

Xin He

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Investigation on Effects of Ignition Configurations on Knocking Combustion Using an Optical Rapid Compression Machine under Lean to Stoichiometric Conditions. <i>Combustion Science and Technology</i> , 2022, 194, 1678-1699.	1.2	1
2	Oxidation of 2,6-dimethylheptane at low temperature: Kinetic modeling and experimental study. <i>Fuel</i> , 2021, 287, 119220.	3.4	3
3	Super-knock suppression for highly turbocharged gasoline engines using lean mixture control strategy with the same energy density. <i>International Journal of Engine Research</i> , 2021, 22, 665-673.	1.4	7
4	Evaluating China's Passenger Vehicle Market under the Vehicle Policies of 2021-2023. <i>World Electric Vehicle Journal</i> , 2021, 12, 72.	1.6	3
5	Provincial Greenhouse Gas Emissions of Gasoline and Plug-in Electric Vehicles in China: Comparison from the Consumption-Based Electricity Perspective. <i>Environmental Science & Technology</i> , 2021, 55, 6944-6956.	4.6	38
6	China's vehicle electrification impacts on sales, fuel use, and battery material demand through 2050: Optimizing consumer and industry decisions. <i>IScience</i> , 2021, 24, 103375.	1.9	19
7	Intensity and daily pattern of passenger vehicle use by region and class in China: estimation and implications for energy use and electrification. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2020, 25, 307-327.	1.0	29
8	Future private car stock in China: current growth pattern and effects of car sales restriction. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2020, 25, 289-306.	1.0	23
9	The retailed gasoline price in China: Time-series analysis and future trend projection. <i>Energy</i> , 2020, 191, 116544.	4.5	14
10	Greenhouse gas consequences of the China dual credit policy. <i>Nature Communications</i> , 2020, 11, 5212.	5.8	57
11	Machine learning model to project the impact of COVID-19 on US motor gasoline demand. <i>Nature Energy</i> , 2020, 5, 666-673.	19.8	56
12	Selective Ammonium Removal from Synthetic Wastewater by Flow-Electrode Capacitive Deionization Using a Novel K_2TiO_5 -Activated Carbon Mixture Electrode. <i>Environmental Science & Technology</i> , 2020, 54, 12723-12731.	4.6	38
13	Relationships between Vehicle Pricing and Features: Data Driven Analysis of the Chinese Vehicle Market. <i>Energies</i> , 2020, 13, 3088.	1.6	5
14	Life cycle cost and GHG emission benefits of electric vehicles in China. <i>Transportation Research, Part D: Transport and Environment</i> , 2020, 86, 102418.	3.2	41
15	Modeling charging infrastructure impact on the electric vehicle market in China. <i>Transportation Research, Part D: Transport and Environment</i> , 2020, 81, 102248.	3.2	46
16	China's Booming Plug-in Electric Vehicle Market—How Will It Continue?. <i>Lecture Notes in Mobility</i> , 2020, , 215-255.	0.2	1
17	Experiment and simulation research on super-knock suppression for highly turbocharged gasoline engines using the fuel of methane. <i>Energy</i> , 2019, 182, 511-519.	4.5	21
18	Light-duty plug-in electric vehicles in China: An overview on the market and its comparisons to the United States. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 747-761.	8.2	84

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19	Auto-ignition characteristics of end-gas in a rapid compression machine under super-knock conditions. <i>Combustion and Flame</i> , 2019, 205, 378-388.	2.8	8
20	Super-knock suppression for highly turbocharged spark ignition engines using the fuel of propane or methanol. <i>Energy</i> , 2019, 169, 1112-1118.	4.5	14
21	An exploration of utilizing low-pressure diesel injection for natural gas dual-fuel low-temperature combustion. <i>Energy</i> , 2018, 153, 248-255.	4.5	14
22	A chemical kinetic mechanism for the low- and intermediate-temperature combustion of Polyoxymethylene Dimethyl Ether 3 (PODE3). <i>Fuel</i> , 2018, 212, 223-235.	3.4	100
23	A rapid compression machine study of autoignition, spark-ignition and flame propagation characteristics of H ₂ /CH ₄ /CO/air mixtures. <i>Combustion and Flame</i> , 2018, 188, 150-161.	2.8	28
24	Experimental and numerical investigation on H ₂ /CO formation and their effects on combustion characteristics in a natural gas SI engine. <i>Energy</i> , 2018, 143, 597-605.	4.5	10
25	Estimation of vehicle home parking availability in China and quantification of its potential impacts on plug-in electric vehicle ownership cost. <i>Transport Policy</i> , 2018, 68, 107-117.	3.4	40
26	The dual-credit policy: Quantifying the policy impact on plug-in electric vehicle sales and industry profits in China. <i>Energy Policy</i> , 2018, 121, 597-610.	4.2	139
27	On the crossover temperature and lower turnover state in the NTC regime. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 343-353.	2.4	29
28	Hydrogen formation from methane rich combustion under high pressure and high temperature conditions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14301-14311.	3.8	18
29	Measurement of reaction rate constants using RCM: A case study of decomposition of dimethyl carbonate to dimethyl ether. <i>Combustion and Flame</i> , 2017, 183, 30-38.	2.8	21
30	Impact of nitric oxide (NO) on n-heptane autoignition in a rapid compression machine. <i>Combustion and Flame</i> , 2017, 186, 94-104.	2.8	35
31	An experimental investigation on thermal efficiency of a compression ignition engine fueled with five gasoline-like fuels. <i>Fuel</i> , 2017, 207, 56-63.	3.4	22
32	Ignition delay times of low alkylfurans at high pressures using a rapid compression machine. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 323-332.	2.4	19
33	A comparative study of using diesel and PODEn as pilot fuels for natural gas dual-fuel combustion. <i>Fuel</i> , 2017, 188, 418-426.	3.4	61
34	Steady Viscous Flow Between Two Porous Disks With Stretching Motion. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016, 138, .	0.8	2
35	Experimental study of 2,5-dimethylfuran and 2-methylfuran in a rapid compression machine: Comparison of the ignition delay times and reactivity at low to intermediate temperature. <i>Combustion and Flame</i> , 2016, 168, 216-227.	2.8	50
36	Exploiting new combustion regime using multiple premixed compression ignition (MPCI) fueled with gasoline/diesel/PODE (GDP). <i>Fuel</i> , 2016, 186, 639-647.	3.4	54

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37	An adaptive distance-based group contribution method for thermodynamic property prediction. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23822-23830.	1.3	16
38	First-stage ignition delay in the negative temperature coefficient behavior: Experiment and simulation. <i>Combustion and Flame</i> , 2016, 167, 14-23.	2.8	83
39	Improvement of emission characteristics and thermal efficiency in diesel engines by fueling gasoline/diesel/PODEn blends. <i>Energy</i> , 2016, 97, 105-112.	4.5	126
40	On the controlling mechanism of the upper turnover states in the NTC regime. <i>Combustion and Flame</i> , 2016, 164, 294-302.	2.8	42
41	Effects of thermodynamic conditions on the end gas combustion mode associated with engine knock. <i>Combustion and Flame</i> , 2015, 162, 4119-4128.	2.8	146
42	Analysis of pre-ignition to super-knock: Hotspot-induced deflagration to detonation. <i>Fuel</i> , 2015, 144, 222-227.	3.4	181
43	An experimental investigation of super knock combustion mode using a one-dimensional constant volume bomb. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 2377-2385.	3.8	13
44	Relationship between super-knock and pre-ignition. <i>International Journal of Engine Research</i> , 2015, 16, 166-180.	1.4	136
45	Boundary layer solutions to a point sink flow inside a cone with mass transpiration and moving wall. <i>European Physical Journal Plus</i> , 2015, 130, 1.	1.2	3
46	Intermediate species measurement during iso-butanol auto-ignition. <i>Combustion and Flame</i> , 2015, 162, 3541-3553.	2.8	32
47	Visualization of the Mode Shapes of Pressure Oscillation in a Cylindrical Cavity. <i>Combustion Science and Technology</i> , 2015, 187, 1610-1619.	1.2	15
48	Performance, combustion and emission characteristics of a diesel engine fueled with polyoxymethylene dimethyl ethers (PODE3-4)/ diesel blends. <i>Energy</i> , 2015, 88, 793-800.	4.5	144
49	Comparative study on alcohols' gasoline and gasoline' alcohols dual-fuel spark ignition (DFSI) combustion for high load extension and high fuel efficiency. <i>Energy</i> , 2015, 82, 395-405.	4.5	74
50	Heat transfer characteristics of impinging steady and synthetic jets over vertical flat surface. <i>International Journal of Heat and Mass Transfer</i> , 2015, 80, 825-834.	2.5	48
51	Combustion and Emission Characteristics of Multiple Premixed Compression Ignition (MPCI) Mode with Low Octane Gasoline Fuels. <i>Energy Procedia</i> , 2014, 61, 2127-2131.	1.8	4
52	Frequency domain analysis of knock images. <i>Measurement Science and Technology</i> , 2014, 25, 125001.	1.4	13
53	Comparative techno-economic analysis and reviews of n-butanol production from corn grain and corn stover. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 342-361.	1.9	80
54	Techno-economic analysis and life-cycle assessment of cellulosic isobutanol and comparison with cellulosic ethanol and n-butanol. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 30-48.	1.9	185

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55	Effects of gasoline research octane number on premixed low-temperature combustion of wide distillation fuel by gasoline/diesel blend. <i>Fuel</i> , 2014, 134, 381-388.	3.4	53
56	Effects of buffer gas composition on low temperature ignition of iso-octane and n-heptane. <i>Combustion and Flame</i> , 2014, 161, 2531-2538.	2.8	112
57	Ignition Quality Tester (IQT) Investigation of the Negative Temperature Coefficient Region of Alkane Autoignition. <i>Energy & Fuels</i> , 2013, 27, 1632-1642.	2.5	56
58	Effects of Gasoline Direct Injection Engine Operating Parameters on Particle Number Emissions. <i>Energy & Fuels</i> , 2012, 26, 2014-2027.	2.5	142
59	The Impacts of Mid-Level Alcohol Content in Gasoline on SIDI Engine-Out and Tailpipe Emissions. , 2010, , .		12
60	Experiment and simulation using diffusion flux model for gas-particle two-phase flow in a suspension bed. <i>Chemical Engineering Science</i> , 2004, 59, 1505-1514.	1.9	1
61	Late Intake Valve Closing as an Emissions Control Strategy at Tier 2 Bin 5 Engine-Out NOx Level. <i>SAE International Journal of Engines</i> , 0, 1, 427-443.	0.4	62
62	The Impacts of Mid-level Biofuel Content in Gasoline on SIDI Engine-out and Tailpipe Particulate Matter Emissions. , 0, , .		32
63	Effect of Oil and Gasoline Properties on Pre-Ignition and Super-Knock in a Thermal Research Engine (TRE) and an Optical Rapid Compression Machine (RCM). , 0, , .		20
64	Highly Turbocharged Gasoline Engine and Rapid Compression Machine Studies of Super-Knock. <i>SAE International Journal of Engines</i> , 0, 9, 1475-1485.	0.4	13
65	Experimental Study of Flame Accelerated Ignition on Rapid Compression Machine and Heavy Duty Engine. , 0, , .		1