

# Yong Qian

## List of Publications by Year in descending order

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110  
papers

2,964  
citations

159585

30  
h-index

214800

47  
g-index

110  
all docs

110  
docs citations

110  
times ranked

1707  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in the development of biofuel 2,5-dimethylfuran. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 633-646.	16.4	162
2	Review of the state-of-the-art of particulate matter emissions from modern gasoline fueled engines. <i>Applied Energy</i> , 2019, 238, 1269-1298.	10.1	125
3	Review of the state-of-the-art of biogas combustion mechanisms and applications in internal combustion engines. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 50-58.	16.4	111
4	Experimental studies on combustion and emissions of RCCI (reactivity controlled compression) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	8.8	104
5	Principles of non-intrusive diagnostic techniques and their applications for fundamental studies of combustion instabilities in gas turbine combustors: A brief review. <i>Aerospace Science and Technology</i> , 2019, 84, 585-603.	4.8	96
6	Experimental and modeling study of liquid fuel injection and combustion in diesel engines with a common rail injection system. <i>Applied Energy</i> , 2018, 230, 287-304.	10.1	94
7	The effect of ammonia addition on the low-temperature autoignition of n-heptane: An experimental and modeling study. <i>Combustion and Flame</i> , 2020, 217, 4-11.	5.2	84
8	Effects of EGR rate and hydrogen/carbon monoxide ratio on combustion and emission characteristics of biogas/diesel dual fuel combustion engine. <i>Fuel</i> , 2016, 181, 1050-1057.	6.4	83
9	Experimental study on compound HCCI (homogenous charge compression ignition) combustion fueled with gasoline and diesel blends. <i>Energy</i> , 2014, 64, 707-718.	8.8	78
10	A new methodology for diesel surrogate fuel formulation: Bridging fuel fundamental properties and real engine combustion characteristics. <i>Energy</i> , 2018, 148, 424-447.	8.8	76
11	Effects of fuel injection strategies on combustion and emissions of intelligent charge compression ignition (ICCI) mode fueled with methanol and biodiesel. <i>Fuel</i> , 2020, 274, 117851.	6.4	68
12	Experimental studies on combustion and emissions of RCCI fueled with n-heptane/alcohols fuels. <i>Fuel</i> , 2015, 162, 239-250.	6.4	64
13	Low-temperature auto-ignition characteristics of NH <sub>3</sub> /diesel binary fuel: Ignition delay time measurement and kinetic analysis. <i>Fuel</i> , 2020, 281, 118761.	6.4	60
14	Effects of direct injection timing and premixed ratio on combustion and emissions characteristics of RCCI (Reactivity Controlled Compression Ignition) with N-heptane/gasoline-like fuels. <i>Energy</i> , 2015, 93, 383-392.	8.8	50
15	Surrogate fuels for RP-3 kerosene formulated by emulating molecular structures, functional groups, physical and chemical properties. <i>Combustion and Flame</i> , 2019, 208, 388-401.	5.2	48
16	Experimental investigation of direct injection dual fuel of n-butanol and biodiesel on Intelligent Charge Compression Ignition (ICCI) Combustion mode. <i>Applied Energy</i> , 2020, 266, 114884.	10.1	48
17	Dual fuel intelligent charge compression ignition (ICCI) combustion: Efficient and clean combustion technology for compression ignition engines. <i>Fuel</i> , 2020, 279, 118565.	6.4	45
18	Effects of different aromatics blended with diesel on combustion and emission characteristics with a common rail diesel engine. <i>Applied Thermal Engineering</i> , 2017, 125, 1530-1538.	6.0	44

#	ARTICLE	IF	CITATIONS
19	Gas-phase autoignition of diesel/gasoline blends over wide temperature and pressure in heated shock tube and rapid compression machine. <i>Combustion and Flame</i> , 2019, 201, 264-275.	5.2	44
20	Engine performance and octane on demand studies of a dual fuel spark ignition engine with ethanol/gasoline surrogates as fuel. <i>Energy Conversion and Management</i> , 2019, 183, 296-306.	9.2	44
21	Achieving high efficient gasoline compression ignition (GCI) combustion through the cooperative-control of fuel octane number and air intake conditions. <i>Fuel</i> , 2019, 242, 23-34.	6.4	42
22	Ignition delay times of decalin over low-to-intermediate temperature ranges: Rapid compression machine measurement and modeling study. <i>Combustion and Flame</i> , 2018, 196, 160-173.	5.2	41
23	Optimizing gasoline compression ignition engine performance and emissions: Combined effects of exhaust gas recirculation and fuel octane number. <i>Applied Thermal Engineering</i> , 2019, 153, 669-677.	6.0	41
24	Combustion and emission characteristics of gasoline/hydrogenated catalytic biodiesel blends in gasoline compression ignition engines under different loads of double injection strategies. <i>Applied Energy</i> , 2019, 251, 113296.	10.1	39
25	Control of intake boundary conditions for enabling clean combustion in variable engine conditions under intelligent charge compression ignition (ICCI) mode. <i>Applied Energy</i> , 2020, 274, 115297.	10.1	39
26	Influences of fuel injection strategies on combustion performance and regular/irregular emissions in a turbocharged gasoline direct injection engine: Commercial gasoline versus multi-components gasoline surrogates. <i>Energy</i> , 2018, 157, 173-187.	8.8	36
27	Experimental studies on the key parameters controlling the combustion and emission in premixed charge compression ignition concept based on diesel surrogates. <i>Applied Energy</i> , 2019, 235, 233-246.	10.1	36
28	Experimental and modeling study of the autoignition characteristics of commercial diesel under engine-relevant conditions. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4805-4812.	3.9	35
29	An investigation on gasoline compression ignition (GCI) combustion in a heavy-duty diesel engine using gasoline/hydrogenated catalytic biodiesel blends. <i>Applied Thermal Engineering</i> , 2019, 160, 113952.	6.0	34
30	Octane rating effects of direct injection fuels on dual fuel HCCI-DI stratified combustion mode with port injection of n-heptane. <i>Energy</i> , 2016, 111, 1003-1016.	8.8	33
31	A study on the low-to-intermediate temperature ignition delays of long chain branched paraffin: Iso-cetane. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 631-638.	3.9	31
32	Effects of fuel reforming on large-bore low-speed two-stroke dual fuel marine engine combined with EGR and injection strategy. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 29505-29517.	7.1	30
33	Modulated diesel fuel injection strategy for efficient-clean utilization of low-grade biogas. <i>Applied Thermal Engineering</i> , 2016, 107, 844-852.	6.0	29
34	Particulate matter emission characteristics of a reactivity controlled compression ignition engine fueled with biogas/diesel dual fuel. <i>Journal of Aerosol Science</i> , 2017, 113, 166-177.	3.8	29
35	Experimental and modeling validation of a large diesel surrogate: Autoignition in heated rapid compression machine and oxidation in flow reactor. <i>Combustion and Flame</i> , 2019, 202, 195-207.	5.2	29
36	Exploration of chemical composition effects on the autoignition of two commercial diesels: Rapid compression machine experiments and model simulation. <i>Combustion and Flame</i> , 2019, 204, 204-219.	5.2	29

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37	Effects of the variation in diesel fuel components on the particulate matter and unregulated gaseous emissions from a common rail diesel engine. <i>Fuel</i> , 2018, 232, 279-289.	6.4	28
38	Experimental study of combustion and emission characteristics of gasoline compression ignition (GCI) engines fueled by gasoline-hydrogenated catalytic biodiesel blends. <i>Energy</i> , 2019, 187, 115931.	8.8	27
39	Clustering-based particle detection method for digital holography to detect the three-dimensional location and in-plane size of particles. <i>Measurement Science and Technology</i> , 2021, 32, 055205.	2.6	27
40	Autoignition behavior of methanol/diesel mixtures: Experiments and kinetic modeling. <i>Combustion and Flame</i> , 2021, 228, 1-12.	5.2	27
41	Combustion and emission behavior of N-propanol as partially alternative fuel in a direct injection spark ignition engine. <i>Applied Thermal Engineering</i> , 2018, 144, 126-136.	6.0	26
42	Experimental investigation on combustion and emission characteristics of butanol/biodiesel under blend fuel mode, dual fuel RCCI and ICCI modes. <i>Fuel</i> , 2021, 305, 121590.	6.4	26
43	Experimental study of butanol/biodiesel dual-fuel combustion in intelligent charge compression ignition (ICCI) mode: A systematic analysis at low load. <i>Fuel</i> , 2021, 287, 119523.	6.4	25
44	Investigation of engine performance for alcohol/kerosene blends as in spark-ignition aviation piston engine. <i>Applied Energy</i> , 2020, 268, 114959.	10.1	24
45	Gasoline-diesel dual fuel intelligent charge compression ignition (ICCI) combustion: Conceptual model and comparison with other advanced combustion modes. <i>Science China Technological Sciences</i> , 2021, 64, 719-728.	4.0	24
46	Experimental study on spray characteristics of six-component diesel surrogate fuel under sub/trans/supercritical conditions with different injection pressures. <i>Energy</i> , 2021, 218, 119474.	8.8	23
47	Enabling dual fuel sequential combustion using port fuel injection of high reactivity fuel combined with direct injection of low reactivity fuels. <i>Applied Thermal Engineering</i> , 2016, 103, 399-410.	6.0	22
48	Combustion and regulated/unregulated emissions of a direct injection spark ignition engine fueled with C3-C5 alcohol/gasoline surrogate blends. <i>Energy</i> , 2019, 174, 779-791.	8.8	22
49	Experimental study on combustion stability characteristics in liquid-fueled gas turbine model combustor: Fuel sensitivities and flame/flow dynamics. <i>Fuel</i> , 2020, 265, 116973.	6.4	22
50	Quantification of the size, 3D location and velocity of burning iron particles in premixed methane flames using high-speed digital in-line holography. <i>Combustion and Flame</i> , 2021, 230, 111430.	5.2	22
51	Ignition and combustion behavior of single micron-sized iron particle in hot gas flow. <i>Combustion and Flame</i> , 2022, 241, 112099.	5.2	22
52	Experimental study the effect of injection strategies on combustion and emission characteristics in gasoline compression ignition engines using gasoline/hydrogenated catalytic biodiesel blends. <i>Fuel</i> , 2020, 278, 118156.	6.4	21
53	A detailed study on the micro-explosion of burning iron particles in hot oxidizing environments. <i>Combustion and Flame</i> , 2022, 238, 111755.	5.2	21
54	Polyethylene glycol&ndash;polylactic acid nanoparticles modified with cysteine&ndash;arginine&ndash;glutamic acid&ndash;lysine&ndash;alanine fibrin-homing peptide for glioblastoma therapy by enhanced retention effect. <i>International Journal of Nanomedicine</i> , 2014, 9, 5261.	6.7	20

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55	Effects of natural gas, ethanol, and methanol enrichment on the performance of in-cylinder thermochemical fuel reforming (TFR) spark-ignition natural gas engine. <i>Applied Thermal Engineering</i> , 2019, 159, 113913.	6.0	20
56	Experimental and kinetic study of diesel/gasoline surrogate blends over wide temperature and pressure. <i>Combustion and Flame</i> , 2020, 213, 369-381.	5.2	19
57	Improvement of combustion performance and emissions in a gasoline direct injection (GDI) engine by modulation of fuel volatility. <i>Fuel</i> , 2020, 268, 117369.	6.4	19
58	Experimental study on the application of bioethanol in dual-fuel intelligent charge compression ignition (ICCI) engine. <i>Fuel</i> , 2021, 303, 121181.	6.4	19
59	Comparison of four butanol isomers blended with diesel on particulate matter emissions in a common rail diesel engine. <i>Journal of Aerosol Science</i> , 2019, 137, 105434.	3.8	18
60	Experimental study on diesel's twin injection and spray impingement characteristics under marine engine's conditions. <i>Fuel</i> , 2021, 302, 121133.	6.4	18
61	Experimental and modeling study of the autoignition for diesel and n-alcohol blends from ethanol to n-pentanol in shock tube and rapid compression machine. <i>Combustion and Flame</i> , 2021, 227, 296-308.	5.2	17
62	Development and validation of a detailed kinetic model for RP-3 aviation fuel based on a surrogate formulated by emulating macroscopic properties and microscopic structure. <i>Combustion and Flame</i> , 2021, 229, 111401.	5.2	17
63	Autoignition of butanol isomers/n-heptane blend fuels on a rapid compression machine in N <sub>2</sub> /O <sub>2</sub> /Ar mixtures. <i>Science China Technological Sciences</i> , 2014, 57, 461-470.	4.0	16
64	A comprehensive study of fuel reactivity on reactivity controlled compression ignition engine: Based on gasoline and diesel surrogates. <i>Fuel</i> , 2019, 255, 115822.	6.4	16
65	The autoignition of iso-dodecane in low to high temperature range: An experimental and modeling study. <i>Combustion and Flame</i> , 2019, 210, 222-235.	5.2	15
66	Ignition delay time measurements and kinetic modeling of methane/diesel mixtures at elevated pressures. <i>Combustion and Flame</i> , 2021, 229, 111390.	5.2	13
67	Experimental study on the application of n-butanol and n-butanol/kerosene blends as fuel for spark ignition aviation piston engine. <i>Fuel</i> , 2021, 304, 121362.	6.4	13
68	Experimental studies on the co-effects of engine operating parameters and fuel functional groups on the performance and emissions of a GDI engine. <i>Applied Thermal Engineering</i> , 2018, 140, 707-715.	6.0	12
69	Surrogate Formulation for Marine Diesel Considering Some Important Fuel Physical-Chemical Properties. <i>Energy &amp; Fuels</i> , 2019, 33, 3539-3550.	5.1	11
70	Experimental study on wide load operation of gasoline compression ignition engine: Real distillate gasoline versus primary reference fuel. <i>Fuel</i> , 2020, 277, 118211.	6.4	11
71	An experimental and modeling study of autoignition characteristics of butanol/diesel blends over wide temperature ranges. <i>Combustion and Flame</i> , 2020, 217, 175-187.	5.2	11
72	Experimental studies on the combustion and particulate matter emission characteristics of biodiesel surrogate component/diesel. <i>Applied Thermal Engineering</i> , 2018, 131, 565-575.	6.0	10

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73	The experimental study of autoignition of tetralin at intermediate-to-high temperatures. <i>Fuel</i> , 2020, 266, 117081.	6.4	10
74	Autoignition study of methyl decanoate using a rapid compression machine. <i>Fuel</i> , 2020, 266, 117060.	6.4	10
75	A methodology for stratified-charge preparation via low-reactivity fuel multi-injection strategy in intelligent charge compression ignition (ICCI) mode. <i>Fuel</i> , 2021, 289, 119751.	6.4	10
76	Performance, Combustion, and Emission Evaluation of Ethanol-Gasoline Blends Ignited by Diesel in Dual-Fuel Intelligent Charge Compression Ignition (ICCI) Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	2.3	10
77	Construction of a skeletal multi-component diesel surrogate model by integrating chemical lumping and genetic algorithm. <i>Fuel</i> , 2022, 313, 122711.	6.4	10
78	Effects of short chain aromatics in gasoline on GDI engine combustion and emissions. <i>Fuel</i> , 2021, 297, 120725.	6.4	9
79	An experimental and modeling study of n-hexadecane autoignition under low-to-intermediate temperatures. <i>Science China Technological Sciences</i> , 2020, 63, 719-730.	4.0	8
80	Application of methanol and optimization of mixture design over the full operating map in an intelligent charge compression ignition (ICCI) engine. <i>Fuel Processing Technology</i> , 2022, 234, 107345.	7.2	8
81	Towards low emissions and high thermal efficiency of gasoline compression ignition engine under high loads by modulating the fuel reactivity and injection strategy. <i>Science China Technological Sciences</i> , 2020, 63, 96-104.	4.0	7
82	An experimental and modeling study of autoignition characteristics of two real low-octane gasoline fuels in a heated rapid compression machine at elevated pressures. <i>Fuel</i> , 2021, 295, 120645.	6.4	7
83	Towards a comprehensive understanding of mode transition between biodiesel-biobutanol dual-fuel ICCI low temperature combustion and conventional CI combustion – Part I: Characteristics from medium to high load. <i>Energy</i> , 2022, 246, 123414.	8.8	7
84	Effects of Iso-Alkanes as Surrogate Components Blending in Diesel Fuel on the Combustion Process and Emission Characters. , 0, , .		6
85	An experimental study of the injection strategies on engine performance of the butanol/biodiesel dual-fuel Intelligent Charge Compression Ignition mode. <i>International Journal of Engine Research</i> , 2021, 22, 3219-3232.	2.3	6
86	Experimental Investigation of Injection Strategies to Improve Intelligent Charge Compression Ignition (ICCI) Combustion with Methanol and Biodiesel Direct Injection. , 0, , .		6
87	Potential of EGR and intake heating for load extension using gasoline-ethanol blends as low reactivity fuel in an intelligent charge compression ignition engine. <i>Fuel</i> , 2022, 314, 122785.	6.4	6
88	Towards a comprehensive understanding of mode transition between biodiesel-biobutanol dual-fuel ICCI low temperature combustion and conventional CI combustion - Part I: A system optimization at low load. <i>Energy</i> , 2022, 241, 122886.	8.8	6
89	Characterizing the role of fuel injection strategies on performance, combustion, and emissions in intelligent charge compression ignition (ICCI) mode. <i>Applied Thermal Engineering</i> , 2022, 207, 118169.	6.0	6
90	Effects of n-heptane enrichment on in-cylinder thermochemical fuel reforming (TFR) characteristics and performances of spark ignition natural gas engine: A comparison with natural gas and methanol enrichment. <i>Fuel</i> , 2020, 271, 117531.	6.4	5

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91	Coordination of fuel reactivity and injection timing to achieve highly efficient and stable gasoline compression ignition combustion in a wide load range. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 1840-1853.	1.9	5
92	Experimental Study of Premixed-Charge Compression Ignition Mode in Low Load Fueled With Butanol Isomers and Diesel Binary Fuels in a Common-Rail Diesel Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	4
93	Effects of injection strategies coupled with gasoline-hydrogenated catalytic biodiesel blends on combustion and emission characteristics in GCI engine under low loads. Fuel, 2022, 317, 123490.	6.4	4
94	Experimental investigation of the combustion characteristics and the emission characteristics of biogasâ€ diesel dual fuel in a common-rail diesel engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2017, 231, 1900-1912.	1.9	3
95	Impact of small-amount diesel addition on methane ignition behind reflected shock waves: Experiments and modeling. Fuel, 2021, 288, 119672.	6.4	3
96	Co-effects of fuel research octane number and ethanol injection ratio on dual-fuel spark-ignition engine. International Journal of Engine Research, 2021, 22, 456-467.	2.3	3
97	Theoretical and Experimental Study of 3-Pentanol Autoignition: Ab Initio Calculation, Shock Tube Experiments, and Kinetic Modeling. Journal of Physical Chemistry A, 2021, 125, 5976-5989.	2.5	3
98	Parametric study on dual-fuel ignition characteristics under marine engine-relevant conditions. Fuel, 2022, 311, 122611.	6.4	3
99	Experimental Investigation on Spray Evaporation and Dispersion Characteristics of Impinged Biodiesel-Butanol Blends. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	1.1	3
100	Impacts of gasoline fuel components on GDI engine performances: Part 1, influence on gaseous toxic pollutants. Fuel, 2022, 310, 122423.	6.4	2
101	Experimental investigations of aviation kerosene spray in different ambient conditions with various nozzle diameters and injection pressures. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023, 237, 440-454.	1.9	2
102	Construction of surrogate fuels for lower freezing point diesels based on component and functional groups analysis. Fuel Processing Technology, 2022, 235, 107359.	7.2	2
103	Auto-ignition characteristics of a near-term light surrogate fuel for marine diesel: An experimental and modeling study. Combustion and Flame, 2021, 228, 302-314.	5.2	1
104	Exploring the Effects of the Key Multi-Injection Parameters on Combustion and Emissions in Intelligent Charge Compression Ignition (ICCI) Mode. SAE International Journal of Advances and Current Practices in Mobility, 0, 3, 187-196.	2.0	1
105	Experimental study on spray diffusion characteristics at various biodiesel-butanol blended ratios and ambient conditions. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2022, 236, 840-852.	1.4	1
106	Experimental study of the effect of various collision angles and critical conditions on marine engineâ€™s twin-spray collision process. International Journal of Engine Research, 2023, 24, 999-1015.	2.3	1
107	Intelligent charge compression ignition combustion for range extender medium duty applications. Renewable Energy, 2022, 187, 671-687.	8.9	1
108	A comparative study on alcohol-diesel blended fuels in a common rail diesel engine: Combined effects of carbon numbers, oxygen content, and molecular structure. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2022, 236, 124-136.	1.4	0

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109	Thermoacoustic Instability Characteristics and Flame/Flow Dynamics in a Multinozzle Lean Premixed Gas Turbine Model Combustor Operated with High Carbon Number Hydrocarbon Fuels. <i>Energy &amp; Fuels</i> , 2021, 35, 1701-1714.	5.1	0
110	Experimental study of axial spark location effects on transient flame/flow dynamics during ignition in a kerosene-fueled gas turbine model combustor. <i>Fuel</i> , 2022, 323, 124336.	6.4	0