

# Rajesh Kumar B

## List of Publications by Year in descending order

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36  
papers

2,911  
citations

236612

25  
h-index

344852

36  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of higher alcohol biofuels in diesel engines: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 84-115.	8.2	470
2	Effect of exhaust gas recirculation (EGR) on performance and emissions of a constant speed DI diesel engine fueled with pentanol/diesel blends. <i>Fuel</i> , 2015, 160, 217-226.	3.4	235
3	Effects of iso-butanol/diesel and n-pentanol/diesel blends on performance and emissions of a DI diesel engine under premixed LTC (low temperature combustion) mode. <i>Fuel</i> , 2016, 170, 49-59.	3.4	161
4	1-Hexanol as a sustainable biofuel in DI diesel engines and its effect on combustion and emissions under the influence of injection timing and exhaust gas recirculation (EGR). <i>Applied Thermal Engineering</i> , 2017, 113, 1505-1513.	3.0	147
5	Effect of a sustainable biofuel " n-octanol " on the combustion, performance and emissions of a DI diesel engine under naturally aspirated and exhaust gas recirculation (EGR) modes. <i>Energy Conversion and Management</i> , 2016, 118, 275-286.	4.4	140
6	Combined influence of injection timing and EGR on combustion, performance and emissions of DI diesel engine fueled with neat waste plastic oil. <i>Energy Conversion and Management</i> , 2018, 161, 294-305.	4.4	139
7	Extraction and characterization of waste plastic oil (WPO) with the effect of n-butanol addition on the performance and emissions of a DI diesel engine fueled with WPO/diesel blends. <i>Energy Conversion and Management</i> , 2017, 131, 117-126.	4.4	137
8	A comparative analysis on combustion and emissions of some next generation higher-alcohol/diesel blends in a direct-injection diesel engine. <i>Energy Conversion and Management</i> , 2016, 119, 246-256.	4.4	132
9	Effective utilization of waste plastic oil in a direct injection diesel engine using high carbon alcohols as oxygenated additives for cleaner emissions. <i>Energy Conversion and Management</i> , 2018, 166, 81-97.	4.4	123
10	Combined effect of injection timing and exhaust gas recirculation (EGR) on performance and emissions of a DI diesel engine fuelled with next-generation advanced biofuel " diesel blends using response surface methodology. <i>Energy Conversion and Management</i> , 2016, 123, 470-486.	4.4	100
11	Partially premixed low temperature combustion using dimethyl carbonate (DMC) in a DI diesel engine for favorable smoke/NOx emissions. <i>Fuel</i> , 2016, 180, 396-406.	3.4	88
12	A comparative assessment of ternary blends of three bio-alcohols with waste cooking oil and diesel for optimum emissions and performance in a CI engine using response surface methodology. <i>Energy Conversion and Management</i> , 2018, 156, 337-357.	4.4	88
13	Utilization of waste cooking oil in a light-duty DI diesel engine for cleaner emissions using bio-derived propanol. <i>Fuel</i> , 2019, 235, 832-837.	3.4	87
14	A sustainable and eco-friendly fueling approach for direct-injection diesel engines using restaurant yellow grease and n-pentanol in blends with diesel fuel. <i>Fuel</i> , 2017, 193, 419-431.	3.4	79
15	Optimization of DI diesel engine parameters fueled with iso-butanol/diesel blends " Response surface methodology approach. <i>Fuel</i> , 2017, 203, 658-670.	3.4	68
16	Use of some advanced biofuels for overcoming smoke/NOx trade-off in a light-duty DI diesel engine. <i>Renewable Energy</i> , 2016, 96, 687-699.	4.3	63
17	Collective influence of 1-decanol addition, injection pressure and EGR on diesel engine characteristics fueled with diesel/LDPE oil blends. <i>Fuel</i> , 2020, 277, 118166.	3.4	61
18	Using renewable n-octanol in a non-road diesel engine with some modifications. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 1194-1208.	1.2	58

#	ARTICLE	IF	CITATIONS
19	Effect of lignin-derived cyclohexanol on combustion, performance and emissions of a direct-injection agricultural diesel engine under naturally aspirated and exhaust gas recirculation (EGR) modes. <i>Fuel</i> , 2016, 181, 630-642.	3.4	56
20	Prediction and optimization of engine characteristics of a DI diesel engine fueled with cyclohexanol/diesel blends. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 2006-2017.	1.2	55
21	Utilization of waste plastic oil in diesel engines: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2019, 18, 681-697.	3.9	53
22	Comparative account of the effects of two high carbon alcohols (C5 & C6) on combustion, performance and emission characteristics of a DI diesel engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 1772-1784.	1.2	46
23	Effect of C3, C4, and C5 Alcohols Addition to Diesel in Conjunction with Injection Timing and Intake Dilution on the Characteristics of a DI Diesel Engine. <i>Energy &amp; Fuels</i> , 2020, 34, 3305-3315.	2.5	41
24	Performance and emission study of a single cylinder diesel engine fuelled with n-octanol/WPO with some modifications. <i>International Journal of Ambient Energy</i> , 2021, 42, 779-788.	1.4	35
25	Effect of anisole addition to waste cooking oil methyl ester on combustion, emission and performance characteristics of a DI diesel engine without any modifications. <i>Fuel</i> , 2020, 278, 118315.	3.4	33
26	A comparative evaluation and optimization of performance and emission characteristics of a DI diesel engine fueled with n-propanol/diesel, n-butanol/diesel and n-pentanol/diesel blends using response surface methodology. <i>RSC Advances</i> , 2016, 6, 61869-61890.	1.7	31
27	Effective utilization of waste plastic oil/n-hexanol in an off-road, unmodified DI diesel engine and evaluating its performance, emission, and combustion characteristics. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 1375-1390.	1.2	31
28	Screening oxygenates for favorable NO <sub>x</sub> /smoke trade-off in a DI diesel engine using multi response optimization. <i>Fuel</i> , 2017, 199, 670-683.	3.4	27
29	Effect of iso-butanol addition to diesel fuel on performance and emissions of a DI diesel engine with exhaust gas recirculation. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2016, 230, 112-125.	0.8	26
30	Diesel reformulation using bio-derived propanol to control toxic emissions from a light-duty agricultural diesel engine. <i>Environmental Science and Pollution Research</i> , 2017, 24, 16725-16734.	2.7	20
31	A comprehensive study on the effects of 1-decanol, compression ratio and exhaust gas recirculation on diesel engine characteristics powered with low density polyethylene oil. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 3064-3081.	1.2	20
32	Effect of design parameters on performance and emissions of a CI engine operated with diesel-biodiesel- higher alcohol blends. <i>Renewable Energy</i> , 2020, 148, 425-436.	4.3	19
33	Comparative analysis on the effect of 1-decanol and di-n-butyl ether as additive with diesel/LDPE blends in compression ignition engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, , 1-18.	1.2	15
34	Hydromagnetic flow and heat transfer on a continuously moving vertical surface. <i>Acta Mechanica</i> , 2002, 153, 249-253.	1.1	12
35	Combined effect of oxygenates and injection timing for low emissions and high performance in a diesel engine using multi-response optimisation. <i>AEJ - Alexandria Engineering Journal</i> , 2019, 58, 625-636.	3.4	12
36	Application of an enhanced Taguchi method for simultaneous reduction of smoke and NO <sub>x</sub> emissions using oxygenated additives and retarded injection timing in a stationary diesel engine. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 1893-1906.	0.8	3