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List of Publications by Year in descending order

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86
papers

5,696
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81743

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76769

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times ranked

2591
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.0	5
2	Terahertz-Wave Absorption Gas Sensing for Dimethyl Sulfoxide. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5729.	1.3	3
3	A 220–300 GHz Twin-FET Detector for Rotational Spectroscopy of Gas Mixtures. <i>IEEE Sensors Journal</i> , 2021, 21, 4553-4562.	2.4	9
4	Evaluation of machine learning methods for classification of rotational absorption spectra for gases in the 220–330 GHz range. <i>Applied Physics B: Lasers and Optics</i> , 2021, 127, 1.	1.1	9
5	VOC Gas Sensing Via Microelectronics-Based Absorption Spectroscopy at 220–330 GHz. <i>Applied Physics B: Lasers and Optics</i> , 2020, 126, 1.	1.1	14
6	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.	1.0	5
7	Sound generation by water drop impact on surfaces. <i>Experimental Thermal and Fluid Science</i> , 2020, 117, 110138.	1.5	8
8	All Electronic THz Wave Absorption Spectroscopy of Volatile Organic Compounds Between 220–330 GHz. , 2020, , .		1
9	Detection of Volatile Organic Compounds using a Single Transistor Terahertz Detector Implemented in Standard BiCMOS Technology. , 2019, , .		4
10	Towards Industrial THz Wave Electronic Gas Sensing and Spectroscopy. , 2019, , .		1
11	Lateral jetting during off-center drop collisions on substrates. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 740-748.	2.5	1
12	Ignition delay times for jet and diesel fuels: Constant volume spray and gas-phase shock tube measurements. <i>Fuel</i> , 2018, 219, 312-319.	3.4	29
13	Constant volume spray ignition of C9-C10 biodiesel surrogates: Methyl decanoate, ethyl nonanoate, and methyl decenoates. <i>Fuel</i> , 2018, 224, 219-225.	3.4	10
14	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.	2.8	37
15	Towards realization of quantitative atmospheric and industrial gas sensing using THz wave electronics. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	1.1	16
16	Spray ignition experiments for alkylbenzenes and alkylbenzene/n-alkane blends. <i>Fuel</i> , 2017, 195, 49-58.	3.4	10
17	Modeling nanofluid sessile drop evaporation. <i>Heat and Mass Transfer</i> , 2017, 53, 2341-2349.	1.2	6
18	Ignition characterization of F-76 and algae-derived HRD-76 at elevated temperatures and pressures. <i>Combustion and Flame</i> , 2017, 181, 157-163.	2.8	12

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19	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. <i>Energy & Fuels</i> , 2017, 31, 6493-6500.	2.5	17
20	High-Fidelity Microstructural Characterization and Performance Modeling of Aluminized Composite Propellant. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 1387-1395.	1.0	11
21	Diesel engine CFD simulations: Influence of fuel variability on ignition delay. <i>Fuel</i> , 2016, 181, 170-177.	3.4	28
22	Compositional effects on the ignition of FACE gasolines. <i>Combustion and Flame</i> , 2016, 169, 171-193.	2.8	174
23	Time-resolved carbon monoxide measurements during the low- to intermediate-temperature oxidation of n-heptane, n-decane, and n-dodecane. <i>Combustion and Flame</i> , 2016, 173, 402-410.	2.8	16
24	An experimental study of the spray ignition of alkanes. <i>Fuel</i> , 2016, 185, 381-393.	3.4	23
25	The interaction of falling and sessile drops on a hydrophobic surface. <i>Experimental Thermal and Fluid Science</i> , 2016, 79, 36-43.	1.5	32
26	A comprehensive experimental and modeling study of isobutene oxidation. <i>Combustion and Flame</i> , 2016, 167, 353-379.	2.8	282
27	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.	2.8	48
28	Passivation and Stabilization of Aluminum Nanoparticles for Energetic Materials. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-12.	1.5	15
29	Ignition of alkane-rich FACE gasoline fuels and their surrogate mixtures. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 249-257.	2.4	138
30	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.	2.8	270
31	Iron Nanoparticle Additives as Burning Rate Enhancers in AP/HTPB Composite Propellants. <i>Propellants, Explosives, Pyrotechnics</i> , 2015, 40, 253-259.	1.0	22
32	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.	2.8	31
33	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.	2.4	39
34	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.	3.4	76
35	The combustion properties of 2,6,10-trimethyl dodecane and a chemical functional group analysis. <i>Combustion and Flame</i> , 2014, 161, 826-834.	2.8	100
36	Nanofluid pendant droplet evaporation: Experiments and modeling. <i>International Journal of Heat and Mass Transfer</i> , 2014, 74, 263-268.	2.5	43

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37	Global Reduced Model for Conventional and Alternative Jet and Diesel Fuel Autoignition. Energy & Fuels, 2014, 28, 2795-2801.	2.5	14
38	The high-temperature autoignition of biodiesels and biodiesel components. Combustion and Flame, 2014, 161, 3014-3021.	2.8	51
39	A diesel engine study of conventional and alternative diesel and jet fuels: Ignition and emissions characteristics. Fuel, 2014, 136, 253-260.	3.4	51
40	A comprehensive combustion chemistry study of 2,5-dimethylhexane. Combustion and Flame, 2014, 161, 1444-1459.	2.8	88
41	Diesel Engine Simulations and Experiments: Fuel Variability Effects on Ignition. , 2014, , .		0
42	Experimental Study of the High-Temperature Autoignition of Tetralin. Energy & Fuels, 2013, 27, 5483-5487.	2.5	11
43	A comprehensive experimental and modeling study of iso-pentanol combustion. Combustion and Flame, 2013, 160, 2712-2728.	2.8	95
44	Shock Tube and Chemical Kinetic Modeling Study of the Oxidation of 2,5-Dimethylfuran. Journal of Physical Chemistry A, 2013, 117, 1371-1392.	1.1	108
45	An experimental and modeling study of the autoignition of 3-methylheptane. Proceedings of the Combustion Institute, 2013, 34, 335-343.	2.4	33
46	The combustion properties of 1,3,5-trimethylbenzene and a kinetic model. Fuel, 2013, 109, 125-136.	3.4	41
47	Comparative Study of the Autoignition of Methyl Decenoates, Unsaturated Biodiesel Fuel Surrogates. Energy & Fuels, 2013, 27, 5527-5532.	2.5	46
48	Dimethyl Ether Autoignition at Engine-Relevant Conditions. Energy & Fuels, 2013, 27, 2811-2817.	2.5	53
49	Prospects for Biofuels: A Review. Journal of Thermal Science and Engineering Applications, 2013, 5, .	0.8	14
50	The Shock Tube Autoignition of Biodiesels and Biodiesel Components. , 2013, , .		0
51	Nanofluid Pendant Droplet Evaporation. , 2013, , .		1
52	Autoignition Variation of Biodiesel Surrogates: Influence of Saturation. , 2013, , .		0
53	Autoignition of Methyl Decanoate, a Biodiesel Surrogate, under High-Pressure Exhaust Gas Recirculation Conditions. Energy & Fuels, 2012, 26, 4887-4895.	2.5	30
54	Autoignition studies of conventional and Fischer-Tropsch jet fuels. Fuel, 2012, 98, 249-258.	3.4	147

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55	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.	2.8	124
56	An Experimentally Validated Surrogate Fuel for the Combustion Kinetics of S-8, a Synthetic Paraffinic Jet Aviation Fuel. , 2012, , .		3
57	A shock tube study of methyl decanoate autoignition at elevated pressures. <i>Combustion and Flame</i> , 2012, 159, 476-481.	2.8	89
58	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.	2.8	27
59	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.	2.8	355
60	Shock Tube Autoignition Studies for Conventional and Alternative Transportation Fuel Components. , 2012, , .		0
61	Comprehensive chemical kinetic modeling of the oxidation of 2-methylalkanes from C7 to C20. <i>Combustion and Flame</i> , 2011, 158, 2338-2357.	2.8	466
62	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.	1.1	31
63	The photo-induced ignition of quiescent ethylene/air mixtures containing suspended carbon nanotubes. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 3359-3366.	2.4	30
64	A mid-infrared scanned-wavelength laser absorption sensor for carbon monoxide and temperature measurements from 900 Å to 4000 Å. <i>Applied Physics B: Lasers and Optics</i> , 2010, 99, 353-362.	1.1	42
65	An experimental and kinetic modeling study of the autoignition of 1-methylnaphthalene/air and 1-methylnaphthalene/n-decane/air mixtures at elevated pressures. <i>Combustion and Flame</i> , 2010, 157, 1976-1988.	2.8	67
66	A jet fuel surrogate formulated by real fuel properties. <i>Combustion and Flame</i> , 2010, 157, 2333-2339.	2.8	484
67	Ignition time measurements for methylcyclohexane and ethylcyclohexane air mixtures at elevated pressures. <i>International Journal of Chemical Kinetics</i> , 2009, 41, 82-91.	1.0	69
68	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.	2.8	122
69	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.	2.4	102
70	The autoignition of C ₈ H ₁₀ aromatics at moderate temperatures and elevated pressures. <i>Combustion and Flame</i> , 2009, 156, 1053-1062.	2.8	109
71	Experimental and Kinetic Modeling Study of the Pyrolysis and Oxidation of Decalin. <i>Energy & Fuels</i> , 2009, 23, 1464-1472.	2.5	48
72	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.	2.5	247

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73	A shock tube study of cyclopentane and cyclohexane ignition at elevated pressures. International Journal of Chemical Kinetics, 2008, 40, 624-634.	1.0	84
74	A shock tube study of iso-octane ignition at elevated pressures: The influence of diluent gases. Combustion and Flame, 2008, 155, 739-755.	2.8	91
75	An Experimental and Kinetic Modeling Study of the Oxidation of the Four Isomers of Butanol. Journal of Physical Chemistry A, 2008, 112, 10843-10855.	1.1	257
76	Thermal decomposition of toluene: Overall rate and branching ratio. Proceedings of the Combustion Institute, 2007, 31, 211-219.	2.4	73
77	Methyl concentration time-histories during iso-octane and n-heptane oxidation and pyrolysis. Proceedings of the Combustion Institute, 2007, 31, 321-328.	2.4	46
78	Experimental Investigation of Toluene + H [•] + Benzyl + H ₂ at High Temperatures. Journal of Physical Chemistry A, 2006, 110, 9867-9873.	1.1	40
79	High-Temperature Thermal Decomposition of Benzyl Radicals. Journal of Physical Chemistry A, 2006, 110, 6649-6653.	1.1	46
80	Investigation of the reaction of toluene with molecular oxygen in shock-heated gases. Combustion and Flame, 2006, 147, 195-208.	2.8	56
81	High-temperature UV absorption of methyl radicals behind shock waves. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 92, 393-402.	1.1	27
82	High-temperature ethane and propane decomposition. Proceedings of the Combustion Institute, 2005, 30, 1119-1127.	2.4	79
83	Temperature measurement using ultraviolet laser absorption of carbon dioxide behind shock waves. Applied Optics, 2005, 44, 6599.	2.1	24
84	Carbon Dioxide Thermal Decomposition: Observation of Incubation. Zeitschrift Fur Physikalische Chemie, 2005, 219, 555-567.	1.4	18
85	Ultraviolet absorption cross-sections of hot carbon dioxide. Chemical Physics Letters, 2004, 399, 490-495.	1.2	18
86	High-Temperature Thermal Decomposition of Isobutane and n-Butane Behind Shock Waves. Journal of Physical Chemistry A, 2004, 108, 4247-4253.	1.1	94