Flame, 2019, 208, 15-26.	5.2	10
22	Experimental Observation of Negative Temperature Dependence in <i>i</i> -Octane Burning Velocities. AIAA Journal, 2019, 57, 4476-4481.	2.6	20
23	Shock Tube Measurement of the $\text{CH}_3 + \text{C}_2\text{H}_6 \rightarrow \text{CH}_4 + \text{C}_2\text{H}_5$ Rate Constant. Journal of Physical Chemistry A, 2019, 123, 9096-9101.	2.5	10
24	A shock tube study of n-heptane, iso-octane, n-dodecane and iso-octane/n-dodecane blends oxidation at elevated pressures and intermediate temperatures. Fuel, 2019, 243, 541-553.	6.4	27
25	Shock tube techniques for kinetic target data to improve reaction models. Computer Aided Chemical Engineering, 2019, , 169-202.	0.5	3
26	Coupled Effects of Carbon Dioxide and Water Vapor Addition on Soot Formation in Ethylene Diffusion Flames. Energy & Fuels, 2019, 33, 5582-5596.	5.1	32
27	High-temperature laminar flame speed measurements in a shock tube. Combustion and Flame, 2019, 205, 241-252.	5.2	44
28	Multi-wavelength speciation of high-temperature 1-butene pyrolysis. Fuel, 2019, 244, 269-281.	6.4	14
29	Gravity-current-induced test gas stratification and its prevention in constrained reaction volume shock-tube experiments. Shock Waves, 2019, 29, 969-984.	1.9	1
30	Measurement of the reaction rate of $\text{H} + \text{O}_2 + \text{M} \rightarrow \text{HO}_2 + \text{M}$, for M= Ar, N ₂ , CO ₂ , at high temperature with a sensitive OH absorption diagnostic. Combustion and Flame, 2019, 203, 265-278.	8.2	22
31	Shock Tube Measurement of the $\text{C}_2\text{H}_4 + \text{H} \rightarrow \text{C}_2\text{H}_3 + \text{H}_2$ Rate Constant. Journal of Physical Chemistry A, 2019, 123, 15-20.	2.5	18
32	A new method of estimating derived cetane number for hydrocarbon fuels. Fuel, 2019, 241, 319-326.	6.4	31
33	A multi-wavelength speciation framework for high-temperature hydrocarbon pyrolysis. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 180-205.	2.3	24
34	Multi-wavelength speciation of high-temperature alternative and conventional jet fuel pyrolysis. , 2019, , .		2
35	Shock tube/laser absorption measurements of the pyrolysis of JP-10 fuel. , 2019, , .		1
36	High-Speed Imaging of Homogeneous and Inhomogeneous Ignition in a High Pressure Shock Tube. , 2019, , .		1

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37	Direct measurement of the JP-10+OH = Products reaction rate in shock tube experiments.. , 2019, , .		0
38	Demonstration of non-absorbing interference rejection using wavelength modulation spectroscopy in high-pressure shock tubes. Applied Physics B: Lasers and Optics, 2019, 125, 1.	2.2	15
39	Ignition delay time measurements and modeling for gasoline at very high pressures. Proceedings of the Combustion Institute, 2019, 37, 4885-4892.	3.9	20
40	Development of a two-wavelength IR laser absorption diagnostic for propene and ethylene. Measurement Science and Technology, 2018, 29, 055202.	2.6	17
41	A physics-based approach to modeling real-fuel combustion chemistry - I. Evidence from experiments, and thermodynamic, chemical kinetic and statistical considerations. Combustion and Flame, 2018, 193, 502-519.	5.2	304
42	A shock tube study of jet fuel pyrolysis and ignition at elevated pressures and temperatures. Fuel, 2018, 226, 338-344.	6.4	43
43	A shock tube study of ignition delay times in diluted methane, ethylene, propene and their blends at elevated pressures. Fuel, 2018, 225, 370-380.	6.4	41
44	A physics-based approach to modeling real-fuel combustion chemistry - II. Reaction kinetic models of jet and rocket fuels. Combustion and Flame, 2018, 193, 520-537.	5.2	247
45	Shock tube study of normal heptane first-stage ignition near 3.5 atm. Combustion and Flame, 2018, 198, 376-392.	5.2	18
46	A Physics-based approach to modeling real-fuel combustion chemistry - III. Reaction kinetic model of JP10. Combustion and Flame, 2018, 198, 466-476.	5.2	67
47	A combined laser absorption and gas chromatography sampling diagnostic for speciation in a shock tube. Combustion and Flame, 2018, 195, 40-49.	5.2	13
48	High-speed imaging of inhomogeneous ignition in a shock tube. Shock Waves, 2018, 28, 1089-1095.	1.9	24
49	A physics-based approach to modeling real-fuel combustion chemistry - IV. HyChem modeling of combustion kinetics of a bio-derived jet fuel and its blends with a conventional Jet A. Combustion and Flame, 2018, 198, 477-489.	5.2	95
50	Rate constants of long, branched, and unsaturated aldehydes with OH at elevated temperatures. Proceedings of the Combustion Institute, 2017, 36, 151-160.	3.9	5
51	Dependence of Calculated Postshock Thermodynamic Variables on Vibrational Equilibrium and Input Uncertainty. Journal of Thermophysics and Heat Transfer, 2017, 31, 586-608.	1.6	61
52	Combined Ab Initio, Kinetic Modeling, and Shock Tube Study of the Thermal Decomposition of Ethyl Formate. Journal of Physical Chemistry A, 2017, 121, 6568-6579.	2.5	14
53	A new diagnostic for hydrocarbon fuels using 3.41- μm diode laser absorption. Combustion and Flame, 2017, 186, 129-139.	5.2	29
54	Shock Tube and Laser Absorption Study of CH ₂ O Oxidation via Simultaneous Measurements of OH and CO. Journal of Physical Chemistry A, 2017, 121, 8561-8568.	2.5	26

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55	Chemical kinetic modeling and shock tube study of methyl propanoate decomposition. <i>Combustion and Flame</i> , 2017, 184, 30-40.	5.2	18
56	Toward a better understanding of 2-butanone oxidation: Detailed species measurements and kinetic modeling. <i>Combustion and Flame</i> , 2017, 184, 195-207.	5.2	53
57	Time-resolved sub-ppm CH ₃ detection in a shock tube using cavity-enhanced absorption spectroscopy with a ps-pulsed UV laser. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 4549-4556.	3.9	10
58	Pyrolysis and oxidation of methyl acetate in a shock tube: A multi-species time-history study. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 255-264.	3.9	20
59	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>Journal of Physical Chemistry A</i> , 2016, 120, 5427-5434.	2.5	23
60	Measurements of Oxygen Dissociation Using Laser Absorption. <i>Journal of Thermophysics and Heat Transfer</i> , 2016, 30, 274-278.	1.6	12
61	Kinetics of Excited Oxygen Formation in Shock-Heated O ₂ + Ar Mixtures. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8234-8243.	2.5	16
62	Shock Tube Measurement for the Dissociation Rate Constant of Acetaldehyde Using Sensitive CO Diagnostics. <i>Journal of Physical Chemistry A</i> , 2016, 120, 6895-6901.	2.5	11
63	AEROFROSH: a shock condition calculator for multi-component fuel aerosol-laden flows. <i>Shock Waves</i> , 2016, 26, 429-447.	1.9	36
64	High-speed OH* chemiluminescence imaging of ignition through a shock tube end-wall. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	31
65	Cavity-enhanced absorption spectroscopy with a ps-pulsed UV laser for sensitive, high-speed measurements in a shock tube. <i>Optics Express</i> , 2016, 24, 308.	3.4	11
66	Oxygen Vibrational Relaxation Times: Shock Tube/Laser Absorption Measurements. <i>Journal of Thermophysics and Heat Transfer</i> , 2016, 30, 791-798.	1.6	25
67	Scaling relation for high-temperature biodiesel surrogate ignition delay times. <i>Fuel</i> , 2016, 164, 151-159.	6.4	12
68	Shock-tube measurements of excited oxygen atoms using cavity-enhanced absorption spectroscopy. <i>Applied Optics</i> , 2015, 54, 8766.	2.1	32
69	Shock Tube Study of Dimethylamine Oxidation. <i>International Journal of Chemical Kinetics</i> , 2015, 47, 19-26.	1.6	16
70	Constrained reaction volume shock tube study of n -heptane oxidation: Ignition delay times and time-histories of multiple species and temperature. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 231-239.	3.9	60
71	An experimental and modeling study of propene oxidation. Part 2: Ignition delay time and flame speed measurements. <i>Combustion and Flame</i> , 2015, 162, 296-314.	5.2	270
72	High temperature measurements for the rate constants of C1-C4 aldehydes with OH in a shock tube. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 473-480.	3.9	49

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73	Shock-Tube Measurement of Acetone Dissociation Using Cavity-Enhanced Absorption Spectroscopy of CO. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7257-7262.	2.5	20
74	Shock tube and modeling study of 2,7-dimethyloctane pyrolysis and oxidation. <i>Combustion and Flame</i> , 2015, 162, 2296-2306.	5.2	17
75	High-sensitivity interference-free diagnostic for measurement of methane in shock tubes. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 156, 80-87.	2.3	49
76	Shock Tube/Laser Absorption Measurements of Jet Fuel Pyrolysis and Oxidation. , 2015, , .		3
77	Shock Tube Measurement of the High-Temperature Rate Constant for OH + CH ₃ → Products. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8799-8805.	2.5	8
78	Strategies for obtaining long constant-pressure test times in shock tubes. <i>Shock Waves</i> , 2015, 25, 651-665.	1.9	42
79	Ignition delay times of conventional and alternative fuels behind reflected shock waves. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 241-248.	3.9	56
80	A shock tube study of CH ₃ OH + OH → Products using OH laser absorption. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 377-384.	3.9	17
81	A second-generation constrained reaction volume shock tube. <i>Review of Scientific Instruments</i> , 2014, 85, 055108.	1.3	30
82	Ignition delay times of very-low-vapor-pressure biodiesel surrogates behind reflected shock waves. <i>Fuel</i> , 2014, 126, 271-281.	6.4	38
83	Shock tube study of the pressure dependence of monomethylhydrazine pyrolysis. <i>Combustion and Flame</i> , 2014, 161, 16-22.	5.2	15
84	Pyrolysis study of conventional and alternative fuels behind reflected shock waves. <i>Fuel</i> , 2014, 132, 170-177.	6.4	7
85	An improved kinetic mechanism for 3-pentanone pyrolysis and oxidation developed using multispecies time histories in shock-tubes. <i>Combustion and Flame</i> , 2014, 161, 1135-1145.	5.2	23
86	Shock Tube Measurements of Ignition Delay Times for the Butanol Isomers Using the Constrained Reaction Volume Strategy. <i>International Journal of Chemical Kinetics</i> , 2014, 46, 433-442.	1.6	6
87	Uncertainty-quantification analysis of the effects of residual impurities on hydrogen-oxygen ignition in shock tubes. <i>Combustion and Flame</i> , 2014, 161, 1-15.	5.2	64
88	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>Journal of Physical Chemistry A</i> , 2014, 118, 10201-10209.	2.5	31
89	High-Temperature Measurements of the Reactions of OH with Ethylamine and Dimethylamine. <i>Journal of Physical Chemistry A</i> , 2014, 118, 70-77.	2.5	18
90	Shock tube measurements of branched alkane ignition delay times. <i>Fuel</i> , 2014, 118, 398-405.	6.4	21

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91	Experimental and Modeling Study of the Thermal Decomposition of C ₃ –C ₅ Ethyl Esters Behind Reflected Shock Waves. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1785-1798.	2.5	33
92	Shock tube study of ethylamine pyrolysis and oxidation. <i>Combustion and Flame</i> , 2014, 161, 2512-2518.	5.2	20
93	1-Butanol ignition delay times at low temperatures: An application of the constrained-reaction-volume strategy. <i>Combustion and Flame</i> , 2014, 161, 634-643.	5.2	40
94	Recent advances in laser absorption and shock tube methods for studies of combustion chemistry. <i>Progress in Energy and Combustion Science</i> , 2014, 44, 103-114.	31.2	231
95	Shock tube measurements of the rate constant for the reaction cyclohexene+ethylene+1,3-butadiene. <i>Chemical Physics Letters</i> , 2013, 584, 18-23.	2.6	15
96	Multi-species time-history measurements during n-hexadecane oxidation behind reflected shock waves. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 369-376.	3.9	13
97	Multi-species time-history measurements during high-temperature acetone and 2-butanone pyrolysis. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 607-615.	3.9	39
98	Shock tube study of methanol, methyl formate pyrolysis: CH ₃ OH and CO time-history measurements. <i>Combustion and Flame</i> , 2013, 160, 2669-2679.	5.2	50
99	Methane and ethylene time-history measurements in n-butane and n-heptane pyrolysis behind reflected shock waves. <i>Fuel</i> , 2013, 108, 557-564.	6.4	22
100	High-temperature laser absorption diagnostics for CH ₂ O and CH ₃ CHO and their application to shock tube kinetic studies. <i>Combustion and Flame</i> , 2013, 160, 1930-1938.	5.2	55
101	Shock tube measurements of methane, ethylene and carbon monoxide time-histories in DME pyrolysis. <i>Combustion and Flame</i> , 2013, 160, 747-754.	5.2	28
102	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>Proceedings of the Combustion Institute</i> , 2013, 34, 565-571.	3.9	85
103	Shock tube measurements and model development for morpholine pyrolysis and oxidation at high pressures. <i>Combustion and Flame</i> , 2013, 160, 1559-1571.	5.2	12
104	Fuel and Ethylene Measurements during n-dodecane, methylcyclohexane, and iso-cetane pyrolysis in shock tubes. <i>Fuel</i> , 2013, 103, 1060-1068.	6.4	47
105	Formulation of an RP-1 pyrolysis surrogate from shock tube measurements of fuel and ethylene time histories. <i>Fuel</i> , 2013, 103, 1051-1059.	6.4	20
106	A Shock Tube Study of H ₂ + OH → H ₂ O + H Using OH Laser Absorption. <i>International Journal of Chemical Kinetics</i> , 2013, 45, 363-373.	1.6	41
107	Experimental Database for Development of a HiFiRE JP-7 Surrogate Fuel Mechanism. , 2012, , .		7
108	Second-generation aerosol shock tube: an improved design. <i>Shock Waves</i> , 2012, 22, 483-493.	1.9	17

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109	Shock tube measurements of 3-pentanone pyrolysis and oxidation. Combustion and Flame, 2012, 159, 3251-3263.	5.2	21
110	A shock tube study of the rate constants of HO ₂ and CH ₃ reactions. Combustion and Flame, 2012, 159, 3007-3013.	5.2	46
111	Shock tube studies of methyl butanoate pyrolysis with relevance to biodiesel. Combustion and Flame, 2012, 159, 3235-3241.	5.2	43
112	CO concentration and temperature sensor for combustion gases using quantum-cascade laser absorption near 4.7 μ m. Applied Physics B: Lasers and Optics, 2012, 107, 849-860.	2.2	145
113	Shock tube measurements of ignition delay times for the butanol isomers. Combustion and Flame, 2012, 159, 516-527.	5.2	119
114	Ignition delay times of low-vapor-pressure fuels measured using an aerosol shock tube. Combustion and Flame, 2012, 159, 552-561.	5.2	112
115	IR laser absorption diagnostic for C ₂ H ₄ in shock tube kinetics studies. International Journal of Chemical Kinetics, 2012, 44, 423-432.	1.6	72
116	Multispecies laser measurements of n-butanol pyrolysis behind reflected shock waves. International Journal of Chemical Kinetics, 2012, 44, 303-311.	1.6	11
117	Shock Tube Study of Syngas Ignition in Rich CO ₂ Mixtures and Determination of the Rate of H + O ₂ + CO ₂ \rightarrow HO ₂ + CO ₂ . Energy & Fuels, 2011, 25, 990-997.	5.1	53
118	Reactions of OH with Butene Isomers: Measurements of the Overall Rates and a Theoretical Study. Journal of Physical Chemistry A, 2011, 115, 2549-2556.	2.5	41
119	Fuel and Ethylene Measurements during n-Dodecane, Methylcyclohexane, and iso-Cetane Decomposition in Shock Tubes. , 2011, , .		0
120	Broad-linewidth laser absorption measurements of oxygen between 211 and 235nm at high temperatures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2698-2703.	2.3	13
121	Near-wall imaging using toluene-based planar laser-induced fluorescence in shock tube flow. Shock Waves, 2011, 21, 523-532.	1.9	13
122	An improved H ₂ /O ₂ mechanism based on recent shock tube/laser absorption measurements. Combustion and Flame, 2011, 158, 633-644.	5.2	268
123	Multi-species time-history measurements during n-dodecane oxidation behind reflected shock waves. Proceedings of the Combustion Institute, 2011, 33, 151-157.	3.9	54
124	A comparative study of the oxidation characteristics of cyclohexane, methylcyclohexane, and n-butylcyclohexane at high temperatures. Combustion and Flame, 2011, 158, 1456-1468.	5.2	104
125	Shock tube measurements of species time-histories in monomethyl hydrazine pyrolysis. Combustion and Flame, 2011, 158, 790-795.	5.2	16
126	Shock tube/laser absorption measurements of ethylene time-histories during ethylene and n-heptane pyrolysis. Proceedings of the Combustion Institute, 2011, 33, 333-340.	3.9	32

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127	Interference-free mid-IR laser absorption detection of methane. <i>Measurement Science and Technology</i> , 2011, 22, 025303.	2.6	41
128	Decomposition Measurements of RP-1, RP-2, JP-7, n-Dodecane, and Tetrahydroquinoline in Shock Tubes. <i>Journal of Propulsion and Power</i> , 2011, 27, 981-989.	2.2	20
129	Planar laser-induced fluorescence imaging in shock tube flows. <i>Experiments in Fluids</i> , 2010, 49, 751-759.	2.4	32
130	Multi-species time-history measurements during n-heptane oxidation behind reflected shock waves. <i>Combustion and Flame</i> , 2010, 157, 1899-1905.	5.2	57
131	Measurements of the reaction of OH with n-butanol at high-temperatures. <i>Chemical Physics Letters</i> , 2010, 497, 26-29.	2.6	51
132	Shock-Tube Experiments and Kinetic Modeling of Toluene Ignition. <i>Journal of Propulsion and Power</i> , 2010, 26, 776-783.	2.2	29
133	A Shock Tube Study of $\text{OH} + \text{H}_2\text{O}_2 \rightarrow \text{H}_2\text{O} + \text{HO}_2$ and $\text{H}_2\text{O}_2 + \text{M} \rightarrow 2\text{OH} + \text{M}$ using Laser Absorption of H_2O and OH. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5718-5727.	2.5	84
134	Experimental Study of the Rate of $\text{OH} + \text{HO}_2 \rightarrow \text{H}_2\text{O} + \text{O}_2$ at High Temperatures Using the Reverse Reaction. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5520-5525.	2.5	60
135	Ignition Delay Time Measurements of Normal Alkanes and Simple Oxygenates. <i>Journal of Propulsion and Power</i> , 2010, 26, 280-287.	2.2	76
136	A Second-Generation Aerosol Shock Tube for Combustion Research. , 2010, , .		2
137	OH time-histories during oxidation of n-heptane and methylcyclohexane at high pressures and temperatures. <i>Combustion and Flame</i> , 2009, 156, 736-749.	5.2	45
138	Recent advances in shock tube/laser diagnostic methods for improved chemical kinetics measurements. <i>Shock Waves</i> , 2009, 19, 271-283.	1.9	75
139	The use of driver inserts to reduce non-ideal pressure variations behind reflected shock waves. <i>Shock Waves</i> , 2009, 19, 113-123.	1.9	98
140	Contact surface tailoring condition for shock tubes with different driver and driven section diameters. <i>Shock Waves</i> , 2009, 19, 331-336.	1.9	40
141	An experimental and computational study of methyl ester decomposition pathways using shock tubes. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 247-253.	3.9	87
142	Shock Tube Study of Methylcyclohexane Ignition over a Wide Range of Pressure and Temperature. <i>Energy & Fuels</i> , 2009, 23, 175-185.	5.1	52
143	High-Temperature Shock Tube Measurements of Dimethyl Ether Decomposition and the Reaction of Dimethyl Ether with OH. <i>Journal of Physical Chemistry A</i> , 2009, 113, 9974-9980.	2.5	44
144	Hydrogen Peroxide Decomposition Rate: A Shock Tube Study Using Tunable Laser Absorption of H_2O near 2.5 μm . <i>Journal of Physical Chemistry A</i> , 2009, 113, 12919-12925.	2.5	68

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145	Two-wavelength mid-IR diagnostic for temperature and n-dodecane concentration in an aerosol shock tube. <i>Applied Physics B: Lasers and Optics</i> , 2008, 93, 627-638.	2.2	27
146	A simple reactive gasdynamic model for the computation of gas temperature and species concentrations behind reflected shock waves. <i>International Journal of Chemical Kinetics</i> , 2008, 40, 189-198.	1.6	56
147	Jet fuel ignition delay times: Shock tube experiments over wide conditions and surrogate model predictions. <i>Combustion and Flame</i> , 2008, 152, 125-143.	5.2	216
148	Development of an aerosol shock tube for kinetic studies of low-vapor-pressure fuels. <i>Combustion and Flame</i> , 2008, 155, 108-117.	5.2	100
149	Shock-induced behavior in micron-sized water aerosols. <i>Physics of Fluids</i> , 2007, 19, 056104.	4.0	13
150	Shock Tube Study of the Reaction of CH with N ₂ : Overall Rate and Branching Ratio. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11818-11830.	2.5	66
151	Jet Fuel Ignition Delay Times and Modeling: Studies at High Pressures and Low Temperatures in a Shock Tube. , 2007, , .		1
152	Thermal decomposition of toluene: Overall rate and branching ratio. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 211-219.	3.9	73
153	High-temperature measurements of the rates of the reactions CH ₂ O+Ar Products and CH ₂ O+O ₂ Products. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 175-183.	3.9	28
154	Experimental Investigation of Toluene + H Benzyl + H ₂ at High Temperatures. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9867-9873.	2.5	40
155	High-Temperature Thermal Decomposition of Benzyl Radicals. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6649-6653.	2.5	46
156	Investigation of the reaction of toluene with molecular oxygen in shock-heated gases. <i>Combustion and Flame</i> , 2006, 147, 195-208.	5.2	56
157	High-temperature UV absorption of methyl radicals behind shock waves. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005, 92, 393-402.	2.3	27
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