

The octane numbers of ethanol blended with gasoline a

Fuel

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Autoignition Characterization of Primary Reference Fuels and <i>n</i> -Heptane/ <i>n</i> -Butanol Mixtures in a Constant Volume Combustion Device and Homogeneous Charge Compression Ignition Engine. <i>Energy &amp; Fuels</i> , 2013, 27, 7778-7789.	2.5	38
3	Design and Analysis of a Modified CFR Engine for the Octane Rating of Liquefied Petroleum Gases (LPG). <i>SAE International Journal of Fuels and Lubricants</i> , 0, 7, 283-300.	0.2	18
4	Intermediate Alcohol-Gasoline Blends, Fuels for Enabling Increased Engine Efficiency and Powertrain Possibilities. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 7, 29-47.	0.2	33
5	Refining Economics of U.S. Gasoline: Octane Ratings and Ethanol Content. <i>Environmental Science &amp; Technology</i> , 2014, 48, 11064-11071.	4.6	31
6	Proton NMR characterization of gasoline-ethanol blends. <i>Fuel</i> , 2014, 137, 335-338.	3.4	8
7	Excess molar volume of binary mixtures containing an oxygenate. <i>Journal of Molecular Liquids</i> , 2014, 199, 42-50.	2.3	43
8	Experimental Investigation of Spark-Ignited Combustion with High-Octane Biofuels and EGR. 1. Engine Load Range and Downsize Downsized Opportunity. <i>Energy &amp; Fuels</i> , 2014, 28, 1418-1431.	2.5	27
9	Development of biofuels in South Africa: Challenges and opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 39, 1089-1100.	8.2	66
10	Alcohol combustion chemistry. <i>Progress in Energy and Combustion Science</i> , 2014, 44, 40-102.	15.8	687
11	Experimental Investigation of Spark-Ignited Combustion with High-Octane Biofuels and EGR. 2. Fuel and EGR Effects on Knock-Limited Load and Speed. <i>Energy &amp; Fuels</i> , 2014, 28, 1432-1445.	2.5	35
12	New Headspace-Mass Spectrometry Method for the Discrimination of Commercial Gasoline Samples with Different Research Octane Numbers. <i>Energy &amp; Fuels</i> , 2014, 28, 6249-6254.	2.5	16
13	Research Octane Numbers of Primary and Mixed Alcohols from Biomass-Based Syngas. <i>Energy &amp; Fuels</i> , 2014, 28, 3185-3191.	2.5	7
14	Modeling of Trace Knock in a Modern SI Engine Fuelled by Ethanol/Gasoline Blends. , 0, , .		7
15	Laminar burning velocities at elevated pressures for gasoline and gasoline surrogates associated with RON. <i>Combustion and Flame</i> , 2015, 162, 2311-2321.	2.8	120
16	Measurement and correlation of excess molar volumes for mixtures of 1-propanol and aromatic hydrocarbons. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 168-177.	1.2	28
17	A Novel Group Contribution Method for the Prediction of the Derived Cetane Number of Oxygenated Hydrocarbons. <i>Energy &amp; Fuels</i> , 2015, 29, 5781-5801.	2.5	86
18	In cylinder visualization of stratified combustion of E85 and main sources of soot formation. <i>Fuel</i> , 2015, 159, 392-411.	3.4	17
19	Mixed butanols addition to gasoline surrogates: Shock tube ignition delay time measurements and chemical kinetic modeling. <i>Combustion and Flame</i> , 2015, 162, 3971-3979.	2.8	41

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21	A methodology to relate octane numbers of binary and ternary n-heptane, iso-octane and toluene mixtures with simulated ignition delay times. <i>Fuel</i> , 2015, 160, 458-469.	3.4	80
22	Modeling of thermodynamic properties of an oxygenate+aromatic hydrocarbon: Excess molar enthalpy. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 23, 299-306.	2.9	30
23	A review of the combustion and emissions properties of advanced transportation biofuels and their impact on existing and future engines. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1393-1417.	8.2	343
24	Laminar Flame Characteristics of C1-C5 Primary Alcohol-Isooctane Blends at Elevated Temperature. <i>Energies</i> , 2016, 9, 511.	1.6	43
25	Blending Octane Number of Ethanol in HCCI, SI and CI Combustion Modes. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 9, 659-682.	0.2	46
26	A Historical Analysis of the Co-evolution of Gasoline Octane Number and Spark-Ignition Engines. <i>Frontiers in Mechanical Engineering</i> , 2016, 1, .	0.8	45
27	Improving the Efficiency of Conventional Spark-Ignition Engines Using Octane-on-Demand Combustion. Part I: Engine Studies. , 0, , .		27
28	Effects of Fuel Composition on EGR Dilution Tolerance in Spark Ignited Engines. <i>SAE International Journal of Engines</i> , 0, 9, 819-831.	0.4	41
29	Effects of ethanol, ethyl-tert-butyl ether and dimethyl-carbonate blends with gasoline on SI engine. <i>Fuel</i> , 2016, 183, 253-261.	3.4	49
30	Predicting fuel research octane number using Fourier-transform infrared absorption spectra of neat hydrocarbons. <i>Fuel</i> , 2016, 183, 359-365.	3.4	46
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35	Lifecycle optimized ethanol-gasoline blends for turbocharged engines. <i>Applied Energy</i> , 2016, 181, 38-53.	5.1	37
36	Using Ethanol's Double Octane Boosting Effect with Low RON Naphtha-Based Fuel for an Octane on Demand SI Engine. <i>SAE International Journal of Engines</i> , 0, 9, 1460-1474.	0.4	16
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39	Laminar Flame Speeds of Gasoline Surrogates Measured with the Flat Flame Method. <i>Energy &amp; Fuels</i> , 0, , .	2.5	13
40	Spray ignition experiments for alkylbenzenes and alkylbenzene/n-alkane blends. <i>Fuel</i> , 2017, 195, 49-58.	3.4	10
41	Impact of fuel molecular structure on auto-ignition behavior " Design rules for future high performance gasolines. <i>Progress in Energy and Combustion Science</i> , 2017, 60, 1-25.	15.8	160
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45	Comparison of E10 and E85 spark ignited stratified combustion and soot formation. <i>Fuel</i> , 2017, 205, 11-23.	3.4	9
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47	Modeling End-Gas Autoignition of Ethanol/Gasoline Surrogate Blends in the Cooperative Fuel Research Engine. <i>Energy &amp; Fuels</i> , 2017, 31, 2378-2389.	2.5	40
48	Improved skeletal reduction on multiple gasoline-ethanol surrogates using a Jacobian-aided DRGEP approach under gasoline compression ignition (GCI) engine conditions. <i>Fuel</i> , 2017, 210, 617-624.	3.4	15
49	Impact of Fuel Composition and Intake Pressure on Lean Autoignition of Surrogate Gasoline Fuels in a CFR Engine. <i>Energy &amp; Fuels</i> , 2017, 31, 11315-11327.	2.5	21
50	Synergistic engine-fuel technologies for light-duty vehicles: Fuel economy and Greenhouse Gas Emissions. <i>Applied Energy</i> , 2017, 208, 1538-1561.	5.1	44
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55	Advances in rapid compression machine studies of low- and intermediate-temperature autoignition phenomena. <i>Progress in Energy and Combustion Science</i> , 2017, 63, 1-78.	15.8	180

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65	Auto-Ignition of Iso-Stoichiometric Blends of Gasoline-Ethanol-Methanol (GEM) in SI, HCCI and CI Combustion Modes. , 0, , .		13
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75	Perspectives on Water Usage for Biofuels Production. , 2018, , .		18
76	An Overview of Biofuel. , 2018, , 1-37.		5
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78	Estimating fuel octane numbers from homogeneous gas-phase ignition delay times. <i>Combustion and Flame</i> , 2018, 188, 307-323.	2.8	32
79	Effects of Heat of Vaporization and Octane Sensitivity on Knock-Limited Spark Ignition Engine Performance. , 0, , .		15
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86	Spark Assist for CA50 Control and Improved Robustness in a Premixed LTGC Engine - Effects of Equivalence Ratio and Intake Boost. , 0, , .		21
87	Downsizing Potential of Methanol Fueled DISI Engine with Variable Valve Timing and Boost Control. , 0, , .		20
88	Blending Octane Number of Toluene with Gasoline-like and PRF Fuels in HCCI Combustion Mode. , 2018, , .		3
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99	Modelling of Self-Ignition in Spark-Ignition Engine Using Reduced Chemical Kinetics for Gasoline Surrogates. <i>Fluids</i> , 2019, 4, 157.	0.8	4
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113	The influence of mixing ratio of low carbon mixed alcohols on knock combustion of spark ignition engines. <i>Fuel</i> , 2019, 240, 339-348.	3.4	12
114	Investigating auto-ignition behavior of n-heptane/iso-octane/ethanol mixtures for gasoline surrogates through rapid compression machine measurement and chemical kinetics analysis. <i>Fuel</i> , 2019, 241, 1095-1108.	3.4	23
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122	Influence of gasoline olefin and aromatic content on exhaust emissions of 15% ethanol blends. <i>Fuel</i> , 2020, 265, 116950.	3.4	23
123	Investigation into pressure dependence of flame speed for fuels with low and high octane sensitivity through blending ethanol. <i>Combustion and Flame</i> , 2020, 212, 252-269.	2.8	8
124	Gasoline-ethanol blend formulation to mimic laminar flame speed and auto-ignition quality in automotive engines. <i>Fuel</i> , 2020, 264, 116741.	3.4	41
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133	Investigating the Effects of C <sub>3</sub> and C <sub>4</sub> Alcohol Blending on Ignition Quality of Gasoline Fuels. <i>Energy &amp; Fuels</i> , 2020, 34, 8777-8787.	2.5	1
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144	Influences of isomeric butanol addition on anti-knock tendency of primary reference fuel and toluene primary reference fuel gasoline surrogates. <i>International Journal of Engine Research</i> , 2021, 22, 39-49.	1.4	27
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149	Understanding the synergistic blending octane behavior of 2-methylfuran. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5625-5633.	2.4	6
150	The Role of Intermediate-Temperature Heat Release in Octane Sensitivity of Fuels with Matching Research Octane Number. <i>Energy &amp; Fuels</i> , 2021, 35, 4457-4477.	2.5	11
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152	Mapping K factor variations and its causes in a modern, spark-ignition engine. <i>Fuel</i> , 2021, 290, 120012.	3.4	9
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154	Predicting Ignition Quality of Oxygenated Fuels Using Artificial Neural Networks. <i>SAE International Journal of Fuels and Lubricants</i> , 0, 14, .	0.2	10
155	Recent trends for introducing promising fuel components to enhance the anti-knock quality of gasoline: A systematic review. <i>Fuel</i> , 2021, 291, 120112.	3.4	83
156	Prediction of Gasoline Blend Ignition Characteristics Using Machine Learning Models. <i>Energy &amp; Fuels</i> , 2021, 35, 9332-9340.	2.5	13
157	Experimental Investigation on the Effect of Blending Ethanol on Combustion Characteristic and Idle Performance in a Gasoline Rotary Engine. <i>Journal of Thermal Science</i> , 2021, 30, 1187-1198.	0.9	3
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