

# Rakesh Kumar Maurya

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3687901/rakesh-kumar-maurya-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
86	Investigation of bifurcations in cyclic combustion dynamics of a CNG-diesel RCCI engine. <i>Fuel</i> , <b>2022</b> , 320, 123871	7.1	3
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	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
77	Reciprocating Engine Combustion Diagnostics. <i>Mechanical Engineering Series</i> , <b>2019</b> ,	0.3	17
76	Additional Sensors for Combustion Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 123-152	0.3	
75	Estimation of Engine Parameters from Measured Cylinder Pressure. <i>Mechanical Engineering Series</i> , <b>2019</b> , 543-602	0.3	
74	Combustion Characteristic Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 281-359	0.3	1
73	Engine Performance Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 223-280	0.3	1
72	Knocking and Combustion Noise Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 461-542	0.3	2
71	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

70	Computer-Aided Data Acquisition. <i>Mechanical Engineering Series</i> , <b>2019</b> , 153-170	0.3	
69	Digital Signal Processing of Experimental Pressure Signal. <i>Mechanical Engineering Series</i> , <b>2019</b> , 171-222	0.3	0
68	In-Cylinder Pressure Measurement in Reciprocating Engines. <i>Mechanical Engineering Series</i> , <b>2019</b> , 37-121	0.3	
67	Combustion Stability Analysis. <i>Mechanical Engineering Series</i> , <b>2019</b> , 361-459	0.3	6
66	Nanoparticle Emissions in Reactivity-Controlled Compression Ignition Engine. <i>Energy, Environment, and Sustainability</i> , <b>2019</b> , 239-266	0.8	3
65	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
64	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
63	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
62	Experimental Investigation on Effect of Compression Ratio, Injection Pressure and Engine Load on Cyclic Variations in Diesel Engine Using Wavelets <b>2018</b> ,		5
61	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
60	Combustion Characteristics. <i>Mechanical Engineering Series</i> , <b>2018</b> , 229-356	0.3	
59	Characteristics and Control of Low Temperature Combustion Engines. <i>Mechanical Engineering Series</i> , <b>2018</b> ,	0.3	38
58	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	
57	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
56	Chemical Kinetic Simulation of Syngas-Fueled HCCI Engine. <i>Energy, Environment, and Sustainability</i> , <b>2018</b> , 209-226	0.8	1
55	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
54	Low Temperature Combustion Engines. <i>Mechanical Engineering Series</i> , <b>2018</b> , 31-133	0.3	6
53	LTC Fuel Quality Requirements. <i>Mechanical Engineering Series</i> , <b>2018</b> , 135-166	0.3	

52	Premixed Charge Preparation Strategies. <i>Mechanical Engineering Series</i> , <b>2018</b> , 167-196	0.3	1
51	Combustion Control Variables and Strategies. <i>Mechanical Engineering Series</i> , <b>2018</b> , 197-227	0.3	
50	Performance Characteristics. <i>Mechanical Engineering Series</i> , <b>2018</b> , 357-396	0.3	
49	Closed-Loop Combustion Control. <i>Mechanical Engineering Series</i> , <b>2018</b> , 483-510	0.3	
48	Biomass, Its Potential and Applications. <i>Biofuel and Biorefinery Technologies</i> , <b>2018</b> , 25-52	1	4
47	Biomass Gasification and Sustainability Assessment of Biomass Utilization. <i>Biofuel and Biorefinery Technologies</i> , <b>2018</b> , 53-85	1	1
46	Emission Characteristics. <i>Mechanical Engineering Series</i> , <b>2018</b> , 397-482	0.3	
45	Numerical Investigation of Syngas Fueled HCCI Engine Using Stochastic Reactor Model with Detailed Kinetic Mechanism <b>2018</b> ,		2
44	Effect of Diesel Injection Timing on Peak Pressure Rise Rate and Combustion Stability in RCCI Engine <b>2018</b> ,		12
43	Effect of Fuel Injection Strategy on Nano-Particle Emissions from RCCI Engine <b>2018</b> ,		10
42	Effect of Butanol Addition on Performance, Combustion Stability and Nano-Particle Emissions of a Conventional Diesel Engine <b>2018</b> ,		9
41	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
40	Impact of Fuel Premixing Ratio and Injection Timing on Reactivity Controlled Compression Ignition Engine <b>2017</b> , 277-296		5
39	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
38	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
37	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
36	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
35	Development of a new reduced hydrogen combustion mechanism with NO <sub>x</sub> 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

34	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
33	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
32	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
31	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
30	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
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	Particulate Morphology and Toxicity of an Alcohol Fueled HCCI Engine. <i>SAE International Journal of Fuels and Lubricants</i> , <b>2014</b> , 7, 323-336	1.8	5
21	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
20	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
19	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
18	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
17	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

16	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
15	Experimental Investigation of Close-Loop Control of HCCI Engine Using Dual Fuel Approach <b>2013</b> ,		13
14	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
13	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
12	Experimental Investigations of Gasoline HCCI Engine during Startup and Transients <b>2011</b> ,		2
11	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
10	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
9	Experimental Investigation of Cycle-by-Cycle Variations in CAI/HCCI Combustion of Gasoline and Methanol Fuelled Engine <b>2009</b> ,		22
8	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>2009</b> , 223, 1445-1458	1.4	35
7	Combustion and Emission Behavior of Ethanol Fuelled Homogeneous Charge Compression Ignition (HCCI) Engine <b>2008</b> ,		8
6	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
5	Experimental Investigation of Combustion Stability and Particle Emission from CNG/Diesel RCCI Engine		7
4	Determination of Range of Fuel Premixing Ratio in Gasoline/Butanol-Diesel Dual-Fuel Engine for Lower Exhaust Emissions and Higher Efficiency		3
3	Assessing the Predictabilities in Cyclic Combustion and Emission Variations in SI Engines for Their Modelling and Control: A Literature Review		3
2	Experimental Investigation of Cyclic Variation of Heat Release Dynamics of HCCI Combustion Engine		1
1	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