

Rajesh Kumar B

List of Publications by Citations

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36
papers

2,120
citations

23
h-index

36
g-index

36
ext. papers

2,552
ext. citations

6.4
avg, IF

5.87
L-index

#	Paper	IF	Citations
36	Use of higher alcohol biofuels in diesel engines: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 60, 84-115	16.2	360
35	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	7.1	185
34	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	7.1	131
33	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	10.6	107
32	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	10.6	105
31	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	5.8	103
30	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	10.6	97
29	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	10.6	94
28	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	10.6	87
27	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	7.1	77
26	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	10.6	74
25	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	7.1	64
24	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	7.1	64
23	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	8.1	54
22	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	10.6	53
21	Optimization of DI diesel engine parameters fueled with iso-butanol/diesel blends using response surface methodology approach. <i>Fuel</i> , 2017 , 203, 658-670	7.1	48
20	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	7.1	45

19	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	1.6	44
18	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 & Fuels</i> , 2020 , 34, 3305-3315	4.1	32
17	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	1.6	31
16	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	1.6	29
15	Utilization of waste plastic oil in diesel engines: a review. <i>Reviews in Environmental Science and Biotechnology</i> , 2019 , 18, 681-697	13.9	28
14	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	1.6	24
13	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	7.1	23
12	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	3.7	23
11	Screening oxygenates for favorable NOx/smoke trade-off in a DI diesel engine using multi response optimization. <i>Fuel</i> , 2017 , 199, 670-683	7.1	22
10	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	2	22
9	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	1.6	19
8	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	8.1	15
7	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	5.1	14
6	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	7.1	13
5	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	1.6	8
4	Hydromagnetic flow and heat transfer on a continuously moving vertical surface. <i>Acta Mechanica</i> , 2002 , 153, 249-253	2.1	8
3	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	6.1	7
2	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	1.6	7

- 1 Application of an enhanced Taguchi method for simultaneous reduction of smoke and NOx emissions using oxygenated additives and retarded injection timing in a stationary diesel engine. 2 3
Journal of the Brazilian Society of Mechanical Sciences and Engineering, **2016**, 38, 1893-1906