

# Haifeng Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116  
papers

5,435  
citations

37  
h-index

72  
g-index

121  
ext. papers

6,490  
ext. citations

6.4  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
116	Investigation on the ignition delay prediction model of multi-component surrogates based on back propagation (BP) neural network. <i>Combustion and Flame</i> , <b>2022</b> , 237, 111852	5.3	11
115	Optical diagnostics and chemical kinetic analysis on the dual-fuel combustion of methanol and high reactivity fuels. <i>Fuel</i> , <b>2022</b> , 312, 122949	7.1	1
114	Study on effects of the hydroxyl group position and carbon chain length on combustion and emission characteristics of Reactivity Controlled Compression Ignition (RCCI) engine fueled with low-carbon straight chain alcohols. <i>Energy</i> , <b>2022</b> , 239, 122259	7.9	4
113	Study on characteristics of marine heavy fuel oil and low carbon alcohol blended fuels at different temperatures. <i>Fuel</i> , <b>2022</b> , 310, 122307	7.1	4
112	Effects of Unconventional Additives in Gasoline on the Performance of a Vehicle. <i>Energies</i> , <b>2022</b> , 15, 1605	3.1	0
111	Effects of Methanol Application on Carbon Emissions and Pollutant Emissions Using a Passenger Vehicle. <i>Processes</i> , <b>2022</b> , 10, 525	2.9	5
110	An overview of polyoxymethylene dimethyl ethers as alternative fuel for compression ignition engines. <i>Fuel</i> , <b>2022</b> , 318, 123582	7.1	6
109	Progress and Recent Trends in the Application of Nanoparticles as Low Carbon Fuel Additives-A State of the Art Review.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	3
108	Investigation of the Combustion Kinetics Process in a High-Pressure Direct Injection Natural Gas Marine Engine. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 6785-6797	4.1	3
107	A Review of Thermal Management System and Control Strategy for Automotive Engines. <i>Journal of Energy Engineering - ASCE</i> , <b>2021</b> , 147, 03121001	1.7	12
106	Investigations on the effects of low temperature reforming of n-heptane/n-butanol blends on the flame development progress and combustion chemical kinetics. <i>Fuel</i> , <b>2021</b> , 290, 120001	7.1	2
105	Effect of the stagnation plate on PAHs, soot and OH distributions in partially premixed laminar flames fueled with a blend of n-heptane and toluene. <i>Combustion and Flame</i> , <b>2021</b> , 227, 52-64	5.3	10
104	Multiple optical diagnostics on effects of fuel properties on spray flames under oxygen-enriched conditions. <i>Fuel</i> , <b>2021</b> , 291, 120129	7.1	10
103	Optical investigation on polyoxymethylene dimethyl ethers spray flame at different oxygen levels in a constant volume vessel. <i>Science China Technological Sciences</i> , <b>2021</b> , 64, 1611-1623	3.5	1
102	Exploring the high load potential of diesel-methanol dual-fuel operation with Miller cycle, exhaust gas recirculation, and intake air cooling on a heavy-duty diesel engine. <i>International Journal of Engine Research</i> , <b>2021</b> , 22, 2318-2336	2.7	9
101	On the entropy generation and exergy loss of laminar premixed flame under engine-relevant conditions. <i>Fuel</i> , <b>2021</b> , 283, 119245	7.1	3
100	Analysis of knocking combustion with methanol/iso-octane and ethanol/iso-octane blends in a spark-ignition engine. <i>Fuel</i> , <b>2021</b> , 284, 118979	7.1	7

99	Effect of soybean oil/PODE/ethanol blends on combustion and emissions on a heavy-duty diesel engine. <i>Fuel</i> , <b>2021</b> , 288, 119625	7.1	7
98	Effects of water content on the solubility between Isopropanol-Butanol-Ethanol (IBE) and diesel fuel under various ambient temperatures. <i>Fuel</i> , <b>2021</b> , 286, 119492	7.1	9
97	Optical diagnostics on the effects of reverse reactivity stratification on the flame development in dual-fuel combustion. <i>Fuel</i> , <b>2021</b> , 287, 119500	7.1	5
96	Low-carbon alcohol fuels for decarbonizing the road transportation industry: a bibliometric analysis 2000-2021. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	6
95	A Mapping Approach for Efficient CFD Simulation of Low-Speed Large-Bore Marine Engine with Pre-Chamber and Dual-Fuel Operation. <i>Energies</i> , <b>2021</b> , 14, 6126	3.1	
94	Reviewing two decades of cleaner alternative marine fuels: Towards IMO's decarbonization of the maritime transport sector. <i>Journal of Cleaner Production</i> , <b>2021</b> , 320, 128871	10.3	33
93	Gasoline spray characteristics using a high pressure common rail diesel injection system by the method of laser induced exciplex fluorescence. <i>Fuel</i> , <b>2021</b> , 302, 121174	7.1	6
92	Study on effects of molecule structure on exhaust emissions from RCCI engine fueled with low alcohol isomers. <i>Fuel</i> , <b>2021</b> , 304, 121339	7.1	6
91	Preparation of ethanol and palm oil/palm kernel oil alternative biofuels based on property improvement and particle size analysis. <i>Fuel</i> , <b>2021</b> , 305, 121569	7.1	5
90	Preparation and performance improvement of methanol and palm oil/palm kernel oil blended fuel. <i>Fuel Processing Technology</i> , <b>2021</b> , 223, 106996	7.2	5
89	Development of a simplified n-heptane/methane model for high-pressure direct-injection natural gas marine engines. <i>Frontiers in Energy</i> , <b>2021</b> , 15, 405-420	2.6	7
88	Optical diagnostics on the effects of fuel properties and coolant temperatures on combustion characteristic and flame development progress from HCCI to CDC via PPC. <i>Fuel</i> , <b>2020</b> , 269, 117441	7.1	15
87	Investigation on the dual-fuel active-thermal atmosphere combustion strategy based on optical diagnostics and numerical simulations. <i>Fuel</i> , <b>2020</b> , 276, 118023	7.1	13
86	Macro and micro solubility between low-carbon alcohols and rapeseed oil using different co-solvents. <i>Fuel</i> , <b>2020</b> , 270, 117511	7.1	15
85	Preparation of corn-oil as an alternative fuel and transcriptome analysis of metabolic pathway related to fuel component accumulation. <i>Fuel</i> , <b>2020</b> , 275, 117931	7.1	3
84	Effects of diesel-ethanol-THF blend fuel on the performance and exhaust emissions on a heavy-duty diesel engine. <i>Fuel</i> , <b>2020</b> , 271, 117633	7.1	29
83	Study on influencing factors of particle emissions from a RCCI engine with variation of premixing ratio and total cycle energy. <i>Energy</i> , <b>2020</b> , 202, 117707	7.9	19
82	Kinetic Study of the Ignition Process of Methane/n-Heptane Fuel Blends under High-Pressure Direct-Injection Natural Gas Engine Conditions. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 14796-14813	4.1	9

81	Effects of direct-injection fuel types and proportion on late-injection reactivity controlled compression ignition. <i>Combustion and Flame</i> , <b>2020</b> , 211, 445-455	5.3	32
80	Identification of factors affecting exergy destruction and engine efficiency of various classes of fuel. <i>Energy</i> , <b>2020</b> , 211, 118897	7.9	1
79	Development of the ignition delay prediction model of n-butane/hydrogen mixtures based on artificial neural network. <i>Energy and AI</i> , <b>2020</b> , 2, 100033	12.6	12
78	Effects of Gasoline Octane Number on Fuel Consumption and Emissions in Two Vehicles Equipped with GDI and PFI Spark-Ignition Engine. <i>Journal of Energy Engineering - ASCE</i> , <b>2020</b> , 146, 04020069	1.7	10
77	Study on the Solubility between Diesel and Acetone/Butanol/Ethanol with or without Water. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 1166-1176	4.1	5
76	Effects of injection strategies on low-speed marine engines using the dual fuel of high-pressure direct-injection natural gas and diesel. <i>Energy Science and Engineering</i> , <b>2019</b> , 7, 1994-2010	3.4	16
75	Effects of Flame Temperature on PAHs and Soot Evolution in Partially Premixed and Diffusion Flames of a Diesel Surrogate. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 11821-11829	4.1	26
74	Effect of diesel/PODE/ethanol blends on combustion and emissions of a heavy duty diesel engine. <i>Fuel</i> , <b>2019</b> , 257, 116064	7.1	49
73	Study on single-fuel reactivity controlled compression ignition combustion through low temperature reforming. <i>Combustion and Flame</i> , <b>2019</b> , 199, 429-440	5.3	10
72	Investigation on Blending Effects of Gasoline Fuel with N-Butanol, DMF, and Ethanol on the Fuel Consumption and Harmful Emissions in a GDI Vehicle. <i>Energies</i> , <b>2019</b> , 12, 1845	3.1	45
71	Effects of diluents on cycle-by-cycle variations in a spark ignition engine fueled with methanol. <i>Energy</i> , <b>2019</b> , 182, 1132-1140	7.9	17
70	Optical diagnostics on the reactivity controlled compression ignition (RCCI) with micro direct-injection strategy. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 4767-4775	5.9	19
69	Spray and flame characteristics of wall-impinging diesel fuel spray at different wall temperatures and ambient pressures in a constant volume combustion vessel. <i>Fuel</i> , <b>2019</b> , 235, 416-425	7.1	50
68	A comparative study on partially premixed combustion (PPC) and reactivity controlled compression ignition (RCCI) in an optical engine. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 4759-4766	5.9	52
67	An Investigation of the Influence of Gas Injection Rate Shape on High-Pressure Direct-Injection Natural Gas Marine Engines. <i>Energies</i> , <b>2019</b> , 12, 2571	3.1	14
66	Analysis of near wall combustion and pollutant migration after spray impingement. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 141, 569-579	4.9	6
65	Experimental study on the partially premixed combustion (PPC) fueled with n-butanol. <i>Fuel</i> , <b>2019</b> , 257, 116000	7.1	8
64	Effects of various co-solvents on the solubility between blends of soybean oil with either methanol or ethanol. <i>Fuel</i> , <b>2019</b> , 244, 461-471	7.1	37

63	Effects of polyoxymethylene dimethyl ethers on the solubility of ethanol/diesel and hydrous ethanol/diesel fuel blends. <i>Energy Science and Engineering</i> , <b>2019</b> , 7, 2855-2865	3.4	18
62	Influence of n-butanol-diesel-PODE3-4 fuels coupled pilot injection strategy on combustion and emission characteristics of diesel engine. <i>Fuel</i> , <b>2019</b> , 236, 313-324	7.1	24
61	Effects of C3-C5 alcohols on solubility of alcohols/diesel blends. <i>Fuel</i> , <b>2019</b> , 236, 65-74	7.1	53
60	Theoretical analysis on the exergy destruction mechanisms and reduction under LTC relevant conditions. <i>Proceedings of the Combustion Institute</i> , <b>2019</b> , 37, 4797-4804	5.9	3
59	Study on the flame development patterns and flame speeds from homogeneous charge to stratified charge by fueling n-heptane in an optical engine. <i>Combustion and Flame</i> , <b>2019</b> , 199, 213-229	5.3	23
58	Experimental study on combustion and emissions of n-butanol/biodiesel under both blended fuel mode and dual fuel RCCI mode. <i>Fuel</i> , <b>2018</b> , 226, 240-251	7.1	83
57	Experimental study on combustion and emissions of dual fuel RCCI mode fueled with biodiesel/n-butanol, biodiesel/2,5-dimethylfuran and biodiesel/ethanol. <i>Energy</i> , <b>2018</b> , 148, 824-838	7.9	97
56	Influence of fuel properties on multi-cylinder PPC operation over a wide range of EGR and operating conditions. <i>Fuel</i> , <b>2018</b> , 215, 352-362	7.1	16
55	Effects of port injection of hydrous ethanol on combustion and emission characteristics in dual-fuel reactivity controlled compression ignition (RCCI) mode. <i>Energy</i> , <b>2018</b> , 145, 592-602	7.9	47
54	Pilot injection strategy management of gasoline compression ignition (GCI) combustion in a multi-cylinder diesel engine. <i>Fuel</i> , <b>2018</b> , 221, 116-127	7.1	30
53	Laser diagnostics and chemical kinetic analysis of PAHs and soot in co-flow partially premixed flames using diesel surrogate and oxygenated additives of n-butanol and DMF. <i>Combustion and Flame</i> , <b>2018</b> , 188, 129-141	5.3	75
52	A theoretical and experimental study on the effects of parameters of two-stage turbocharging system on performance of a heavy-duty diesel engine. <i>Applied Thermal Engineering</i> , <b>2018</b> , 129, 822-832	5.8	32
51	Investigation on the Potential of High Efficiency for Internal Combustion Engines. <i>Energies</i> , <b>2018</b> , 11, 513	3.1	23
50	Study on Fuel Distribution of Wall-Impinging Diesel Spray under Different Wall Temperatures by Laser-Induced Exciplex Fluorescence (LIEF). <i>Energies</i> , <b>2018</b> , 11, 1249	3.1	12
49	Effect of Wall Temperature on Acetylene Diffusion Flame/Wall Interaction Based on Optical Diagnostics and CFD Simulation. <i>Energies</i> , <b>2018</b> , 11, 1264	3.1	7
48	Experimental investigation of the effects of diesel fuel properties on combustion and emissions on a multi-cylinder heavy-duty diesel engine. <i>Energy Conversion and Management</i> , <b>2018</b> , 171, 1787-1800	10.6	36
47	Effects of charge concentration and reactivity stratification on combustion and emission characteristics of a PFI-DI dual injection engine under low load condition. <i>Fuel</i> , <b>2018</b> , 231, 26-36	7.1	25
46	Natural Flame Luminosity and Emission Spectra of Diesel Spray Flame under Oxygen-Enriched Condition in an Optical Constant Volume Vessel <b>2018</b> ,		4

45	The impact of low temperature reforming (LTR) products of fuel-rich n-heptane on compression ignition engine combustion. <i>Fuel</i> , <b>2018</b> , 229, 11-21	7.1	10
44	Study on ignition and flame development in gasoline partially premixed combustion using multiple optical diagnostics. <i>Combustion and Flame</i> , <b>2017</b> , 177, 98-108	5.3	61
43	Multiple optical diagnostics on effect of fuel stratification degree on reactivity controlled compression ignition. <i>Fuel</i> , <b>2017</b> , 202, 688-698	7.1	56
42	Effect of Fuels with Different Distillation Temperatures on Performance and Emissions of a Diesel Engine Run at Various Injection Pressures and Timings. <i>Journal of Energy Engineering - ASCE</i> , <b>2017</b> , 143, 04016061	1.7	12
41	Soot reduction effects of the addition of four butanol isomers on partially premixed flames of diesel surrogates. <i>Combustion and Flame</i> , <b>2017</b> , 177, 123-136	5.3	84
40	Simultaneous Measurement of Natural Flame Luminosity and Emission Spectra in a RCCI Engine under Different Fuel Stratification Degrees. <i>SAE International Journal of Engines</i> , <b>2017</b> , 10, 1155-1162	2.4	16
39	Optical study of spray-wall impingement impact on early-injection gasoline partially premixed combustion at low engine load. <i>Applied Energy</i> , <b>2017</b> , 185, 708-719	10.7	62
38	Combustion Characteristics of Wall-Impinging Diesel Fuel Spray under Different Wall Temperatures <b>2017</b> ,		6
37	Experimental study on the combustion and emissions fueling biodiesel/n-butanol, biodiesel/ethanol and biodiesel/2,5-dimethylfuran on a diesel engine. <i>Energy</i> , <b>2016</b> , 115, 539-549	7.9	81
36	Effects of different alcohols additives on solubility of hydrous ethanol/diesel fuel blends. <i>Fuel</i> , <b>2016</b> , 184, 440-448	7.1	64
35	Numerical study of spray micro-droplet impinging on dry/wet wall. <i>Applied Thermal Engineering</i> , <b>2016</b> , 95, 1-9	5.8	17
34	A Numerical Study on Combustion and Emission Characteristics of Marine Engine through Miller Cycle Coupled with EGR and Water Emulsified Fuel <b>2016</b> ,		8
33	Effects of six-carbon alcohols, ethers and ketones with chain or ring molecular structures on diesel low temperature combustion. <i>Energy Conversion and Management</i> , <b>2016</b> , 124, 480-491	10.6	36
32	PAHs formation simulation in the premixed laminar flames of TRF with alcohol addition using a semi-detailed combustion mechanism. <i>Fuel</i> , <b>2015</b> , 155, 44-54	7.1	20
31	Effect of two-stage injection on combustion and emissions under high EGR rate on a diesel engine by fueling blends of diesel/gasoline, diesel/n-butanol, diesel/gasoline/n-butanol and pure diesel. <i>Energy Conversion and Management</i> , <b>2015</b> , 90, 1-11	10.6	154
30	Experimental study on diesel conventional and low temperature combustion by fueling four isomers of butanol. <i>Fuel</i> , <b>2015</b> , 141, 109-119	7.1	125
29	Study of the control strategies on soot reduction under early-injection conditions on a diesel engine. <i>Fuel</i> , <b>2015</b> , 139, 472-481	7.1	102
28	Combustion Mode Design with High Efficiency and Low Emissions Controlled by Mixtures Stratification and Fuel Reactivity. <i>Frontiers in Mechanical Engineering</i> , <b>2015</b> , 1,	2.6	3

27	Effects of Dual Loop EGR on Performance and Emissions of a Diesel Engine <b>2015</b> ,		18
26	Effects of Fuel Physical and Chemical Properties on Combustion and Emissions on Both Metal and Optical Diesel Engines and on a Partially Premixed Burner <b>2015</b> ,		3
25	Experimental and Numerical Investigation on Soot Behavior of Soybean Biodiesel under Ambient Oxygen Dilution in Conventional and Low-Temperature Flames. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 2663-2676 <sup>4.1</sup>		16
24	Experimental and simulation investigation of the combustion characteristics and emissions using n-butanol/biodiesel dual-fuel injection on a diesel engine. <i>Energy</i> , <b>2014</b> , 74, 741-752	7.9	114
23	Experimental and numerical study on soot formation and oxidation by using diesel fuel in constant volume chamber with various ambient oxygen concentrations. <i>Energy Conversion and Management</i> , <b>2014</b> , 84, 152-163	10.6	32
22	Time-resolved spray, flame, soot quantitative measurement fueling n-butanol and soybean biodiesel in a constant volume chamber under various ambient temperatures. <i>Fuel</i> , <b>2014</b> , 133, 317-325	7.1	59
21	Study on the spray and combustion characteristics of water-emulsified diesel. <i>Fuel</i> , <b>2014</b> , 123, 218-229	7.1	102
20	Effects of Fuel Volatility on Combustion and Emissions over a Wide Range of EGR Rates in a Diesel Engine <b>2014</b> ,		11
19	Effects of fuel properties on combustion and emissions under both conventional and low temperature combustion mode fueling 2,5-dimethylfuran/diesel blends. <i>Energy</i> , <b>2013</b> , 62, 215-223	7.9	65
18	Effects of n-butanol, 2-butanol, and methyl octynoate addition to diesel fuel on combustion and emissions over a wide range of exhaust gas recirculation (EGR) rates. <i>Applied Energy</i> , <b>2013</b> , 112, 246-256 <sup>10.7</sup>		134
17	Experimental study on combustion and emission characteristics of a diesel engine fueled with 2,5-dimethylfuran-diesel, n-butanol-diesel and gasoline-diesel blends. <i>Energy</i> , <b>2013</b> , 54, 333-342	7.9	159
16	Experimental investigation of the effects of diesel injection strategy on gasoline/diesel dual-fuel combustion. <i>Applied Energy</i> , <b>2013</b> , 109, 202-212	10.7	160
15	Combustion and emissions of 2,5-dimethylfuran addition on a diesel engine with low temperature combustion. <i>Fuel</i> , <b>2013</b> , 103, 730-735	7.1	94
14	Experimental study of n-butanol addition on performance and emissions with diesel low temperature combustion. <i>Energy</i> , <b>2012</b> , 47, 515-521	7.9	114
13	Soot Emissions of Various Oxygenated Biofuels in Conventional Diesel Combustion and Low-Temperature Combustion Conditions. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 1900-1911	4.1	115
12	Experimental and numerical study on suitable diesel fuel surrogates in low temperature combustion conditions. <i>Fuel</i> , <b>2012</b> , 97, 621-629	7.1	58
11	Influence of temperature and mixture stratification on HCCI combustion using chemiluminescence images and CFD analysis. <i>Applied Thermal Engineering</i> , <b>2012</b> , 33-34, 135-143	5.8	60
10	Comparison of Ethanol and Butanol as Additives in Soybean Biodiesel Using a Constant Volume Combustion Chamber. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 1837-1846	4.1	110

9	Progress in the production and application of n-butanol as a biofuel. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 4080-4106	16.2	688
8	Effects of temperature inhomogeneities on the HCCI combustion in an optical engine. <i>Applied Thermal Engineering</i> , <b>2011</b> , 31, 2549-2555	5.8	37
7	Combustion Characteristics and Soot Distributions of Neat Butanol and Neat Soybean Biodiesel. <i>Energy &amp; Fuels</i> , <b>2011</b> , 25, 3192-3203	4.1	81
6	Diesel Engine Combustion Control: Medium or Heavy EGR? <b>2010</b> ,		57
5	Progress and recent trends in homogeneous charge compression ignition (HCCI) engines. <i>Progress in Energy and Combustion Science</i> , <b>2009</b> , 35, 398-437	33.6	849
4	Effects of Inlet Pressure and Octane Numbers on Combustion and Emissions of a Homogeneous Charge Compression Ignition (HCCI) Engine. <i>Energy &amp; Fuels</i> , <b>2008</b> , 22, 2207-2215	4.1	70
3	Supercritical thermophysical properties prediction of multi-component hydrocarbon fuels based on artificial neural network models. <i>Science China Technological Sciences</i> , 1	3.5	1
2	Effects of intake high-pressure compressed air on thermal-work conversion in a stationary diesel engine. <i>International Journal of Green Energy</i> , 1-14	3	1
1	Effects of scavenging port angle and combustion chamber geometry on combustion and emission of a high-pressure direct-injection natural gas marine engine. <i>International Journal of Green Energy</i> , 1-13	3	1