

# Yao Mingfa

## List of Publications by Year in Descending Order

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**Version:** 2024-04-20

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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.

232  
papers

8,306  
citations

47  
h-index

83  
g-index

237  
ext. papers

9,721  
ext. citations

6  
avg, IF

6.52  
L-index

#	Paper	IF	Citations
232	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
231	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
230	Thermodynamic modeling of trans/supercritical fuel sprays in internal combustion engines based on a generalized cubic equation of state. <i>Fuel</i> , <b>2022</b> , 307, 121894	7.1	0
229	Study on the influence mechanism of mixture stratification on GCI combustion and the compound injection strategy under high load operation. <i>Energy Science and Engineering</i> , <b>2021</b> , 9, 2434	3.4	0
228	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
227	Experimental investigation on the effects of octane sensitivity on partially premixed low-temperature combustion. <i>Fuel</i> , <b>2021</b> , 287, 119488	7.1	0
226	Numerical investigation of the effect of thermal barrier coating on combustion and emissions in a diesel engine. <i>Applied Thermal Engineering</i> , <b>2021</b> , 186, 116497	5.8	6
225	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
224	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
223	Numerical investigation on combustion system optimization of stoichiometric operation natural gas engine based on knocking boundary extension. <i>Fuel</i> , <b>2021</b> , 290, 120092	7.1	9
222	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
221	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
220	Experimental study on particle size distribution of gasoline compression ignition (GCI) at low-load condition. <i>Fuel</i> , <b>2021</b> , 294, 120502	7.1	2
219	Effects of flame propagation speed on knocking and knock-limited combustion in a downsized spark ignition engine. <i>Fuel</i> , <b>2021</b> , 293, 120407	7.1	7
218	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
217	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
216	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

215	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
214	Experimental and numerical study on the impact of low-temperature reforming products of BD60 on engine combustion and emission characteristics. <i>Fuel</i> , <b>2021</b> , 288, 119621	7.1	2
213	Effects of octane sensitivity on knocking combustion under modern SI engine operating conditions. <i>Proceedings of the Combustion Institute</i> , <b>2021</b> , 38, 5897-5904	5.9	5
212	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
211	Simultaneous soot multi-parameter fields predictions in laminar sooting flames from neural network-based flame luminosity measurement I: methodology. <i>Optics Letters</i> , <b>2021</b> , 46, 3869-3872	3	2
210	Numerical investigation on the combustion and emission characteristics of a heavy-duty natural gas-diesel dual-fuel engine. <i>Fuel</i> , <b>2021</b> , 300, 120998	7.1	5
209	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	
208	Experimental and kinetic modeling studies of polyoxymethylene dimethyl ether (PODE) pyrolysis in jet stirred reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2021</b> , 159, 105332	6	0
207	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
206	Development of a reduced primary reference fuel-PODE3-methanol-ethanol-n-butanol mechanism for dual-fuel engine simulations. <i>Energy</i> , <b>2021</b> , 235, 121439	7.9	3
205	Influence of thermal barrier coating on partially premixed combustion in internal combustion engine. <i>Fuel</i> , <b>2021</b> , 303, 121259	7.1	2
204	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
203	Large eddy simulation of spray combustion using flamelet generated manifolds combined with artificial neural networks. <i>Energy and AI</i> , <b>2020</b> , 2, 100021	12.6	23
202	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
201	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
200	Numerical investigation on low octane gasoline-like fuel compression ignition combustion at high load. <i>Fuel</i> , <b>2020</b> , 270, 117532	7.1	7
199	Investigation of the chemical kinetics process of diesel combustion in a compression ignition engine using the large eddy simulation approach. <i>Fuel</i> , <b>2020</b> , 270, 117544	7.1	9
198	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

197	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
196	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
195	Numerical investigation on the combustion characteristics of PODE3/gasoline RCCI and high load extension. <i>Fuel</i> , <b>2020</b> , 263, 116366	7.1	12
194	Combined effects of fuel reactivity and intake thermodynamic conditions on heat release and emissions of compression ignition combustion. <i>Fuel</i> , <b>2020</b> , 282, 118859	7.1	2
193	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
192	Structure and propagation of n-heptane/air premixed flame in low temperature ignition regime. <i>Applied Energy</i> , <b>2020</b> , 275, 115320	10.7	5
191	Model Based Control Method for Diesel Engine Combustion. <i>Energies</i> , <b>2020</b> , 13, 6046	3.1	2
190	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
189	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
188	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
187	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
186	A comparative numerical investigation of reactivity controlled compression ignition combustion using Large Eddy Simulation and Reynolds-Averaged Navier-Stokes approaches. <i>Fuel</i> , <b>2019</b> , 257, 116023	7.1	12
185	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
184	Effects of low-temperature reforming products of PRF50 on combustion and emission characteristics in an HCCI engine. <i>Applied Thermal Engineering</i> , <b>2019</b> , 151, 451-458	5.8	7
183	Effects of turbulence-chemistry interactions on auto-ignition and flame structure for n-dodecane spray combustion. <i>Combustion Theory and Modelling</i> , <b>2019</b> , 23, 907-934	1.5	9
182	Spray characteristics of gasoline/PODE and diesel/PODE blends in a constant volume chamber. <i>Applied Thermal Engineering</i> , <b>2019</b> , 159, 113850	5.8	17
181	A comparison study on the combustion and sooting characteristics of base engine oil and n-dodecane in laminar diffusion flames. <i>Applied Thermal Engineering</i> , <b>2019</b> , 158, 113812	5.8	5
180	Thermal efficiency improvement of PODE/Gasoline dual-fuel RCCI high load operation with EGR and air dilution. <i>Applied Thermal Engineering</i> , <b>2019</b> , 159, 113763	5.8	14

179	Numerical investigation of reactivity controlled compression ignition (RCCI) using different multi-component surrogate combinations of diesel and gasoline. <i>Applied Energy</i> , <b>2019</b> , 242, 462-479	10.7	13
178	Optical measurements of temperature fields in sooting flames: influence of soot self-absorption. <i>Applied Physics B: Lasers and Optics</i> , <b>2019</b> , 125, 1	1.9	4
177	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
176	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
175	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
174	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
173	Experimental study on the partially premixed combustion (PPC) fueled with n-butanol. <i>Fuel</i> , <b>2019</b> , 257, 116000	7.1	8
172	A Numerical Investigation on the Chemical Kinetics Process of a Reacting n-Dodecane Spray Flame under Compression Ignition Combustion Condition. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 11899-11912	4.1	8
171	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
170	A numerical investigation of the combustion kinetics of reactivity controlled compression ignition (RCCI) combustion in an optical engine. <i>Fuel</i> , <b>2019</b> , 241, 753-766	7.1	33
169	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
168	A Numerical Investigation on NO <sub>2</sub> Formation in a Natural Gas/Diesel Dual Fuel Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2018</b> , 140,	1.7	2
167	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
166	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
165	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
164	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
163	A numerical study on the chemical kinetics process during auto-ignition of n-heptane in a direct injection compression ignition engine. <i>Applied Energy</i> , <b>2018</b> , 212, 909-918	10.7	13
162	A theoretical investigation of the effects of temperature, pressure, and equivalence ratio on the oxidation and reformed products of PRF90 under the flexible cylinder engine mode. <i>Applied Thermal Engineering</i> , <b>2018</b> , 137, 513-520	5.8	5

161	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
160	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
159	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
158	The effect of combustion chamber geometry on in-cylinder flow and combustion process in a stoichiometric operation natural gas engine with EGR. <i>Applied Thermal Engineering</i> , <b>2018</b> , 129, 199-211	5.8	26
157	Investigation on the Potential of High Efficiency for Internal Combustion Engines. <i>Energies</i> , <b>2018</b> , 11, 513	3.1	23
156	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
155	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
154	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
153	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
152	A theoretical study on the effects of thermal barrier coating on diesel engine combustion and emission characteristics. <i>Energy</i> , <b>2018</b> , 162, 744-752	7.9	18
151	Improvement of high load performance in gasoline compression ignition engine with PODE and multiple-injection strategy. <i>Fuel</i> , <b>2018</b> , 234, 1459-1468	7.1	22
150	Gasoline compression ignition operation on a multi-cylinder heavy duty diesel engine. <i>Fuel</i> , <b>2018</b> , 215, 339-351	7.1	23
149	Effects of Low Temperature Reforming (LTR) Products of Low Octane Number Fuels on HCCI Combustion <b>2018</b> ,		1
148	Natural Flame Luminosity and Emission Spectra of Diesel Spray Flame under Oxygen-Enriched Condition in an Optical Constant Volume Vessel <b>2018</b> ,		4
147	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
146	The effects of DI fuel properties on the combustion and emissions characteristics of RCCI combustion. <i>Fuel</i> , <b>2018</b> , 227, 457-468	7.1	16
145	Experimental and modelling investigations of the diesel surrogate fuels in direct injection compression ignition combustion. <i>Applied Energy</i> , <b>2017</b> , 189, 187-200	10.7	36
144	Experimental and numerical studies on three gasoline surrogates applied in gasoline compression ignition (GCI) mode. <i>Applied Energy</i> , <b>2017</b> , 192, 59-70	10.7	16

143	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
142	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
141	A numerical study of spray/wall impingement based on droplet impact phenomenon. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 112, 401-412	4.9	27
140	The effects of LIVC Miller cycle on the combustion characteristics and thermal efficiency in a stoichiometric operation natural gas engine with EGR. <i>Applied Thermal Engineering</i> , <b>2017</b> , 122, 439-450	5.8	22
139	Experimental and numerical investigation of the effects of combustion chamber reentrant level on combustion characteristics and thermal efficiency of stoichiometric operation natural gas engine with EGR. <i>Applied Thermal Engineering</i> , <b>2017</b> , 123, 1473-1483	5.8	21
138	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
137	Investigation on partially premixed combustion fueled with gasoline and PODE blends in a multi-cylinder heavy-duty diesel engine. <i>Fuel</i> , <b>2017</b> , 193, 101-111	7.1	56
136	Experimental and Modeling Investigations on Soot Formation of Ethanol, n-Butanol, 2,5-Dimethylfuran, and Biodiesel in Diesel Engines. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 12108-12119	4.1	17
135	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
134	A numerical investigation on methane combustion and emissions from a natural gas-diesel dual fuel engine using CFD model. <i>Applied Energy</i> , <b>2017</b> , 205, 153-162	10.7	65
133	Simulation of Automotive Engine Phase Signal Based on Closed-Loop Strategy. <i>Transactions of Tianjin University</i> , <b>2017</b> , 23, 394-400	2.9	
132	Theoretical Investigation of the Combustion of PRF90 under the Flexible Cylinder Engine Mode: The Effects of Cooling Strategies on the Mode. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 13273-13281	4.1	5
131	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
130	Experimental and kinetic modeling studies of low-pressure premixed laminar 2-methylfuran flames. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 1295-1302	5.9	26
129	Strategy of interference-free atomic hydrogen detection in flames using femtosecond multi-photon laser-induced fluorescence. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 3876-3880	6.7	8
128	Strategy for single-shot CH <sub>3</sub> imaging in premixed methane/air flames using photofragmentation laser-induced fluorescence. <i>Proceedings of the Combustion Institute</i> , <b>2017</b> , 36, 4487-4495	5.9	4
127	A Numerical Investigation on NO <sub>2</sub> Formation in a Natural Gas-Diesel Dual Fuel Engine <b>2017</b> ,		2
126	Effects of Pilot Injection Strategy on Combustion and Emission Characteristics in Gasoline Compression Ignition. <i>Energy Procedia</i> , <b>2017</b> , 142, 1267-1273	2.3	7

125	Comprehensive CO detection in flames using femtosecond two-photon laser-induced fluorescence. <i>Optics Express</i> , <b>2017</b> , 25, 25809-25818	3.3	11
124	Experimental Investigation on the Effects of Injection Strategy on Combustion and Emission in a Heavy-Duty Diesel Engine Fueled with Gasoline <b>2017</b> ,		1
123	Experimental Study on High-Load Extension of Gasoline/PODE Dual-Fuel RCCI Operation Using Late Intake Valve Closing. <i>SAE International Journal of Engines</i> , <b>2017</b> , 10, 1482-1490	2.4	13
122	Experimental and Modelling Investigations of the Gasoline Compression Ignition Combustion in Diesel Engine <b>2017</b> ,		8
121	A Theoretical Investigation of the Combustion of PRF90 under the Flexible Cylinder Engine Mode <b>2017</b> ,		6
120	Combustion Characteristics of Wall-Impinging Diesel Fuel Spray under Different Wall Temperatures <b>2017</b> ,		6
119	Effects of Gasoline Viscosity and Injection Pressure on the Performance and Emissions of a Multi-Cylinder Partially Premixed Combustion Engine. <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , <b>2017</b> , 2017.9, C309		2
118	Development of a combined reduced primary reference fuel-alcohols (methanol/ethanol/propanols/butanols/n-pentanol) mechanism for engine applications. <i>Energy</i> , <b>2016</b> , 114, 542-558	7.9	64
117	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
116	An investigation into the RCCI engine operation under low load and its achievable operational range at different engine speeds. <i>Energy Conversion and Management</i> , <b>2016</b> , 124, 399-413	10.6	22
115	Direct numerical simulation of H <sub>2</sub> /air combustion with composition stratification in a constant volume enclosure relevant to HCCI engines. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 13758-13770	6.7	12
114	Prediction Accuracy and Efficiency of the n-Heptane Mechanism at Different Reduction Levels. <i>Energy &amp; Fuels</i> , <b>2016</b> , 30, 6822-6827	4.1	2
113	Development of a reduced toluene reference fuel (TRF)-2,5-dimethylfuran-polycyclic aromatic hydrocarbon (PAH) mechanism for engine applications. <i>Combustion and Flame</i> , <b>2016</b> , 165, 453-465	5.3	49
112	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
111	Effects of late intake valve closing (LIVC) and rebreathing valve strategies on diesel engine performance and emissions at low loads. <i>Applied Thermal Engineering</i> , <b>2016</b> , 98, 310-319	5.8	30
110	Effects of Different Turbocharging Systems on Performance in a HD Diesel Engine with Different Emission Control Technical Routes <b>2016</b> ,		5
109	Effects of Dual Loop EGR and Variable Geometry Turbocharger on Performance and Emissions of a Diesel Engine <b>2016</b> ,		9
108	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



107	Study on the Double Injection Strategy of Gasoline Partially Premixed Combustion under a Light-Duty Optical Engine. <i>SAE International Journal of Engines</i> , <b>2016</b> , 9, 2185-2193	2.4	12
106	Numerical Study of the RCCI Combustion Processes Fuelled with Methanol, Ethanol, n-Butanol and Diesel <b>2016</b> ,		29
105	Effects of diesel/PODE (polyoxymethylene dimethyl ethers) blends on combustion and emission characteristics in a heavy duty diesel engine. <i>Fuel</i> , <b>2016</b> , 177, 206-216	7.1	125
104	A parametric study for enabling reactivity controlled compression ignition (RCCI) operation in diesel engines at various engine loads. <i>Applied Energy</i> , <b>2016</b> , 175, 389-402	10.7	68
103	Experimental investigations of gasoline partially premixed combustion with an exhaust rebreathing valve strategy at low loads. <i>Applied Thermal Engineering</i> , <b>2016</b> , 103, 832-841	5.8	22
102	Direct numerical simulation of n-heptane/air auto-ignition with thermal and charge stratifications under partially-premixed charge compression ignition (PCCI) engine related conditions. <i>Applied Thermal Engineering</i> , <b>2016</b> , 104, 516-526	5.8	18
101	Experimental study of RCCI combustion and load extension in a compression ignition engine fueled with gasoline and PODE. <i>Fuel</i> , <b>2016</b> , 181, 878-886	7.1	102
100	A theoretical investigation of the effects of the low-temperature reforming products on the combustion of n-heptane in an HCCI engine and a constant volume vessel. <i>Applied Energy</i> , <b>2016</b> , 181, 132-139	10.7	24
99	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
98	N <sub>2</sub> O formation in the selective catalytic reduction of NO <sub>x</sub> with NH <sub>3</sub> on a CeMoO <sub>x</sub> catalyst. <i>Applied Catalysis A: General</i> , <b>2015</b> , 505, 8-15	5.1	21
97	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
96	Preparation and NO <sub>x</sub> -assisted soot oxidation activity of a CuO/CeO <sub>2</sub> mixed oxide catalyst. <i>Chemical Engineering Science</i> , <b>2015</b> , 135, 294-300	4.4	37
95	Experimental and kinetic modeling study of a rich and a stoichiometric low-pressure premixed laminar 2,5-dimethylfuran/oxygen/argon flames. <i>Combustion and Flame</i> , <b>2015</b> , 162, 4586-4597	5.3	31
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93	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
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91	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
90	Methyl Radical Imaging in Methane-Air Flames Using Laser Photofragmentation-Induced Fluorescence. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 1152-6	3.1	6

89	Reaction Mechanisms and HCCI Combustion Processes of Mixtures of n-Heptane and the Butanols. <i>Frontiers in Mechanical Engineering</i> , <b>2015</b> , 1,	2.6	12
88	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
87	A Comparative Study on the Fuel Economy Improvement of a Natural Gas SI Engine at the Lean Burn and the Stoichiometric Operation both with EGR under the Premise of Meeting EU6 Emission Legislation <b>2015</b> ,		5
86	Effects of Dual Loop EGR on Performance and Emissions of a Diesel Engine <b>2015</b> ,		18
85	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
84	Experimental Investigation of Injection Strategies on Low Temperature Combustion Fuelled with Gasoline in a Compression Ignition Engine. <i>Journal of Chemistry</i> , <b>2015</b> , 2015, 1-10	2.3	6
83	A reduced toluene reference fuel chemical kinetic mechanism for combustion and polycyclic-aromatic hydrocarbon predictions. <i>Combustion and Flame</i> , <b>2015</b> , 162, 2390-2404	5.3	126
82	Development of a reduced n-butanol/biodiesel mechanism for a dual fuel engine. <i>Fuel</i> , <b>2015</b> , 157, 87-96	7.1	18
81	Numerical Study of RCCI and HCCI Combustion Processes Using Gasoline, Diesel, iso-Butanol and DTBP Cetane Improver. <i>SAE International Journal of Engines</i> , <b>2015</b> , 8, 831-845	2.4	32
80	A Skeletal Mechanism of a Biodiesel Surrogate Fuel for Compression Ignition Engines. <i>Energy &amp; Fuels</i> , <b>2015</b> , 29, 1160-1171	4.1	14
79	A Reduced Chemical Kinetic Mechanism for Low Temperature Diesel Combustion and Soot Emissions. <i>Combustion Science and Technology</i> , <b>2014</b> , 186, 1975-1990	1.5	13
78	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
77	Kinetic and Numerical Study on the Effects of Di-tert-butyl Peroxide Additive on the Reactivity of Methanol and Ethanol. <i>Energy &amp; Fuels</i> , <b>2014</b> , 28, 5480-5488	4.1	26
76	An Experimental and Numerical Study on the Effects of Fuel Properties on the Combustion and Emissions of Low-Temperature Combustion Diesel Engines. <i>Combustion Science and Technology</i> , <b>2014</b> , 186, 1795-1815	1.5	18
75	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
74	Effects of Fuel Volatility on Combustion and Emissions over a Wide Range of EGR Rates in a Diesel Engine <b>2014</b> ,		11
73	PRIMARY COMBUSTION INTERMEDIATES IN LOW-PRESSURE PREMIXED LAMINAR 2,5-DIMETHYLFURAN/OXYGEN/ARGON FLAMES. <i>Combustion Science and Technology</i> , <b>2014</b> , 186, 355-376	1.5	12
72	Regulated and unregulated emissions from a compression ignition engine under low temperature combustion fuelled with gasoline and n-butanol/gasoline blends. <i>Fuel</i> , <b>2014</b> , 120, 163-170	7.1	50

71	Experimental and numerical study on different dual-fuel combustion modes fuelled with gasoline and diesel. <i>Applied Energy</i> , <b>2014</b> , 113, 722-733	10.7	96
70	Diesel engine combustion and emissions of 2,5-dimethylfuran-diesel blends with 2-ethylhexyl nitrate addition. <i>Fuel</i> , <b>2013</b> , 111, 887-891	7.1	36
69	Development of a Reduced Primary Reference Fuel Mechanism for Internal Combustion Engine Combustion Simulations. <i>Energy &amp; Fuels</i> , <b>2013</b> , 27, 7843-7853	4.1	133
68	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
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66	A semi-detailed chemical kinetic model of a gasoline surrogate fuel for internal combustion engine applications. <i>Fuel</i> , <b>2013</b> , 113, 347-356	7.1	29
65	Development of an n-heptane-n-butanol-PAH mechanism and its application for combustion and soot prediction. <i>Combustion and Flame</i> , <b>2013</b> , 160, 504-519	5.3	167
64	Effects of exhaust gas recirculation on low temperature combustion using wide distillation range diesel. <i>Energy</i> , <b>2013</b> , 51, 291-296	7.9	26
63	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
62	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
61	Reaction Kinetics of Ethylene Combustion in a Carbon Dioxide Stream over a Cu/Mn/Hopcalite Catalyst in Low Temperature Range. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 686-691	3.9	7
60	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
59	Development of an n-heptane/toluene/polyaromatic hydrocarbon mechanism and its application for combustion and soot prediction. <i>International Journal of Engine Research</i> , <b>2013</b> , 14, 434-451	2.7	52
58	Experimental and Modeling Study of Biodiesel Surrogates Combustion in a CI Engine <b>2013</b> ,		5
57	The Design and Optimized Combination of Combustion Modes over Full-Load Range in a Multi-cylinder Light-duty Engine <b>2013</b> ,		3
56	Primary Combustion Intermediates in Lean and Rich Low-Pressure Premixed Laminar 2-Methylfuran/Oxygen/Argon Flames. <i>Energy &amp; Fuels</i> , <b>2012</b> , 26, 6651-6660	4.1	35
55	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
54	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

53	A Comparative Study on Different Dual-Fuel Combustion Modes Fuelled with Gasoline and Diesel <b>2012,</b>		14
52	Comparison of Diesel Combustion CFD Models and Evaluation of the Effects of Model Constants <b>2012,</b>		15
51	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
50	Thermodynamic analysis of hydrogen production for fuel cells from oxidative steam reforming of methanol. <i>Fuel</i> , <b>2012</b> , 97, 805-811	7.1	32
49	Low temperature combustion of ethylene in a carbon dioxide stream over a cordierite monolith-supported CuMn Hopcalite catalyst. <i>Applied Catalysis A: General</i> , <b>2012</b> , 427-428, 73-78	5.1	13
48	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
47	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
46	An Investigation of Different Combustion Chamber Configuration, Intake Temperature, and Coolant Temperature in a HCCI Optical Engine <b>2011,</b>		4
45	Study of Biodiesel Combustion in a Constant Volume Chamber with Different Ambient Temperature and Oxygen Concentration <b>2011,</b>		1
44	Spray and Combustion Characteristics of n-Butanol in a Constant Volume Combustion Chamber at Different Oxygen Concentrations <b>2011,</b>		14
43	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
42	The development of low-carbon vehicles in China. <i>Energy Policy</i> , <b>2011</b> , 39, 5457-5464	7.2	36
41	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
40	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
39	Diesel Engine Combustion Control: Medium or Heavy EGR? <b>2010,</b>		57
38	An Investigation of Different Ported Fuel Injection Strategies and Thermal Stratification in HCCI Engines Using Chemiluminescence Imaging <b>2010,</b>		8
37	Numerical Simulation on Combustion and Emission Processes of Premixed/Direct-Injected Fuel Stratification Combustion. <i>International Journal of Green Energy</i> , <b>2010</b> , 7, 498-515	3	6
36	Experimental study of n-butanol additive and multi-injection on HD diesel engine performance and emissions. <i>Fuel</i> , <b>2010</b> , 89, 2191-2201	7.1	280

35	Experimental Study of Multiple Injections and Coupling Effects of Multi-Injection and EGR in a HD Diesel Engine <b>2009</b> ,		17
34	Experimental study of effects of oxygen concentration on combustion and emissions of diesel engine. <i>Science in China Series D: Earth Sciences</i> , <b>2009</b> , 52, 1527-1534		4
33	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
32	Charge stratification to control HCCI: Experiments and CFD modeling with n-heptane as fuel. <i>Fuel</i> , <b>2009</b> , 88, 354-365	7.1	47
31	Study of dimethyl ether homogeneous charge compression ignition combustion process using a multi-dimensional computational fluid dynamics model. <i>International Journal of Thermal Sciences</i> , <b>2009</b> , 48, 1814-1822	4.1	13
30	Experimental and Numerical Study of Methanol/Dimethyl Ether Dual-Fuel Compound Combustion. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 2719-2730	4.1	40
29	Mechanism of Oxygen Concentration Effects on Combustion Process and Emissions of Diesel Engine. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 5835-5845	4.1	4
28	Influence of Fuel and Operating Conditions on Combustion Characteristics of a Homogeneous Charge Compression Ignition Engine. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 1422-1430	4.1	51
27	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
26	The Influence of Boost Pressure and Fuel Chemistry on Combustion and Performance of a HCCI Engine <b>2008</b> ,		11
25	An Investigation on the Effects of Fuel Chemistry and Engine Operating Conditions on HCCI Engine <b>2008</b> ,		4
24	Multidimensional Numerical Simulation on Dimethyl Ether/Methanol Dual-Fuel Homogeneous Charge Compression Ignition (HCCI) Engine Combustion and Emission Processes. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 812-821	4.1	22
23	Numerical Simulation of the Effects of Charge Stratification on Combustion and Emissions. <i>Energy &amp; Fuels</i> , <b>2007</b> , 21, 2018-2026	4.1	5
22	EXPERIMENTAL STUDY ON HOMOGENEOUS CHARGE COMPRESSION IGNITION COMBUSTION WITH PRIMARY REFERENCE FUEL. <i>Combustion Science and Technology</i> , <b>2007</b> , 179, 2539-2559	1.5	13
21	Investigation of the Effects of Injection Timing on Thermo-Atmosphere Combustion of Methanol <b>2007</b> ,		4
20	A Numerical Investigation on Effects of Charge Stratification on HCCI Combustion <b>2007</b> ,		4
19	Experimental Study on Homogeneous Charge Compression Ignition Operation by Burning Dimethyl Ether and Methanol. <i>International Journal of Green Energy</i> , <b>2007</b> , 4, 283-300	3	7
18	Effects of exhaust gas recirculation on combustion and emissions of a homogeneous charge compression ignition engine fuelled with primary reference fuels. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2007</b> , 221, 197-213	1.4	17

17	Experimental Study on Homogeneous Charge Compression Ignition Combustion With Fuel of Dimethyl Ether and Natural Gas. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2006</b> , 128, 414-420	1.7	26
16	An Investigation on a New Reduced Chemical Kinetic Model of n-heptane for HCCI Combustion. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , <b>2006</b> , 220, 991-1002	1.4	7
15	Study on the controlling strategies of homogeneous charge compression ignition combustion with fuel of dimethyl ether and methanol. <i>Fuel</i> , <b>2006</b> , 85, 2046-2056	7.1	83
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12	Effect of EGR on HCCI Combustion fuelled with Dimethyl Ether (DME) and Methanol Dual-Fuels <b>2005</b> ,		20
11	Experimental Study on the Effects of EGR and Octane Number of PRF Fuel on Combustion and Emission Characteristics of HCCI Engines <b>2005</b> ,		6
10	The Effect of PRF Fuel Octane Number on HCCI Operation <b>2004</b> ,		42
9	Experimental Study on HCCI Combustion of Dimethyl Ether(DME)/Methanol Dual Fuel <b>2004</b> ,		36
8	Simulating the Homogeneous Charge Compression Ignition Process Using a Detailed Kinetic Model for Dimethyl Ether (DME) and Methane Dual Fuel <b>2004</b> ,		7
7	Turbocharged diesel/CNG Dual-fuel Engines with Intercooler: Combustion, Emissions and Performance <b>2003</b> ,		17
6	Experimental Study on the Combustion Process of Dimethyl Ether (DME) <b>2003</b> ,		10
5	An Experimental Investigation on the Spray Characteristics of Dimethyl Ether(DME) <b>2001</b> ,		14
4	Evaluation of Knock Intensity and Knock-Limited Thermal Efficiency of Different Combustion Chambers in Stoichiometric Operation LNG Engine		2
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