

Dhinesh Balasubramanian

List of Publications by Year in descending order

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76
papers

3,357
citations

109311

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155644

55
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78
docs citations

78
times ranked

1321
citing authors

#	ARTICLE	IF	CITATIONS
1	An assessment on performance, combustion and emission behavior of a diesel engine powered by ceria nanoparticle blended emulsified biofuel. <i>Energy Conversion and Management</i> , 2016, 123, 372-380.	9.2	240
2	An assessment on performance, emission and combustion characteristics of single cylinder diesel engine powered by <i>Cymbopogon flexuosus</i> biofuel. <i>Energy Conversion and Management</i> , 2016, 117, 466-474.	9.2	140
3	An experimental analysis on the influence of fuel borne additives on the single cylinder diesel engine powered by <i>Cymbopogon flexuosus</i> biofuel. <i>Journal of the Energy Institute</i> , 2017, 90, 634-645.	5.3	134
4	A study on performance, combustion and emission behaviour of diesel engine powered by novel nano nerium oleander biofuel. <i>Journal of Cleaner Production</i> , 2018, 196, 74-83.	9.3	132
5	Investigation on diethyl ether as an additive with <i>Calophyllum Inophyllum</i> biodiesel for CI engine application. <i>Energy Conversion and Management</i> , 2019, 179, 104-113.	9.2	129
6	Experimental investigation of unmodified diesel engine performance, combustion and emission with multipurpose additive along with water-in-diesel emulsion fuel. <i>Energy Conversion and Management</i> , 2018, 172, 370-380.	9.2	125
7	Novel <i>Garcinia gummi-gutta</i> methyl ester (GGME) as a potential alternative feedstock for existing unmodified DI diesel engine. <i>Renewable Energy</i> , 2018, 125, 568-577.	8.9	105
8	A numerical and experimental assessment of a coated diesel engine powered by high-performance nano biofuel. <i>Energy Conversion and Management</i> , 2018, 171, 815-824.	9.2	105
9	A technical review on composite phase change material based secondary assisted battery thermal management system for electric vehicles. <i>Journal of Cleaner Production</i> , 2021, 322, 129079.	9.3	99
10	An assessment of combustion, performance characteristics and emission control strategy by adding anti-oxidant additive in emulsified fuel. <i>Atmospheric Pollution Research</i> , 2018, 9, 959-967.	3.8	98
11	Role of hydrogen in improving performance and emission characteristics of homogeneous charge compression ignition engine fueled with graphite oxide nanoparticle-added microalgae biodiesel/diesel blends. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37617-37634.	7.1	91
12	Numerical and experimental evaluation on the pooled effect of waste cooking oil biodiesel/diesel blends and exhaust gas recirculation in a twin-cylinder diesel engine. <i>Fuel</i> , 2021, 287, 119815.	6.4	86
13	Effect of manifold injection of methanol/n-pentanol in safflower biodiesel fuelled CI engine. <i>Fuel</i> , 2020, 261, 116378.	6.4	83
14	Review of artificial neural networks for gasoline, diesel and homogeneous charge compression ignition engine. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 8363-8391.	6.4	81
15	Effect of hydrogen on ethanol-biodiesel blend on performance and emission characteristics of a direct injection diesel engine. <i>Ecotoxicology and Environmental Safety</i> , 2016, 134, 433-439.	6.0	75
16	Performance, emission and combustion characteristics of unmodified diesel engine with titanium dioxide (TiO ₂) nano particle along with water-in-diesel emulsion fuel. <i>Fuel</i> , 2021, 285, 119115.	6.4	74
17	Studies on the influence of combustion bowl modification for the operation of <i>Cymbopogon flexuosus</i> biofuel based diesel blends in a DI diesel engine. <i>Applied Thermal Engineering</i> , 2017, 112, 627-637.	6.0	70
18	Effect of hydrogen on compression-ignition (CI) engine fueled with vegetable oil/biodiesel from various feedstocks: A review. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37648-37667.	7.1	70

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19	Performance analysis of HCCI engine powered by tamanu methyl ester with various inlet air temperature and exhaust gas recirculation ratios. <i>Fuel</i> , 2020, 282, 118833.	6.4	63
20	Performance and emission reduction characteristics of cerium oxide nanoparticle-water emulsion biofuel in diesel engine with modified coated piston. <i>Environmental Science and Pollution Research</i> , 2019, 26, 27362-27371.	5.3	61
21	Effects of thermal barrier coating on the performance, combustion and emission of DI diesel engine powered by biofuel oil-water emulsion. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 593-605.	3.6	61
22	Improvement of combustion and emission characteristics of a diesel engine working with diesel/jojoba oil blends and butanol additive. <i>Fuel</i> , 2020, 279, 118433.	6.4	61
23	A numerical study on the effect of various combustion bowl parameters on the performance, combustion, and emission behavior on a single cylinder diesel engine. <i>Environmental Science and Pollution Research</i> , 2018, 25, 2273-2284.	5.3	60
24	Experimental assessment on performance and combustion behaviors of reactivity-controlled compression ignition engine operated by n-pentanol and cottonseed biodiesel. <i>Journal of Cleaner Production</i> , 2022, 330, 129781.	9.3	60
25	Smart control strategy for effective hydrocarbon and carbon monoxide emission reduction on a conventional diesel engine using the pooled impact of pre-and post-combustion techniques. <i>Journal of Cleaner Production</i> , 2021, 306, 127310.	9.3	56
26	Numerical investigations of combustion and emissions characteristics of a novel small scale opposed rotary piston engine fuelled with hydrogen at wide open throttle and stoichiometric conditions. <i>Energy Conversion and Management</i> , 2020, 221, 113178.	9.2	54
27	Forecasting of an ANN model for predicting behaviour of diesel engine energised by a combination of two low viscous biofuels. <i>Environmental Science and Pollution Research</i> , 2020, 27, 24702-24722.	5.3	52
28	Pooled effect of injection pressure and turbulence inducer piston on performance, combustion, and emission characteristics of a DI diesel engine powered with biodiesel blend. <i>Ecotoxicology and Environmental Safety</i> , 2016, 134, 336-343.	6.0	50
29	Experimental investigation to reduce environmental pollutants using biofuel nano-water emulsion in thermal barrier coated engine. <i>Fuel</i> , 2021, 285, 119200.	6.4	50
30	Influence on the effect of titanium dioxide nanoparticles as an additive with Mimusops elengi methyl ester in a CI engine. <i>Environmental Science and Pollution Research</i> , 2019, 26, 16493-16502.	5.3	49
31	An experimental study on harmful pollution reduction technique in low heat rejection engine fuelled with blends of pre-heated linseed oil and nano additive. <i>Journal of Cleaner Production</i> , 2021, 283, 124617.	9.3	48
32	An assessment on production and engine characterization of a novel environment-friendly fuel. <i>Fuel</i> , 2020, 279, 118558.	6.4	46
33	Production of <i>Garcinia gummi-gutta</i> Methyl Ester (GCME) as a Potential Alternative Feedstock for Existing Unmodified DI Diesel Engine: Combustion, Performance, and Emission Characteristics. <i>Journal of Testing and Evaluation</i> , 2018, 46, 2661-2678.	0.7	42
34	Combustion and emission behaviors of dual-fuel premixed charge compression ignition engine powered with n-pentanol and blend of diesel/waste tire oil included nanoparticles. <i>Fuel</i> , 2022, 324, 124603.	6.4	40
35	Experimental investigation of combustion, performance and emission characteristics of a modified piston. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 4519-4525.	1.5	39
36	Investigating the combined effect of thermal barrier coating and antioxidants on pine oil in DI diesel engine. <i>Environmental Science and Pollution Research</i> , 2019, 26, 15573-15599.	5.3	39

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37	Effect of electromagnet-based fuel-reforming system on high-viscous and low-viscous biofuel fueled in heavy-duty CI engine. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 633-644.	3.6	36
38	Optimization of variable compression ratio diesel engine fueled with Zinc oxide nanoparticles and biodiesel emulsion using response surface methodology. <i>Fuel</i> , 2022, 323, 124290.	6.4	33
39	Experimental assessment on characteristics of premixed charge compression ignition engine fueled with multi-walled carbon nanotube-included Tamanu methyl ester. <i>Fuel</i> , 2022, 323, 124415.	6.4	32
40	Comparative analysis on the influence of antioxidants role with Pistacia khinjuk oil biodiesel to reduce emission in diesel engine. <i>Heat and Mass Transfer</i> , 2020, 56, 1275-1292.	2.1	31
41	Characterization and effect of Moringa Oleifera Lam. antioxidant additive on the storage stability of Jatropha biodiesel. <i>Fuel</i> , 2020, 281, 118614.	6.4	31
42	Exploration of combustion behavior in a compression ignition engine fuelled with low-viscous Pimpinella anisum and waste cooking oil biodiesel blends. <i>Journal of Cleaner Production</i> , 2022, 331, 129999.	9.3	30
43	Potential improvement in conventional diesel combustion mode on a common rail direct injection diesel engine with PODE/WCO blend as a high reactive fuel to achieve effective Soot-NOx trade-off. <i>Journal of Cleaner Production</i> , 2021, 327, 129495.	9.3	28
44	Characteristics Investigation on Di Diesel Engine with Nano-Particles as an Additive in Lemon Grass Oil. , 0, , .		26
45	Comparative analyses of biodiesel produced from jatropha and neem seed oil using a gas chromatographyâ€“mass spectroscopy technique. <i>Biofuels</i> , 2021, 12, 757-768.	2.4	22
46	Experimental evaluation over the effects of natural antioxidants on oxidation stability of binary biodiesel blend. <i>International Journal of Energy Research</i> , 2022, 46, 20437-20461.	4.5	22
47	Effects of antioxidants to reduce the harmful pollutants from diesel engine using preheated palm oilâ€“diesel blend. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 2439-2453.	3.6	18
48	Characteristics of PM and soot emissions of internal combustion engines running on biomass-derived DMF biofuel: a review. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 8335-8356.	2.3	18
49	A computational technique for prediction and optimization of VCR engine performance and emission parameters fuelled with Trichosanthes cucumerina biodiesel using RSM with desirability function approach. <i>Energy</i> , 2022, 254, 124293.	8.8	18
50	Synthesis of Biodiesel from Waste Cooking Oil by Alkali Doped Calcinated Waste Egg Shell Powder Catalyst and Optimization of Process Parameters to Improve Biodiesel Conversion. , 0, , .		14
51	Effect of Cobalt Chromite on the Investigation of Traditional CI Engine Powered with Raw Citronella Fuel for the Future Sustainable Renewable Source. <i>SAE International Journal of Advances and Current Practices in Mobility</i> , 0, 3, 843-850.	2.0	13
52	Exploration over combined impacts of modified piston bowl geometry and tert-butyl hydroquinone additive-included biodiesel/diesel blend on diesel engine behaviors. <i>Fuel</i> , 2022, 322, 124206.	6.4	13
53	Numerical investigation on melting and energy storage density enhancement of phase change material in a horizontal cylindrical container. <i>International Journal of Energy Research</i> , 2022, 46, 19138-19158.	4.5	12
54	Control Strategies on HCCI Engine Performance and Emission characteristics by Combined Effect of Exhaust Gas Recirculation with Blend of Biodiesel and N-Heptane. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-17.	2.3	11

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55	Effect of Star Anise as a Natural Antioxidant Additive on the Oxidation Stability of Lemon Grass Oil. Waste and Biomass Valorization, 2021, 12, 2983-2997.	3.4	10
56	Experimental Investigation of Performance and Emission Characteristics of Diesel Blended with Palm Methyl Ester Along with Alumina Nano-Additive Using D.I. Diesel Engine. , 2020, , 151-166.		9
57	Effect of 1,4-Dioxane Emulsified Fuel on Diesel Engine Performance and Emission Operating with Varying Injection Timing. Energy, Environment, and Sustainability, 2021, , 197-213.	1.0	7
58	Contactless phase change material based photovoltaic module cooling: A statistical approach by clustering and correlation algorithm. Journal of Energy Storage, 2022, 53, 105139.	8.1	7
59	Effect of Hybrid Nanoparticle on DI Diesel Engine Performance, Combustion, and Emission Studies. Energy, Environment, and Sustainability, 2021, , 235-263.	1.0	6
60	Influence of Pyrogallol (PY) Antioxidant in the Fuel Stability of Alexandrian Laurel Biodiesel. , 2020, , 51-63.		6
61	Effect of Compression Ratio on Combustion, Performance and Emission Characteristics of DI Diesel Engine with Orange Oil Methyl Ester. , 2020, , 131-149.		5
62	Characterization of Single-Cylinder DI Diesel Engine Fueled with Waste Cooking Oil Biofuel/Diesel Blends. Energy, Environment, and Sustainability, 2021, , 173-196.	1.0	5
63	MACROSCOPIC CHARACTERISTICS OF PALM OIL AND PALM OIL METHYL ESTER USING DIMENSIONLESS ANALYSIS. Journal of Oil Palm Research, 0, , .	2.1	4
64	A Comparative Assessment of Tailpipe Emission Characteristics on Diesel Engine Using Nanofluid with R-EGR Setup. , 0, , .		4
65	Characteristics assessment on riveted, bonded and hybrid joints using GFRP composites. Materials Today: Proceedings, 2021, 47, 6889-6895.	1.8	3
66	Effect of low carbon biofuel on carbon emissions in biodiesel fueled CI engine. , 2021, , 333-368.		3
67	Impact of NOx control measures on engine life. , 2022, , 387-421.		2
68	Comparative of various bio-inspired meta-heuristic optimization algorithms in performance and emissions of diesel engine fuelled with B5 containing water and cerium oxide additive blends. International Journal of Energy Research, 2022, 46, 21266-21280.	4.5	2
69	Experimental Investigation of Unmodified Diesel Engine on Performance, Combustion and Emission with Various Proportions of Jatropha Biofuel in Diesel. Energy, Environment, and Sustainability, 2021, , 149-171.	1.0	1
70	Effect of Calcium Oxide Nano Fluid Additive on Diesel Engine Characteristics Fuelled with Ternary Blend. , 0, , .		1
71	Comparative Analysis of Experimental and Simulated Performance and Emissions of Compression Ignition Engine Using Biodiesel Blends. , 2020, , 85-100.		1
72	Surface effect of environmentally assisted corrosion growth of automotive welded steel performance. Materials Today: Proceedings, 2021, 38, 2380-2384.	1.8	0

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73	Performance Assessment of Pyramidal Lattice Core Sandwich Engine Hood for Pedestrian Safety. , 0, , .		0
74	Process Optimization Study of Alternative Fuel Production From Linseed Oil. Advances in Mechatronics and Mechanical Engineering, 2020, , 234-249.	1.0	0
75	Capture of CO2 from Automobile Exhaust by Using Physical Adsorption Technique. , 2020, , 59-68.		0
76	Application of exhaust gas recirculation of NOx reduction in SI engines. , 2022, , 155-187.		0