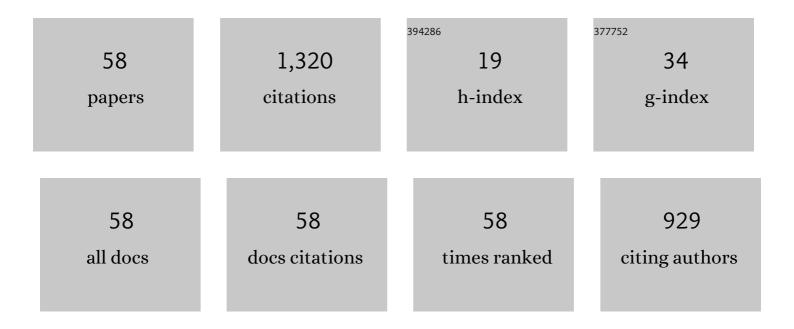
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The role of global and detailed kinetics in the first-stage ignition delay in NTC-affected phenomena. Combustion and Flame, 2013, 160, 2352-2358.	2.8	111
2	The role of low temperature chemistry in combustion mode development under elevated pressures. Combustion and Flame, 2016, 174, 179-193.	2.8	106
3	Initiation and propagation of laminar premixed cool flames. Fuel, 2016, 166, 477-487.	3.4	88
4	Fast charging optimization for lithium-ion batteries based on dynamic programming algorithm and electrochemical-thermal-capacity fade coupled model. Journal of Power Sources, 2019, 438, 227015.	4.0	79
5	NTC-affected ignition in nonpremixed counterflow. Combustion and Flame, 2012, 159, 1044-1054.	2.8	77
6	Interactions of flame propagation, auto-ignition and pressure wave during knocking combustion. Combustion and Flame, 2016, 164, 319-328.	2.8	62
7	Computational identification of the safety regime of Li-ion battery thermal runaway. Applied Energy, 2020, 261, 114440.	5.1	59
8	NTC-affected ignition and low-temperature flames in nonpremixed DME/air counterflow. Combustion and Flame, 2014, 161, 1993-1997.	2.8	55
9	Autoignition-affected stabilization of laminar nonpremixed DME/air coflow flames. Combustion and Flame, 2015, 162, 3437-3445.	2.8	55
10	Laminar flame speeds, counterflow ignition, and kinetic modeling of the butene isomers. Proceedings of the Combustion Institute, 2015, 35, 309-316.	2.4	53
11	Stabilization of laminar nonpremixed DME/air coflow flames at elevated temperatures and pressures. Combustion and Flame, 2015, 162, 4471-4478.	2.8	49
12	A predictive Livengood–Wu correlation for two-stage ignition. International Journal of Engine Research, 2016, 17, 825-835.	1.4	44
13	On the controlling mechanism of the upper turnover states in the NTC regime. Combustion and Flame, 2016, 164, 294-302.	2.8	42
14	reactingFoam-SCI: An open source CFD platform for reacting flow simulation. Computers and Fluids, 2019, 190, 114-127.	1.3	37
15	On the application of betweenness centrality in chemical network analysis: Computational diagnostics and model reduction. Combustion and Flame, 2015, 162, 2991-2998.	2.8	29
16	On the crossover temperature and lower turnover state in the NTC regime. Proceedings of the Combustion Institute, 2017, 36, 343-353.	2.4	29
17	Insights into engine autoignition: Combining engine thermodynamic trajectory and fuel ignition delay iso-contour. Combustion and Flame, 2019, 200, 207-218.	2.8	29
18	Laminar flame propagation and nonpremixed stagnation ignition of toluene and xylenes. Proceedings of the Combustion Institute, 2017, 36, 479-489.	2.4	24

#	Article	IF	CITATIONS
19	A kinetic modeling study on octane rating and fuel sensitivity in advanced compression ignition engines. Combustion and Flame, 2017, 185, 234-244.	2.8	22
20	Manifestation of octane rating, fuel sensitivity, and composition effects for gasoline surrogates under advanced compression ignition conditions. Combustion and Flame, 2018, 192, 238-249.	2.8	22
21	Numerical Simulation of Ignition Mechanism in the Main Chamber of Turbulent Jet Ignition System. , 2018, , .		19
22	Fuel wall film effects on premixed flame propagation, quenching and emission. International Journal of Engine Research, 2020, 21, 1055-1066.	1.4	16
23	An alternative approach to accommodate detailed ignition chemistry in combustion simulation. Combustion and Flame, 2017, 176, 400-408.	2.8	15
24	CFD Optimization of the Pre-Chamber Geometry for a Gasoline Spark Ignition Engine. Frontiers in Mechanical Engineering, 2021, 6, .	0.8	12
25	Comparison of the effect of linear and two-step fast charging protocols on degradation of lithium ion batteries. Energy, 2021, 227, 120417.	4.5	11
26	Minimum ignition energy and propagation dynamics of laminar premixed cool flames. Proceedings of the Combustion Institute, 2021, 38, 2315-2322.	2.4	10
27	Theoretical and numerical analysis for thermal runaway propagation within a single cell. International Journal of Heat and Mass Transfer, 2021, 181, 121901.	2.5	10
28	Initiation and propagation of curved reaction front in solids: Insights into solid combustion and battery thermal runaway. Combustion and Flame, 2022, 238, 111951.	2.8	10
29	Dilution, Thermal and Chemical Effects of Carbon Dioxide on n-heptane Two-Stage Auto-Ignition Process. , 0, , .		9
30	Flame dynamics in oscillating flows under autoignitive conditions. Combustion and Flame, 2016, 168, 75-82.	2.8	9
31	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
32	Further study on wall film effects and flame quenching under engine thermodynamic conditions. Combustion and Flame, 2020, 216, 100-110.	2.8	9
33	Characterization of the Ionic Liquid/Electrode Interfacial Relaxation Processes Under Potential Polarization for Ionic Liquid Amperometric Gas Sensor Method Development. ACS Sensors, 2018, 3, 1126-1134.	4.0	8
34	Prediction of Autoignition and Flame Properties for Multicomponent Fuels Using Machine Learning Techniques. , 0, , .		8
35	Mitigating battery thermal runaway through mild combustion. Chemical Engineering Journal Advances, 2022, 9, 100208.	2.4	8
36	Finite analytic numerical method for solving twoâ€dimensional quasiâ€Laplace equation. Numerical Methods for Partial Differential Equations, 2014, 30, 1755-1769.	2.0	7

#	Article	IF	CITATIONS
37	A Computational Study on the Critical Ignition Energy and Chemical Kinetic Feature for Li-Ion Battery Thermal Runaway. , 0, , .		6
38	Toward computational singular perturbation (CSP) without eigen-decomposition. Combustion and Flame, 2019, 209, 63-73.	2.8	6
39	Direct numerical simulation of low temperature reactions affecting n-dodecane spray autoignition. Fuel, 2020, 280, 118453.	3.4	6
40	Thermal-pyrolysis induced over-driven flame and its potential role in the negative-temperature dependence of iso-octane flame speed at elevated temperatures. Combustion and Flame, 2021, 223, 65-76.	2.8	6
41	Numerical Investigation of the Spark Plug Orientation Effects on Flame Kernel Growth. , 0, , .		6
42	Kinetic modeling of ignition in miniature shock tube. Proceedings of the Combustion Institute, 2019, 37, 593-601.	2.4	5
43	Two-stage autoignition and combustion mode evolution in boundary layer flows above a cold flat plate. Proceedings of the Combustion Institute, 2021, 38, 767-776.	2.4	5
44	A Comprehensive Ignition System Model for Spark Ignition Engines. , 2018, , .		4
45	Auto-Ignition and Reaction Front Dynamics in Mixtures With Temperature and Concentration Stratification. Frontiers in Mechanical Engineering, 2020, 6, .	0.8	4
46	On the prediction of hot spot induced ignition by the Livengood-Wu integral. Proceedings of the Combustion Institute, 2021, 38, 4709-4716.	2.4	4
47	A Computational Study on Laminar Flame Propagation in Mixtures with Non-Zero Reaction Progress. , 0, , .		4
48	Initiation and propagation of one-dimensional planar flames in mixtures with variable reaction progress. Combustion and Flame, 2022, 236, 111765.	2.8	4
49	A 1-D Platform to Simulate the Effects of Dedicated EGR on SI Engine Combustion. , 2017, , .		3
50	Evaluation of non-ideal piston stopping effects on the "adiabatic core―and ignition delay time simulation in rapid compression machines. Combustion and Flame, 2020, 218, 229-233.	2.8	3
51	Statistical Analysis on Rate Parameters of the H2–O2 Reaction System. Journal of Physical Chemistry A, 2021, 125, 10223-10234.	1.1	3
52	Effects of face shield on an emitter during a cough process: A large-eddy simulation study. Science of the Total Environment, 2022, 831, 154856.	3.9	3
53	Detailed Kinetics in Combustion Simulation: Manifestation, Model Reduction, and Computational Diagnostics. Energy, Environment, and Sustainability, 2018, , 45-71.	0.6	2
54	Conductive Heating of Li-Ion Batteries at Low Temperatures. , 2018, , .		1

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55	CFD-guided development of a pre-chamber ignition system for internal combustion engines. International Journal of Powertrains, 2021, 10, 79.	0.1	1
56	CFD Simulation of a Premixed Spark Injection Hydrogen Engine. , 2019, , .		1
57	Effects of stratification and charge cooling on combustion in a gasoline direct-injection compression ignition (GDCI) engine. International Journal of Engine Research, 0, , 146808742210773.	1.4	1
58	A Two-Layer Soot Model for Hydrocarbon Fuel Combustion. , 0, , .		0