Patrick Lynch

List of Publications by Year
in descending order

31 papers	696 citations	566801 15 h-index	552369 26 g-index
31 all docs	31 docs citations	31 times ranked	602 citing authors

#	Article	IF	Citations
1	A correlation for burn time of aluminum particles in the transition regime. Proceedings of the Combustion Institute, 2009, 32, 1887-1893.	2.4	105
2	Gas-Phase Reaction in Nanoaluminum Combustion. Combustion Science and Technology, 2010, 182, 842-857.	1.2	69
3	Emissivity of Aluminum-Oxide Particle Clouds: Application to Pyrometry of Explosive Fireballs. Journal of Thermophysics and Heat Transfer, 2010, 24, 301-308.	0.9	57
4	Probing Combustion Chemistry in a Miniature Shock Tube with Synchrotron VUV Photo Ionization Mass Spectrometry. Analytical Chemistry, 2015, 87, 2345-2352.	3.2	50
5	Optical depth measurements of fireballs from aluminized high explosives. Optics and Lasers in Engineering, 2009, 47, 1009-1015.	2.0	45
6	On AlO Emission Spectroscopy as a Diagnostic in Energetic Materials Testing. Propellants, Explosives, Pyrotechnics, 2013, 38, 577-585.	1.0	42
7	A miniature high repetition rate shock tube. Review of Scientific Instruments, 2013, 84, 094102.	0.6	38
8	Single Pulse Shock Tube Study of Allyl Radical Recombination. Journal of Physical Chemistry A, 2013, 117, 4762-4776.	1.1	33
9	Shock Tube Investigation of CH₃ + CH₃OCH₃. Journal of Physical Chemistry A, 2012, 116, 7287-7292.	1.1	29
10	Insights into engine autoignition: Combining engine thermodynamic trajectory and fuel ignition delay iso-contour. Combustion and Flame, 2019, 200, 207-218.	2.8	29
11	Recombination of Allyl Radicals in the High Temperature Fall-Off Regime. Journal of Physical Chemistry A, 2013, 117, 4750-4761.	1.1	26
12	Dissociation of dimethyl ether at high temperatures. Proceedings of the Combustion Institute, 2013, 34, 591-598.	2.4	23
13	Combustion Measurements of Fuel-Rich Aluminum and Molybdenum Oxide Nano-Composite Mixtures. Propellants, Explosives, Pyrotechnics, 2010, 35, 93-99.	1.0	21
14	High temperature pyrolysis of 2-methyl furan. Physical Chemistry Chemical Physics, 2018, 20, 10826-10837.	1.3	17
15	An experimental and theoretical study of the high temperature reactions of the four butyl radical isomers. Physical Chemistry Chemical Physics, 2020, 22, 18304-18319.	1.3	16
16	Note: An improved solenoid driver valve for miniature shock tubes. Review of Scientific Instruments, 2016, 87, 056110.	0.6	13
17	Micro-alumina particle volatilization temperature measurements in a heterogeneous shock tube. Combustion and Flame, 2012, 159, 793-801.	2.8	12
18	Chemical thermometry in miniature HRRST using 1,1,1-trifluoroethane dissociation. Proceedings of the Combustion Institute, 2017, 36, 307-314.	2.4	10

#	Article	IF	Citations
19	On the Interpretation and Correlation of Highâ€Temperature Ignition Delays in Reactors with Varying Thermodynamic Conditions. International Journal of Chemical Kinetics, 2018, 50, 410-424.	1.0	9
20	Dissociation of ortho -benzyne radicals in the high temperature fall-off regime. Proceedings of the Combustion Institute, 2015, 35, 145-152.	2.4	8
21	Pyrolysis of ethanol studied in a new high-repetition-rate shock tube coupled to synchrotron-based double imaging photoelectron/photoion coincidence spectroscopy. Combustion and Flame, 2021, 226, 53-68.	2.8	8
22	Initiation reactions in the high temperature decomposition of styrene. Physical Chemistry Chemical Physics, 2021, 23, 18432-18448.	1.3	7
23	Optical Spectroscopy of Fireballs from Metallized Reactive Materials. , 2010, , .		6
24	Kinetic modeling of ignition in miniature shock tube. Proceedings of the Combustion Institute, 2019, 37, 593-601.	2.4	5
25	Temporally and spatially resolved X-ray densitometry in a shock tube. Combustion and Flame, 2021, 224, 136-149.	2.8	5
26	Auto-Ignition and Reaction Front Dynamics in Mixtures With Temperature and Concentration Stratification. Frontiers in Mechanical Engineering, 2020, 6, .	0.8	4
27	Combustion of Aluminum Particles in the Transition Regime Between the Diffusion and Kinetic Limits. , 2008, , .		3
28	High pressure, high flow rate batch mixing apparatus for high throughput experiments. Review of Scientific Instruments, 2021, 92, 114104.	0.6	3
29	Size Distribution Effects in Heterogeneous Shock Tube Burntime Experiments. , 2009, , .		2
30	The Emissivity of Micro- and Nano- Particles in Non-Reacting Environments. , 2009, , .		1
31	The Presence of Gas Phase Species in Micro- and Nano-Aluminum Combustion. , 2009, , .		0