

# Rakesh Kumar Maurya

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

1,930  
citations

22  
h-index

43  
g-index

97  
ext. papers

2,246  
ext. citations

3.4  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
87	Effect of fuel injection timing and pressure on combustion, emissions and performance characteristics of a single cylinder diesel engine. <i>Fuel</i> , <b>2013</b> , 111, 374-383	7.1	276
86	Evolution, challenges and path forward for low temperature combustion engines. <i>Progress in Energy and Combustion Science</i> , <b>2017</b> , 61, 1-56	33.6	268
85	Experimental study of combustion and emission characteristics of ethanol fuelled port injected homogeneous charge compression ignition (HCCI) combustion engine. <i>Applied Energy</i> , <b>2011</b> , 88, 1169-1180	10.7	195
84	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> , <b>2011</b> , 88, 1153-1163	10.7	149
83	Experimental investigations of performance, combustion and emission characteristics of ethanol and methanol fueled HCCI engine. <i>Fuel Processing Technology</i> , <b>2014</b> , 126, 30-48	7.2	100
82	Effect of fuel injection pressure on diesel particulate size and number distribution in a CRDI single cylinder research engine. <i>Fuel</i> , <b>2013</b> , 107, 84-89	7.1	90
81	Effect of premixing ratio, injection timing and compression ratio on nano particle emissions from dual fuel non-road compression ignition engine fueled with gasoline/methanol (port injection) and diesel (direct injection). <i>Fuel</i> , <b>2017</b> , 203, 894-914	7.1	66
80	Experimental investigation of cyclic variations in HCCI combustion parameters for gasoline like fuels using statistical methods. <i>Applied Energy</i> , <b>2013</b> , 111, 310-323	10.7	50
79	Statistical analysis of the cyclic variations of heat release parameters in HCCI combustion of methanol and gasoline. <i>Applied Energy</i> , <b>2012</b> , 89, 228-236	10.7	48
78	Spray characteristics, engine performance and emissions analysis for Karanja biodiesel and its blends. <i>Energy</i> , <b>2017</b> , 119, 138-151	7.9	42
77	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> , <b>2015</b> , 137,	2.6	42
76	Characteristics and Control of Low Temperature Combustion Engines. <i>Mechanical Engineering Series</i> , <b>2018</b> ,	0.3	38
75	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> , <b>2017</b> , 217, 1145-1153	1.4	35
74	Parametric investigation on combustion and emissions characteristics of a dual fuel (natural gas port injection and diesel pilot injection) engine using 0-D SRM and 3D CFD approach. <i>Fuel</i> , <b>2017</b> , 210, 900-913	7.1	34
73	Digital signal processing of cylinder pressure data for combustion diagnostics of HCCI engine. <i>Mechanical Systems and Signal Processing</i> , <b>2013</b> , 36, 95-109	7.8	33
72	Development of a new reduced hydrogen combustion mechanism with NOx and parametric study of hydrogen HCCI combustion using stochastic reactor model. <i>Energy Conversion and Management</i> , <b>2017</b> , 132, 65-81	10.6	29
71	Numerical investigation of ethanol fuelled HCCI engine using stochastic reactor model. Part 2: Parametric study of performance and emissions characteristics using new reduced ethanol oxidation mechanism. <i>Energy Conversion and Management</i> , <b>2016</b> , 121, 55-70	10.6	29

70	Characterization of ringing intensity in a hydrogen-fueled HCCI engine. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 9423-9437	6.7	27
69	Combustion characteristics of a common rail direct injection engine using different fuel injection strategies. <i>International Journal of Thermal Sciences</i> , <b>2018</b> , 134, 475-484	4.1	25
68	Combustion and Emission Characterization of n-Butanol Fueled HCCI Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>2015</b> , 137,	2.6	23
67	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> , <b>2013</b> , 46, 80-88	4.6	22
66	Experimental Investigation of Cycle-by-Cycle Variations in CAI/HCCI Combustion of Gasoline and Methanol Fuelled Engine <b>2009</b> ,		22
65	Numerical investigation of ethanol fuelled HCCI engine using stochastic reactor model. Part 1: Development of a new reduced ethanol oxidation mechanism. <i>Energy Conversion and Management</i> , <b>2016</b> , 118, 44-54	10.6	22
64	Reciprocating Engine Combustion Diagnostics. <i>Mechanical Engineering Series</i> , <b>2019</b> ,	0.3	17
63	Effect of intake air temperature and air/fuel ratio on particulates in gasoline and n-butanol-fueled homogeneous charge compression ignition engine. <i>International Journal of Engine Research</i> , <b>2014</b> , 15, 789-804	2.7	17
62	Effect of Butanol Blends on Nano Particle Emissions from a Stationary Conventional Diesel Engine. <i>Aerosol and Air Quality Research</i> , <b>2016</b> , 16, 2255-2266	4.6	17
61	Experimental Investigation of Close-Loop Control of HCCI Engine Using Dual Fuel Approach <b>2013</b> ,		13
60	Effect of Start of Injection on the Particulate Emission from Methanol Fuelled HCCI Engine. <i>SAE International Journal of Fuels and Lubricants</i> , <b>2011</b> , 4, 204-222	1.8	13
59	Effect of Diesel Injection Timing on Peak Pressure Rise Rate and Combustion Stability in RCCI Engine <b>2018</b> ,		12
58	Effect of Fuel Injection Strategy on Nano-Particle Emissions from RCCI Engine <b>2018</b> ,		10
57	Comparative study of the simulation ability of various recent hydrogen combustion mechanisms in HCCI engines using stochastic reactor model. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 11911-11925	6.7	9
56	Effect of compression ratio, nozzle opening pressure, engine load, and butanol addition on nanoparticle emissions from a non-road diesel engine. <i>Environmental Science and Pollution Research</i> , <b>2018</b> , 25, 14674-14689	5.1	9
55	Influence of direct injection timing and mass of port injected gasoline on unregulated and nano-particle emissions from RCCI engine. <i>Fuel</i> , <b>2020</b> , 282, 118815	7.1	9
54	Effect of Butanol Addition on Performance, Combustion Stability and Nano-Particle Emissions of a Conventional Diesel Engine <b>2018</b> ,		9
53	Spray evolution, engine performance, emissions and combustion characterization of Karanja biodiesel fuelled common rail turbocharged direct injection transportation engine. <i>International Journal of Engine Research</i> , <b>2016</b> , 17, 1092-1107	2.7	8

52	Combustion and Emission Behavior of Ethanol Fuelled Homogeneous Charge Compression Ignition (HCCI) Engine <b>2008</b> ,		8
51	Optimization of engine operating conditions and investigation of nano-particle emissions from a non-road engine fuelled with butanol/diesel blends. <i>Biofuels</i> , <b>2020</b> , 11, 543-560	2	8
50	Experimental Investigation of Combustion Stability and Particle Emission from CNG/Diesel RCCI Engine		7
49	Estimation of optimum number of cycles for combustion analysis using measured in-cylinder pressure signal in conventional CI engine. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2016</b> , 94, 19-25	4.6	7
48	Combustion Stability Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 361-459	0.3	6
47	Low Temperature Combustion Engines. <i>Mechanical Engineering Series</i> , <b>2018</b> , 31-133	0.3	6
46	Impact of Fuel Premixing Ratio and Injection Timing on Reactivity Controlled Compression Ignition Engine <b>2017</b> , 277-296		5
45	Experimental Investigation on Effect of Compression Ratio, Injection Pressure and Engine Load on Cyclic Variations in Diesel Engine Using Wavelets <b>2018</b> ,		5
44	Particulate Morphology and Toxicity of an Alcohol Fuelled HCCI Engine. <i>SAE International Journal of Fuels and Lubricants</i> , <b>2014</b> , 7, 323-336	1.8	5
43	Experimental Investigation of Cyclic Variation in a Diesel Engine Using Wavelets. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 247-257	0.4	4
42	Investigation of Effect of Butanol Addition on Cyclic Variability in a Diesel Engine Using Wavelets. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 965-976	0.4	4
41	Experimental Investigation of Deterministic and Random Cyclic Patterns in HCCI Engine using Symbol Sequence Approach. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , <b>2019</b> , 43, 295-306	1.2	4
40	Influence of fuel injection pressure and injection timing on nanoparticle emission in light-duty gasoline/diesel RCCI engine. <i>Particulate Science and Technology</i> , <b>2021</b> , 39, 641-650	2	4
39	Performance, Combustion, and Emissions Characteristics of Conventional Diesel Engine Using Butanol Blends. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 93-110	0.8	4
38	Biomass, Its Potential and Applications. <i>Biofuel and Biorefinery Technologies</i> , <b>2018</b> , 25-52	1	4
37	Combustion Instability Analysis Using Wavelets in Conventional Diesel Engine. <i>Advances in Mechatronics and Mechanical Engineering</i> , <b>2017</b> , 390-413	0.5	3
36	Determination of Range of Fuel Premixing Ratio in Gasoline/Butanol-Diesel Dual-Fuel Engine for Lower Exhaust Emissions and Higher Efficiency		3
35	Nanoparticle Emissions in Reactivity-Controlled Compression Ignition Engine. <i>Energy, Environment, and Sustainability</i> , <b>2019</b> , 239-266	0.8	3

34	Assessing the Predictabilities in Cyclic Combustion and Emission Variations in SI Engines For Their Modelling and Control: A Literature Review		3
33	Assessment of performance, combustion and emissions characteristics of methanol-diesel dual-fuel compression ignition engine: A review. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , <b>2021</b> , 8, 638-638	3.9	3
32	Investigation of bifurcations in cyclic combustion dynamics of a CNG-diesel RCCI engine. <i>Fuel</i> , <b>2022</b> , 320, 123871	7.1	3
31	Knocking and Combustion Noise Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 461-542	0.3	2
30	Investigation of Deterministic and Random Cyclic Patterns in a Conventional Diesel Engine Using Symbol Sequence Analysis. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 549-556	0.4	2
29	Experimental Investigations of Gasoline HCCI Engine during Startup and Transients <b>2011</b> ,		2
28	A review on morphology, nanostructure, chemical composition, and number concentration of diesel particulate emissions.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 1	5.1	2
27	Characterization of Cycle-to-Cycle Variations in Conventional Diesel Engine Using Wavelets. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 135-155	0.8	2
26	Numerical Investigation of Syngas Fueled HCCI Engine Using Stochastic Reactor Model with Detailed Kinetic Mechanism <b>2018</b> ,		2
25	Combustion Characteristic Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 281-359	0.3	1
24	Engine Performance Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 223-280	0.3	1
23	Investigation of cyclic variations in air-fuel ratio, cylinder wall temperature, and residual gas fraction of a dual fuel compression ignition engine. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1276, 012070	0.3	1
22	Investigation of Nature of Cyclic Combustion Variations in RCCI Engine. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 589-598	0.4	1
21	Experimental Investigation on Range of Fuel Premixing Ratio for Stable Engine Operation of Dual Fuel Engine Using Port Injection of Gasoline/Methanol and Direct Injection of Diesel. <i>Springer Proceedings in Energy</i> , <b>2020</b> , 393-403	0.2	1
20	Chemical Kinetic Simulation of Syngas-Fueled HCCI Engine. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 209-226	0.8	1
19	Premixed Charge Preparation Strategies. <i>Mechanical Engineering Series</i> , <b>2018</b> , 167-196	0.3	1
18	Biomass Gasification and Sustainability Assessment of Biomass Utilization. <i>Biofuel and Biorefinery Technologies</i> , <b>2018</b> , 53-85	1	1
17	Experimental Investigation of Cyclic Variation of Heat Release Dynamics of HCCI Combustion Engine		1

16	Analysis of Low and High Temperature Heat Release in Dual-Fuel RCCI Engine and its Relationship with Particle Emissions. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> ,1-34	2.6	0
15	Effect of Diesel Injection Timings on the Nature of Cyclic Combustion Variations in a RCCI Engine. <i>Springer Proceedings in Energy</i> , <b>2021</b> , 775-784	0.2	0
14	Digital Signal Processing of Experimental Pressure Signal. <i>Mechanical Engineering Series</i> , <b>2019</b> , 171-222	0.3	0
13	Low and Medium Carbon Alcohol Fueled Dual-Fuel Compression Ignition Engine. <i>Energy, Environment, and Sustainability</i> , <b>2021</b> , 213-250	0.8	0
12	Application of delay embedding and recurrence analysis to a noisy nonlinear map for cyclic combustion dynamics of SI engines. <i>International Journal of Engine Research</i> ,146808742210850	2.7	0
11	Additional Sensors for Combustion Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 123-152	0.3	
10	Estimation of Engine Parameters from Measured Cylinder Pressure. <i>Mechanical Engineering Series</i> , <b>2019</b> , 543-602	0.3	
9	Combustion Characteristics. <i>Mechanical Engineering Series</i> , <b>2018</b> , 229-356	0.3	
8	Computer-Aided Data Acquisition. <i>Mechanical Engineering Series</i> , <b>2019</b> , 153-170	0.3	
7	In-Cylinder Pressure Measurement in Reciprocating Engines. <i>Mechanical Engineering Series</i> , <b>2019</b> , 37-121	0.3	
6	Characterization of Ringing Operation in Ethanol-Fueled HCCI Engine Using Chemical Kinetics and Artificial Neural Network. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 43-61	0.8	
5	LTC Fuel Quality Requirements. <i>Mechanical Engineering Series</i> , <b>2018</b> , 135-166	0.3	
4	Combustion Control Variables and Strategies. <i>Mechanical Engineering Series</i> , <b>2018</b> , 197-227	0.3	
3	Performance Characteristics. <i>Mechanical Engineering Series</i> , <b>2018</b> , 357-396	0.3	
2	Closed-Loop Combustion Control. <i>Mechanical Engineering Series</i> , <b>2018</b> , 483-510	0.3	
1	Emission Characteristics. <i>Mechanical Engineering Series</i> , <b>2018</b> , 397-482	0.3	