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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	Progress in the production and application of n-butanol as a biofuel. Renewable and Sustainable Energy Reviews, 2011, 15, 4080-4106.	16.4	826
2	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
3	Potential of acetone-butanol-ethanol (ABE) as a biofuel. Fuel, 2019, 242, 673-686.	6.4	223
4	Low temperature spray combustion of acetoneâ€“butanolâ€“ethanol (ABE) and diesel blends. Applied Energy, 2014, 117, 104-115.	10.1	141
5	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
6	Combustion, performance and emissions characteristics of a spark-ignition engine fueled with isopropanol-n-butanol-ethanol and gasoline blends. Fuel, 2016, 184, 864-872.	6.4	128
7	Study on the spray and combustion characteristics of waterâ€“emulsified diesel. Fuel, 2014, 123, 218-229.	6.4	125
8	Soot Emissions of Various Oxygenated Biofuels in Conventional Diesel Combustion and Low-Temperature Combustion Conditions. Energy & Fuels, 2012, 26, 1900-1911.	5.1	123
9	Renewable diesel blendstocks produced by hydrothermal liquefaction of wet biowaste. Nature Sustainability, 2018, 1, 702-710.	23.7	110
10	Bio-diesel effects on combustion processes in an HSDI diesel engine using advanced injection strategies. Proceedings of the Combustion Institute, 2009, 32, 2785-2792.	3.9	104
11	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
12	Impacts of acetone on the spray combustion of Acetoneâ€“Butanolâ€“Ethanol (ABE)-Diesel blends under low ambient temperature. Fuel, 2015, 142, 109-116.	6.4	95
13	Impacts of Acetoneâ€“Butanolâ€“Ethanol (ABE) ratio on spray and combustion characteristics of ABEâ€“diesel blends. Applied Energy, 2015, 149, 367-378.	10.1	92
14	Combustion Characteristics and Soot Distributions of Neat Butanol and Neat Soybean Biodiesel. Energy & Fuels, 2011, 25, 3192-3203.	5.1	90
15	Biodiesel combustion in an optical HSDI diesel engine under low load premixed combustion conditions. Fuel, 2009, 88, 2154-2162.	6.4	85
16	Experimental study on the performance of and emissions from a low-speed light-duty diesel engine fueled with n-butanolâ€“diesel and isobutanolâ€“diesel blends. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2013, 227, 261-271.	1.9	85
17	Experimental comparison of acetone-n-butanol-ethanol (ABE) and isopropanol-n-butanol-ethanol (IBE) as fuel candidate in spark-ignition engine. Applied Thermal Engineering, 2018, 133, 179-187.	6.0	83
18	Improved SI engine efficiency using Acetoneâ€“Butanolâ€“Ethanol (ABE). Fuel, 2016, 174, 333-343.	6.4	76

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19	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
20	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
21	Effect of water-containing acetoneâ€“butanolâ€“ethanol gasoline blends on combustion, performance, and emissions characteristics of a spark-ignition engine. Energy Conversion and Management, 2016, 117, 21-30.	9.2	68
22	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. Energy & Fuels, 2010, 24, 4522-4533.	5.1	53
23	Experimental investigation of a spark ignition engine fueled with acetone-butanol-ethanol and gasoline blends. Energy, 2017, 121, 43-54.	8.8	49
24	Experimental and kinetic investigation on soot formation of n-butanol-gasoline blends in laminar coflow diffusion flames. Fuel, 2018, 213, 195-205.	6.4	43
25	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
26	Forward-illumination light-extinction technique for soot measurement. Applied Optics, 2006, 45, 2046.	2.1	40
27	The boundary layers of an unsteady incompressible stagnation-point flow with mass transfer. International Journal of Non-Linear Mechanics, 2011, 46, 942-948.	2.6	39
28	Experimental Investigation of Polycyclic Aromatic Hydrocarbons Growth Characteristics of Gasoline Mixed with Methanol, Ethanol, or n-Butanol in Laminar Diffusion Flames. Energy & Fuels, 2018, 32, 6823-6833.	5.1	39
29	Numerical simulation of the influence of fuel temperature and injection parameters on biodiesel spray characteristics. Energy Science and Engineering, 2020, 8, 312-326.	4.0	35
30	Comparative Study of High-Alcohol-Content Gasoline Blends in an SI Engine. , 0, , .		34
31	Diesel-Like Efficiency Using Compressed Natural Gas/Diesel Dual-Fuel Combustion. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	34
32	The effect of turbulent jet induced by pre-chamber sparkplug on combustion characteristics of hydrogen-air pre-mixture. International Journal of Hydrogen Energy, 2018, 43, 8116-8126.	7.1	32
33	Effects of alcohol addition to traditional fuels on soot formation: A review. International Journal of Engine Research, 2021, 22, 1395-1420.	2.3	32
34	A numerical study of the combustion and jet characteristics of a hydrogen fueled turbulent hot-jet ignition (THJI) chamber. International Journal of Hydrogen Energy, 2018, 43, 21102-21113.	7.1	28
35	Computational Investigation of Oxygen Concentration Effects on a Soot Mechanism with a Phenomenological Soot Model of Acetoneâ€“Butanolâ€“Ethanol (ABE). Energy & Fuels, 2015, 29, 1710-1721.	5.1	26
36	A Semi-Detailed Chemical Kinetic Mechanism of Acetone-Butanol-Ethanol (ABE) and Diesel Blends for Combustion Simulations. SAE International Journal of Engines, 0, 9, 631-640.	0.4	25

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37	Optical soot measurement of bio-butanol upstream product, ABE (Acetoneâ€“Butanolâ€“Ethanol), under diesel-like conditions. Fuel, 2016, 181, 300-309.	6.4	25
38	Effect of acetone-butanol-ethanol (ABE)â€“gasoline blends on regulated and unregulated emissions in spark-ignition engine. Energy, 2019, 168, 1157-1167.	8.8	24
39	Investigation of Soot Formation in Diesel Combustion Using Forward Illumination Light Extinction (FILE) Technique. , 2004, , .		23
40	Effect of Alcohol Addition to Gasoline on Soot Distribution Characteristics in Laminar Diffusion Flames. Chemical Engineering and Technology, 2018, 41, 897-906.	1.5	22
41	Investigation on soot emissions from diesel-CNG dual-fuel. International Journal of Hydrogen Energy, 2019, 44, 9438-9449.	7.1	22
42	Investigating the Impact of Acetone on the Performance and Emissions of Acetone-Butanol-Ethanol (ABE) and Gasoline Blends in an SI Engine. , 0, , .		21
43	Experimental study on combustion, emissions and thermal balance of high compression ratio engine fueled with liquefied methane gas. Applied Thermal Engineering, 2019, 161, 114125.	6.0	20
44	An Experimental Study on the Potential Usage of Acetone as an Oxygenate Additive in PFI SI Engines. Energies, 2016, 9, 256.	3.1	19
45	Three-dimensional wall-bounded laminar boundary layer with span-wise cross free stream and moving boundary. Acta Mechanica, 2009, 204, 235-248.	2.1	18
46	Experimental Investigation and Analysis of Combustion Process in a Diesel Engine Fueled with Acetone-Butanol-Ethanol/ Diesel Blends. , 0, , .		18
47	Experimental study on combustion and emission performance of a spark-ignition engine fueled with water containing acetone-gasoline blends. Fuel, 2017, 210, 133-144.	6.4	17
48	The Effects of EGR and Injection Timing on the Engine Combustion and Emission Performances Fueled by Butanol-Diesel Blends. SAE International Journal of Engines, 0, 5, 794-811.	0.4	16
49	Combustion and Emissions Performance of a Spark Ignition Engine Fueled with Water Containing Acetone-Butanol-Ethanol and Gasoline Blends. , 0, , .		15
50	Study of Soot Formation of Oxygenated Diesel Fuels Using Forward Illumination Light Extinction (FILE) Technique. , 2006, , .		12
51	Characterization Spray and Combustion Processes of Acetone-Butanol-Ethanol (ABE) in a Constant Volume Chamber. , 0, , .		12
52	Performance and Regulated/Unregulated Emission Evaluation of a Spark Ignition Engine Fueled with Acetoneâ€“Butanolâ€“Ethanol and Gasoline Blends. Energies, 2018, 11, 1121.	3.1	11
53	Effect of Toluene Addition on the PAH Formation in Laminar Coflow Diffusion Flames of n-Heptane and Isooctane. Energy & Fuels, 2018, 32, 7142-7152.	5.1	11
54	Experimental and Numerical Investigation of Soot Mechanism of Acetone-Butanol-Ethanol (ABE) with Various Oxygen Concentrations. , 0, , .		10

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55	Ignition kinetics of a homogeneous hydrogen/air mixture using a transient hot jet. International Journal of Hydrogen Energy, 2018, 43, 16373-16385.	7.1	10
56	Low-Temperature Combustion Within a HSDI Diesel Engine Using Multiple-Injection Strategies. Journal of Engineering for Gas Turbines and Power, 2009, 131, .	1.1	9
57	Investigation on Spray and Soot Lift-Off Length of an ABE-Diesel Blend in a Constant Volume Chamber With Diesel Engine Conditions. , 2014, , .		9
58	Three-dimensional numerical investigation on wall film formation and evaporation in port fuel injection engines. Numerical Heat Transfer; Part A: Applications, 2016, 69, 1405-1422.	2.1	9
59	Impacts of duct inner diameter and standoff distance on macroscopic spray characteristics of ducted fuel injection under non-vaporizing conditions. International Journal of Engine Research, 2021, 22, 1702-1713.	2.3	9
60	Investigation of Fuel Effects on Soot Formation Using Forward Illumination Light Extinction (FILE) Technique. , 0, , .		8
61	Investigation on Spray and Flame Lift-Off Length of Acetoneâ€“Butanolâ€“Ethanolâ€“Diesel Blend in a Constant Volume Chamber. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	8
62	Computational Investigation on Soot Mechanism of Diesel and Diesel/n-Butanol Blend in Constant Volume Chamber with Various Ambient Temperatures. Energy & Fuels, 2017, 31, 916-931.	5.1	8
63	Investigation of High Percentage Acetone-Butanol-Ethanol (ABE) Blended With Diesel in a Constant Volume Chamber. , 2014, , .		7
64	Autoignition of DME/C2H6 Mixtures Under High-Pressure and Low-Temperature Conditions. Combustion Science and Technology, 2019, 191, 1201-1218.	2.3	7
65	Regulated and Unregulated Emissions from a Spark Ignition Engine Fueled with Acetone-Butanol-Ethanol (ABE)-Gasoline Blends. , 0, , .		6
66	Experimental Evaluation of Various Gasoline Surrogates Based on Soot Formation Characteristics. Energy & Fuels, 2018, 32, 11961-11969.	5.1	6
67	Experimental investigation on combustion and unregulated emission characteristics of butanol-isomer/gasoline blends. Journal of Central South University, 2019, 26, 2244-2258.	3.0	6
68	Combustion and soot emission characteristics of soybean biodiesel in constant volume chamber. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 842-849.	2.3	5
69	Experimental Investigation of a Diesel Engine Fuelled With Acetone-Butanol-Ethanol/Diesel Blends. , 2015, , .		4
70	Numerical study on the nitrogen oxide emissions of biodieselâ€“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
71	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
72	A Modeling Study of the Effects of Butanol Addition on Aromatic Species in Premixed Butane Flames. , 2016, , .		0

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73	Influence of Acetone-Butanol-Ethanol (ABE)â€“Gasoline Blends on Regulated and Unregulated Emissions From a PFI SI Engine. , 2017, , .		0
74	Visualization Research on Low-Temperature Ignition and Combustion Characteristics of Diesel/Gasoline Blends Under Cold-Start Conditions. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	0
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