Xin He

List of Publications by Year in descending order

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65	3,029	172386	182361
papers	citations	29 h-index	51 g-index

67	67	67	2224
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Technoâ€economic analysis and lifeâ€cycle assessment of cellulosic isobutanol and comparison with cellulosic ethanol and nâ€butanol. Biofuels, Bioproducts and Biorefining, 2014, 8, 30-48.	1.9	185
2	Analysis of pre-ignition to super-knock: Hotspot-induced deflagration to detonation. Fuel, 2015, 144, 222-227.	3.4	181
3	Effects of thermodynamic conditions on the end gas combustion mode associated with engine knock. Combustion and Flame, 2015, 162, 4119-4128.	2.8	146
4	Performance, combustion and emission characteristics of a diesel engine fueled with polyoxymethylene dimethyl ethers (PODE3-4)/ diesel blends. Energy, 2015, 88, 793-800.	4.5	144
5	Effects of Gasoline Direct Injection Engine Operating Parameters on Particle Number Emissions. Energy & Fuels, 2012, 26, 2014-2027.	2.5	142
6	The dual-credit policy: Quantifying the policy impact on plug-in electric vehicle sales and industry profits in China. Energy Policy, 2018, 121, 597-610.	4.2	139
7	Relationship between super-knock and pre-ignition. International Journal of Engine Research, 2015, 16, 166-180.	1.4	136
8	Improvement of emission characteristics and thermal efficiency in diesel engines by fueling gasoline/diesel/PODEn blends. Energy, 2016, 97, 105-112.	4.5	126
9	Effects of buffer gas composition on low temperature ignition of iso-octane and n-heptane. Combustion and Flame, 2014, 161, 2531-2538.	2.8	112
10	A chemical kinetic mechanism for the low- and intermediate-temperature combustion of Polyoxymethylene Dimethyl Ether 3 (PODE3). Fuel, 2018, 212, 223-235.	3.4	100
11	Light-duty plug-in electric vehicles in China: An overview on the market and its comparisons to the United States. Renewable and Sustainable Energy Reviews, 2019, 112, 747-761.	8.2	84
12	First-stage ignition delay in the negative temperature coefficient behavior: Experiment and simulation. Combustion and Flame, 2016, 167, 14-23.	2.8	83
13	Comparative technoâ€economic analysis and reviews of nâ€butanol production from corn grain and corn stover. Biofuels, Bioproducts and Biorefining, 2014, 8, 342-361.	1.9	80
14	Comparative study on alcoholsâ€“gasoline and gasolineâ€“alcohols dual-fuel spark ignition (DFSI) combustion for high load extension and high fuel efficiency. Energy, 2015, 82, 395-405.	4.5	74
15	Late Intake Valve Closing as an Emissions Control Strategy at Tier 2 Bin 5 Engine-Out NOx Level. SAE International Journal of Engines, 0, 1, 427-443.	0.4	62
16	A comparative study of using diesel and PODEn as pilot fuels for natural gas dual-fuel combustion. Fuel, 2017, 188, 418-426.	3.4	61
17	Greenhouse gas consequences of the China dual credit policy. Nature Communications, 2020, 11, 5212.	5.8	57
18	Ignition Quality Tester (IQT) Investigation of the Negative Temperature Coefficient Region of Alkane Autoignition. Energy & Fuels, 2013, 27, 1632-1642.	2.5	56

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19	Machine learning model to project the impact of COVID-19 on US motor gasoline demand. Nature Energy, 2020, 5, 666-673.	19.8	56
20	Exploiting new combustion regime using multiple premixed compression ignition (MPCI) fueled with gasoline/diesel/PODE (GDP). Fuel, 2016, 186, 639-647.	3.4	54
21	Effects of gasoline research octane number on premixed low-temperature combustion of wide distillation fuel by gasoline/diesel blend. Fuel, 2014, 134, 381-388.	3.4	53
22	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. Combustion and Flame, 2016, 168, 216-227.	2.8	50
23	Heat transfer characteristics of impinging steady and synthetic jets over vertical flat surface. International Journal of Heat and Mass Transfer, 2015, 80, 825-834.	2.5	48
24	Modeling charging infrastructure impact on the electric vehicle market in China. Transportation Research, Part D: Transport and Environment, 2020, 81, 102248.	3.2	46
25	On the controlling mechanism of the upper turnover states in the NTC regime. Combustion and Flame, 2016, 164, 294-302.	2.8	42
26	Life cycle cost and GHG emission benefits of electric vehicles in China. Transportation Research, Part D: Transport and Environment, 2020, 86, 102418.	3.2	41
27	Estimation of vehicle home parking availability in China and quantification of its potential impacts on plug-in electric vehicle ownership cost. Transport Policy, 2018, 68, 107-117.	3.4	40
28	Selective Ammonium Removal from Synthetic Wastewater by Flow-Electrode Capacitive Deionization Using a Novel K₂Ti₂O₅-Activated Carbon Mixture Electrode. Environmental Science & Technology, 2020, 54, 12723-12731.	4.6	38
29	Provincial Greenhouse Gas Emissions of Gasoline and Plug-in Electric Vehicles in China: Comparison from the Consumption-Based Electricity Perspective. Environmental Science & Technology, 2021, 55, 6944-6956.	4.6	38
30	Impact of nitric oxide (NO) on n-heptane autoignition in a rapid compression machine. Combustion and Flame, 2017, 186, 94-104.	2.8	35
31	The Impacts of Mid-level Biofuel Content in Gasoline on SIDI Engine-out and Tailpipe Particulate Matter Emissions. , 0, , .		32
32	Intermediate species measurement during iso-butanol auto-ignition. Combustion and Flame, 2015, 162, 3541-3553.	2.8	32
33	On the crossover temperature and lower turnover state in the NTC regime. Proceedings of the Combustion Institute, 2017, 36, 343-353.	2.4	29
34	Intensity and daily pattern of passenger vehicle use by region and class in China: estimation and implications for energy use and electrification. Mitigation and Adaptation Strategies for Global Change, 2020, 25, 307-327.	1.0	29
35	A rapid compression machine study of autoignition, spark-ignition and flame propagation characteristics of H2/CH4/CO/air mixtures. Combustion and Flame, 2018, 188, 150-161.	2.8	28
36	Future private car stock in China: current growth pattern and effects of car sales restriction. Mitigation and Adaptation Strategies for Global Change, 2020, 25, 289-306.	1.0	23

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37	An experimental investigation on thermal efficiency of a compression ignition engine fueled with five gasoline-like fuels. Fuel, 2017, 207, 56-63.	3.4	22
38	Measurement of reaction rate constants using RCM: A case study of decomposition of dimethyl carbonate to dimethyl ether. Combustion and Flame, 2017, 183, 30-38.	2.8	21
39	Experiment and simulation research on super-knock suppression for highly turbocharged gasoline engines using the fuel of methane. Energy, 2019, 182, 511-519.	4.5	21
40	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
41	Ignition delay times of low alkylfurans at high pressures using a rapid compression machine. Proceedings of the Combustion Institute, 2017, 36, 323-332.	2.4	19
42	China's vehicle electrification impacts on sales, fuel use, and battery material demand through 2050: Optimizing consumer and industry decisions. IScience, 2021, 24, 103375.	1.9	19
43	Hydrogen formation from methane rich combustion under high pressure and high temperature conditions. International Journal of Hydrogen Energy, 2017, 42, 14301-14311.	3.8	18
44	An adaptive distance-based group contribution method for thermodynamic property prediction. Physical Chemistry Chemical Physics, 2016, 18, 23822-23830.	1.3	16
45	Visualization of the Mode Shapes of Pressure Oscillation in a Cylindrical Cavity. Combustion Science and Technology, 2015, 187, 1610-1619.	1.2	15
46	An exploration of utilizing low-pressure diesel injection for natural gas dual-fuel low-temperature combustion. Energy, 2018, 153, 248-255.	4.5	14
47	Super-knock suppression for highly turbocharged spark ignition engines using the fuel of propane or methanol. Energy, 2019, 169, 1112-1118.	4.5	14
48	The retailed gasoline price in China: Time-series analysis and future trend projection. Energy, 2020, 191, 116544.	4.5	14
49	Frequency domain analysis of knock images. Measurement Science and Technology, 2014, 25, 125001.	1.4	13
50	An experimental investigation of super knock combustion mode using a one-dimensional constant volume bomb. International Journal of Hydrogen Energy, 2015, 40, 2377-2385.	3.8	13
51	Highly Turbocharged Gasoline Engine and Rapid Compression Machine Studies of Super-Knock. SAE International Journal of Engines, 0, 9, 1475-1485.	0.4	13
52	The Impacts of Mid-Level Alcohol Content in Gasoline on SIDI Engine-Out and Tailpipe Emissions. , 2010, , .		12
53	Experimental and numerical investigation on H2/CO formation and their effects on combustion characteristics in a natural gas SI engine. Energy, 2018, 143, 597-605.	4.5	10
54	Auto-ignition characteristics of end-gas in a rapid compression machine under super-knock conditions. Combustion and Flame, 2019, 205, 378-388.	2.8	8

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55	Super-knock suppression for highly turbocharged gasoline engines using lean mixture control strategy with the same energy density. International Journal of Engine Research, 2021, 22, 665-673.	1.4	7
56	Relationships between Vehicle Pricing and Features: Data Driven Analysis of the Chinese Vehicle Market. Energies, 2020, 13, 3088.	1.6	5
57	Combustion and Emission Characteristics of Multiple Premixed Compression Ignition (MPCI) Mode with Low Octane Gasoline Fuels. Energy Procedia, 2014, 61, 2127-2131.	1.8	4
58	Boundary layer solutions to a point sink flow inside a cone with mass transpiration and moving wall. European Physical Journal Plus, 2015, 130, 1.	1.2	3
59	Oxidation of 2,6-dimethylheptane at low temperature: Kinetic modeling and experimental study. Fuel, 2021, 287, 119220.	3.4	3
60	Evaluating Chinaâ€™s Passenger Vehicle Market under the Vehicle Policies of 2021â€“2023. World Electric Vehicle Journal, 2021, 12, 72.	1.6	3
61	Steady Viscous Flow Between Two Porous Disks With Stretching Motion. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	0.8	2
62	Experiment and simulation using diffusion flux model for gas-particle two-phase flow in a suspension bed. Chemical Engineering Science, 2004, 59, 1505-1514.	1.9	1
63	Experimental Study of Flame Accelerated Ignition on Rapid Compression Machine and Heavy Duty Engine. , 0, , .		1
64	Investigation on Effects of Ignition Configurations on Knocking Combustion Using an Optical Rapid Compression Machine under Lean to Stoichiometric Conditions. Combustion Science and Technology, 2022, 194, 1678-1699.	1.2	1
65	Chinaâ€™s Booming Plug-in Electric Vehicle Marketâ€”How Will It Continue?. Lecture Notes in Mobility, 2020, , 215-255.	0.2	1