

Avinash K Agarwal

List of Publications by Year in descending order

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344
papers

15,024
citations

34105

52
h-index

24982

109
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356
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356
docs citations

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times ranked

7492
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofuels (alcohols and biodiesel) applications as fuels for internal combustion engines. <i>Progress in Energy and Combustion Science</i> , 2007, 33, 233-271.	31.2	2,547
2	Performance and emissions characteristics of Jatropha oil (preheated and blends) in a direct injection compression ignition engine. <i>Applied Thermal Engineering</i> , 2007, 27, 2314-2323.	6.0	475
3	Biodiesel Development and Characterization for Use as a Fuel in Compression Ignition Engines. <i>Journal of Engineering for Gas Turbines and Power</i> , 2001, 123, 440-447.	1.1	409
4	Experimental investigations of performance and emissions of Karanja oil and its blends in a single cylinder agricultural diesel engine. <i>Applied Energy</i> , 2009, 86, 106-112.	10.1	396
5	Evolution, challenges and path forward for low temperature combustion engines. <i>Progress in Energy and Combustion Science</i> , 2017, 61, 1-56.	31.2	373
6	Effect of fuel injection timing and pressure on combustion, emissions and performance characteristics of a single cylinder diesel engine. <i>Fuel</i> , 2013, 111, 374-383.	6.4	365
7	Effect of Exhaust Gas Recirculation (EGR) on performance, emissions, deposits and durability of a constant speed compression ignition engine. <i>Applied Energy</i> , 2011, 88, 2900-2907.	10.1	307
8	Biodiesel development from rice bran oil: Transesterification process optimization and fuel characterization. <i>Energy Conversion and Management</i> , 2008, 49, 1248-1257.	9.2	285
9	Performance evaluation of a vegetable oil fuelled compression ignition engine. <i>Renewable Energy</i> , 2008, 33, 1147-1156.	8.9	271
10	Experimental investigation of control of NO _x emissions in biodiesel-fueled compression ignition engine. <i>Renewable Energy</i> , 2006, 31, 2356-2369.	8.9	268
11	Effect of fuel injection pressure and injection timing of Karanja biodiesel blends on fuel spray, engine performance, emissions and combustion characteristics. <i>Energy Conversion and Management</i> , 2015, 91, 302-314.	9.2	261
12	Development of high strength hydroxyapatite by solid-state-sintering process. <i>Ceramics International</i> , 2007, 33, 419-426.	4.8	249
13	Performance, emissions and combustion characteristics of Karanja biodiesel in a transportation engine. <i>Fuel</i> , 2014, 119, 70-80.	6.4	235
14	Experimental study of combustion and emission characteristics of ethanol fuelled port injected homogeneous charge compression ignition (HCCI) combustion engine. <i>Applied Energy</i> , 2011, 88, 1169-1180.	10.1	219
15	Production of biodiesel from high-FFA neem oil and its performance, emission and combustion characterization in a single cylinder DIC engine. <i>Fuel Processing Technology</i> , 2012, 97, 118-129.	7.2	211
16	Experimental investigation on the effect of intake air temperature and air-fuel ratio on cycle-to-cycle variations of HCCI combustion and performance parameters. <i>Applied Energy</i> , 2011, 88, 1153-1163.	10.1	176
17	Combustion, performance, emissions and particulate characterization of a methanol-gasoline blend (gasohol) fuelled medium duty spark ignition transportation engine. <i>Fuel Processing Technology</i> , 2014, 121, 16-24.	7.2	161
18	Effect of fuel injection pressure and injection timing on spray characteristics and particulate size-number distribution in a biodiesel fuelled common rail direct injection diesel engine. <i>Applied Energy</i> , 2014, 130, 212-221.	10.1	158

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19	Potential and challenges for large-scale application of biodiesel in automotive sector. <i>Progress in Energy and Combustion Science</i> , 2017, 61, 113-149.	31.2	143
20	Experimental investigations of performance, emission and combustion characteristics of Karanja oil blends fuelled DICl engine. <i>Renewable Energy</i> , 2013, 52, 283-291.	8.9	142
21	Particulate emissions from biodiesel vs diesel fuelled compression ignition engine. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3278-3300.	16.4	138
22	Combustion characteristics of diesel HCCI engine: An experimental investigation using external mixture formation technique. <i>Applied Energy</i> , 2012, 99, 116-125.	10.1	137
23	Effect of split fuel injection and EGR on NOx and PM emission reduction in a low temperature combustion (LTC) mode diesel engine. <i>Energy</i> , 2017, 122, 249-264.	8.8	135
24	Experimental investigations of performance, combustion and emission characteristics of ethanol and methanol fueled HCCI engine. <i>Fuel Processing Technology</i> , 2014, 126, 30-48.	7.2	122
25	Effect of fuel injection parameters on combustion stability and emissions of a mineral diesel fueled partially premixed charge compression ignition (PCCI) engine. <i>Applied Energy</i> , 2017, 190, 658-669.	10.1	122
26	Effect of Biodiesel Utilization of Wear of Vital Parts in Compression Ignition Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , 2003, 125, 604-611.	1.1	108
27	Characterization of exhaust particulates from diesel engine. <i>Atmospheric Environment</i> , 2005, 39, 3023-3028.	4.1	105
28	Wear Assessment in a Biodiesel Fueled Compression Ignition Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , 2003, 125, 820-826.	1.1	103
29	Comparative compression ignition engine performance, combustion, and emission characteristics, and trace metals in particulates from Waste cooking oil, Jatropha and Karanja oil derived biodiesels. <i>Fuel</i> , 2019, 236, 1366-1376.	6.4	102
30	Effect of fuel injection pressure on diesel particulate size and number distribution in a CRDI single cylinder research engine. <i>Fuel</i> , 2013, 107, 84-89.	6.4	101
31	Particulate emissions from biodiesel fuelled CI engines. <i>Energy Conversion and Management</i> , 2015, 94, 311-330.	9.2	101
32	Effect of EGR on the exhaust gas temperature and exhaust opacity in compression ignition engines. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2004, 29, 275-284.	1.3	94
33	Particulate emission characterization of a biodiesel vs diesel-fuelled compression ignition transport engine: A comparative study. <i>Atmospheric Environment</i> , 2006, 40, 5586-5595.	4.1	91
34	Experimental investigations of combustion, performance and emission characterization of biodiesel fuelled HCCI engine using external mixture formation technique. <i>Sustainable Energy Technologies and Assessments</i> , 2014, 6, 116-128.	2.7	91
35	Experimental investigations of combustion, performance and emission characteristics of a hydrogen enriched natural gas fuelled prototype spark ignition engine. <i>Fuel</i> , 2016, 178, 209-217.	6.4	87
36	Spray characteristics of biodiesel/blends in a high pressure constant volume spray chamber. <i>Experimental Thermal and Fluid Science</i> , 2012, 42, 212-218.	2.7	86

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37	Evaluation of comparative engine combustion, performance and emission characteristics of low temperature combustion (PCCI and RCCI) modes. <i>Applied Energy</i> , 2020, 278, 115644.	10.1	85
38	Long-term storage oxidation stability of Karanja biodiesel with the use of antioxidants. <i>Fuel Processing Technology</i> , 2013, 106, 447-452.	7.2	84
39	Composition and comparative toxicity of particulate matter emitted from a diesel and biodiesel fuelled CRDI engine. <i>Atmospheric Environment</i> , 2012, 46, 472-481.	4.1	80
40	Comparative particulate characteristics of hydrogen, CNG, HCNG, gasoline and diesel fuelled engines. <i>Fuel</i> , 2016, 185, 491-499.	6.4	75
41	Experimental investigations of the effect of pilot injection on performance, emissions and combustion characteristics of Karanja biodiesel fuelled CRDI engine. <i>Energy Conversion and Management</i> , 2015, 93, 357-366.	9.2	73
42	In-nozzle flow and spray characteristics for mineral diesel, Karanja, and Jatropha biodiesels. <i>Applied Energy</i> , 2015, 156, 138-148.	10.1	71
43	Experimental investigations of the effect of biodiesel utilization on lubricating oil tribology in diesel engines. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2005, 219, 703-713.	1.9	69
44	Measurement of number and size distribution of particles emitted from a mid-sized transportation multipoint port fuel injection gasoline engine. <i>Fuel</i> , 2010, 89, 2230-2233.	6.4	67
45	Unregulated emissions and health risk potential from biodiesel (KB5, KB20) and methanol blend (M5) fuelled transportation diesel engines. <i>Renewable Energy</i> , 2016, 98, 283-291.	8.9	67
46	Technical feasibility study of butanol-gasoline blends for powering medium-duty transportation spark ignition engine. <i>Renewable Energy</i> , 2015, 76, 706-716.	8.9	65
47	Combustion, noise, vibrations and spray characterization for Karanja biodiesel fuelled engine. <i>Applied Thermal Engineering</i> , 2016, 106, 506-517.	6.0	65
48	Characterization of exhaust particulates from diesel fuelled homogenous charge compression ignition combustion engine. <i>Journal of Aerosol Science</i> , 2013, 58, 71-85.	3.8	64
49	Experimental study of the composition of hydrogen enriched compressed natural gas on engine performance, combustion and emission characteristics. <i>Fuel</i> , 2015, 160, 470-478.	6.4	63
50	Experimental investigations of heavy metal addition in lubricating oil and soot deposition in an EGR operated engine. <i>Applied Thermal Engineering</i> , 2006, 26, 259-266.	6.0	62
51	Effect of straight vegetable oil blends and biodiesel blends on wear of mechanical fuel injection equipment of a constant speed diesel engine. <i>Renewable Energy</i> , 2016, 99, 1008-1018.	8.9	59
52	Effect of liner surface properties on wear and friction in a non-firing engine simulator. <i>Materials & Design</i> , 2007, 28, 1632-1640.	5.1	56
53	Experimental investigation of cyclic variations in HCCI combustion parameters for gasoline like fuels using statistical methods. <i>Applied Energy</i> , 2013, 111, 310-323.	10.1	56
54	Effect of Karanja biodiesel blend on engine wear in a diesel engine. <i>Fuel</i> , 2014, 134, 81-89.	6.4	55

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55	Statistical analysis of the cyclic variations of heat release parameters in HCCI combustion of methanol and gasoline. <i>Applied Energy</i> , 2012, 89, 228-236.	10.1	54
56	Comparative experimental evaluation of performance, combustion and emissions of laser ignition with conventional spark plug in a compressed natural gas fuelled single cylinder engine. <i>Fuel</i> , 2014, 123, 113-122.	6.4	54
57	Real-world automotive emissions: Monitoring methodologies, and control measures. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110624.	16.4	54
58	Improving oxidation stability of biodiesels derived from Karanja, Neem and Jatropha: step forward in the direction of commercialisation. <i>Journal of Cleaner Production</i> , 2015, 107, 646-652.	9.3	53
59	Spray characteristics, engine performance and emissions analysis for Karanja biodiesel and its blends. <i>Energy</i> , 2017, 119, 138-151.	8.8	53
60	Tribological studies of epoxy composites with solid and liquid fillers. <i>Tribology International</i> , 2017, 105, 27-36.	5.9	53
61	Development of surface functionalized activated carbon fiber for control of NO and particulate matter. <i>Journal of Hazardous Materials</i> , 2010, 173, 211-222.	12.4	52
62	Experimental investigations of effect of Karanja biodiesel on tribological properties of lubricating oil in a compression ignition engine. <i>Fuel</i> , 2014, 130, 112-119.	6.4	51
63	Experimental investigation of the combustion characteristics of a biodiesel (rice-bran oil methyl) Tj ETQq1 1 0.784314 rgBT /Overlock Mechanical Engineers, Part D: <i>Journal of Automobile Engineering</i> , 2007, 221, 921-932.	1.9	49
64	Experimental Investigation of the Effect of Biodiesel Utilization on Lubricating Oil Degradation and Wear of a Transportation CIDI Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010, 132, .	1.1	48
65	Knocking behavior and emission characteristics of a port fuel injected hydrogen enriched compressed natural gas fueled spark ignition engine. <i>Applied Thermal Engineering</i> , 2018, 141, 42-50.	6.0	48
66	Spray characterization, combustion, noise and vibrations investigations of Jatropha biodiesel fuelled genset engine. <i>Fuel</i> , 2016, 185, 410-420.	6.4	47
67	Experimental investigations of Soyabean and Rapeseed SVO and biodiesels on engine noise, vibrations, and engine characteristics. <i>Fuel</i> , 2019, 238, 86-97.	6.4	47
68	Gaseous emissions (regulated and unregulated) and particulate characteristics of a medium-duty CRDI transportation diesel engine fueled with diesel-alcohol blends. <i>Fuel</i> , 2020, 278, 118269.	6.4	47
69	Flame kernel characterization of laser ignition of natural gas-air mixture in a constant volume combustion chamber. <i>Optics and Lasers in Engineering</i> , 2011, 49, 1201-1209.	3.8	46
70	Unregulated emissions from a gasohol (E5, E15, M5, and M15) fuelled spark ignition engine. <i>Applied Energy</i> , 2015, 154, 732-741.	10.1	46
71	Experimental Investigations of Particulate Size and Number Distribution in an Ethanol and Methanol Fueled HCCI Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015, 137, .	2.3	46
72	Effect of Engine Load on Size and Number Distribution of Particulate Matter Emitted from a Direct Injection Compression Ignition Engine. <i>Aerosol and Air Quality Research</i> , 2011, 11, 915-920.	2.1	45

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73	Particulate emissions from hydrogen enriched compressed natural gas engine. <i>Fuel</i> , 2016, 166, 574-580.	6.4	44
74	Trace metals and ions in particulates emitted by biodiesel fuelled engine. <i>Fuel</i> , 2017, 188, 603-609.	6.4	43
75	Adaptation of Methanol-Dodecanol-Diesel Blend in Diesel Genset Engine. <i>Journal of Energy Resources Technology</i> , Transactions of the ASME, 2019, 141, .	2.3	41
76	Review of dual-fuel combustion in the compression-ignition engine: Spray, combustion, and emission. <i>Energy</i> , 2022, 250, 123778.	8.8	41
77	Digital signal processing of cylinder pressure data for combustion diagnostics of HCCI engine. <i>Mechanical Systems and Signal Processing</i> , 2013, 36, 95-109.	8.0	40
78	Mutagenicity and Cytotoxicity of Particulate Matter Emitted from Biodiesel-Fueled Engines. <i>Environmental Science & Technology</i> , 2018, 52, 14496-14507.	10.0	40
79	Review of Experimental and Computational Studies on Spray, Combustion, Performance, and Emission Characteristics of Biodiesel Fueled Engines. <i>Journal of Energy Resources Technology</i> , Transactions of the ASME, 2018, 140, .	2.3	40
80	Spray droplet size distribution and droplet velocity measurements in a firing optical engine. <i>Physics of Fluids</i> , 2020, 32, .	4.0	40
81	Experimental investigation of the effect of the intake air temperature and mixture quality on the combustion of a methanol- and gasoline-fuelled homogeneous charge compression ignition engine. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2009, 223, 1445-1458.	1.9	39
82	Characterisation of laser ignition in hydrogen-air mixtures in a combustion bomb. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 2475-2482.	7.1	39
83	Effect of varying compression ratio on combustion, performance, and emissions of a hydrogen enriched compressed natural gas fuelled engine. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 819-828.	4.4	39
84	Nanostructure characterization of soot particles from biodiesel and diesel spray flame in a constant volume combustion chamber. <i>Fuel</i> , 2019, 235, 130-149.	6.4	39
85	Utilization of primary alcohols in dual-fuel injection mode in a gasoline direct injection engine. <i>Fuel</i> , 2020, 276, 118068.	6.4	39
86	Evaluation of toxic potential of particulates emitted from Jatropha biodiesel fuelled engine. <i>Renewable Energy</i> , 2016, 99, 564-572.	8.9	38
87	Effectiveness of non-noble metal based diesel oxidation catalysts on particle number emissions from diesel and biodiesel exhaust. <i>Science of the Total Environment</i> , 2017, 574, 1512-1520.	8.0	38
88	Experimental investigations of noise and vibration characteristics of gasoline-methanol blend fuelled gasoline direct injection engine and their relationship with combustion characteristics. <i>Applied Thermal Engineering</i> , 2019, 158, 113754.	6.0	38
89	Investigations on air-fuel mixing and flame characteristics of biodiesel fuels for diesel engine application. <i>Applied Energy</i> , 2017, 206, 1203-1213.	10.1	37
90	Effect of the Fuel Injection Pressure on Particulate Emissions from a Gasohol (E15 and M15)-Fueled Gasoline Direct Injection Engine. <i>Energy & Fuels</i> , 2017, 31, 4155-4164.	5.1	36

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91	Combustion characteristics of a common rail direct injection engine using different fuel injection strategies. International Journal of Thermal Sciences, 2018, 134, 475-484.	4.9	36
92	Performance Evaluation of a Biodiesel (Rice Bran Oil Methyl Ester) Fuelled Transport Diesel Engine. , 2005, , .		33
93	Toxicity and mutagenicity of exhaust from compressed natural gas: Could this be a clean solution for megacities with mixed-traffic conditions?. Environmental Pollution, 2018, 239, 499-511.	7.5	33
94	Combustion characteristics of a variable compression ratio laser-plasma ignited compressed natural gas engine. Fuel, 2018, 214, 322-329.	6.4	33
95	Effect of Karanja biodiesel blends on particulate emissions from a transportation engine. Fuel, 2015, 141, 154-163.	6.4	31
96	Particulate emissions from laser ignited and spark ignited hydrogen fueled engines. International Journal of Hydrogen Energy, 2017, 42, 15956-15965.	7.1	31
97	Effect of non-edible oil and its biodiesel on wear of fuel injection equipment components of a genset engine. Fuel, 2018, 222, 841-851.	6.4	31
98	Methanol as an Alternative Fuel for Diesel Engines. Energy, Environment, and Sustainability, 2019, , 9-33.	1.0	31
99	Emission profiling of diesel and gasoline cars at a city traffic junction. Particuology, 2015, 18, 186-193.	3.6	30
100	In-cylinder combustion visualization of Jatropha straight vegetable oil and mineral diesel using high temperature industrial endoscopy for spatial temperature and soot distribution. Fuel Processing Technology, 2016, 153, 9-18.	7.2	30
101	Particulate Characterization and Size Distribution in the Exhaust of a Gasoline Homogeneous Charge Compression Ignition Engine. Aerosol and Air Quality Research, 2015, 15, 504-516.	2.1	30
102	Comparative study of laser ignition and conventional electrical spark ignition systems in a hydrogen fuelled engine. International Journal of Hydrogen Energy, 2015, 40, 2386-2395.	7.1	29
103	Fuel-Injection Strategy for PCCI Engine Fueled by Mineral Diesel and Biodiesel Blends. Energy & Fuels, 2017, 31, 8594-8607.	5.1	29
104	Evaluation of Fuel Injection Strategies for Biodiesel-Fueled CRDI Engine Development and Particulate Studies. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	29
105	Performance, Emission and Combustion Characteristics of Biodiesel (Waste Cooking Oil Methyl Ester) Fueled IDI Diesel Engine. , 0, , .		28
106	Combustion and Emission Characterization of n-Butanol Fueled HCCI Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	28
107	Diesoline, Diesohol, and Diesosene Fuelled HCCI Engine Development. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	28
108	Laser ignition and flame kernel characterization of HCNG in a constant volume combustion chamber. Fuel, 2017, 190, 318-327.	6.4	28

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109	Effect of spark timing on laser ignition and spark ignition modes in a hydrogen enriched compressed natural gas fuelled engine. <i>Fuel</i> , 2020, 276, 118071.	6.4	28
110	Effect of Fuel Injection Pressure and Engine Speed on Performance, Emissions, Combustion, and Particulate Investigations of Gasohols Fuelled Gasoline Direct Injection Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	28
111	Comparative Performance, Emission, and Combustion Characteristics of Rice-Bran Oil and Its Biodiesel in a Transportation Diesel Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010, 132, .	1.1	27
112	Emissions from diesel versus biodiesel fuel used in a CRDI SUV engine: PM mass and chemical composition. <i>Inhalation Toxicology</i> , 2011, 23, 449-458.	1.6	27
113	Assessment of toxic potential of primary and secondary particulates/aerosols from biodiesel vis-À-vis mineral diesel fuelled engine. <i>Inhalation Toxicology</i> , 2013, 25, 325-332.	1.6	27
114	Experimental investigations of comparative performance, emission and combustion characteristics of a cottonseed biodiesel-fueled four-stroke locomotive diesel engine. <i>International Journal of Engine Research</i> , 2013, 14, 354-372.	2.3	27
115	Numerical investigations of piston cooling using oil jet in heavy duty diesel engines. <i>International Journal of Engine Research</i> , 2006, 7, 411-421.	2.3	26
116	Performance, Emission and Combustion Characteristics of Jatropha Oil Blends in a Direct Injection CI Engine. , 2009, , .		26
117	Measurement of dynamic lubricating oil film thickness between piston ring and liner in a motored engine. <i>Sensors and Actuators A: Physical</i> , 2009, 149, 7-15.	4.1	26
118	Effect of compression ratio on combustion, performance and emissions of a laser ignited single cylinder hydrogen engine. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12531-12540.	7.1	26
119	Performance and emission evaluation of a small-bore biodiesel compression-ignition engine. <i>Energy</i> , 2019, 183, 971-982.	8.8	26
120	Particulate characteristics of low-temperature combustion (PCCI and RCCI) strategies in single cylinder research engine for developing sustainable and cleaner transportation solution. <i>Environmental Pollution</i> , 2021, 284, 117375.	7.5	26
121	Karanja oil utilization in a direct-injection engine by preheating. Part 2: experimental investigations of engine durability and lubricating oil properties. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2010, 224, 85-97.	1.9	25
122	Investigations on the effect of measurement errors on estimated combustion and performance parameters in HCCI combustion engine. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 80-88.	5.0	24
123	Fuel Injection Strategy for Utilization of Mineral Diesel-Methanol Blend in a Common Rail Direct Injection Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	24
124	A Comparative Morphological Study of Primary and Aged Particles Emitted from a Biodiesel (B20) vis-À-vis Diesel Fuelled CRDI Engine. <i>Aerosol and Air Quality Research</i> , 2014, 14, 934-942.	2.1	24
125	An Experimental Investigation of Combustion, Emissions and Performance of a Diesel Fuelled HCCI Engine. , 0, , .		23
126	Physico-chemical speciation of particulates emanating from Karanja biodiesel fuelled automotive engine. <i>Fuel</i> , 2015, 162, 84-90.	6.4	23

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127	Experimental Investigation of Cycle-by-Cycle Variations in CAI/HCCI Combustion of Gasoline and Methanol Fueled Engine. , 0, , .		22
128	Effect of laser pulse energy on the laser ignition of compressed natural gas fueled engine. Optical Engineering, 2014, 53, 056120.	1.0	22
129	Effect of focal size on the laser ignition of compressed natural gas-air mixture. Optics and Lasers in Engineering, 2014, 58, 67-79.	3.8	22
130	Time resolved in-situ biodiesel combustion visualization using engine endoscopy. Measurement: Journal of the International Measurement Confederation, 2015, 69, 236-249.	5.0	22
131	Particulate Bound Trace Metals and Soot Morphology of Gasohol Fueled Gasoline Direct Injection Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	22
132	Experimental investigations of mineral diesel/methanol-fueled reactivity controlled compression ignition engine operated at variable engine loads and premixed ratios. International Journal of Engine Research, 2021, 22, 2375-2389.	2.3	22
133	Effect of Fuel Injection Pressure and Premixed Ratio on Mineral Diesel-Methanol Fueled Reactivity Controlled Compression Ignition Mode Combustion Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	22
134	Electrifying passenger road transport in India requires near-term electricity grid decarbonisation. Nature Communications, 2022, 13, 2095.	12.8	22
135	Toxic Potential Evaluation of Particulate Matter Emitted from a Constant Speed Compression Ignition Engine: A Comparison between Straight Vegetable Oil and Mineral Diesel. Aerosol Science and Technology, 2010, 44, 724-733.	3.1	21
136	Experimental evaluation of sensitivity of low-temperature combustion to intake charge temperature and fuel properties. International Journal of Engine Research, 2018, 19, 732-757.	2.3	21
137	Combustion Characteristics of Rice Bran Oil Derived Biodiesel in a Transportation Diesel Engine. , 0, , .		20
138	Experimental validation of accuracy of dynamic hydrogen-compressed natural gas mixing system using a single cylinder spark ignition engine. International Journal of Hydrogen Energy, 2016, 41, 14272-14282.	7.1	20
139	In-cylinder air-flow characteristics of different intake port geometries using tomographic PIV. Physics of Fluids, 2017, 29, .	4.0	20
140	Chemical composition of diesel particulate matter and its control. Catalysis Reviews - Science and Engineering, 2019, 61, 447-515.	12.9	20
141	Development of Autonomous Advanced Disinfection Tunnel to Tackle External Surface Disinfection of COVID-19 Virus in Public Places. , 2020, 5, 281-287.		20
142	Wear, durability, and lubricating oil performance of a straight vegetable oil (Karanja) blend fueled direct injection compression ignition engine. Journal of Renewable and Sustainable Energy, 2012, 4, 063138.	2.0	19
143	HRTEM evaluation of primary soot particles originated in a small-bore biofuel compression-ignition engine. Applied Thermal Engineering, 2019, 159, 113899.	6.0	19
144	Wear Evaluation of Engine Piston Rings Coated With Dual Layer Hard and Soft Coatings. Journal of Tribology, 2019, 141, .	1.9	19

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145	Performance and emission characteristics of conventional diesel combustion/partially premixed charge compression ignition combustion mode switching of biodiesel-fueled engine. International Journal of Engine Research, 2021, 22, 540-553.	2.3	19
146	Experimental Investigation of the Effect of Exhaust Gas Recirculation on Lubricating Oil Degradation and Wear of a Compression Ignition Engine. Journal of Engineering for Gas Turbines and Power, 2006, 128, 921-927.	1.1	18
147	Process optimisation of base catalysed transesterification of Karanja oil for biodiesel production. International Journal of Oil, Gas and Coal Technology, 2009, 2, 297.	0.2	18
148	Effect of intake air temperature and air-fuel ratio on particulates in gasoline and n-butanol-fueled homogeneous charge compression ignition engine. International Journal of Engine Research, 2014, 15, 789-804.	2.3	18
149	Spatial combustion analysis of biodiesel fueled engine using combustion chamber endoscopy and modeling. Renewable Energy, 2016, 98, 292-303.	8.9	18
150	Particulate characteristics of laser ignited hydrogen enriched compressed natural gas engine. International Journal of Hydrogen Energy, 2020, 45, 18021-18031.	7.1	18
151	Biodiesel Spray Characteristics and Their Effect on Engine Combustion and Particulate Emissions. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	18
152	Experimental Investigation of Close-Loop Control of HCCI Engine Using Dual Fuel Approach. , 0, , .		17
153	Macroscopic and Microscopic Spray Characteristics of Diesel and Karanja Biodiesel Blends. , 0, , .		17
154	Performance and Emission Investigations of Jatropha and Karanja Biodiesels in a Single-Cylinder Compression-Ignition Engine Using Endoscopic Imaging. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	17
155	Experimental investigation of varying composition of HCNG on performance and combustion characteristics of a SI engine. International Journal of Hydrogen Energy, 2017, 42, 13234-13244.	7.1	17
156	Combustion Mode Switching Characteristics of a Medium-Duty Engine Operated in Compression Ignition/PCCI Combustion Modes. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	17
157	Tribological studies of dual-coating (intermediate hard with top epoxy-graphene-base oil composite) Tj ETQq1 1 0.784314 rgBT /Over 5.9 17		17
158	In-Cylinder Spray and Combustion Investigations in a Heavy-Duty Optical Engine Fueled With Waste Cooking Oil, Jatropha, and Karanja Biodiesels. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	17
159	Time resolved numerical modeling of oil jet cooling of a medium duty diesel engine piston. International Communications in Heat and Mass Transfer, 2011, 38, 1080-1080.	5.6	16
160	Comparative study of macroscopic spray parameters and fuel atomization behaviour of SVO (Jatropha), its biodiesel and blends. Thermal Science, 2013, 17, 217-232.	1.1	16
161	Combustion characteristics and flame-kernel development of a laser ignited hydrogen-air mixture in a constant volume combustion chamber. International Journal of Hydrogen Energy, 2014, 39, 593-601.	7.1	16
162	Particulate Emissions From Karanja Biodiesel Fueled Turbocharged CRDI Sports Utility Vehicle Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2015, 137, .	2.3	16

#	ARTICLE	IF	CITATIONS
163	Determination of important biodiesel properties based on fuel temperature correlations for application in a locomotive engine. <i>Fuel</i> , 2015, 142, 289-302.	6.4	16
164	Development of low cost mixed metal oxide based diesel oxidation catalysts and their comparative performance evaluation. <i>RSC Advances</i> , 2016, 6, 55884-55893.	3.6	16
165	Partially Homogenous Charge Compression Ignition Engine Development for Low Volatility Fuels. <i>Energy & Fuels</i> , 2017, 31, 3164-3181.	5.1	16
166	In-Cylinder Flow Evolution Using Tomographic Particle Imaging Velocimetry in an Internal Combustion Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	2.3	16
167	Low-Temperature Combustion: An Advanced Technology for Internal Combustion Engines. <i>Energy, Environment, and Sustainability</i> , 2018, , 9-41.	1.0	16
168	A cleaner route of biodiesel production from waste frying oil using novel potassium tin oxide catalyst: A smart liquid-waste management. <i>Waste Management</i> , 2021, 135, 243-255.	7.4	16
169	Experimental investigations of methanol fumigation via port fuel injection in preheated intake air in a single cylinder dual-fuel diesel engine. <i>Fuel</i> , 2022, 324, 124340.	6.4	16
170	Field Trials of Biodiesel (B100) and Diesel Fuelled Common Rail Direct Injection Euro-III Compliant Sports Utility Vehicles in Indian Conditions. , 0, , .		15
171	Combustion, performance and emissions characteristics of a newly developed CRDI single cylinder diesel engine. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2015, 40, 1937-1954.	1.3	15
172	Endoscopic Combustion Visualization for Spatial Distribution of Soot and Flame Temperature in a Diesohol Fueled Compression Ignition Engine. <i>Energy & Fuels</i> , 2016, 30, 9850-9858.	5.1	15
173	Fuel injection strategy optimisation and experimental performance and emissions evaluation of diesel displacement by port fuel injected methanol in a retrofitted mid-size genset engine prototype. <i>Energy</i> , 2022, 248, 123593.	8.8	15
174	Effect of Start of Injection on the Particulate Emission from Methanol Fuelled HCCI Engine. <i>SAE International Journal of Fuels and Lubricants</i> , 2011, 4, 204-222.	0.2	14
175	Effect of Intake Charge Temperature and EGR on Biodiesel Fuelled HCCI Engine. , 0, , .		14
176	Endoscopic visualization of engine combustion chamber using diesoline, diesosene and mineral diesel for comparative spatial soot and temperature distributions. <i>Fuel</i> , 2019, 241, 901-913.	6.4	14
177	Effect of Multiple Injections on Particulate Size-Number Distributions in a Common Rail Direct Injection Engine Fueled with Karanja Biodiesel Blends. , 2013, , .		13
178	A qualitative correlation between engine exhaust particulate number and mass emissions. <i>Fuel</i> , 2017, 202, 241-245.	6.4	13
179	Performance evaluation of a biodiesel fuelled transportation engine retrofitted with a non-noble metal catalysed diesel oxidation catalyst for controlling unregulated emissions. <i>Journal of Hazardous Materials</i> , 2018, 344, 615-625.	12.4	13
180	Toxicity of exhaust particulates and gaseous emissions from gasohol (ethanol blended) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (gas 1540-1553.	3.5	13

#	ARTICLE	IF	CITATIONS
181	Simulations of methanol fueled locomotive engine using high pressure co-axial direct injection system. <i>Fuel</i> , 2021, 295, 120231.	6.4	13
182	Future Automotive Powertrains for India: Methanol Versus Electric Vehicles. <i>Energy, Environment, and Sustainability</i> , 2020, , 89-123.	1.0	13
183	Laser cleaning of optical windows in internal combustion engines. <i>Optical Engineering</i> , 2007, 46, 104301.	1.0	12
184	Comparative wear performance of titanium based coatings for automotive applications using exhaust gas recirculation. <i>Surface and Coatings Technology</i> , 2007, 201, 6182-6188.	4.8	12
185	Laser-assisted homogeneous charge ignition in a constant volume combustion chamber. <i>Optics and Lasers in Engineering</i> , 2009, 47, 680-685.	3.8	12
186	Effect of laser pulse energy on laser ignition of port fuel injected hydrogen engine. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 675-682.	7.1	12
187	Particle Characterization of Soot Aggregates Emitted by Gasohol Fueled Direct Injection Engine. <i>Energy & Fuels</i> , 2019, 33, 420-428.	5.1	12
188	Experimental evaluation of laser ignited hydrogen enriched compressed natural gas fueled supercharged engine. <i>Fuel</i> , 2021, 289, 119788.	6.4	12
189	Development and comparative experimental investigations of laser plasma and spark plasma ignited hydrogen enriched compressed natural gas fueled engine. <i>Energy</i> , 2021, 216, 119282.	8.8	12
190	Effect of swirl ratio on charge convection, temperature stratification, and combustion in gasoline compression ignition engine. <i>Physics of Fluids</i> , 2021, 33, .	4.0	12
191	Di-ethyl ether-diesel blends fuelled off-road tractor engine: Part-II: Unregulated and particulate emission characteristics. <i>Fuel</i> , 2022, 308, 121973.	6.4	12
192	Lubricating Oil Tribology of a Biodiesel-Fuelled Compression Ignition Engine. , 2003, , 751.		11
193	Karanja oil utilization in a direct-injection engine by preheating. Part 1: experimental investigations of engine performance, emissions, and combustion characteristics. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2010, 224, 73-84.	1.9	11
194	Comparative investigations of flame kernel development in a laser ignited hydrogen-air mixture and methane-air mixture. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 10648-10653.	7.1	11
195	Laser Ignition of Single Cylinder Engine and Effects of Ignition Location. , 2013, , .		11
196	Effect of laser parameters and compression ratio on particulate emissions from a laser ignited hydrogen engine. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 10622-10635.	7.1	11
197	Techniques to Control Emissions from a Diesel Engine. <i>Energy, Environment, and Sustainability</i> , 2018, , 57-72.	1.0	11
198	Biomass-Derived Provenance Dominates Glacial Surface Organic Carbon in the Western Himalaya. <i>Environmental Science & Technology</i> , 2020, 54, 8612-8621.	10.0	11

#	ARTICLE	IF	CITATIONS
199	Prospects of Methanol-Fuelled Carburetted Two Wheelers in Developing Countries. Energy, Environment, and Sustainability, 2020, , 53-73.	1.0	11
200	Numerical and Experimental Investigation of Oil Jet Cooled Piston. , 2005, , .		10
201	Experimental Investigations of the Tribological Properties of Lubricating Oil from Biodiesel Fuelled Medium Duty Transportation CIDI Engine. SAE International Journal of Fuels and Lubricants, 0, 1, 719-730.	0.2	10
202	Oxidation Stability, Engine Performance and Emissions Investigations of Karanja, Neem and Jatropha Biodiesel and Blends. SAE International Journal of Fuels and Lubricants, 0, 4, 76-83.	0.2	10
203	Tomographic Particle Image Velocimetry for Flow Analysis in a Single Cylinder Optical Engine. SAE International Journal of Materials and Manufacturing, 2015, 8, 472-481.	0.3	10
204	Reactivity Controlled Compression Ignition Engine Fueled With Mineral Diesel and Butanol at Varying Premixed Ratios and Loads. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	10
205	Regulated, Unregulated, and Particulate Emissions From Biodiesel Blend Fueled Transportation Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	10
206	Evaluating the effect of variable methanol injection timings in a novel co-axial fuel injection system equipped locomotive engine. Journal of Cleaner Production, 2022, 349, 131452.	9.3	10
207	Combustion and Emission Behavior of Ethanol Fuelled Homogeneous Charge Compression Ignition (HCCI) Engine. , 2008, , .		9
208	Rice bran oil methyl ester fuelled medium-duty transportation engine: long-term durability and combustion investigations. International Journal of Vehicle Design, 2009, 50, 248.	0.3	9
209	Parametric study of a laser ignited hydrogen-air mixture in a constant volume combustion chamber. International Journal of Hydrogen Energy, 2014, 39, 20207-20215.	7.1	9
210	Microscopic and Macroscopic Spray Characteristics of GDI Injector Using Gasohol Fuels at Various Injection Pressures. , 0, , .		9
211	Spray evolution, engine performance, emissions and combustion characterization of Karanja biodiesel fuelled common rail turbocharged direct injection transportation engine. International Journal of Engine Research, 2016, 17, 1092-1107.	2.3	9
212	Endoscopic combustion characterization of Jatropha biodiesel in a compression ignition engine. Energy, 2017, 119, 845-851.	8.8	9
213	CI/PCCI Combustion Mode Switching of Diesohol Fuelled Production Engine. , 2017, , .		9
214	Effect of hydrogen enrichment of compressed natural gas on combustible limit and flame kernel evolution in a constant volume combustion chamber using laser ignition. Fuel, 2021, 302, 121112.	6.4	9
215	Evaluation of reactivity controlled compression ignition mode combustion engine using mineral diesel/gasoline fuel pair. Fuel, 2021, 301, 120986.	6.4	9
216	Engine durability and lubricating oil tribology study of a biodiesel fuelled common rail direct injection medium-duty transportation diesel engine. Wear, 2021, 486-487, 204104.	3.1	9

#	ARTICLE	IF	CITATIONS
217	Di-ethyl ether-diesel blends fuelled off-road tractor engine: Part-I: Technical feasibility. Fuel, 2022, 308, 121972.	6.4	9
218	Experimental Investigations of Preheated Jatropha Oil Fuelled Direct Injection Compression Ignition Engine Part 1: Performance, Emission, and Combustion Characteristics. Journal of ASTM International, 2010, 7, 1-13.	0.2	9
219	Combustion Characteristics of Jatropha Oil Blends in a Transportation Engine. , 0, , .		8
220	Particulate Morphology and Toxicity of an Alcohol Fuelled HCCI Engine. SAE International Journal of Fuels and Lubricants, 0, 7, 323-336.	0.2	8
221	Optimisation of Karanja/Jatropha-Methanol emulsification variables and their engine evaluation. Renewable Energy, 2016, 96, 433-441.	8.9	8
222	Spark assisted premixed charge compression ignition engine prototype development. Fuel Processing Technology, 2016, 152, 413-420.	7.2	8
223	Design and Development of a Portable Disinfectant Device. , 2020, 5, 299-303.		8
224	Effect of Swirl Ratio and Piston Geometry on the Late-Compression Mean Air-Flow in a Diesel Engine. , 0, , .		8
225	Gasohol Sprays Simulations of a Multi-Hole GDI Injector in Engine-Like Conditions. , 0, , .		8
226	Optical and computational investigations of the effect of Spray-Swirl interactions on autoignition and soot formation in a compression ignition engine fuelled by Diesel, dieseline and diesohol. Applied Energy, 2022, 324, 119677.	10.1	8
227	Oxidation Stability of Biodiesel Produced from Non-Edible Oils of African Origin. , 2011, , .		7
228	Experimental Investigation on Intake Air Temperature and Air-Fuel Ratio Dependence of Random and Deterministic Cyclic Variability in a Homogeneous Charge Compression Ignition Engine. , 2011, , .		7
229	Unregulated and Regulated Emissions from Biodiesel Fuelled CRDI SUV Engine. , 2015, , .		7
230	Effects of Spray Droplet Size and Velocity Distributions on Emissions from a Single Cylinder Biofuel Engine. , 2016, , .		7
231	Tribological characterisation of epoxy-graphene liquid filler composite coatings on steel under base oil external lubrication. Tribology - Materials, Surfaces and Interfaces, 2018, 12, 144-156.	1.4	7
232	Conceptual Design of a Body Bag for Preventing Infections and Safe Disposal of Deceased from COVID-19 Virus. , 2020, 5, 429-435.		7
233	Numerical Predictions of In-Cylinder Phenomenon in Methanol Fueled Locomotive Engine Using High Pressure Direct Injection Technique. , 0, , .		7
234	Modelling Aspects for Adaptation of Alternative Fuels in IC Engines. Energy, Environment, and Sustainability, 2020, , 9-26.	1.0	7

#	ARTICLE	IF	CITATIONS
235	Prospects of Gasoline Compression Ignition (GCI) Engine Technology in Transport Sector. <i>Energy, Environment, and Sustainability</i> , 2020, , 77-110.	1.0	7
236	Particulate Morphology Characterization of Butanolâ€“Gasoline Blend Fueled Spark-Ignition Direct Injection Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	7
237	Field-Testing of Biodiesel (B100) and Diesel-Fueled Vehicles: Part 1â€“No Load and Highway Driving Emissions, and Acceleration Characteristics. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	2.3	7
238	Microscopic Spray Characteristics of Biodiesels Derived From Karanja, Jatropha, and Waste Cooking Oils. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	7
239	Experimental Investigations on the Effect of Liner Surface Properties on Wear in Non-Firing Engine Simulator. , 0, , .		6
240	Combustion Characteristics of Rice Bran Oil Derived Biodiesel in a Transportation Diesel Engine. , 2006, , 333.		6
241	Experimental and Numerical Investigations of Jet Impingement Cooling of Piston of Heavy-Duty Diesel Engine for Controlling the Non-Tail Pipe Emissions. , 2007, , .		6
242	Emission and Combustion Characteristics of Vegetable Oil (Jatropha curcus) Blends in an Indirect Ignition Transportation Engine. , 2008, , .		6
243	Reactivity-Controlled Compression Ignition Combustion Using Alcohols. <i>Energy, Environment, and Sustainability</i> , 2019, , 9-28.	1.0	6
244	Characteristics of Particulates Emitted by IC Engines Using Advanced Combustion Strategies. <i>Energy, Environment, and Sustainability</i> , 2019, , 57-71.	1.0	6
245	Development of port fuel injected methanol (M85)-fuelled two-wheeler for sustainable transport. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2020, 7, 298-311.	4.2	6
246	Macroscopic spray characteristics of a gasohol fueled GDI injector and impact on engine combustion and particulate morphology. <i>Fuel</i> , 2021, 295, 120461.	6.4	6
247	Operational Parameters of a Diesel Engine Running on Dieselâ€“Rapeseed Oilâ€“Methanolâ€“Iso-Butanol Blends. <i>Energies</i> , 2021, 14, 6173.	3.1	6
248	Field-Testing of Biodiesel (B100) and Diesel-Fueled Vehicles: Part 2â€“Lubricating Oil Condition Monitoring. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	2.3	6
249	Field-Testing of Biodiesel (B100) and Diesel-Fueled Vehicles: Part 3â€“Wear Assessment of Liner and Piston Rings, Engine Deposits, and Operational Issues. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	2.3	6
250	Experimental Investigation of Preheated Jatropha Oil Fuelled Direct Injection Compression Ignition Engineâ€“Part 2: Engine Durability and Effect on Lubricating Oil. <i>Journal of ASTM International</i> , 2010, 7, 1-15.	0.2	6
251	Particulate Characterization of Biodiesel Fuelled Compression Ignition Engine. , 0, , .		5
252	Noise, Vibrations and Combustion Investigations of Preheated Jatropha Oil in a Single Cylinder Genset Engine. , 0, , .		5

#	ARTICLE	IF	CITATIONS
253	Development of a single cylinder CNG direct injection engine and its performance, emissions and combustion characteristics. International Journal of Oil, Gas and Coal Technology, 2015, 10, 204.	0.2	5
254	An Experimental Study of Microscopic Spray Characteristics of a GDI Injector Using Phase Doppler Interferometry. , 0, , .		5
255	Near Nozzle Flow and Atomization Characteristics of Biodiesel Fuels. , 0, , .		5
256	Safety Aspects of Methanol as Fuel. Energy, Environment, and Sustainability, 2021, , 117-138.	1.0	5
257	Introduction of Methanol: A Sustainable Transport Fuel for SI Engines. Energy, Environment, and Sustainability, 2021, , 3-7.	1.0	5
258	Engine Emission Control Devices for Particulate Matter and Oxides of Nitrogen: Challenges and Emerging Trends. Energy, Environment, and Sustainability, 2021, , 197-220.	1.0	5
259	A Review on Energy, Environment, and Emissions Issues in Indian Road Transport Sector. , 2021, 6, 595-611.		5
260	Diesel fuel particulate emission control using low-cost catalytic materials. Fuel, 2021, 302, 121157.	6.4	5
261	Combustion and Emission Characteristics, and Emission Control of CNG Fueled Vehicles. Energy, Environment, and Sustainability, 2020, , 201-228.	1.0	5
262	Prospects of Dual-Fuel Injection System in Compression Ignition (CI) Engines Using Di-Methyl Ether (DME). Energy, Environment, and Sustainability, 2022, , 223-259.	1.0	5
263	Feasibility study of novel DME fuel injection Equipment: Part 1- fuel injection strategies and spray characteristics. Fuel, 2022, 323, 124333.	6.4	5
264	The Secondary Organic Carbon (SOC) Formation from a CRDI Automotive Diesel Engine Exhaust. , 2011, , .		4
265	Macroscopic Spray Parameters of Karanja Oil and Blends: A Comparative Study. , 0, , .		4
266	Laser plasma ignition: status, perspectives, solutions. Proceedings of SPIE, 2013, , .	0.8	4
267	An evaluation of the emission profile for two-wheelers at a traffic junction. Particuology, 2015, 18, 112-119.	3.6	4
268	Hydrogen-Enriched Compressed Natural Gas: An Alternate Fuel for IC Engines. Energy, Environment, and Sustainability, 2018, , 111-134.	1.0	4
269	Prospects and Challenges for Deploying Direct Injection Technology for Compressed Natural Gas Engines. Energy, Environment, and Sustainability, 2019, , 117-141.	1.0	4
270	Prospects of Fuel Injection System for Dimethyl Ether Applications in Compression Ignition Engines. Energy, Environment, and Sustainability, 2021, , 11-36.	1.0	4

#	ARTICLE	IF	CITATIONS
271	Time-Resolved Endoscopic Evaluation of Spatial Temperature and Soot Distribution in a Butanol-Diesel Blend Fueled Direct Injection Compression Ignition Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	4
272	Particulate Emission Reduction by Fuel Injection Timing Optimization in a Gasoline Direct Injection Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	4
273	Material Compatibility, Technical Challenges and Modifications Required for DME Adaptation in Compression Ignition Engines. Energy, Environment, and Sustainability, 2021, , 37-57.	1.0	4
274	Potential of DME and Methanol for Locomotive Traction in India: Opportunities, Technology Options and Challenges. , 2017, , 129-151.		4
275	Split Injection Strategies for Biodiesel-Fueled Premixed Charge Compression Ignition Combustion Engine—Part II: Particulate Studies. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	4
276	Particulate Characterization of CNG Fueled Public Transport Vehicles at Traffic Junctions. Aerosol and Air Quality Research, 2015, 15, 2168-2174.	2.1	4
277	Methanol/Ethanol/Butanol-Gasoline Blends Use in Transportation Engine—Part 1: Combustion, Emissions, and Performance Study. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	4
278	Feasibility study of novel DME fuel injection equipment: Part 2- performance, combustion, regulated and unregulated emissions. Fuel, 2022, 323, 124338.	6.4	4
279	Erratum Redux: “Effect of Biodiesel Utilization of Wear of Vital Parts in Compression Ignition Engine” [ASME J. Eng. Gas Turbines Power, 125, pp. 604–611]. Journal of Engineering for Gas Turbines and Power, 2004, 126, 199-199.	1.1	3
280	Design and Development of Double Helix Fuel Injection Pump for Four Stroke V-16 Rail Traction Diesel Engine. , 2007, , 7.		3
281	Experimental investigations of a single cylinder genset engine with common rail fuel injection system. Thermal Science, 2014, 18, 249-258.	1.1	3
282	Particulate Emissions From Karanja Biodiesel Fuelled Turbocharged CRDI SUV Engine. , 2014, , .		3
283	An Experimental Investigation on Spray Characteristics of Waste Cooking Oil, Jatropha, and Karanja Biodiesels in a Constant Volume Combustion Chamber. , 0, , .		3
284	Evaluation of Lanthanum Based Diesel Oxidation Catalyst for Emission Reduction with and without Ceria Support. , 0, , .		3
285	Gasoline Direct Injection Engines and Particulate Emissions. Energy, Environment, and Sustainability, 2018, , 87-105.	1.0	3
286	Future Mobility Solutions of Indian Automotive Industry: BS-VI, Hybrid, and Electric Vehicles. Energy, Environment, and Sustainability, 2018, , 309-345.	1.0	3
287	Compressed Natural Gas and Hythane for On-road Passenger and Commercial Vehicles. Energy, Environment, and Sustainability, 2018, , 79-106.	1.0	3
288	Feasibility Assessment of Methanol Fueling in Two-Wheeler Engine Using 1-D Simulations. , 0, , .		3

#	ARTICLE	IF	CITATIONS
289	Particulate Matter and Its Impact on Human Health in Urban Settings. Energy, Environment, and Sustainability, 2019, , 213-231.	1.0	3
290	Prospects and Challenges of DME Fueled Low-Temperature Combustion Engine Technology. Energy, Environment, and Sustainability, 2022, , 261-291.	1.0	3
291	Combustion Instabilities and Control in Compression Ignition, Low-Temperature Combustion, and Gasoline Compression Ignition Engines. Energy, Environment, and Sustainability, 2022, , 183-216.	1.0	3
292	Multiple fuel injection strategy for premixed charge compression ignition combustion engine using biodiesel blends. International Journal of Engine Research, 2023, 24, 888-903.	2.3	3
293	Computational Investigations of Spray Atomization and Evaporation Under Cold-Start Conditions of a Diesel Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	3
294	Matching and Optimisation of Turbochargers for Upgradation of High Horse Power Diesel Electric Locomotives for Indian Railways. , 2005, , 83.		2
295	Experimental Investigation of the Effect of Biodiesel Utilization on Lubricating Oil Degradation and Wear of a Transportation CIDI Engine. , 2007, , 619.		2
296	Emission and Combustion Characteristics of Biodiesel (Jatropha Curcas) Blends in a Medium Duty IDI Transportation Engine. , 2007, , 175.		2
297	Portable biogas bottling plant: a practical approach for using biogas as transportation fuel in rural areas. International Journal of Oil, Gas and Coal Technology, 2009, 2, 379.	0.2	2
298	Experimental Investigations of Gasoline HCCI Engine during Startup and Transients. , 0, , .		2
299	Comparative Study of PM Mass and Chemical Composition from Diesel and Biodiesel Fuelled CRDI SUV Engine. , 0, , .		2
300	Comparative Evaluation of Turbochargers for High Horsepower Diesel-Electric Locomotives. , 0, , .		2
301	Biodiesel as an Alternate Fuel for Diesel Traction on Indian Railways. , 2017, , 73-112.		2
302	Alcohols for Fueling Internal Combustion Engines. Energy, Environment, and Sustainability, 2018, , 109-129.	1.0	2
303	Tribological Studies of an Internal Combustion Engine. Energy, Environment, and Sustainability, 2019, , 237-253.	1.0	2
304	Regulated and Unregulated Emissions from Methanol Fueled Engines. Energy, Environment, and Sustainability, 2021, , 161-189.	1.0	2
305	Microscopic spray characteristics of ethanol and methanol blended gasoline in a direct injection spark ignition engine. International Journal of Engine Research, 2022, 23, 482-496.	2.3	2
306	Laser-Ignited Engine Development for Adaptation to Hydrogen-Enriched Compressed Natural Gas (HCNG). Energy, Environment, and Sustainability, 2019, , 185-211.	1.0	2

#	ARTICLE	IF	CITATIONS
307	Split Injection Strategies for Biodiesel-Fueled Premixed Charge Compression Ignition Combustion Engine—Part I: Combustion, Performance, and Emission Studies. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	2
308	Field-Testing of Biodiesel (B100) and Diesel-Fueled Vehicles: Part 4—Piston Rating, and Fuel Injection Equipment Issues. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	2
309	Introduction of Greener and Scalable E-Fuels for Decarbonization of Transport. Energy, Environment, and Sustainability, 2022, , 3-8.	1.0	2
310	Friction, Wear, and Lubrication Studies of Alcohol-Fuelled Engines. Energy, Environment, and Sustainability, 2022, , 9-29.	1.0	2
311	Introduction to Engines and Fuels for Future Transport. Energy, Environment, and Sustainability, 2022, , 1-5.	1.0	2
312	Scope and Limitations of Ammonia as Transport Fuel. Energy, Environment, and Sustainability, 2022, , 391-418.	1.0	2
313	Hydrogenolysis of glycerol with FeCo macrocyclic complex bonded to Raney Nickel support under mild reaction conditions. Canadian Journal of Chemical Engineering, 2010, 88, 208-216.	1.7	1
314	Experimental Evaluation of the Effects of Straight Vegetable Oil, and Blends on the Deposits and Wear of the Fuel Injection Equipment. , 2012, , .		1
315	Utilization of Alternative Fuels in Advanced Combustion Technologies. Energy, Environment, and Sustainability, 2018, , 359-385.	1.0	1
316	Hydrogen for Internal Combustion Engines. Energy, Environment, and Sustainability, 2018, , 39-54.	1.0	1
317	Image-Based Flame Temperature and Soot Analysis of Biofuel Spray Combustion. Energy, Environment, and Sustainability, 2019, , 41-54.	1.0	1
318	Characterization of Biodiesel Sprays. Energy, Environment, and Sustainability, 2019, , 203-219.	1.0	1
319	Technology Options for Methanol Utilization in Large Bore Diesel Engines of Railroad Sector. Energy, Environment, and Sustainability, 2021, , 11-37.	1.0	1
320	Spray Chamber Designs and Optical Techniques for Fundamental Spray Investigations. Energy, Environment, and Sustainability, 2021, , 105-144.	1.0	1
321	Effect of Biodiesel Utilization on Tribological Properties of Lubricating Oil in a Compression Ignition Engine. , 2014, , 75-87.		1
322	Review of Life Cycle Analysis Studies of Less Processed Fuel for Gasoline Compression Ignition Engines. Energy, Environment, and Sustainability, 2022, , 245-273.	1.0	1
323	Introduction of Potential and Challenges of Low Carbon Fuels for Sustainable Transport. Energy, Environment, and Sustainability, 2022, , 3-6.	1.0	1
324	Methanol/Ethanol/Butanol—Gasoline Blends Use in Transportation Engine—Part 2: Composition, Morphology, and Characteristics of Particulates. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	2.3	1

#	ARTICLE	IF	CITATIONS
325	Combustion in Diesel Fuelled Partially Premixed Compression Ignition Engines. Energy, Environment, and Sustainability, 2022, , 141-163.	1.0	1
326	Fundamentals, Evolution, and Modeling of Ignition Systems for Spark Ignition Engines. Energy, Environment, and Sustainability, 2022, , 237-266.	1.0	1
327	Evaluation of Steel Cap Piston for Upgradation of Diesel Electric Locomotives for Indian Railways. , , .		0
328	Experimental Investigation of the Effect of EGR on Wear Performance of a Compression Ignition Engine. , 2005, , 351.		0
329	Experimental and Numerical Investigations of Jet Impingement Cooling of Flat Plate for Controlling the Non-Tail Pipe Emissions From Heavy Duty Diesel Engines. , 2006, , 179.		0
330	DESIGN IMPROVEMENTS IN THE FURNACE OF KHANDSARI (COTTAGE SUGAR INDUSTRY) FOR AIR POLLUTION PREVENTION AND CONTROL. International Journal of Energy for A Clean Environment, 2006, 7, 59-75.	1.1	0
331	Experimental Investigation on the Performance and Emission Characteristics of Direct Injection Medium Duty Transport Diesel Engine Using Rice-Bran Oil Biodiesel. , 2007, , 273.		0
332	Guest Editorial: Alternative Fuels. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2007, 221, i-i.	1.9	0
333	Experimental Investigations of Engine Durability and Lubricating Oil Properties of Jatropha Oil Blends Fuelled DI Diesel Engine. , 2009, , .		0
334	Development of an Electronic Fuel Injection System for a 4-Stroke Locomotive Diesel Engine. , 2012, , .		0
335	Performance, Emission and Combustion Characteristics of Preheated and Blended Jatropha Oil. , 2012, , 491-508.		0
336	Lasers and Optical Diagnostics for Next Generation IC Engine Development: Ushering New Era of Engine Development. , 2017, , 211-259.		0
337	Challenges and Opportunities of Particle Imaging Velocimetry as a Tool for Internal Combustion Engine Diagnostics. Energy, Environment, and Sustainability, 2021, , 43-77.	1.0	0
338	Combustion Characteristics of Methanol Fuelled Compression Ignition Engines. Energy, Environment, and Sustainability, 2021, , 173-189.	1.0	0
339	Preliminary Investigation Into Comparative Performance of Titanium Based Coatings for Automotive Applications Using Biodiesel Blend and Diesel. , 2006, , .		0
340	Comparison of Primary and Secondary Emissions from an Internal Combustion Engine. , 2014, , 415-432.		0
341	Introduction to Combustion Simulations and Optical Diagnostic Techniques for Internal Combustion Engines. Energy, Environment, and Sustainability, 2020, , 3-6.	1.0	0
342	Introduction to Engine Modeling and Simulation. Energy, Environment, and Sustainability, 2022, , 3-6.	1.0	0

#	ARTICLE	IF	CITATIONS
343	Introduction to Advances in Engine Tribology. Energy, Environment, and Sustainability, 2022, , 3-6.	1.0	0
344	Introduction to Advanced Combustion for Sustainable Transport. Energy, Environment, and Sustainability, 2022, , 3-6.	1.0	0