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List of Publications by Year in descending order

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2591
citing authors

#	ARTICLE	IF	CITATIONS
1	A jet fuel surrogate formulated by real fuel properties. <i>Combustion and Flame</i> , 2010, 157, 2333-2339.	5.2	484
2	Comprehensive chemical kinetic modeling of the oxidation of 2-methylalkanes from C7 to C20. <i>Combustion and Flame</i> , 2011, 158, 2338-2357.	5.2	466
3	The experimental evaluation of a methodology for surrogate fuel formulation to emulate gas phase combustion kinetic phenomena. <i>Combustion and Flame</i> , 2012, 159, 1444-1466.	5.2	355
4	A comprehensive experimental and modeling study of isobutene oxidation. <i>Combustion and Flame</i> , 2016, 167, 353-379.	5.2	282
5	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
6	An Experimental and Kinetic Modeling Study of the Oxidation of the Four Isomers of Butanol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10843-10855.	2.5	257
7	A Shock Tube Study of the Ignition of n-Heptane, n-Decane, n-Dodecane, and n-Tetradecane at Elevated Pressures. <i>Energy & Fuels</i> , 2009, 23, 2482-2489.	5.1	247
8	Compositional effects on the ignition of FACE gasolines. <i>Combustion and Flame</i> , 2016, 169, 171-193.	5.2	174
9	Autoignition studies of conventional and Fischer-Tropsch jet fuels. <i>Fuel</i> , 2012, 98, 249-258.	6.4	147
10	Ignition of alkane-rich FACE gasoline fuels and their surrogate mixtures. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 249-257.	3.9	138
11	The combustion kinetics of a synthetic paraffinic jet aviation fuel and a fundamentally formulated, experimentally validated surrogate fuel. <i>Combustion and Flame</i> , 2012, 159, 3014-3020.	5.2	124
12	The autoignition of iso-cetane at high to moderate temperatures and elevated pressures: Shock tube experiments and kinetic modeling. <i>Combustion and Flame</i> , 2009, 156, 2165-2172.	5.2	122
13	The autoignition of C ₈ H ₁₀ aromatics at moderate temperatures and elevated pressures. <i>Combustion and Flame</i> , 2009, 156, 1053-1062.	5.2	109
14	Shock Tube and Chemical Kinetic Modeling Study of the Oxidation of 2,5-Dimethylfuran. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1371-1392.	2.5	108
15	A shock tube study of the auto-ignition of toluene/air mixtures at high pressures. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 165-172.	3.9	102
16	The combustion properties of 2,6,10-trimethyl dodecane and a chemical functional group analysis. <i>Combustion and Flame</i> , 2014, 161, 826-834.	5.2	100
17	A comprehensive experimental and modeling study of iso-pentanol combustion. <i>Combustion and Flame</i> , 2013, 160, 2712-2728.	5.2	95
18	High-Temperature Thermal Decomposition of Isobutane and n-Butane Behind Shock Waves. <i>Journal of Physical Chemistry A</i> , 2004, 108, 4247-4253.	2.5	94

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19	A shock tube study of iso-octane ignition at elevated pressures: The influence of diluent gases. <i>Combustion and Flame</i> , 2008, 155, 739-755.	5.2	91
20	A shock tube study of methyl decanoate autoignition at elevated pressures. <i>Combustion and Flame</i> , 2012, 159, 476-481.	5.2	89
21	A comprehensive combustion chemistry study of 2,5-dimethylhexane. <i>Combustion and Flame</i> , 2014, 161, 1444-1459.	5.2	88
22	A shock tube study of cyclopentane and cyclohexane ignition at elevated pressures. <i>International Journal of Chemical Kinetics</i> , 2008, 40, 624-634.	1.6	84
23	High-temperature ethane and propane decomposition. <i>Proceedings of the Combustion Institute</i> , 2005, 30, 1119-1127.	3.9	79
24	A shock tube ignition delay study of conventional diesel fuel and hydroprocessed renewable diesel fuel from algal oil. <i>Fuel</i> , 2014, 128, 21-29.	6.4	76
25	Thermal decomposition of toluene: Overall rate and branching ratio. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 211-219.	3.9	73
26	Ignition time measurements for methylcyclohexane and ethylcyclohexane-air mixtures at elevated pressures. <i>International Journal of Chemical Kinetics</i> , 2009, 41, 82-91.	1.6	69
27	An experimental and kinetic modeling study of the autoignition of 1-methylnaphthalene/air and 2-methylnaphthalene/n-decane/air mixtures at elevated pressures. <i>Combustion and Flame</i> , 2010, 157, 1976-1988.	5.2	67
28	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
29	Dimethyl Ether Autoignition at Engine-Relevant Conditions. <i>Energy & Fuels</i> , 2013, 27, 2811-2817.	5.1	53
30	The high-temperature autoignition of biodiesels and biodiesel components. <i>Combustion and Flame</i> , 2014, 161, 3014-3021.	5.2	51
31	A diesel engine study of conventional and alternative diesel and jet fuels: Ignition and emissions characteristics. <i>Fuel</i> , 2014, 136, 253-260.	6.4	51
32	Experimental and Kinetic Modeling Study of the Pyrolysis and Oxidation of Decalin. <i>Energy & Fuels</i> , 2009, 23, 1464-1472.	5.1	48
33	Combustion characteristics of C4 iso-alkane oligomers: Experimental characterization of iso-dodecane as a jet fuel surrogate component. <i>Combustion and Flame</i> , 2016, 165, 137-143.	5.2	48
34	High-Temperature Thermal Decomposition of Benzyl Radicals. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6649-6653.	2.5	46
35	Methyl concentration time-histories during iso-octane and n-heptane oxidation and pyrolysis. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 321-328.	3.9	46
36	Comparative Study of the Autoignition of Methyl Decanoates, Unsaturated Biodiesel Fuel Surrogates. <i>Energy & Fuels</i> , 2013, 27, 5527-5532.	5.1	46

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37	Nanofluid pendant droplet evaporation: Experiments and modeling. <i>International Journal of Heat and Mass Transfer</i> , 2014, 74, 263-268.	4.8	43
38	A mid-infrared scanned-wavelength laser absorption sensor for carbon monoxide and temperature measurements from 900 to 4000 Å. <i>Applied Physics B: Lasers and Optics</i> , 2010, 99, 353-362.	2.2	42
39	The combustion properties of 1,3,5-trimethylbenzene and a kinetic model. <i>Fuel</i> , 2013, 109, 125-136.	6.4	41
40	Experimental Investigation of Toluene + H ₂ + Benzyl + H ₂ at High Temperatures. <i>Journal of Physical Chemistry A</i> , 2006, 110, 9867-9873.	2.5	40
41	Autoignition behavior of synthetic alternative jet fuels: An examination of chemical composition effects on ignition delays at low to intermediate temperatures. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 2983-2991.	3.9	39
42	Impact of non-ideal behavior on ignition delay and chemical kinetics in high-pressure shock tube reactors. <i>Combustion and Flame</i> , 2018, 189, 1-11.	5.2	37
43	An experimental and modeling study of the autoignition of 3-methylheptane. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 335-343.	3.9	33
44	The interaction of falling and sessile drops on a hydrophobic surface. <i>Experimental Thermal and Fluid Science</i> , 2016, 79, 36-43.	2.7	32
45	A carbon monoxide and thermometry sensor based on mid-IR quantum-cascade laser wavelength-modulation absorption spectroscopy. <i>Applied Physics B: Lasers and Optics</i> , 2011, 103, 959-966.	2.2	31
46	A surrogate mixture and kinetic mechanism for emulating the evaporation and autoignition characteristics of gasoline fuel. <i>Combustion and Flame</i> , 2015, 162, 3773-3784.	5.2	31
47	The photo-induced ignition of quiescent ethylene/air mixtures containing suspended carbon nanotubes. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 3359-3366.	3.9	30
48	Autoignition of Methyl Decanoate, a Biodiesel Surrogate, under High-Pressure Exhaust Gas Recirculation Conditions. <i>Energy & Fuels</i> , 2012, 26, 4887-4895.	5.1	30
49	Ignition delay times for jet and diesel fuels: Constant volume spray and gas-phase shock tube measurements. <i>Fuel</i> , 2018, 219, 312-319.	6.4	29
50	Diesel engine CFD simulations: Influence of fuel variability on ignition delay. <i>Fuel</i> , 2016, 181, 170-177.	6.4	28
51	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
52	Deflagration-to-detonation transition via the distributed photo ignition of carbon nanotubes suspended in fuel/oxidizer mixtures. <i>Combustion and Flame</i> , 2012, 159, 1314-1320.	5.2	27
53	Temperature measurement using ultraviolet laser absorption of carbon dioxide behind shock waves. <i>Applied Optics</i> , 2005, 44, 6599.	2.1	24
54	An experimental study of the spray ignition of alkanes. <i>Fuel</i> , 2016, 185, 381-393.	6.4	23

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55	Iron Nanoparticle Additives as Burning Rate Enhancers in AP/HTPB Composite Propellants. Propellants, Explosives, Pyrotechnics, 2015, 40, 253-259.	1.6	22
56	Ultraviolet absorption cross-sections of hot carbon dioxide. Chemical Physics Letters, 2004, 399, 490-495.	2.6	18
57	Carbon Dioxide Thermal Decomposition: Observation of Incubation. Zeitschrift Fur Physikalische Chemie, 2005, 219, 555-567.	2.8	18
58	Comparative Study of the Ignition of 1-Decene, <i>trans</i> -5-Decene, and <i>n</i> -Decane: Constant-Volume Spray and Shock-Tube Experiments. Energy & Fuels, 2017, 31, 6493-6500.	5.1	17
59	Time-resolved carbon monoxide measurements during the low- to intermediate-temperature oxidation of n-heptane, n-decane, and n-dodecane. Combustion and Flame, 2016, 173, 402-410.	5.2	16
60	Towards realization of quantitative atmospheric and industrial gas sensing using THz wave electronics. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	16
61	Passivation and Stabilization of Aluminum Nanoparticles for Energetic Materials. Journal of Nanomaterials, 2015, 2015, 1-12.	2.7	15
62	Prospects for Biofuels: A Review. Journal of Thermal Science and Engineering Applications, 2013, 5, .	1.5	14
63	Global Reduced Model for Conventional and Alternative Jet and Diesel Fuel Autoignition. Energy & Fuels, 2014, 28, 2795-2801.	5.1	14
64	VOC Gas Sensing Via Microelectronics-Based Absorption Spectroscopy at 220–330 GHz. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	14
65	Ignition characterization of F-76 and algae-derived HRD-76 at elevated temperatures and pressures. Combustion and Flame, 2017, 181, 157-163.	5.2	12
66	Experimental Study of the High-Temperature Autoignition of Tetralin. Energy & Fuels, 2013, 27, 5483-5487.	5.1	11
67	High-Fidelity Microstructural Characterization and Performance Modeling of Aluminized Composite Propellant. Propellants, Explosives, Pyrotechnics, 2017, 42, 1387-1395.	1.6	11
68	Spray ignition experiments for alkylbenzenes and alkylbenzene/n-alkane blends. Fuel, 2017, 195, 49-58.	6.4	10
69	Constant volume spray ignition of C9-C10 biodiesel surrogates: Methyl decanoate, ethyl nonanoate, and methyl decanoates. Fuel, 2018, 224, 219-225.	6.4	10
70	A 220–300 GHz Twin-FET Detector for Rotational Spectroscopy of Gas Mixtures. IEEE Sensors Journal, 2021, 21, 4553-4562.	4.7	9
71	Evaluation of machine learning methods for classification of rotational absorption spectra for gases in the 220–330 GHz range. Applied Physics B: Lasers and Optics, 2021, 127, 1.	2.2	9
72	Sound generation by water drop impact on surfaces. Experimental Thermal and Fluid Science, 2020, 117, 110138.	2.7	8

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73	Modeling nanofluid sessile drop evaporation. <i>Heat and Mass Transfer</i> , 2017, 53, 2341-2349.	2.1	6
74	Shock tube ignition delay time measurements for methyl propanoate and methyl acrylate: Influence of saturation on small methyl ester high-temperature reactivity. <i>International Journal of Chemical Kinetics</i> , 2020, 52, 712-722.	1.6	5
75	Gas sensing for industrial relevant nitrogen-containing compounds using a microelectronics-based absorption spectrometer in the 220–330 GHz frequency range. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132030.	7.8	5
76	Detection of Volatile Organic Compounds using a Single Transistor Terahertz Detector Implemented in Standard BiCMOS Technology. , 2019, , .		4
77	An Experimentally Validated Surrogate Fuel for the Combustion Kinetics of S-8, a Synthetic Paraffinic Jet Aviation Fuel. , 2012, , .		3
78	Terahertz-Wave Absorption Gas Sensing for Dimethyl Sulfoxide. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5729.	2.5	3
79	Nanofluid Pendant Droplet Evaporation. , 2013, , .		1
80	Lateral jetting during off-center drop collisions on substrates. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 740-748.	4.8	1
81	Towards Industrial THz Wave Electronic Gas Sensing and Spectroscopy. , 2019, , .		1
82	All Electronic THz Wave Absorption Spectroscopy of Volatile Organic Compounds Between 220–330 GHz. , 2020, , .		1
83	The Shock Tube Autoignition of Biodiesels and Biodiesel Components. , 2013, , .		0
84	Diesel Engine Simulations and Experiments: Fuel Variability Effects on Ignition. , 2014, , .		0
85	Shock Tube Autoignition Studies for Conventional and Alternative Transportation Fuel Components. , 2012, , .		0
86	Autoignition Variation of Biodiesel Surrogates: Influence of Saturation. , 2013, , .		0