

# 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  
g-index

356  
all docs

356  
docs citations

356  
times ranked

7492  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple fuel injection strategy for premixed charge compression ignition combustion engine using biodiesel blends. <i>International Journal of Engine Research</i> , 2023, 24, 888-903.	2.3	3
2	Microscopic spray characteristics of ethanol and methanol blended gasoline in a direct injection spark ignition engine. <i>International Journal of Engine Research</i> , 2022, 23, 482-496.	2.3	2
3	Reactivity Controlled Compression Ignition Engine Fueled With Mineral Diesel and Butanol at Varying Premixed Ratios and Loads. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	2.3	10
4	Time-Resolved Endoscopic Evaluation of Spatial Temperature and Soot Distribution in a Butanol-Diesel Blend Fueled Direct Injection Compression Ignition Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	2.3	4
5	Particulate Emission Reduction by Fuel Injection Timing Optimization in a Gasoline Direct Injection Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	2.3	4
6	Di-ethyl ether-diesel blends fuelled off-road tractor engine: Part-I: Technical feasibility. <i>Fuel</i> , 2022, 308, 121972.	6.4	9
7	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
8	Prospects and Challenges of DME Fueled Low-Temperature Combustion Engine Technology. <i>Energy, Environment, and Sustainability</i> , 2022, , 261-291.	1.0	3
9	Review of Life Cycle Analysis Studies of Less Processed Fuel for Gasoline Compression Ignition Engines. <i>Energy, Environment, and Sustainability</i> , 2022, , 245-273.	1.0	1
10	Introduction of Potential and Challenges of Low Carbon Fuels for Sustainable Transport. <i>Energy, Environment, and Sustainability</i> , 2022, , 3-6.	1.0	1
11	Combustion Instabilities and Control in Compression Ignition, Low-Temperature Combustion, and Gasoline Compression Ignition Engines. <i>Energy, Environment, and Sustainability</i> , 2022, , 183-216.	1.0	3
12	Introduction of Greener and Scalable E-Fuels for Decarbonization of Transport. <i>Energy, Environment, and Sustainability</i> , 2022, , 3-8.	1.0	2
13	Methanol/Ethanol/Butanol-Gasoline Blends Use in Transportation Engineâ€”Part 1: Combustion, Emissions, and Performance Study. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	2.3	4
14	Methanol/Ethanol/Butanolâ€”Gasoline Blends Use in Transportation Engineâ€”Part 2: Composition, Morphology, and Characteristics of Particulates. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	2.3	1
15	Computational Investigations of Spray Atomization and Evaporation Under Cold-Start Conditions of a Diesel Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	2.3	3
16	Evaluating the effect of variable methanol injection timings in a novel co-axial fuel injection system equipped locomotive engine. <i>Journal of Cleaner Production</i> , 2022, 349, 131452.	9.3	10
17	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
18	Review of dual-fuel combustion in the compression-ignition engine: Spray, combustion, and emission. <i>Energy</i> , 2022, 250, 123778.	8.8	41

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19	Friction, Wear, and Lubrication Studies of Alcohol-Fuelled Engines. Energy, Environment, and Sustainability, 2022, , 9-29.	1.0	2
20	Combustion in Diesel Fuelled Partially Premixed Compression Ignition Engines. Energy, Environment, and Sustainability, 2022, , 141-163.	1.0	1
21	Introduction to Engine Modeling and Simulation. Energy, Environment, and Sustainability, 2022, , 3-6.	1.0	0
22	Introduction to Engines and Fuels for Future Transport. Energy, Environment, and Sustainability, 2022, , 1-5.	1.0	2
23	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
24	Introduction to Advances in Engine Tribology. Energy, Environment, and Sustainability, 2022, , 3-6.	1.0	0
25	Scope and Limitations of Ammonia as Transport Fuel. Energy, Environment, and Sustainability, 2022, , 391-418.	1.0	2
26	Fundamentals, Evolution, and Modeling of Ignition Systems for Spark Ignition Engines. Energy, Environment, and Sustainability, 2022, , 237-266.	1.0	1
27	Introduction to Advanced Combustion for Sustainable Transport. Energy, Environment, and Sustainability, 2022, , 3-6.	1.0	0
28	Electrifying passenger road transport in India requires near-term electricity grid decarbonisation. Nature Communications, 2022, 13, 2095.	12.8	22
29	Feasibility study of novel DME fuel injection Equipment: Part 1- fuel injection strategies and spray characteristics. Fuel, 2022, 323, 124333.	6.4	5
30	Feasibility study of novel DME fuel injection equipment: Part 2- performance, combustion, regulated and unregulated emissions. Fuel, 2022, 323, 124338.	6.4	4
31	Experimental investigations of methanol fumigation via port fuel injection in preheated intake air in a single cylinder dual-fuel diesel engine. Fuel, 2022, 324, 124340.	6.4	16
32	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
33	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
34	Experimental evaluation of laser ignited hydrogen enriched compressed natural gas fueled supercharged engine. Fuel, 2021, 289, 119788.	6.4	12
35	Real-world automotive emissions: Monitoring methodologies, and control measures. Renewable and Sustainable Energy Reviews, 2021, 137, 110624.	16.4	54
36	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

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37	Regulated and Unregulated Emissions from Methanol-Fuelled Engines. Energy, Environment, and Sustainability, 2021, , 161-189.	1.0	2
38	Prospects of Fuel Injection System for Dimethyl Ether Applications in Compression Ignition Engines. Energy, Environment, and Sustainability, 2021, , 11-36.	1.0	4
39	Technology Options for Methanol Utilization in Large Bore Diesel Engines of Railroad Sector. Energy, Environment, and Sustainability, 2021, , 11-37.	1.0	1
40	Safety Aspects of Methanol as Fuel. Energy, Environment, and Sustainability, 2021, , 117-138.	1.0	5
41	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
42	Introduction of Methanol: A Sustainable Transport Fuel for SI Engines. Energy, Environment, and Sustainability, 2021, , 3-7.	1.0	5
43	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
44	Spray Chamber Designs and Optical Techniques for Fundamental Spray Investigations. Energy, Environment, and Sustainability, 2021, , 105-144.	1.0	1
45	Development and comparative experimental investigations of laser plasma and spark plasma ignited hydrogen enriched compressed natural gas fueled engine. Energy, 2021, 216, 119282.	8.8	12
46	A Review on Energy, Environment, and Emissions Issues in Indian Road Transport Sector. , 2021, 6, 595-611.		5
47	Macroscopic spray characteristics of a gasohol fueled GDI injector and impact on engine combustion and particulate morphology. Fuel, 2021, 295, 120461.	6.4	6
48	Simulations of methanol fueled locomotive engine using high pressure co-axial direct injection system. Fuel, 2021, 295, 120231.	6.4	13
49	Effect of swirl ratio on charge convection, temperature stratification, and combustion in gasoline compression ignition engine. Physics of Fluids, 2021, 33, .	4.0	12
50	Operational Parameters of a Diesel Engine Running on Diesel-Rapeseed Oil-Methanol-Iso-Butanol Blends. Energies, 2021, 14, 6173.	3.1	6
51	Particulate characteristics of low-temperature combustion (PCCI and RCCI) strategies in single cylinder research engine for developing sustainable and cleaner transportation solution. Environmental Pollution, 2021, 284, 117375.	7.5	26
52	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
53	Evaluation of reactivity controlled compression ignition mode combustion engine using mineral diesel/gasoline fuel pair. Fuel, 2021, 301, 120986.	6.4	9
54	Diesel fuel particulate emission control using low-cost catalytic materials. Fuel, 2021, 302, 121157.	6.4	5

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55	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
56	Engine durability and lubricating oil tribology study of a biodiesel fuelled common rail direct injection medium-duty transportation diesel engine. <i>Wear</i> , 2021, 486-487, 204104.	3.1	9
57	Material Compatibility, Technical Challenges and Modifications Required for DME Adaptation in Compression Ignition Engines. <i>Energy, Environment, and Sustainability</i> , 2021, , 37-57.	1.0	4
58	Combustion Characteristics of Methanol Fuelled Compression Ignition Engines. <i>Energy, Environment, and Sustainability</i> , 2021, , 173-189.	1.0	0
59	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
60	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
61	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
62	Field-Testing of Biodiesel (B100) and Diesel-Fueled Vehicles: Part 4â€”Piston Rating, and Fuel Injection Equipment Issues. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	2.3	2
63	Regulated, Unregulated, and Particulate Emissions From Biodiesel Blend Fueled Transportation Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	2.3	10
64	Development of Autonomous Advanced Disinfection Tunnel to Tackle External Surface Disinfection of COVID-19 Virus in Public Places. , 2020, 5, 281-287.		20
65	Conceptual Design of a Body Bag for Preventing Infections and Safe Disposal of Deceased from COVID-19 Virus. , 2020, 5, 429-435.		7
66	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
67	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
68	Particulate characteristics of laser ignited hydrogen enriched compressed natural gas engine. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18021-18031.	7.1	18
69	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
70	Design and Development of a Portable Disinfectant Device. , 2020, 5, 299-303.		8
71	Biomass-Derived Provenance Dominates Glacial Surface Organic Carbon in the Western Himalaya. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8612-8621.	10.0	11
72	Toxicity of exhaust particulates and gaseous emissions from gasohol (ethanol blended) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (gasohol) 1540-1553.	3.5	13

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73	Spray droplet size distribution and droplet velocity measurements in a firing optical engine. <i>Physics of Fluids</i> , 2020, 32, .	4.0	40
74	Modelling Aspects for Adaptation of Alternative Fuels in IC Engines. <i>Energy, Environment, and Sustainability</i> , 2020, , 9-26.	1.0	7
75	Prospects of Methanol-Fuelled Carburetted Two Wheelers in Developing Countries. <i>Energy, Environment, and Sustainability</i> , 2020, , 53-73.	1.0	11
76	Prospects of Gasoline Compression Ignition (GCI) Engine Technology in Transport Sector. <i>Energy, Environment, and Sustainability</i> , 2020, , 77-110.	1.0	7
77	Combustion and Emission Characteristics, and Emission Control of CNG Fueled Vehicles. <i>Energy, Environment, and Sustainability</i> , 2020, , 201-228.	1.0	5
78	Future Automotive Powertrains for India: Methanol Versus Electric Vehicles. <i>Energy, Environment, and Sustainability</i> , 2020, , 89-123.	1.0	13
79	Utilization of primary alcohols in dual-fuel injection mode in a gasoline direct injection engine. <i>Fuel</i> , 2020, 276, 118068.	6.4	39
80	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
81	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
82	Biodiesel Spray Characteristics and Their Effect on Engine Combustion and Particulate Emissions. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	18
83	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
84	Particulate Morphology Characterization of Butanol-Gasoline Blend Fueled Spark-Ignition Direct Injection Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	7
85	Split Injection Strategies for Biodiesel-Fueled Premixed Charge Compression Ignition Combustion Engine-Part I: Combustion, Performance, and Emission Studies. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	2
86	Split Injection Strategies for Biodiesel-Fueled Premixed Charge Compression Ignition Combustion Engine-Part II: Particulate Studies. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	4
87	Effect of Fuel Injection Pressure and Premixed Ratio on Mineral Diesel-Methanol Fueled Reactivity Controlled Compression Ignition Mode Combustion Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	22
88	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
89	Introduction to Combustion Simulations and Optical Diagnostic Techniques for Internal Combustion Engines. <i>Energy, Environment, and Sustainability</i> , 2020, , 3-6.	1.0	0
90	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

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91	In-Cylinder Spray and Combustion Investigations in a Heavy-Duty Optical Engine Fueled With Waste Cooking Oil, Jatropha, and Karanja Biodiesels. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	2.3	17
92	Particulate Bound Trace Metals and Soot Morphology of Gasohol Fueled Gasoline Direct Injection Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	2.3	22
93	Performance and emission evaluation of a small-bore biodiesel compression-ignition engine. <i>Energy</i> , 2019, 183, 971-982.	8.8	26
94	HRTEM evaluation of primary soot particles originated in a small-bore biofuel compression-ignition engine. <i>Applied Thermal Engineering</i> , 2019, 159, 113899.	6.0	19
95	Chemical composition of diesel particulate matter and its control. <i>Catalysis Reviews - Science and Engineering</i> , 2019, 61, 447-515.	12.9	20
96	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
97	Adaptation of Methanol&#x2013;Dodecanol&#x2013;Diesel Blend in Diesel Genset Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	2.3	41
98	Particle Characterization of Soot Aggregates Emitted by Gasohol Fueled Direct Injection Engine. <i>Energy &amp; Fuels</i> , 2019, 33, 420-428.	5.1	12
99	Image-Based Flame Temperature and Soot Analysis of Biofuel Spray Combustion. <i>Energy, Environment, and Sustainability</i> , 2019, , 41-54.	1.0	1
100	Prospects and Challenges for Deploying Direct Injection Technology for Compressed Natural Gas Engines. <i>Energy, Environment, and Sustainability</i> , 2019, , 117-141.	1.0	4
101	Tribological Studies of an Internal Combustion Engine. <i>Energy, Environment, and Sustainability</i> , 2019, , 237-253.	1.0	2
102	Reactivity-Controlled Compression Ignition Combustion Using Alcohols. <i>Energy, Environment, and Sustainability</i> , 2019, , 9-28.	1.0	6
103	Characteristics of Particulates Emitted by IC Engines Using Advanced Combustion Strategies. <i>Energy, Environment, and Sustainability</i> , 2019, , 57-71.	1.0	6
104	Methanol as an Alternative Fuel for Diesel Engines. <i>Energy, Environment, and Sustainability</i> , 2019, , 9-33.	1.0	31
105	Characterization of Biodiesel Sprays. <i>Energy, Environment, and Sustainability</i> , 2019, , 203-219.	1.0	1
106	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
107	Wear Evaluation of Engine Piston Rings Coated With Dual Layer Hard and Soft Coatings. <i>Journal of Tribology</i> , 2019, 141, .	1.9	19
108	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



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109	Comparative compression ignition engine performance, combustion, and emission characteristics, and trace metals in particulates from Waste cooking oil, Jatropha and Karanja oil derived biodiesels. Fuel, 2019, 236, 1366-1376.	6.4	102
110	Particulate Matter and Its Impact on Human Health in Urban Settings. Energy, Environment, and Sustainability, 2019, , 213-231.	1.0	3
111	Laser-Ignited Engine Development for Adaptation to Hydrogen-Enriched Compressed Natural Gas (HCNG). Energy, Environment, and Sustainability, 2019, , 185-211.	1.0	2
112	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
113	Hydrogen-Enriched Compressed Natural Gas: An Alternate Fuel for IC Engines. Energy, Environment, and Sustainability, 2018, , 111-134.	1.0	4
114	Techniques to Control Emissions from a Diesel Engine. Energy, Environment, and Sustainability, 2018, , 57-72.	1.0	11
115	Gasoline Direct Injection Engines and Particulate Emissions. Energy, Environment, and Sustainability, 2018, , 87-105.	1.0	3
116	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
117	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
118	Performance evaluation of a biodiesel fuelled transportation engine retrofitted with a non-noble metal catalysed diesel oxidation catalyst for controlling unregulated emissions. Journal of Hazardous Materials, 2018, 344, 615-625.	12.4	13
119	In-Cylinder Flow Evolution Using Tomographic Particle Imaging Velocimetry in an Internal Combustion Engine. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	16
120	Combustion characteristics of a variable compression ratio laser-plasma ignited compressed natural gas engine. Fuel, 2018, 214, 322-329.	6.4	33
121	Future Mobility Solutions of Indian Automotive Industry: BS-VI, Hybrid, and Electric Vehicles. Energy, Environment, and Sustainability, 2018, , 309-345.	1.0	3
122	Utilization of Alternative Fuels in Advanced Combustion Technologies. Energy, Environment, and Sustainability, 2018, , 359-385.	1.0	1
123	Hydrogen for Internal Combustion Engines. Energy, Environment, and Sustainability, 2018, , 39-54.	1.0	1
124	Compressed Natural Gas and Hythane for On-road Passenger and Commercial Vehicles. Energy, Environment, and Sustainability, 2018, , 79-106.	1.0	3
125	Alcohols for Fueling Internal Combustion Engines. Energy, Environment, and Sustainability, 2018, , 109-129.	1.0	2
126	Low-Temperature Combustion: An Advanced Technology for Internal Combustion Engines. Energy, Environment, and Sustainability, 2018, , 9-41.	1.0	16



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127	Mutagenicity and Cytotoxicity of Particulate Matter Emitted from Biodiesel-Fueled Engines. Environmental Science & Technology, 2018, 52, 14496-14507.	10.0	40
128	Knocking behavior and emission characteristics of a port fuel injected hydrogen enriched compressed natural gas fueled spark ignition engine. Applied Thermal Engineering, 2018, 141, 42-50.	6.0	48
129	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
130	Review of Experimental and Computational Studies on Spray, Combustion, Performance, and Emission Characteristics of Biodiesel Fueled Engines. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	40
131	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
132	Tribological studies of dual-coating (intermediate hard with top epoxy-graphene-base oil composite) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.9	17
133	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
134	Tribological characterisation of epoxyâ€“grapheneâ€“liquid filler composite coatings on steel under base oil external lubrication. Tribology - Materials, Surfaces and Interfaces, 2018, 12, 144-156.	1.4	7
135	Effect of fuel injection parameters on combustion stability and emissions of a mineral diesel fueled partially premixed charge compression ignition (PCCI) engine. Applied Energy, 2017, 190, 658-669.	10.1	122
136	Lasers and Optical Diagnostics for Next Generation IC Engine Development: Ushering New Era of Engine Development. , 2017, , 211-259.		0
137	Effect of split fuel injection and EGR on NOx and PM emission reduction in a low temperature combustion (LTC) mode diesel engine. Energy, 2017, 122, 249-264.	8.8	135
138	Partially Homogenous Charge Compression Ignition Engine Development for Low Volatility Fuels. Energy & Fuels, 2017, 31, 3164-3181.	5.1	16
139	Biodiesel as an Alternate Fuel for Diesel Traction on Indian Railways. , 2017, , 73-112.		2
140	Effect of laser parameters and compression ratio on particulate emissions from a laser ignited hydrogen engine. International Journal of Hydrogen Energy, 2017, 42, 10622-10635.	7.1	11
141	A qualitative correlation between engine exhaust particulate number and mass emissions. Fuel, 2017, 202, 241-245.	6.4	13
142	Effect of the Fuel Injection Pressure on Particulate Emissions from a Gasohol (E15 and M15)-Fueled Gasoline Direct Injection Engine. Energy & Fuels, 2017, 31, 4155-4164.	5.1	36
143	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
144	Potential and challenges for large-scale application of biodiesel in automotive sector. Progress in Energy and Combustion Science, 2017, 61, 113-149.	31.2	143

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145	Particulate emissions from laser ignited and spark ignited hydrogen fueled engines. International Journal of Hydrogen Energy, 2017, 42, 15956-15965.	7.1	31
146	Evolution, challenges and path forward for low temperature combustion engines. Progress in Energy and Combustion Science, 2017, 61, 1-56.	31.2	373
147	Spray characteristics, engine performance and emissions analysis for Karanja biodiesel and its blends. Energy, 2017, 119, 138-151.	8.8	53
148	In-cylinder air-flow characteristics of different intake port geometries using tomographic PIV. Physics of Fluids, 2017, 29, .	4.0	20
149	Investigations on air-fuel mixing and flame characteristics of biodiesel fuels for diesel engine application. Applied Energy, 2017, 206, 1203-1213.	10.1	37
150	Fuel-Injection Strategy for PCCI Engine Fueled by Mineral Diesel and Biodiesel Blends. Energy & Fuels, 2017, 31, 8594-8607.	5.1	29
151	Laser ignition and flame kernel characterization of HCNG in a constant volume combustion chamber. Fuel, 2017, 190, 318-327.	6.4	28
152	Trace metals and ions in particulates emitted by biodiesel fuelled engine. Fuel, 2017, 188, 603-609.	6.4	43
153	Tribological studies of epoxy composites with solid and liquid fillers. Tribology International, 2017, 105, 27-36.	5.9	53
154	Effectiveness of non-noble metal based diesel oxidation catalysts on particle number emissions from diesel and biodiesel exhaust. Science of the Total Environment, 2017, 574, 1512-1520.	8.0	38
155	Endoscopic combustion characterization of Jatropa biodiesel in a compression ignition engine. Energy, 2017, 119, 845-851.	8.8	9
156	CI/PCCI Combustion Mode Switching of Diesohol Fuelled Production Engine. , 2017, , .		9
157	Potential of DME and Methanol for Locomotive Traction in India: Opportunities, Technology Options and Challenges. , 2017, , 129-151.		4
158	Effects of Spray Droplet Size and Velocity Distributions on Emissions from a Single Cylinder Biofuel Engine. , 2016, , .		7
159	Diesoline, Diesohol, and Diesosene Fuelled HCCI Engine Development. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	28
160	Unregulated emissions and health risk potential from biodiesel (KB5, KB20) and methanol blend (M5) fuelled transportation diesel engines. Renewable Energy, 2016, 98, 283-291.	8.9	67
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