## Dhinesh Balasubramanian

List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Effects of antioxidants to reduce the harmful pollutants from diesel engine using preheated palm<br>oil–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<br>Pimpinella anisum and waste cooking oil biodiesel blends. Journal of Cleaner Production, 2022, 331,<br>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<br>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<br>and emissionsÂof diesel engine fuelled with <scp>B5</scp> containing water and cerium oxide additive<br>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<br>chromatography–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<br>with blends of pre-heated linseed oil and nano additive. Journal of Cleaner Production, 2021, 283,<br>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.<br>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.<br>Energy, Environment, and Sustainability, 2021, , 235-263.   | 1.0 | 6         |
| 27 | Characteristics assessment on riveted, bonded and hybrid joints using GFRP composites. Materials<br>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<br>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<br>with Various Proportions of Jatropha Biofuel in Diesel. Energy, Environment, and Sustainability, 2021, ,<br>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<br>diesel engine with PODE/WCO blend as a high reactive fuel to achieve effective Soot-NOx trade-off.<br>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<br>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<br>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, ,<br>51-63.  |     | 6         |
| 46 | Comparative Analysis of Experimental and Simulated Performance and Emissions of Compression<br>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 | Ο         |
| 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<br>powered by biofuel oil–water emulsion. Journal of Thermal Analysis and Calorimetry, 2019, 137,<br>593-605.   | 3.6 | 61        |

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|----|---|-----|-----------|
| 55 | Novel Garcinia gummi-gutta methyl ester (GGME) as a potential alternative feedstock for existing<br>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,<br>combustion, and emission behavior on a single cylinder diesel engine. Environmental Science and<br>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 <i>Garcinia gummi-gutta</i> Methyl Ester (GGME) as a Potential Alternative Feedstock<br>for Existing Unmodified DI Diesel Engine: Combustion, Performance, and Emission Characteristics.<br>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<br>flexuosus biofuel based diesel blends in a DI diesel engine. Applied Thermal Engineering, 2017, 112,<br>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<br>engine powered by Cymbopogon flexuosus biofuel. Energy Conversion and Management, 2016, 117,<br>466-474.   | 9.2 | 140       |
| 66 | Effect of hydrogen on ethanol–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<br>Exhaust Gas Recirculation with Blend of Biodiesel and N-Heptane. Energy Sources, Part A: Recovery,<br>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<br>Oil. , 0, , .  |     | 26        |
| 72 | Synthesis of Biodiesel from Waste Cooking Oil by Alkali Doped Calcinated Waste Egg Shell Powder   |     | 14        |

Catalyst and Optimization of Process Parameters to Improve Biodiesel Conversion. , 0, , . 72

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|----|---|-----|-----------|
| 73 | A Comparative Assessment of Tailpipe Emission Characteristics on Diesel Engine Using Nanofluid with<br>R-EGR Setup. , 0, , .  |     | 4         |
| 74 | Effect of Cobalt Chromite on the Investigation of Traditional CI Engine Powered with Raw Citronella<br>Fuel for the Future Sustainable Renewable Source. SAE International Journal of Advances and Current<br>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<br>Blend. , 0, , .  |     | 1         |
| 76 | Performance Assessment of Pyramidal Lattice Core Sandwich Engine Hood for Pedestrian Safety. , 0, , .   |     | 0         |