

# Chia-Fon F Lee

## List of Publications by Year in descending order

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75  
papers

4,112  
citations

159585

30  
h-index

144013

57  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of alcohol addition to traditional fuels on soot formation: A review. <i>International Journal of Engine Research</i> , 2021, 22, 1395-1420.	2.3	32
2	Impacts of duct inner diameter and standoff distance on macroscopic spray characteristics of ducted fuel injection under non-vaporizing conditions. <i>International Journal of Engine Research</i> , 2021, 22, 1702-1713.	2.3	9
3	Numerical simulation of the influence of fuel temperature and injection parameters on biodiesel spray characteristics. <i>Energy Science and Engineering</i> , 2020, 8, 312-326.	4.0	35
4	Visualization Research on Low-Temperature Ignition and Combustion Characteristics of Diesel/Gasoline Blends Under Cold-Start Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2020, 142, .	1.1	0
5	Experimental study on combustion, emissions and thermal balance of high compression ratio engine fueled with liquefied methane gas. <i>Applied Thermal Engineering</i> , 2019, 161, 114125.	6.0	20
6	Experimental investigation on combustion and unregulated emission characteristics of butanol-isomer/gasoline blends. <i>Journal of Central South University</i> , 2019, 26, 2244-2258.	3.0	6
7	Potential of acetone-butanol-ethanol (ABE) as a biofuel. <i>Fuel</i> , 2019, 242, 673-686.	6.4	223
8	Investigation on soot emissions from diesel-CNG dual-fuel. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 9438-9449.	7.1	22
9	Effect of acetone-butanol-ethanol (ABE) gasoline blends on regulated and unregulated emissions in spark-ignition engine. <i>Energy</i> , 2019, 168, 1157-1167.	8.8	24
10	Autoignition of DME/C <sub>2</sub> H <sub>6</sub> Mixtures Under High-Pressure and Low-Temperature Conditions. <i>Combustion Science and Technology</i> , 2019, 191, 1201-1218.	2.3	7
11	The effect of turbulent jet induced by pre-chamber sparkplug on combustion characteristics of hydrogen-air pre-mixture. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 8116-8126.	7.1	32
12	Effect of Alcohol Addition to Gasoline on Soot Distribution Characteristics in Laminar Diffusion Flames. <i>Chemical Engineering and Technology</i> , 2018, 41, 897-906.	1.5	22
13	Experimental comparison of acetone-n-butanol-ethanol (ABE) and isopropanol-n-butanol-ethanol (IBE) as fuel candidate in spark-ignition engine. <i>Applied Thermal Engineering</i> , 2018, 133, 179-187.	6.0	83
14	Experimental and kinetic investigation on soot formation of n-butanol-gasoline blends in laminar coflow diffusion flames. <i>Fuel</i> , 2018, 213, 195-205.	6.4	43
15	Renewable diesel blendstocks produced by hydrothermal liquefaction of wet biowaste. <i>Nature Sustainability</i> , 2018, 1, 702-710.	23.7	110
16	Performance and Regulated/Unregulated Emission Evaluation of a Spark Ignition Engine Fueled with Acetone-Butanol-Ethanol and Gasoline Blends. <i>Energies</i> , 2018, 11, 1121.	3.1	11
17	A numerical study of the combustion and jet characteristics of a hydrogen fueled turbulent hot-jet ignition (THJI) chamber. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 21102-21113.	7.1	28
18	Experimental Evaluation of Various Gasoline Surrogates Based on Soot Formation Characteristics. <i>Energy &amp; Fuels</i> , 2018, 32, 11961-11969.	5.1	6

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19	Experimental Investigation of Polycyclic Aromatic Hydrocarbons Growth Characteristics of Gasoline Mixed with Methanol, Ethanol, or n-Butanol in Laminar Diffusion Flames. <i>Energy &amp; Fuels</i> , 2018, 32, 6823-6833.	5.1	39
20	Effect of Toluene Addition on the PAH Formation in Laminar Coflow Diffusion Flames of n-Heptane and Isooctane. <i>Energy &amp; Fuels</i> , 2018, 32, 7142-7152.	5.1	11
21	Ignition kinetics of a homogeneous hydrogen/air mixture using a transient hot jet. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16373-16385.	7.1	10
22	Computational Investigation on Soot Mechanism of Diesel and Diesel/n-Butanol Blend in Constant Volume Chamber with Various Ambient Temperatures. <i>Energy &amp; Fuels</i> , 2017, 31, 916-931.	5.1	8
23	Experimental investigation of a spark ignition engine fueled with acetone-butanol-ethanol and gasoline blends. <i>Energy</i> , 2017, 121, 43-54.	8.8	49
24	Experimental study on combustion and emission performance of a spark-ignition engine fueled with water containing acetone-gasoline blends. <i>Fuel</i> , 2017, 210, 133-144.	6.4	17
25	Influence of Acetone-Butanol-Ethanol (ABE) Gasoline Blends on Regulated and Unregulated Emissions From a PFI SI Engine. , 2017, , .		0
26	An Experimental Study on the Potential Usage of Acetone as an Oxygenate Additive in PFI SI Engines. <i>Energies</i> , 2016, 9, 256.	3.1	19
27	A Modeling Study of the Effects of Butanol Addition on Aromatic Species in Premixed Butane Flames. , 2016, , .		0
28	Combustion and soot emission characteristics of soybean biodiesel in constant volume chamber. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 842-849.	2.3	5
29	Optical soot measurement of bio-butanol upstream product, ABE (Acetone-Butanol-Ethanol), under diesel-like conditions. <i>Fuel</i> , 2016, 181, 300-309.	6.4	25
30	Combustion, performance and emissions characteristics of a spark-ignition engine fueled with isopropanol-n-butanol-ethanol and gasoline blends. <i>Fuel</i> , 2016, 184, 864-872.	6.4	128
31	Three-dimensional numerical investigation on wall film formation and evaporation in port fuel injection engines. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 1405-1422.	2.1	9
32	Improved SI engine efficiency using Acetone-Butanol-Ethanol (ABE). <i>Fuel</i> , 2016, 174, 333-343.	6.4	76
33	Effect of water-containing acetone-butanol-ethanol gasoline blends on combustion, performance, and emissions characteristics of a spark-ignition engine. <i>Energy Conversion and Management</i> , 2016, 117, 21-30.	9.2	68
34	Diesel-Like Efficiency Using Compressed Natural Gas/Diesel Dual-Fuel Combustion. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2016, 138, .	2.3	34
35	Experimental Investigation of a Diesel Engine Fuelled With Acetone-Butanol-Ethanol/Diesel Blends. , 2015, , .		4
36	Investigation on Spray and Flame Lift-Off Length of Acetone-Butanol-Ethanol-Diesel Blend in a Constant Volume Chamber. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	1.1	8

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37	Computational Investigation of Oxygen Concentration Effects on a Soot Mechanism with a Phenomenological Soot Model of Acetone-Butanol-Ethanol (ABE). Energy & Fuels, 2015, 29, 1710-1721.	5.1	26
38	Impacts of Acetone-Butanol-Ethanol (ABE) ratio on spray and combustion characteristics of ABE-diesel blends. Applied Energy, 2015, 149, 367-378.	10.1	92
39	Impacts of acetone on the spray combustion of Acetone-Butanol-Ethanol (ABE)-Diesel blends under low ambient temperature. Fuel, 2015, 142, 109-116.	6.4	95
40	Numerical study on the nitrogen oxide emissions of biodiesel-diesel blends in a light-duty diesel engine. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2014, 228, 734-746.	1.9	2
41	A Study on Biodiesel NOx Emission Control With the Reduced Chemical Kinetics Model. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	1
42	Spray and Combustion Characteristics of Neat Acetone-Butanol-Ethanol, n-Butanol, and Diesel in a Constant Volume Chamber. Energy & Fuels, 2014, 28, 6380-6391.	5.1	104
43	Low temperature spray combustion of acetone-butanol-ethanol (ABE) and diesel blends. Applied Energy, 2014, 117, 104-115.	10.1	141
44	Experimental and numerical study on soot formation and oxidation by using diesel fuel in constant volume chamber with various ambient oxygen concentrations. Energy Conversion and Management, 2014, 84, 152-163.	9.2	41
45	Time-resolved spray, flame, soot quantitative measurement fueling n-butanol and soybean biodiesel in a constant volume chamber under various ambient temperatures. Fuel, 2014, 133, 317-325.	6.4	70
46	Study on the spray and combustion characteristics of water-emulsified diesel. Fuel, 2014, 123, 218-229.	6.4	125
47	Investigation of High Percentage Acetone-Butanol-Ethanol (ABE) Blended With Diesel in a Constant Volume Chamber. , 2014, , .		7
48	Investigation on Spray and Soot Lift-Off Length of an ABE-Diesel Blend in a Constant Volume Chamber With Diesel Engine Conditions. , 2014, , .		9
49	Experimental study on the performance of and emissions from a low-speed light-duty diesel engine fueled with n-butanol-diesel and isobutanol-diesel blends. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2013, 227, 261-271.	1.9	85
50	Soot Emissions of Various Oxygenated Biofuels in Conventional Diesel Combustion and Low-Temperature Combustion Conditions. Energy & Fuels, 2012, 26, 1900-1911.	5.1	123
51	Emission characteristics of a spark-ignition engine fuelled with gasoline-n-butanol blends in combination with EGR. Fuel, 2012, 93, 611-617.	6.4	297
52	Reduction in emissions of nitrogen oxides, particulate matter, and polycyclic aromatic hydrocarbon by adding water-containing butanol into a diesel-fueled engine generator. Fuel, 2012, 93, 364-372.	6.4	74
53	Combustion Characteristics and Soot Distributions of Neat Butanol and Neat Soybean Biodiesel. Energy & Fuels, 2011, 25, 3192-3203.	5.1	90
54	Comparison of Ethanol and Butanol as Additives in Soybean Biodiesel Using a Constant Volume Combustion Chamber. Energy & Fuels, 2011, 25, 1837-1846.	5.1	128

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55	Progress in the production and application of n-butanol as a biofuel. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 4080-4106.	16.4	826
56	The boundary layers of an unsteady incompressible stagnation-point flow with mass transfer. <i>International Journal of Non-Linear Mechanics</i> , 2011, 46, 942-948.	2.6	39
57	Energy Savings and Emission Reduction of Nitrogen Oxides, Particulate Matter, and Polycyclic Aromatic Hydrocarbons by Adding Water-Containing Acetone and Neat Soybean Oil to a Diesel-Fueled Engine Generator. <i>Energy &amp; Fuels</i> , 2010, 24, 4522-4533.	5.1	53
58	Low-Temperature Combustion Within a HSDI Diesel Engine Using Multiple-Injection Strategies. <i>Journal of Engineering for Gas Turbines and Power</i> , 2009, 131, .	1.1	9
59	Three-dimensional wall-bounded laminar boundary layer with span-wise cross free stream and moving boundary. <i>Acta Mechanica</i> , 2009, 204, 235-248.	2.1	18
60	Bio-diesel effects on combustion processes in an HSDI diesel engine using advanced injection strategies. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 2785-2792.	3.9	104
61	Biodiesel combustion in an optical HSDI diesel engine under low load premixed combustion conditions. <i>Fuel</i> , 2009, 88, 2154-2162.	6.4	85
62	Forward-illumination light-extinction technique for soot measurement. <i>Applied Optics</i> , 2006, 45, 2046.	2.1	40
63	Study of Soot Formation of Oxygenated Diesel Fuels Using Forward Illumination Light Extinction (FILE) Technique. , 2006, , .		12
64	Investigation of Soot Formation in Diesel Combustion Using Forward Illumination Light Extinction (FILE) Technique. , 2004, , .		23
65	Investigation of Fuel Effects on Soot Formation Using Forward Illumination Light Extinction (FILE) Technique. , 0, , .		8
66	The Effects of EGR and Injection Timing on the Engine Combustion and Emission Performances Fueled by Butanol-Diesel Blends. <i>SAE International Journal of Engines</i> , 0, 5, 794-811.	0.4	16
67	Comparative Study of High-Alcohol-Content Gasoline Blends in an SI Engine. , 0, , .		34
68	Combustion and Emissions Performance of a Spark Ignition Engine Fueled with Water Containing Acetone-Butanol-Ethanol and Gasoline Blends. , 0, , .		15
69	Characterization Spray and Combustion Processes of Acetone-Butanol-Ethanol (ABE) in a Constant Volume Chamber. , 0, , .		12
70	Experimental and Numerical Investigation of Soot Mechanism of Acetone-Butanol-Ethanol (ABE) with Various Oxygen Concentrations. , 0, , .		10
71	Investigating the Impact of Acetone on the Performance and Emissions of Acetone-Butanol-Ethanol (ABE) and Gasoline Blends in an SI Engine. , 0, , .		21
72	A Semi-Detailed Chemical Kinetic Mechanism of Acetone-Butanol-Ethanol (ABE) and Diesel Blends for Combustion Simulations. <i>SAE International Journal of Engines</i> , 0, 9, 631-640.	0.4	25

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73	Experimental Investigation and Analysis of Combustion Process in a Diesel Engine Fueled with Acetone-Butanol-Ethanol/ Diesel Blends. , 0, , .		18
74	Regulated and Unregulated Emissions from a Spark Ignition Engine Fueled with Acetone-Butanol-Ethanol (ABE)-Gasoline Blends. , 0, , .		6
75	Visualization and simulation study on the impacts of conical duct geometry on the spray characteristics of ducted fuel injection. International Journal of Engine Research, 0, , 146808742211127.	2.3	0