Nagaraj Banapurmath

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/276414/publications.pdf

Version: 2024-02-01

235 papers	5,994 citations	81900 39 h-index	106344 65 g-index
237 all docs	237 docs citations	237 times ranked	2800 citing authors

#	Article	IF	Citations
1	The effect of nano-additives in diesel-biodiesel fuel blends: A comprehensive review on stability, engine performance and emission characteristics. Energy Conversion and Management, 2018, 178, 146-177.	9.2	362
2	Performance and emission characteristics of a DI compression ignition engine operated on Honge, Jatropha and sesame oil methyl esters. Renewable Energy, 2008, 33, 1982-1988.	8.9	333
3	The effects of graphene oxide nanoparticle additive stably dispersed in dairy scum oil biodiesel-diesel fuel blend on CI engine: performance, emission and combustion characteristics. Fuel, 2019, 257, 116015.	6.4	152
4	Effect of Sr@ZnO nanoparticles and Ricinus communis biodiesel-diesel fuel blends on modified CRDI diesel engine characteristics. Energy, 2021, 215, 119094.	8.8	141
5	An investigation on the influence of aluminium oxide nano-additive and honge oil methyl ester on engine performance, combustion and emission characteristics. Renewable Energy, 2020, 146, 2291-2307.	8.9	140
6	Biodegradable carboxymethyl cellulose based material for sustainable packaging application. Scientific Reports, 2020, 10, 21960.	3.3	114
7	Computational Fluid Dynamics in Turbomachinery: A Review of State of the Art. Archives of Computational Methods in Engineering, 2017, 24, 467-479.	10.2	111
8	Experimental investigations of a four-stroke single cylinder direct injection diesel engine operated on dual fuel mode with producer gas as inducted fuel and Honge oil and its methyl ester (HOME) as injected fuels. Renewable Energy, 2008, 33, 2007-2018.	8.9	109
9	Effect of Nano-Graphene Oxide and n-Butanol Fuel Additives Blended with Dieselâ€"Nigella sativa Biodiesel Fuel Emulsion on Diesel Engine Characteristics. Symmetry, 2020, 12, 961.	2.2	109
10	Experimental investigations of the performance of a flat-plate solar collector using carbon and metal oxides based nanofluids. Energy, 2021, 227, 120452.	8.8	109
11	Parallelization Strategies for Computational Fluid Dynamics Software: State of the Art Review. Archives of Computational Methods in Engineering, 2017, 24, 337-363.	10.2	106
12	Comparative performance studies of a 4-stroke CI engine operated on dual fuel mode with producer gas and Honge oil and its methyl ester (HOME) with and without carburetor. Renewable Energy, 2009, 34, 1009-1015.	8.9	102
13	Clean combustion and emissions strategy using reactivity controlled compression ignition (RCCI) mode engine powered with CNG-Karanja biodiesel. Journal of the Taiwan Institute of Chemical Engineers, 2021, 124, 116-131.	5.3	102
14	A Review on Battery Modelling Techniques. Sustainability, 2021, 13, 10042.	3.2	100
15	Combustion characteristics of a 4-stroke CI engine operated on Honge oil, Neem and Rice Bran oils when directly injected and dual fuelled with producer gas induction. Renewable Energy, 2009, 34, 1877-1884.	8.9	99
16	Effect of nozzle and combustion chamber geometry on the performance of a diesel engine operated on dual fuel mode using renewable fuels. Renewable Energy, 2016, 93, 483-501.	8.9	92
17	Study of diesel engine characteristics by adding nanosized zinc oxide and diethyl ether additives in Mahua biodieselâ€"diesel fuel blend. Scientific Reports, 2020, 10, 15326.	3.3	89
18	Engine performance and emission characteristics of palm biodiesel blends with graphene oxide nanoplatelets and dimethyl carbonate additives. Journal of Environmental Management, 2021, 282, 111917.	7.8	86

#	Article	IF	Citations
19	Effect of compression ratio, CNG flow rate and injection timing on the performance of dual fuel engine operated on honge oil methyl ester (HOME) and compressed natural gas (CNG). Renewable Energy, 2016, 93, 579-590.	8.9	83
20	Effect of Zinc Oxide Nano-Additives and Soybean Biodiesel at Varying Loads and Compression Ratios on VCR Diesel Engine Characteristics. Symmetry, 2020, 12, 1042.	2.2	79
21	Effect of injection parameters and producer gas derived from redgram stalk on the performance and emission characteristics of a diesel engine. AEJ - Alexandria Engineering Journal, 2021, 60, 3133-3142.	6.4	78
22	Enhancement in Combustion, Performance, and Emission Characteristics of a Diesel Engine Fueled with Ce-ZnO Nanoparticle Additive Added to Soybean Biodiesel Blends. Energies, 2020, 13, 4578.	3.1	76
23	Collective effect of ternary nano fuel blends on the diesel engine performance and emissions characteristics. Fuel, 2021, 293, 120420.	6.4	65
24	Effects of high-dosage copper oxide nanoparticles addition in diesel fuel on engine characteristics. Energy, 2021, 229, 120611.	8.8	64
25	Experimental investigation on compression ignition engine powered with pentanol and thevetia peruviana methyl ester under reactivity controlled compression ignition mode of operation. Case Studies in Thermal Engineering, 2021, 25, 100921.	5.7	61
26	Optimum location and influence of tilt angle on performance of solar PV panels. Journal of Thermal Analysis and Calorimetry, 2020, 141, 511-532.	3.6	56
27	Multi Ceramic Particles Inclusion in the Aluminium Matrix and Wear Characterization through Experimental and Response Surface-Artificial Neural Networks. Materials, 2021, 14, 2895.	2.9	56
28	Effect of exhaust gas recirculation, fuel injection pressure and injection timing on the performance of common rail direct injection engine powered with honge biodiesel (BHO). Energy, 2017, 139, 828-841.	8.8	55
29	Thermal Performance of Compression Ignition Engine Using High Content Biodiesels: A Comparative Study with Diesel Fuel. Sustainability, 2021, 13, 7688.	3.2	55
30	Production and utilization of renewable and sustainable gaseous fuel for power generation applications: A review of literature. Renewable and Sustainable Energy Reviews, 2014, 34, 608-627.	16.4	54
31	Paradigm shift from mechanical direct injection diesel engines to advanced injection strategies of diesel homogeneous charge compression ignition (HCCI) engines- A comprehensive review. Renewable and Sustainable Energy Reviews, 2017, 70, 369-384.	16.4	53
32	Analysis of a Robot Selection Problem Using Two Newly Developed Hybrid MCDM Models of TOPSIS-ARAS and COPRAS-ARAS. Symmetry, 2021, 13, 1331.	2.2	53
33	Performance studies on homogeneous charge compression ignition (HCCI) engine powered with alternative fuels. Renewable Energy, 2019, 132, 683-693.	8.9	51
34	Investigation on the effect of cottonseed oil blended with different percentages of octanol and suspended MWCNT nanoparticles on diesel engine characteristics. Journal of Thermal Analysis and Calorimetry, 2022, 147, 525-542.	3.6	51
35	Utilization of biodiesel/Al2O3 nanoparticles for combustion behavior enhancement of a diesel engine operated on dual fuel mode. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5897-5911.	3.6	48
36	Effect of biodiesel derived from Honge oil and its blends with diesel when directly injected at different injection pressures and injection timings in single-cylinder water-cooled compression ignition engine. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2009, 223, 31-40.	1.4	46

#	Article	IF	Citations
37	Experimental studies on performance and emission characteristics of reactivity controlled compression ignition (RCCI) engine operated with gasoline and Thevetia Peruviana biodiesel. Renewable Energy, 2020, 160, 865-875.	8.9	46
38	Performance, combustion, and emissions characteristics of a single-cylinder compression ignition engine operated on ethanolâ€"biodiesel blended fuels. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2010, 224, 533-543.	1.4	45
39	Effect of alcoholic and nano-particles additives on tribological properties of dieselâ€"palmâ€"sesameâ€"biodiesel blends. Energy Reports, 2021, 7, 1162-1171.	5.1	45
40	Synthesis and Characterization of Mechanical Properties and Wire Cut EDM Process Parameters Analysis in AZ61 Magnesium Alloy + B4C + SiC. Materials, 2021, 14, 3689.	2.9	45
41	Thermal analyses of minichannels and use of mathematical and numerical models. Numerical Heat Transfer; Part A: Applications, 2020, 77, 497-537.	2.1	43
42	Synthesis of graphene oxide nanoparticles and the influences of their usage as fuel additives on CI engine behaviors. Energy, 2022, 244, 122603.	8.8	43
43	Experimental Investigation on Effect of Carbon Nanotubes and Carbon Fibres on the Behavior of Plain Cement Mortar Composite Round Bars under Direct Tension. ISRN Nanotechnology, 2011, 2011, 1-6.	1.3	42
44	Simultaneous optimization of multiple operating engine parameters of a biodiesel-producer gas operated compression ignition (CI) engine coupled with hydrogen using response surface methodology. Renewable Energy, 2019, 139, 944-959.	8.9	40
45	Combustion and emission characteristics of a direct injection, compressionâ€ignition engine when operated on Honge oil, HOME and blends of HOME and diesel. International Journal of Sustainable Engineering, 2008, 1, 80-93.	3.5	39
46	Studies on Effect of Graphene Nanoparticles Addition in Different Levels with Simarouba Biodiesel and Diesel Blends on Performance, Combustion and Emission Characteristics of CI Engine. Arabian Journal for Science and Engineering, 2018, 43, 4793-4801.	3.0	39
47	Experimental and Simulation Studies on Waste Vegetable Peels as Bio-composite Fillers for Light Duty Applications. Arabian Journal for Science and Engineering, 2019, 44, 7895-7907.	3.0	39
48	Graphene Reinforced Natural Fiber Nanocomposites for Structural Applications. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012072.	0.6	38
49	Bio-based material from fruit waste of orange peel for industrial applications. Journal of Materials Research and Technology, 2022, 17, 3186-3197.	5.8	38
50	Investigation of the Dielectric and Thermal Properties of Non-Edible Cottonseed Oil by Infusing h-BN Nanoparticles. IEEE Access, 2020, 8, 76204-76217.	4.2	37
51	Combustion, Performance, and Emission Behaviors of Biodiesel Fueled Diesel Engine with the Impact of Alumina Nanoparticle as an Additive. Sustainability, 2021, 13, 12103.	3.2	37
52	Effect of Wood Type and Carburetor on the Performance of Producer Gas-Biodiesel Operated Dual Fuel Engines. Waste and Biomass Valorization, 2011, 2, 403-413.	3.4	35
53	A novel long term solar photovoltaic power forecasting approach using LSTM with Nadam optimizer: A case study of India. Energy Science and Engineering, 2022, 10, 2909-2929.	4.0	34
54	Waste coconut oil methyl ester with and without additives as an alternative fuel in diesel engine at two different injection pressures. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-19.	2.3	33

#	Article	IF	Citations
55	Optimization of Process Parameters in CNC Turning of Aluminum 7075 Alloy Using L27 Array-Based Taguchi Method. Materials, 2021, 14, 4470.	2.9	33
56	Feasibility study of epoxy coated Poly Lactic Acid as a sustainable replacement for river sand. Journal of Cleaner Production, 2020, 267, 121750.	9.3	33
57	Utilization of hydrogen in low calorific value producer gas derived from municipal solid waste and biodiesel for diesel engine power generation application. Renewable Energy, 2016, 99, 1253-1261.	8.9	31
58	Effect of manifold and port injection of hydrogen and exhaust gas recirculation (EGR) in dairy scum biodiesel - low energy content gas-fueled CI engine operated on dual fuel mode. International Journal of Hydrogen Energy, 2022, 47, 6873-6897.	7.1	31
59	Hydrogen Injection in a Dual Fuel Engine Fueled with Low-Pressure Injection of Methyl Ester of Thevetia Peruviana (METP) for Diesel Engine Maintenance Application. Energies, 2020, 13, 5663.	3.1	30
60	Influence of hydrogen enriched producer gas (HPG) on the combustion characteristics of a CRDI diesel engine operated on dual-fuel mode using renewable and sustainable fuels. Fuel, 2020, 270, 117575.	6.4	29
61	Effects of compression ratio, swirl augmentation techniques and ethanol addition on the combustion of CNGâ€“biodiesel in a dual-fuel engine. International Journal of Sustainable Engineering, 2014, 7, 55-70.	3.5	28
62	Effects of engine variables and heat transfer on the performance of biodiesel fueled IC engines. Renewable and Sustainable Energy Reviews, 2015, 44, 682-691.	16.4	28
63	Microstructure, Mechanical Properties, and Corrosion Behavior of Boron Carbide Reinforced Aluminum Alloy (Al-Fe-Si-Zn-Cu) Matrix Composites Produced via Powder Metallurgy Route. Materials, 2021, 14, 4315.	2.9	28
64	Modelling and Computational Experiment to Obtain Optimized Neural Network for Battery Thermal Management Data. Energies, 2021, 14, 7370.	3.1	28
65	Experimental investigations on performance and emission characteristics of Honge oil biodiesel (HOME) operated compression ignition engine. Renewable Energy, 2012, 48, 193-201.	8.9	27
66	Effect of hydrogen addition to CNG in a biodiesel-operated dual-fuel engine. International Journal of Sustainable Engineering, 2015, 8, 332-340.	3.5	27
67	Performance indicators for the optimal BTE of biodiesels with additives through engine testing by the Taguchi approach. Chemosphere, 2022, 288, 132450.	8.2	27
68	Influences of hydrogen addition from different dualâ€fuel modes on engine behaviors. Energy Science and Engineering, 2022, 10, 881-891.	4.0	27
69	Investigation of Mechanical and Physical Properties of Big Sheep Horn as an Alternative Biomaterial for Structural Applications. Materials, 2021, 14, 4039.	2.9	26
70	Artificial neural networks model for predicting the behavior of different injection pressure characteristics powered by blend of biofuelâ€nano emulsion. Energy Science and Engineering, 2022, 10, 2367-2396.	4.0	26
71	Effect of hydrogen fuel flow rate, fuel injection timing and exhaust gas recirculation on the performance of dual fuel engine powered with renewable fuels. Renewable Energy, 2018, 126, 79-94.	8.9	25
72	Investigating the performance of dish solar distiller with phase change material mixed with Al2O3 nanoparticles under different water depths. Environmental Science and Pollution Research, 2022, 29, 28115-28126.	5.3	25

#	Article	IF	Citations
73	Experimental investigation for graphene and carbon fibre in polymer-based matrix for structural applications. Journal of Applied Research and Technology, 2017, 15, 297-302.	0.9	24
74	Humidity sensing using polyaniline/polyvinyl alcohol nanocomposite blend. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012063.	0.6	24
75	Understanding the impact of fiber orientation on mechanical, interlaminar shear strength, and fracture properties of juteâ€“banana hybrid composite laminates. Polymer Composites, 2021, 42, 5475-5489.	4.6	24
76	A Study on Performance and Emission Characteristics of Diesel Engine Using Ricinus Communis (Castor Oil) Ethyl Esters. Energies, 2021, 14, 4320.	3.1	23
77	Dual fuel engines fueled with three gaseous and biodiesel fuel combinations. Biofuels, 2018, 9, 75-87.	2.4	22
78	Performance of a low heat rejection engine fuelled with low volatile Honge oil and its methyl ester (HOME). Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2008, 222, 323-330.	1.4	21
79	Comparative analysis of performance of dual fuel (DF) and homogeneous charge compression ignition (HCCI) engines fuelled with honne oil methyl ester (HOME) and compressed natural gas (CNG). Fuel, 2017, 196, 134-143.	6.4	21
80	Effect of injection parameters on performance and emission characteristics of a CRDi diesel engine fuelled with acid oil biodieselâ€“ethanol blended fuels. Biofuels, 2018, 9, 353-367.	2.4	20
81	The Combined Effect of Alcohols and Calophyllum inophyllum Biodiesel Using Response Surface Methodology Optimization. Sustainability, 2021, 13, 7345.	3.2	20
82	Effect of manifold injection of hydrogen gas in producer gas and neem biodiesel fueled CRDI dual fuel engine. International Journal of Hydrogen Energy, 2022, 47, 25913-25928.	7.1	20
83	Experimental investigation of the effect of carbon nanotubes and carbon fibres on the behaviour of plain cement composite beams. IES Journal Part A: Civil and Structural Engineering, 2011, 4, 29-36.	0.4	19
84	Experimental investigation on dish solar distiller with modified absorber and phase change material under various operating conditions. Environmental Science and Pollution Research, 2022, 29, 63248-63259.	5.3	19
85	Influence of Graphene Nano Particles and Antioxidants with Waste Cooking Oil Biodiesel and Diesel Blends on Engine Performance and Emissions. Energies, 2021, 14, 4306.	3.1	18
86	Effects of injection timing, injector opening pressure and nozzle geometry on the performance of cottonseed oil methyl ester-fuelled diesel engine. International Journal of Sustainable Engineering, 2014, 7, 82-92.	3.5	17
87	An enhancement in diesel engine performance, combustion, and emission attributes fueled with Eichhornia crassipes oil and copper oxide nanoparticles at different injection pressures. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 6501-6522.	2.3	17
88	Performance, combustion and emission characteristics of a single-cylinder, four-stroke, direct injection diesel engine operated on a dual-fuel mode using Honge oil methyl ester and producer gas derived from biomass feedstock of different origin. International Journal of Sustainable Engineering, 2014, 7, 253-268.	3.5	16
89	Honge oil methyl ester and producer gas-fuelled dual-fuel engine operated with varying compression ratios. International Journal of Sustainable Engineering, 2014, 7, 330-340.	3.5	16
90	Impact of process induced residual stresses on interlaminar fracture toughness in carbon epoxy composites. Composites Part A: Applied Science and Manufacturing, 2019, 127, 105652.	7.6	16

#	Article	IF	Citations
91	Parameter Study on Friction Surfacing of AISI316Ti Stainless Steel over EN8 Carbon Steel and Its Effect on Coating Dimensions and Bond Strength. Materials, 2021, 14, 4967.	2.9	16
92	Effect of injection timing and duration on the performance of diesel engine fueled with port injection of oxygenated fuels. Chemical Engineering Communications, 2023, 210, 1060-1072.	2.6	16
93	Performance studies of a low heat rejection engine operated on non-volatile vegetable oils with exhaust gas recirculation. International Journal of Sustainable Engineering, 2009, 2, 265-274.	3.5	15
94	Combustion and emission characteristics of a direct injection CI engine when operated on Marotti oil methyl ester and blends of Marotti oil methyl ester and diesel. International Journal of Sustainable Engineering, 2009, 2, 192-200.	3.5	15
95	Effects of single and split injection on the performance, emission and combustion attributes of a CRDI engine powered with diesel and honge biodiesel. Sustainable Energy and Fuels, 2019, 3, 2275-2286.	4.9	15
96	Computational finite element analysis of brake disc rotors employing different materials. Australian Journal of Mechanical Engineering, 2022, 20, 637-650.	2.1	15
97	Investigation of Mechanical Properties and Salt Spray Corrosion Test Parameters Optimization for AA8079 with Reinforcement of TiN + ZrO2. Materials, 2021, 14, 5260.	2.9	15
98	The Combined Effect of Al2O3 Nanofluid and Coiled Wire Inserts in a Flat-Plate Solar Collector on Heat Transfer, Thermal Efficiency and Environmental CO2 Characteristics. Arabian Journal for Science and Engineering, 2022, 47, 9187-9214.	3.0	15
99	Exploration of transient heat transfer through a moving plate with exponentially temperature-dependent thermal properties. Waves in Random and Complex Media, 0, , 1-19.	2.7	15
100	Kevlar Reinforced Polymer Matrix Composite for Structural Application. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012074.	0.6	14
101	Optimum spacing between grooved tubes: An experimental study. Journal of Mechanical Science and Technology, 2020, 34, 469-475.	1.5	14
102	Performance and emission analysis of compression ignition engine using biodiesels from Acid oil, Mahua oil, and Castor oil. Heat Transfer, 2020, 49, 858-871.	3.0	14
103	Studies on Hybrid Bio-Nanocomposites for Structural Applications. Journal of Materials Engineering and Performance, 2021, 30, 6461-6480.	2.5	14
104	Biogenesis of Silver Nanoparticles and Its Multifunctional Anti-Corrosion and Anticancer Studies. Coatings, 2021, 11, 1215.	2.6	14
105	Effect of injection timing, injector opening pressure, injector nozzle geometry, and swirl on the performance of a direct injection, compression-ignition engine fuelled with honge oil methyl ester (HOME). International Journal of Automotive Technology, 2016, 17, 35-50.	1.4	13
106	Preparation and characterization of B2SA grafted hybrid poly(vinyl alcohol) membranes for pervaporation separation of water-isopropanol mixtures. Chemical Data Collections, 2019, 22, 100245.	2.3	13
107	Alternative and Renewable Bio-based and Biodegradable Plastics. , 2019, , 2935-2954.		13
108	Performance and emission characteristic studies on CRDI diesel engine fuelled with plastic pyrolysis oil blended with ethanol and diesel. International Journal of Sustainable Engineering, 2019, 12, 262-271.	3.5	13

#	Article	IF	Citations
109	Experimental investigations of a low heat rejection (LHR) engine powered with Mahua oil methyl ester (MOME) with exhaust gas recirculation (EGR). Biofuels, 2019, 10, 747-756.	2.4	13
110	Finite element modeling of thermomechanical problems under the vehicle braking process. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2020, 3, 53-76.	2.1	13
111	Comparative Study on Effect of Hydrogen and Hydrogen Blended Compressed Natural Gas on Compression Ignition Engine Operated under Homogeneous Charge Compression Ignition and Reactivity Controlled Compression Ignition Mode of Combustion. , 0, , .		13
112	Effect of Parameters Behavior of Simarouba Methyl Ester Operated Diesel Engine. Energies, 2021, 14, 4973.	3.1	13
113	Blends of scum oil methyl ester, alcohols, silver nanoparticles and the operating conditions affecting the diesel engine performance and emission: an optimization study using Dragon fly algorithm. Applied Nanoscience (Switzerland), 2021, 11, 2415-2432.	3.1	13
114	Factors Affecting Bioethanol Production from Lignocellulosic Biomass (Calliandra calothyrsus). Waste and Biomass Valorization, 2014, 5, 963-971.	3.4	12
115	Investigation of dimensionless parameters and geometry effects on heatâ€transfer characteristics of liquid sodium flowing over a flat plate. Heat Transfer - Asian Research, 2019, 48, 62-79.	2.8	12
116	Novel fabrication of PSSAMA_Na capped silver nanoparticle embedded sodium alginate membranes for pervaporative dehydration of bioethanol. RSC Advances, 2020, 10, 22645-22655.	3.6	12
117	Effect of CNG and CBG as low reactivity fuels along with diesel and TPME as high reactivity fuels in RCCI mode of combustion by varying different loads. Materials Today: Proceedings, 2021, 47, 2491-2494.	1.8	12
118	Experimental investigations to study the effect of carbon nanotubes reinforced in cement-based matrix composite beams. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2011, 225, 17-22.	0.1	11
119	Effect of injection timing, injector opening pressure and nozzle geometry on the performance of a compression ignition engine operated on non-edible oil methyl esters from different sources. International Journal of Sustainable Engineering, 2014, 7, 71-81.	3.5	11
120	Synthesis Techniques for Preparation of Nanomaterials. , 2019, , 83-103.		11
121	Multi-Scale Study on Mechanical Property and Strength of New Green Sand (Poly Lactic Acid) as Replacement of Fine Aggregate in Concrete Mix. Symmetry, 2020, 12, 1823.	2.2	11
122	Investigating the thermal efficiency and pressure drop of a nanofluid within a micro heat sink with a new circular design used to cool electronic equipment. Chemical Engineering Communications, 2022, 209, 1035-1047.	2.6	11
123	Statistical Analysis of Polymer Nanocomposites for Mechanical Properties. Molecules, 2021, 26, 4135.	3.8	11
124	Experimental based comparative exergy analysis of a sparkâ€ignition Honda GX270 Genset engine fueled with LPG and syngas. Energy Science and Engineering, 2022, 10, 2191-2204.	4.0	11
125	Effect of particle size on thermophysical and heat transfer properties of Ag nanofluid in a radiator â€“ an experimental investigation. Inorganic and Nano-Metal Chemistry, 2023, 53, 78-92.	1.6	11
126	Combustion characteristics of a four-stroke CI engine operated on Honge and Jatropha oil methyl esterâ€“ethanol blends when directly injected and dual fuelled with CNG induction. International Journal of Sustainable Engineering, 2011, 4, 145-152.	3.5	10

#	Article	IF	Citations
127	Development of cooling and cleaning systems for enhanced gas quality for 3.7 kW gasifier-engine integrated system. International Journal of Engineering, Science and Technology, 2016, 8, 43-56.	0.6	10
128	Experimental Studies on the Use of Pyrolysis Oil for Diesel Engine Applications and Optimization of Engine Parameters of Injection Timing, Injector Opening Pressure and Injector Nozzle Geometry. Arabian Journal for Science and Engineering, 2018, 43, 4517-4530.	3.0	10
129	The potential of nanoparticle additives in biodiesel: A fundamental outset. AIP Conference Proceedings, 2020, , .	0.4	10
130	Electrical and mechanical properties of flexible multiwalled carbon nanotube/poly (dimethylsiloxane) based nanocomposite sheets. Journal of Environmental Chemical Engineering, 2021, 9, 106550.	6.7	10
131	Thermal Performance Study of Solar Air Dryers for Cashew Kernel: A Comparative Analysis and Modelling Using Response Surface Methodology (RSM) and Artificial Neural Network (ANN). International Journal of Photoenergy, 2022, 2022, 1-18.	2.5	10
132	A predictive tool to evaluate braking system performance using a fully coupled thermo-mechanical finite element model. International Journal on Interactive Design and Manufacturing, 2020, 14, 225-253.	2.2	9
133	Combustion and emission characteristics of a compression ignition engine operated on dual fuel mode using renewable and sustainable fuel combinations. SN Applied Sciences, 2021, 3, 1.	2.9	9
134	Fabrication and Physicochemical Study of B2SA-Grafted Poly(vinyl Alcohol)â€“Graphene Hybrid Membranes for Dehydration of Bioethanol by Pervaporation. Membranes, 2021, 11, 110.	3.0	9
135	Effect of Injection Timing and Injection Duration of Manifold Injected Fuels in Reactivity Controlled Compression Ignition Engine Operated with Renewable Fuels. Energies, 2021, 14, 4621.	3.1	9
136	Development and Characterization of Biocompatible Membranes from Natural Chitosan and Gelatin for Pervaporative Separation of Waterâ€“Isopropanol Mixture. Polymers, 2021, 13, 2868.	4.5	9
137	Experimental and Numerical Validation on the Utilization of Polymer Based Nano-Composites for Structural Applications Using FEA Software Tool. Materials Focus, 2017, 6, 685-690.	0.4	9
138	Blends of karanja and jatropha biodiesels for diesel engine applications. International Journal of Sustainable Engineering, 2012, 5, 252-264.	3.5	8
139	Studies on the use of low-volatile non-edible oils in a thermal barrier-coated diesel engine. International Journal of Sustainable Engineering, 2014, 7, 341-351.	3.5	8
140	Biological synthesis and characterization of tri- metallic alloy (Au Ag, Sr) nanoparticles and its sensing studies. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012054.	0.6	8
141	Comparative study of various biofuel combinations derived from agricultural residues on the performance and emissions of CI engine. International Journal of Sustainable Engineering, 2020, 13, 140-150.	3.5	8
142	Combined Effect of Synthesized Waste Milk Scum Oil Methyl Ester and Ethanol Fuel Blend on the Diesel Engine Characteristics. Journal of the Institution of Engineers (India): Series C, 2020, 101, 947-962.	1.2	8
143	Nanoceramic Composites for Nuclear Radiation Attenuation. Materials, 2022, 15, 262.	2.9	8
144	Fuel efficiency improvement of a dual-fuel engine fuelled with Honge oil methyl ester (HOME)â€“bioethanol and producer gas. International Journal of Sustainable Engineering, 2014, 7, 269-282.	3.5	7

#	Article	IF	Citations
145	Synthesis and Characterization of Nano Strontium Ferrite and its gas sensing studies. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012055.	0.6	7
146	Experimental investigation on physical and thermal properties of graphite nanofluids. AIP Conference Proceedings, 2018, , .	0.4	7
147	Development of Neem Based Bioplastic for Food Packaging Application. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012052.	0.6	7
148	Flyash and carbon fibers reinforced aluminum-based matrix composite for structural applications. IOP Conference Series: Materials Science and Engineering, 2020, 872, 012160.	0.6	7
149	Enhancement of mechanical properties by the reinforcement of Fly ash in aluminium metal matrix composites. Materials Today: Proceedings, 2020, 24, 1654-1659.	1.8	7
150	Effect of Producer Gas from Redgram Stalk and Combustion Chamber Types on the Emission and Performance Characteristics of Diesel Engine. Energies, 2021, 14, 5879.	3.1	7
151	Life improvement programme of producer gasâ€“biodiesel operated dual fuel engines. International Journal of Sustainable Engineering, 2012, 5, 350-356.	3.5	6
152	Effect of Nanoparticle Reinforcement in Metal Matrix for Structural Applications. Materials Today: Proceedings, 2017, 4, 9552-9556.	1.8	6
153	Pre- and post-combustion emission reduction techniques for engine fuelled with diesel/DEE blends by three approaches. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2021, 43, 1706-1723.	2.3	6
154	Effect of injection timing on the performance of Ceiba Pentandra biodiesel powered dual fuel engine. Materials Today: Proceedings, 2022, 49, 1756-1761.	1.8	6
155	Elimination of Hazard Cadmium Ions from Simulated Groundwater Using Hydroxyapatite Coated Filter Cake Made of Sewage Sludge and Cement Kiln Dust. Journal of Polymers and the Environment, 2022, 30, 1478-1490.	5.0	6
156	Numerical analysis and machine learning for battery thermal performance cooled with different fluids. International Journal of Energy Research, 2022, 46, 21452-21466.	4.5	6
157	Effect of injection timing and injection pressure on the performance of biodiesel ester of hongeoil fuelled common rail direct injection (CRDI) engine. International Journal of Engineering, Science and Technology, 2016, 7, 37.	0.6	5
158	Effect of engine variables on combustion characteristics of a dual fuel engine powered by neem oil methyl ester and producer gas. International Journal of Ambient Energy, 2019, , 1-13.	2.5	5
159	Study of the effect of nanocomposite thin film coating on cutting tool tip for tribological applications. Materials Today: Proceedings, 2020, 27, 37-39.	1.8	5
160	Comparative Analysis of Performance, Emission, and Combustion Characteristics of a Common Rail Direct Injection Diesel Engine Powered with Three Different Biodiesel Blends. Energies, 2021, 14, 5597.	3.1	5
161	Performance, Emission and Combustion Characteristics of Dual Fuel (DF) Engine Fuelled with Hydrogen Induction and Injection of Honne and Honge Methyl Esters. Energy and Power Engineering, 2015, 07, 384-395.	0.8	5
162	Effect of mixing chamber venturi, injection timing, compression ratio and EGR on the performance of dual-fuel engine operated with HOME and CNG. International Journal of Sustainable Engineering, 2012, 5, 265-279.	3.5	4

#	Article	IF	Citations
163	Performance evaluation of common rail direct injection (CRDI) engine fuelled with Uppage Oil Methyl Ester (UOME). International Journal of Renewable Energy Development, 2015, 4, 1-10.	2.4	4
164	Studies on the effect of multi-walled carbon nanotubeâ€“reinforced polymer-based nano-composites using finite element analysis software tool. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2016, 230, 200-212.	0.6	4
165	Combustion and exhaust emissions study in a single-cylinder four-stroke diesel engine with swirl augmentation techniques. Biofuels, 2018, 9, 489-502.	2.4	4
166	Performance and emission characteristics of a CNG-Biodiesel dual fuel operation of a single cylinder four stroke CI engine. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012028.	0.6	4
167	Development and characterization of silicon carbide incorporated graphene amine-based polymer nanocomposites for structural applications. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012073.	0.6	4
168	Effect of combustion geometry on combustion, performance and emission characteristics of CI engine using simarouba oil methyl ester. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012001.	0.6	4
169	Performance, emission and combustion characteristics of a multicylinder common rail direct injection diesel engine fuelled with ethanol-acid oil methyl ester-diesel blends. Biofuels, 2020, 11, 109-120.	2.4	4
170	Impact of injection timing on simarouba seed oil-fueled CI engine. Materials Today: Proceedings, 2021, 46, 4878-4883.	1.8	4
171	Performance and emissions evaluation of diesel engine fueled with exhaust gas energy preheated CAOME biodiesel. Materials Today: Proceedings, 2021, 45, 290-293.	1.8	4
172	Performance and emission characteristics of a diesel engine operated on diverse modes using renewable and sustainable fuels derived from dairy scum and municipal solid waste. Materials Today: Proceedings, 2021, 47, 2592-2597.	1.8	4
173	Feasibility studies on bio composites using PLA and Epoxy for structural applications.. IOP Conference Series: Materials Science and Engineering, 2021, 1070, 012048.	0.6	4
174	Effect of hydrogen flow rates on the performance of two biodiesels fuelled dual fuel engine. Materials Today: Proceedings, 2022, 49, 2189-2196.	1.8	4
175	Optimization of Piston Grooves, Bridges on Cylinder Head, and Inlet Valve Masking of Home-Fueled Diesel Engine by Response Surface Methodology. Sustainability, 2021, 13, 11411.	3.2	4
176	Effects of EGR, swirl augmentation techniques on combustion of biodiesel/ethanol and their blends in a diesel engine. International Journal of Sustainable Engineering, 2013, 6, 55-65.	3.5	3
177	Injection timing effect on the performance of diesel engine fueled with acid oil methyl ester. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012002.	0.6	3
178	Fuel efficiency enhancement of modified diesel engine operated in dual fuel mode using renewable and sustainable fuels. International Journal of Sustainable Engineering, 2019, 12, 248-261.	3.5	3
179	Determination of residual stresses in GFRP composite using incremental slitting method by the aid of strain gauge. AIP Conference Proceedings, 2019, , .	0.4	3
180	Enhancement of open circuit voltage of CdTe solar cell. Materials Today: Proceedings, 2020, 27, 117-119.	1.8	3

#	Article	IF	Citations
181	Biodiesels powered in-cylinder common rail direct injection (CRDi) Assisted Homogeneous Charge Compression Ignition (HCCI) engine. International Journal of Sustainable Engineering, 2021, 14, 147-161.	3.5	3
182	Role of Nano-Sized Graphene Amine Reinforcements in Mechanical Properties of AA7076 Based MMCs. Micro and Nanosystems, 2021, 13, 284-291.	0.6	3
183	Influence of Combustion Chamber Shapes and Nozzle Geometry on Performance, Emission, and Combustion Characteristics of CRDI Engine Powered with Biodiesel Blends. Sustainability, 2021, 13, 9613.	3.2	3
184	Influence of hydrogen and exhaust gas recirculation on the performance and emission characteristics of a diesel engine operated on dual fuel mode using dairy scum biodiesel and low calorific value gas. Materials Today: Proceedings, 2021, , .	1.8	3
185	Production, Characterization, and Antimicrobial Activity of Pigment from Streptomyces Species. Journal of Nanomaterials, 2022, 2022, 1-8.	2.7	3
186	Fabrication and Characterization of Poly(vinyl alcohol)-chitosan-capped Silver Nanoparticle Hybrid Membranes for Pervaporation Dehydration of Ethanol. Gels, 2022, 8, 401.	4.5	3
187	Comparative study on effect of blending, thermal barrier coating (LHR) on UOME biodiesel fuelled engine. International Journal of Engineering, Science and Technology, 2016, 7, 54-69.	0.6	2
188	Effects of combustion chamber profile on direct injection diesel engine operated with SuOME. AIP Conference Proceedings, 2019, , .	0.4	2
189	Significance of injection pressure on the overall performance of common rail direct injection engine using dairy scum oil methyl esters. International Journal of Ambient Energy, 2022, 43, 2260-2270.	2.5	2
190	Experimental investigation of a CRDI engine in terms of performance and emission under the effect of injection strategy using a moderate percentage of plastic pyrolysis oil and its blends with diesel and ethanol. Biofuels, 2021, 12, 459-473.	2.4	2
191	Experimental investigation on CI engine with jatropha biodiesel-hydrogen peroxide blends. IOP Conference Series: Materials Science and Engineering, 2021, 1070, 012102.	0.6	2
192	Study of Crack Filling Nano-Cement Composite Material for Structural Application. Materials Focus, 2017, 6, 407-411.	0.4	2
193	Impact of injection timing (IT) on dual fuel engine fuelled with waste cooking oil methyl ester and producer gas. Materials Today: Proceedings, 2022, 52, 452-456.	1.8	2
194	Influence of ZrO₂ nano particles on the behavior of mechanical and tribological properties of the AA7075 composite. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2022, 236, 55-62.	0.6	2
195	Influence of piston bowl geometry on the performance and emission characteristics of a diesel engine operated on single fuel mode using dairy scum oil biodiesel. Materials Today: Proceedings, 2022, 52, 1223-1227.	1.8	2
196	Experimental Investigation on RCCI Engine Operated with Dairy Scum Oil Methyl Ester and Producer Gas. Springer Proceedings in Energy, 2022, , 695-706.	0.3	2
197	The Investigation of Mixed Ferrofluids Containing Iron Oxide nanoparticles and Microspheres. Advances in Materials Science and Engineering, 2021, 2021, 1-11.	1.8	2
198	Investigation of flexural properties of epoxy composite by utilizing graphene nanofillers and natural hemp fibre reinforcement. Polymers and Polymer Composites, 2022, 30, 096739112210936.	1.9	2

#	Article	IF	Citations
199	Effect of Injection Parameters on the Performance of Compression Ignition Engine Powered with Jamun Seed and Cashew Nutshell B20 Biodiesel Blends. Sustainability, 2022, 14, 4642.	3.2	2
200	Functional miscibility and thermomechanical properties enhancement of substituted phthalic acetylated modified chitin filler in biopolymer composite. Royal Society Open Science, 2022, 9, .	2.4	2
201	Experimental investigation on the study of mechanical and microstructural properties of hybrid composite cement beams reinforced with multi-walled carbon nanotubes and carbon fibres. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2012, 226, 135-142.	0.1	1
202	CNG-HOME operated dual fuel and HCCI engines. , 2014, , .		1
203	Effect of bioethanol and thermal barrier coating on the performance of dual fuel engine operating on Honge oil methyl ester (HOME) and producer gas induction. International Journal of Sustainable Engineering, 2015, 8, 349-365.	3.5	1
204	Comparative study on effect of blending, thermal barrier coating (LHR) and injector nozzle geometry on biodiesel-fuelled engines. International Journal of Sustainable Engineering, 2016, 9, 206-214.	3.5	1
205	Optimisation of nozzle geometry in the modified common rail direct injection biodiesel-fuelled diesel engine. International Journal of Ambient Energy, 2019, , 1-9.	2.5	1
206	Study of the surfactants role in natural fibres reinforced composites for structural applications. IOP Conference Series: Materials Science and Engineering, 2019, 577, 012182.	0.6	1
207	Power Generation From Renewable Energy Sources Derived From Biodiesel and Low Energy Content Producer Gas for Rural Electrification. , 2019, , 151-194.		1
208	Ultra-light polymer-based nano-composite for structural applications. Materials Today: Proceedings, 2020, 27, 32-36.	1.8	1
209	Analysis of the effect of sputter power on the morphological and mechanical characteristics of titanium thin films deposited on high-speed steel (HSS). Materials Today: Proceedings, 2020, 27, 59-61.	1.8	1
210	Effects of piston and cylinder swirl generation on the performance of ceiba pentandra and nigella sativa B20 biodiesel blended diesel engine operation. IOP Conference Series: Materials Science and Engineering, 2021, 1070, 012132.	0.6	1
211	Experimental investigations on high pressure assisted waste mix cooking oil powered biodiesel fuelled CRDI engine and injection parameter studies. IOP Conference Series: Materials Science and Engineering, 2021, 1070, 012119.	0.6	1
212	Combustion of Jatropha curcas Oil, Methyl Esters and Blends with Diesel or Ethanol in a CI Engine. , 2012, , 557-569.		1
213	Effect of Mix waste cooking-oil biodiesel on performance and exhaust emissions of a CRDI engine. Journal of Physics: Conference Series, 2020, 1473, 012035.	0.4	1
214	Tribological studies on bearings coated with titanium carbo-nitride (TiCN) using chemical vapour deposition (Cvd) method. Journal of Applied Research and Technology, 2018, 16, .	0.9	1
215	Multiple Optimizations of Engine Parameters of Single-Cylinder Four-Stroke Direct Injection Diesel Engine Operated on Dual Fuel Mode Using Biodiesel-Treated and Untreated Biogas Combination. Lecture Notes in Mechanical Engineering, 2021, , 765-793.	0.4	1
216	Comparative Study of the Mechanical and Water Absorption Behaviour of Basalt Fiber Reinforced Polymer Matrix Composites with Different Epoxies as Matrix for Biomedical Applications. Advances in Materials Science and Engineering, 2021, 2021, 1-9.	1.8	1

#	Article	IF	Citations
217	Heat transfer rates in hot shell, cold tube inclined baffled small shell, and tube heat exchanger using CFD and experimental approach. Journal of Engineering Research, 2021, 9, .	0.7	1
218	Diesel engine performance fuelled with manifold injection of ethanol and water-in-diesel emulsion blends. Materials Today: Proceedings, 2022, 66, 1914-1919.	1.8	1
219	Effects of residual stresses on interlaminar radial strength of Glass-Epoxy L-bend composite laminates. Frattura Ed Integrita Strutturale, 2022, 16, 140-153.	0.9	1
220	Preparation of polymer electrolyte hydrogels using poly(vinyl alcohol) and tetraethylorthosilicate for battery applications. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012078.	0.6	0
221	Effective Utilization of Waste Heat from Engine Exhaust Gas for Preheating the Fuel to Enhance the Performance of Diesel Engine. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012090.	0.6	0
222	Fabrication and development of magnetically actuated PDMS micropump for drug delivery. IOP Conference Series: Materials Science and Engineering, 2018, 376, 012128.	0.6	0
223	Computational design of lattice structures with trabecular bone architecture of pre-historic dinosaurs. AIP Conference Proceedings, 2021, , .	0.4	0
224	Synthesis and characterisation of iron oxide (Fe3O4) ferrofluid nanoparticles coated by poly (vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	0
225	Design optimization of strain gauge mounting cross section length of strain gauge balance component for wind tunnel application. Materials Today: Proceedings, 2021, , .	1.8	0
226	Development of Structural Coating Material for Cement Composites Using GGBS, Multi Walled Carbon Nano Tubes and Carbon Fibers. Materials Focus, 2018, 7, 108-113.	0.4	0
227	Polyaniline Synthesis and Its Wide-Range Sensor and Electronic Applications. , 2019, , 1267-1292.		0
228	Nanocomposites for Structural and Energy Applications. , 2019, , 833-854.		0
229	Effect of Injector Opening Pressures on the Performance of Diesel Engine Fuelled with Acid Oil Methyl Ester. International Journal of Recent Technology and Engineering, 2019, 8, 4065-4069.	0.2	0
230	Performance, Combustion and Emission Characteristics of Direct Injection Diesel Engine Fueled With Castor Oil Methyl Esters and Ethanol Blends Equipped With 6 Hole Nozzle. International Journal of Recent Technology and Engineering, 2019, 8, 5527-5530.	0.2	0
231	Influence of Combustion Chamber Geometry on the Combustion and Emission Characteristics of a Direct Injection Diesel Engine Operated on Renewable and Sustainable Fuel Derived from Diary Scum Waste. International Journal of Engineering and Advanced Technology, 2019, 9, 2429-2439.	0.3	0
232	Development of Bio-Material (Tiger Grass-Reinforced Gaur Gum Matrix Composite) for an Alternative Bio-Based Cutlery for Food Service Applications. Lecture Notes in Mechanical Engineering, 2021, , 247-259.	0.4	0
233	Effect of piston and cylinder head swirl generation techniques on the performance of ceiba pentandra and nigella sativa B20 biodiesel blended diesel engine operation. Materials Today: Proceedings, 2021, , .	1.8	0
234	Effect of injection timing on the performance of CRDI diesel engine fuelled with fish oil biodiesel and its blends doped with pyrogallol antioxidants. Journal of Mines, Metals and Fuels, 2022, 69, 48.	0.1	0

#	Article	IF	Citations
235	Performance and emissions analysis of diesel engine fuelled with exhaust gas energy preheated ROME biodiesel. Journal of Mines, Metals and Fuels, 2022, 69, 175.	0.1	0