Dhinesh Balasubramanian

List of Publications by Year
in descending order

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76	3,357	109311	155644
papers	citations	35 h-index	55 g-index

78	78	78	1321
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of antioxidants to reduce the harmful pollutants from diesel engine using preheated palm oilâ€“diesel blend. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2439-2453.	3.6	18
2	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. International Journal of Hydrogen Energy, 2022, 47, 37617-37634.	7.1	91
3	Characteristics of PM and soot emissions of internal combustion engines running on biomass-derived DMF biofuel: a review. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 8335-8356.	2.3	18
4	Experimental assessment on performance and combustion behaviors of reactivity-controlled compression ignition engine operated by n-pentanol and cottonseed biodiesel. Journal of Cleaner Production, 2022, 330, 129781.	9.3	60
5	Exploration of combustion behavior in a compression ignition engine fuelled with low-viscous Pimpinella anisum and waste cooking oil biodiesel blends. Journal of Cleaner Production, 2022, 331, 129999.	9.3	30
6	Application of exhaust gas recirculation of NOx reduction in SI engines. , 2022, , 155-187.		0
7	Effect of hydrogen on compression-ignition (CI) engine fueled with vegetable oil/biodiesel from various feedstocks: A review. International Journal of Hydrogen Energy, 2022, 47, 37648-37667.	7.1	70
8	Impact of NOx control measures on engine life. , 2022, , 387-421.		2
9	Review of artificial neural networks for gasoline, diesel and homogeneous charge compression ignition engine. AEJ - Alexandria Engineering Journal, 2022, 61, 8363-8391.	6.4	81
10	Experimental evaluation over the effects of natural antioxidants on oxidation stability of binary biodiesel blend. International Journal of Energy Research, 2022, 46, 20437-20461.	4.5	22
11	Exploration over combined impacts of modified piston bowl geometry and tert-butyl hydroquinone additive-included biodiesel/diesel blend on diesel engine behaviors. Fuel, 2022, 322, 124206.	6.4	13
12	Experimental assessment on characteristics of premixed charge compression ignition engine fueled with multi-walled carbon nanotube-included Tamanu methyl ester. Fuel, 2022, 323, 124415.	6.4	32
13	Optimization of variable compression ratio diesel engine fueled with Zinc oxide nanoparticles and biodiesel emulsion using response surface methodology. Fuel, 2022, 323, 124290.	6.4	33
14	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. Energy, 2022, 254, 124293.	8.8	18
15	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. Fuel, 2022, 324, 124603.	6.4	40
16	Numerical investigation on melting and energy storage density enhancement of phase change material in a horizontal cylindrical container. International Journal of Energy Research, 2022, 46, 19138-19158.	4.5	12
17	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
18	Comparative of various <scp>bioâ€inspired metaâ€heuristic</scp> optimization algorithms in performance and emissionsÂof diesel engine fuelled with <scp>B5</scp> containing water and cerium oxide additive blends. International Journal of Energy Research, 2022, 46, 21266-21280.	4.5	2

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19	Comparative analyses of biodiesel produced from jatropha and neem seed oil using a gas chromatographyâ€“mass spectroscopy technique. Biofuels, 2021, 12, 757-768.	2.4	22
20	Experimental investigation to reduce environmental pollutants using biofuel nano-water emulsion in thermal barrier coated engine. Fuel, 2021, 285, 119200.	6.4	50
21	Performance, emission and combustion characteristics of unmodified diesel engine with titanium dioxide (TiO2) nano particle along with water-in-diesel emulsion fuel. Fuel, 2021, 285, 119115.	6.4	74
22	An experimental study on harmful pollution reduction technique in low heat rejection engine fuelled with blends of pre-heated linseed oil and nano additive. Journal of Cleaner Production, 2021, 283, 124617.	9.3	48
23	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. Fuel, 2021, 287, 119815.	6.4	86
24	Surface effect of environmentally assisted corrosion growth of automotive welded steel performance. Materials Today: Proceedings, 2021, 38, 2380-2384.	1.8	0
25	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
26	Effect of Hybrid Nanoparticle on DI Diesel Engine Performance, Combustion, and Emission Studies. Energy, Environment, and Sustainability, 2021, , 235-263.	1.0	6
27	Characteristics assessment on riveted, bonded and hybrid joints using GFRP composites. Materials Today: Proceedings, 2021, 47, 6889-6895.	1.8	3
28	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. Journal of Cleaner Production, 2021, 306, 127310.	9.3	56
29	A technical review on composite phase change material based secondary assisted battery thermal management system for electric vehicles. Journal of Cleaner Production, 2021, 322, 129079.	9.3	99
30	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
31	Effect of low carbon biofuel on carbon emissions in biodiesel fueled CI engine. , 2021, , 333-368.		3
32	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
33	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
34	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. Journal of Cleaner Production, 2021, 327, 129495.	9.3	28
35	Effect of manifold injection of methanol/n-pentanol in safflower biodiesel fuelled CI engine. Fuel, 2020, 261, 116378.	6.4	83
36	Forcasting of an ANN model for predicting behaviour of diesel engine energised by a combination of two low viscous biofuels. Environmental Science and Pollution Research, 2020, 27, 24702-24722.	5.3	52

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37	Comparative analysis on the influence of antioxidants role with Pistacia khinjuk oil biodiesel to reduce emission in diesel engine. Heat and Mass Transfer, 2020, 56, 1275-1292.	2.1	31
38	Performance analysis of HCCI engine powered by tamanu methyl ester with various inlet air temperature and exhaust gas recirculation ratios. Fuel, 2020, 282, 118833.	6.4	63
39	Characterization and effect of Moringa Oleifera Lam. antioxidant additive on the storage stability of Jatropha biodiesel. Fuel, 2020, 281, 118614.	6.4	31
40	Improvement of combustion and emission characteristics of a diesel engine working with diesel/jojoba oil blends and butanol additive. Fuel, 2020, 279, 118433.	6.4	61
41	Effect of Compression Ratio on Combustion, Performance and Emission Characteristics of DI Diesel Engine with Orange Oil Methyl Ester. , 2020, , 131-149.		5
42	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
43	An assessment on production and engine characterization of a novel environment-friendly fuel. Fuel, 2020, 279, 118558.	6.4	46
44	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. Energy Conversion and Management, 2020, 221, 113178.	9.2	54
45	Influence of Pyrogallol (PY) Antioxidant in the Fuel Stability of Alexandrian Laurel Biodiesel. , 2020, , 51-63.		6
46	Comparative Analysis of Experimental and Simulated Performance and Emissions of Compression Ignition Engine Using Biodiesel Blends. , 2020, , 85-100.		1
47	Process Optimization Study of Alternative Fuel Production From Linseed Oil. Advances in Mechatronics and Mechanical Engineering, 2020, , 234-249.	1.0	0
48	Capture of CO2 from Automobile Exhaust by Using Physical Adsorption Technique. , 2020, , 59-68.		0
49	Performance and emission reduction characteristics of cerium oxide nanoparticle-water emulsion biofuel in diesel engine with modified coated piston. Environmental Science and Pollution Research, 2019, 26, 27362-27371.	5.3	61
50	Influence on the effect of titanium dioxide nanoparticles as an additive with Mimusops elengi methyl ester in a CI engine. Environmental Science and Pollution Research, 2019, 26, 16493-16502.	5.3	49
51	Effect of electromagnet-based fuel-reforming system on high-viscous and low-viscous biofuel fueled in heavy-duty CI engine. Journal of Thermal Analysis and Calorimetry, 2019, 138, 633-644.	3.6	36
52	Investigating the combined effect of thermal barrier coating and antioxidants on pine oil in DI diesel engine. Environmental Science and Pollution Research, 2019, 26, 15573-15599.	5.3	39
53	Investigation on diethyl ether as an additive with Calophyllum Inophyllum biodiesel for CI engine application. Energy Conversion and Management, 2019, 179, 104-113.	9.2	129
54	Effects of thermal barrier coating on the performance, combustion and emission of DI diesel engine powered by biofuel oilâ€“water emulsion. Journal of Thermal Analysis and Calorimetry, 2019, 137, 593-605.	3.6	61

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55	Novel Garcinia gummi-gutta methyl ester (GGME) as a potential alternative feedstock for existing unmodified DI diesel engine. Renewable Energy, 2018, 125, 568-577.	8.9	105
56	An assessment of combustion, performance characteristics and emission control strategy by adding anti-oxidant additive in emulsified fuel. Atmospheric Pollution Research, 2018, 9, 959-967.	3.8	98
57	A numerical study on the effect of various combustion bowl parameters on the performance, combustion, and emission behavior on a single cylinder diesel engine. Environmental Science and Pollution Research, 2018, 25, 2273-2284.	5.3	60
58	A numerical and experimental assessment of a coated diesel engine powered by high-performance nano biofuel. Energy Conversion and Management, 2018, 171, 815-824.	9.2	105
59	Experimental investigation of unmodified diesel engine performance, combustion and emission with multipurpose additive along with water-in-diesel emulsion fuel. Energy Conversion and Management, 2018, 172, 370-380.	9.2	125
60	A study on performance, combustion and emission behaviour of diesel engine powered by novel nano nerium oleander biofuel. Journal of Cleaner Production, 2018, 196, 74-83.	9.3	132
61	Production of Garcinia gummi-gutta Methyl Ester (GGME) as a Potential Alternative Feedstock for Existing Unmodified DI Diesel Engine: Combustion, Performance, and Emission Characteristics. Journal of Testing and Evaluation, 2018, 46, 2661-2678.	0.7	42
62	An experimental analysis on the influence of fuel borne additives on the single cylinder diesel engine powered by Cymbopogon flexuosus biofuel. Journal of the Energy Institute, 2017, 90, 634-645.	5.3	134
63	Studies on the influence of combustion bowl modification for the operation of Cymbopogon flexuosus biofuel based diesel blends in a DI diesel engine. Applied Thermal Engineering, 2017, 112, 627-637.	6.0	70
64	An assessment on performance, combustion and emission behavior of a diesel engine powered by ceria nanoparticle blended emulsified biofuel. Energy Conversion and Management, 2016, 123, 372-380.	9.2	240
65	An assessment on performance, emission and combustion characteristics of single cylinder diesel engine powered by Cymbopogon flexuosus biofuel. Energy Conversion and Management, 2016, 117, 466-474.	9.2	140
66	Effect of hydrogen on ethanolâ€“biodiesel blend on performance and emission characteristics of a direct injection diesel engine. Ecotoxicology and Environmental Safety, 2016, 134, 433-439.	6.0	75
67	Pooled effect of injection pressure and turbulence inducer piston on performance, combustion, and emission characteristics of a DI diesel engine powered with biodiesel blend. Ecotoxicology and Environmental Safety, 2016, 134, 336-343.	6.0	50
68	Experimental investigation of combustion, performance and emission characteristics of a modified piston. Journal of Mechanical Science and Technology, 2015, 29, 4519-4525.	1.5	39
69	Control Strategies on HCCI Engine Performance and Emission characteristics by Combined Effect of Exhaust Gas Recirculation with Blend of Biodiesel and N-Heptane. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	2.3	11
70	MACROSCOPIC CHARACTERISTICS OF PALM OIL AND PALM OIL METHYL ESTER USING DIMENSIONLESS ANALYSIS. Journal of Oil Palm Research, 0, , .	2.1	4
71	Characteristics Investigation on Di Diesel Engine with Nano-Particles as an Additive in Lemon Grass Oil. , 0, , .		26
72	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

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73	A Comparative Assessment of Tailpipe Emission Characteristics on Diesel Engine Using Nanofluid with R-EGR Setup. , 0, , .		4
74	Effect of Cobalt Chromite on the Investigation of Traditional CI Engine Powered with Raw Citronella Fuel for the Future Sustainable Renewable Source. SAE International Journal of Advances and Current Practices in Mobility, 0, 3, 843-850.	2.0	13
75	Effect of Calcium Oxide Nano Fluid Additive on Diesel Engine Characteristics Fuelled with Ternary Blend. , 0, , .		1
76	Performance Assessment of Pyramidal Lattice Core Sandwich Engine Hood for Pedestrian Safety. , 0, , .		0