

A comprehensive review of low cost biodiesel production

Renewable and Sustainable Energy Reviews

82, 390-401

DOI: [10.1016/j.rser.2017.09.039](https://doi.org/10.1016/j.rser.2017.09.039)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Hydrocarbon Rich Liquid Fuel Produced by Co-pyrolysis of Sugarcane Bagasse and Rubber Seed Oil Using Aluminosilicates Derived from Rice Husk Silica and Aluminum Metal as Catalyst. <i>Oriental Journal of Chemistry</i> , 2017, 33, 3218-3224.	0.1	3
2	Effect of emission from ethylic biodiesel of edible and non-edible vegetable oil, animal fats, waste oil and alcohol in CI engine. <i>Energy Conversion and Management</i> , 2018, 166, 704-718.	4.4	160
3	Magnetic and reusable MgO/MgFe ₂ O ₄ nanocatalyst for biodiesel production from sunflower oil: Influence of fuel ratio in combustion synthesis on catalytic properties and performance. <i>Industrial Crops and Products</i> , 2018, 117, 322-332.	2.5	133
4	An analysis of liquid-biofuel production potential from agricultural residues and animal fat (case) Tj ETQq1 1 0.784314 rgBT /Overlock	4.6	54
5	Kinetic modeling of catalytic esterification of non-edible macauba pulp oil using macroporous cation exchange resin. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4531-4537.	3.3	10
6	Eggshell as heterogeneous catalyst for synthesis of biodiesel from high free fatty acid chicken fat and its working characteristics on a CI engine. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 4490-4503.	3.3	47
7	Application of microwave irradiation for fabrication of sulfated ZrO ₂ –Al ₂ O ₃ nanocomposite via combustion method for esterification reaction: process condition evaluation. <i>Journal of Nanostructure in Chemistry</i> , 2019, 9, 141-152.	5.3	20
8	Methyl ester production from palm fatty acid distillate (PFAD) using sulfonated cow dung-derived carbon-based solid acid catalyst. <i>Energy Conversion and Management</i> , 2019, 196, 1306-1315.	4.4	49
9	Effect of Dominant Fatty Acid Esters on Emission Characteristics of Waste Animal Fat Biodiesel in CI Engine. <i>Frontiers in Energy Research</i> , 2019, 7, .	1.2	18
10	Reactor technologies for biodiesel production and processing: A review. <i>Progress in Energy and Combustion Science</i> , 2019, 74, 239-303.	15.8	330
11	Review on transesterification of non-edible sources for biodiesel production with a focus on economic aspects, fuel properties and by-product applications. <i>Energy Conversion and Management</i> , 2019, 201, 112155.	4.4	246
12	Biodiesel production from beef tallow using the barium oxide catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 128, 723-738.	0.8	9
13	Prospects and Potential of Calophyllum Inophyllum as a Renewable Feedstock for Biodiesel Production. , 2019, , 45-60.		1
15	Mathematical modeling of transesterification process kinetics of triglycerides catalyzed by TMAH. <i>MATEC Web of Conferences</i> , 2019, 292, 01027.	0.1	0
16	Evaluation of the oxidative stability and cold filter plugging point of soybean methyl biodiesel/bovine tallow methyl biodiesel blends. <i>Industrial Crops and Products</i> , 2019, 140, 111667.	2.5	27
17	Biodiesel from waste frying oils: Methods of production and purification. <i>Energy Conversion and Management</i> , 2019, 184, 205-218.	4.4	137
18	Valorization of Rendering Fats to Produce Biodiesel by Single and Multi Orifice Plate Cavitation Reactor. <i>Waste and Biomass Valorization</i> , 2019, 10, 3773-3780.	1.8	6
19	Study on catalyst selection for electrochemical valorization of glycerol. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1892-1915.	2.5	90

#	ARTICLE	IF	CITATIONS
20	Effects of cottonseed oil and ferrous sulfate on the performance and expression of antioxidant enzymes in broilers. <i>Poultry Science</i> , 2019, 98, 3860-3869.	1.5	5
21	Current and Future Perspectives on Lipid-Based Biofuels. <i>Biofuel and Biorefinery Technologies</i> , 2019, , 387-429.	0.1	2
22	A review of the effect of biodiesel on gas turbine emissions and performance. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 105, 129-137.	8.2	33
23	Free fatty acids esterification catalyzed by acid Faujasite type zeolite. <i>RSC Advances</i> , 2019, 9, 4900-4907.	1.7	22
24	Investigation of aircraft engine performance utilizing various alternative fuels. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 642, 012008.	0.3	2
25	Combustion, performances, and emissions characteristics of <i>Hermetia illucens</i> larvae oil in a direct injection compression ignition engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, 41, 1483-1496.	1.2	8
26	Comparative effect of reaction time on biodiesel production from low free fatty acid beef tallow: a definition of product yield. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	35
27	A coupled electromagnetic-thermal-fluid-kinetic model for microwave-assisted production of Palm Fatty Acid Distillate biodiesel. <i>Applied Energy</i> , 2019, 237, 457-475.	5.1	28
28	Application of nanoparticles in biofuels: An overview. <i>Fuel</i> , 2019, 237, 380-397.	3.4	268
29	Combustion, performance, and emission characteristics of dairy-washed milk scum biodiesel in a dual cylinder compression ignition engine. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 2873-2890.	1.2	12
30	Synergies between the microwave reactor and CaO/zeolite catalyst in waste lard biodiesel production. <i>Renewable Energy</i> , 2020, 145, 2550-2560.	4.3	103
31	Unlocking the potential of walnut husk extract in the production of waste cooking oil-based biodiesel. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109588.	8.2	37
32	Deterioration potential of <i>Aureobasidium pullulans</i> on biodiesel, diesel, and B20 blend. <i>International Biodeterioration and Biodegradation</i> , 2020, 147, 104839.	1.9	5
33	Liquid lipase-mediated production of biodiesel from agroindustrial waste. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 30, 101864.	1.5	14
34	Emission and performance analysis of thermochemical conversion of bio-oil using waste animal fat. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	21
35	<i>Turritella terebra&/i> Shell Synthesized Calcium Oxide Catalyst for Biodiesel Production from Chicken Fat. <i>Materials Science Forum</i> , 0, 997, 93-101.	0.3	6
36	Biodiesel synthesis from swine manure. <i>Bioresource Technology</i> , 2020, 317, 124032.	4.8	9
37	Management of animal fat-based biodiesel supply chain under the paradigm of sustainability. <i>Energy Conversion and Management</i> , 2020, 225, 113345.	4.4	40

#	ARTICLE	IF	CITATIONS
38	Production of methyl esters from waste cooking oil and chicken fat oil via simultaneous esterification and transesterification using acid catalyst. <i>Energy Conversion and Management</i> , 2020, 226, 113366.	4.4	31
39	Strategies for Sustainable Substitution of Livestock Meat. <i>Foods</i> , 2020, 9, 1227.	1.9	37
40	Performance and emission analysis of high purity biodiesel blends in diesel engine. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402097415.	0.8	6
41	Production of Biodiesel from Brown Grease. <i>Catalysts</i> , 2020, 10, 1189.	1.6	21
42	Biodiesel production via simultaneous esterification and transesterification of chicken fat oil by mesoporous sulfated Ce supported activated carbon. <i>Biomass and Bioenergy</i> , 2020, 141, 105714.	2.9	41
43	Potential of fat, oil and grease (FOG) for biodiesel production: A critical review on the recent progress and future perspectives. <i>Progress in Energy and Combustion Science</i> , 2020, 81, 100868.	15.8	202
44	Trends in Biodiesel Production from Animal Fat Waste. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3644.	1.3	98
45	Fabrication of sulfated spinel nickel aluminate for biofuel production: influence of Ni/Al ratio on its activity. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1981-1995.	1.6	2
46	Enzymatic production of methyl esters from low-cost feedstocks. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 24, 101558.	1.5	21
47	Experimental investigation on pressure and heat release HCCI engine operated with chicken fat oil/diesel-gasoline blends. <i>Materials Today: Proceedings</i> , 2020, 32, 437-444.	0.9	17
48	Chemical and rheological assessment of produced biolubricants from different vegetable oils. <i>Fuel</i> , 2020, 271, 117578.	3.4	70
49	Conversion of waste frying palm oil into biodiesel using free lipase A from <i>Candida antarctica</i> as a novel catalyst. <i>Fuel</i> , 2020, 267, 117323.	3.4	70
50	Recycling of kebab restoration grease for bioenergy production through acoustic cavitation. <i>Renewable Energy</i> , 2020, 155, 1147-1155.	4.3	4
51	Effectiveness of biogenic waste-derived heterogeneous catalysts and feedstock hybridization techniques in biodiesel production. <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 620-649.	1.9	51
52	Production of Biodiesel and High-Protein Feed from Fish Processing Wastes Using In Situ Transesterification. <i>Molecules</i> , 2020, 25, 1650.	1.7	9
53	Investigation of the Role of Egg Membrane in CaO Synthesis and Methods for Stable Composites Syntheses. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 6229-6242.	1.7	1
54	Tosylated cloisite as a new heterofunctional carrier for covalent immobilization of lipase and its utilization for production of biodiesel from waste frying oil. <i>Renewable Energy</i> , 2021, 164, 876-888.	4.3	71
55	Optimization of the Mass Yield in the Biodiesel Production from Chicken Viscera Oil. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2021, 98, 31-41.	0.8	0

#	ARTICLE	IF	CITATIONS
56	Food waste valorization: Energy production using novel integrated systems. <i>Bioresource Technology</i> , 2021, 322, 124538.	4.8	36
57	Process optimization of biodiesel production from waste cooking oil by esterification of free fatty acids using La ³⁺ /ZnO-TiO ₂ photocatalyst. <i>Energy Conversion and Management</i> , 2021, 229, 113745.	4.4	78
58	Modelling, simulation and intensification of the hydroprocessing of chicken fat to produce renewable aviation fuel. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 159, 108250.	1.8	17
59	Experimental study into the effect of the second-generation BBUe biofuel use on the diesel engine parameters and exhaust composition. <i>Fuel</i> , 2021, 284, 118982.	3.4	17
60	Characterisation and utilization of heterogeneous catalyst from waste rice-straw for biodiesel conversion. <i>Fuel</i> , 2021, 287, 119543.	3.4	29
61	Lipase Cocktail for Optimized Biodiesel Production of Free Fatty Acids from Residual Chicken Oil. <i>Catalysis Letters</i> , 2021, 151, 1155-1166.	1.4	31
62	Conversion of food waste into biofuel and biocarbon. , 2021, , 383-449.		1
63	Experimental Study on the Combustion, Performance and Emission Characteristics of a Diesel Engine Operated with the Blends of Waste Chicken Oil Biodiesel and Diesel. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 143-154.	0.3	1
64	Biodiesel production from slaughter wastes of broiler chicken: a potential survey in Iran. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	15
65	Green synthesis of nanoparticlesâ€”metals and their oxides. , 2021, , 79-96.		1
66	Process Modelling and Simulation of Biodiesel Synthesis Reaction for Non-edible Yellow Oleander (Yellow Bells) Oil and Waste Chicken Fat. <i>Clean Energy Production Technologies</i> , 2021, , 129-160.	0.3	1
67	Application of nanotechnology for biofuel production. , 2021, , 149-172.		4
68	Valorization of poultry slaughterhouse sludge oil: a strategy to reduce Brazilâ€™s dependency on soybean oil in the biodiesel industry. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 2177-2189.	1.2	2
69	Optimisation and characterisation studies of biodiesel production from black soldier fly larvae fed by soya residue. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 980, 012057.	0.3	2
70	Experimental investigation on slaughter, fish waste and poultry excrete oil as fuel blends in diesel engine. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	13
71	An Agro-Industrial Complex Fat-Containing Wastes Synthesis Technology in Ecological Biofuel. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 361-370.	0.3	22
72	Research on the combustion process in the Fiat 1.3 Multijet engine fueled with rapeseed methyl esters. <i>Open Engineering</i> , 2021, 11, 535-547.	0.7	2
73	An Experimental Investigation on the Effect of Ferrous Ferric Oxide Nano-Additive and Chicken Fat Methyl Ester on Performance and Emission Characteristics of Compression Ignition Engine. <i>Symmetry</i> , 2021, 13, 265.	1.1	13

#	ARTICLE	IF	CITATIONS
74	Recycling of biogenic hydroxyapatite (HAP) for cleaning of lead from wastewater: performance and mechanism. <i>Environmental Science and Pollution Research</i> , 2021, 28, 29509-29520.	2.7	6
75	Study of Indicators of CI Engine Running on Conventional Diesel and Chicken Fat Mixtures Changing EGR. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1411.	1.3	8
76	Enhanced ultrasonic assisted biodiesel production from meat industry waste (pig tallow) using green copper oxide nanocatalyst: Comparison of response surface and neural network modelling. <i>Renewable Energy</i> , 2021, 164, 897-907.	4.3	54
77	Selectivity of the First Two Glycerol Dehydrogenation Steps Determined Using Scaling Relationships. <i>ACS Catalysis</i> , 2021, 11, 3487-3497.	5.5	19
78	Maximizing biodiesel production from high free fatty acids feedstocks through glycerolysis treatment. <i>Biomass and Bioenergy</i> , 2021, 146, 105997.	2.9	22
79	The Study on Factors Affecting the Synthesis of Methyl Ester Sulfonate from Palm Oil using CaO Catalyst with Microwave-Assisted. <i>Journal of Physics: Conference Series</i> , 2021, 1845, 012004.	0.3	2
80	Engine's behaviour on magnetite nanoparticles as additive and hydrogen addition of chicken fat methyl ester fuelled DICl engine: A dual fuel approach. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 14824-14843.	3.8	32
81	A Multi-Objective Approach toward Optimal Design of Sustainable Integrated Biodiesel/Diesel Supply Chain Based on First- and Second-Generation Feedstock with Solid Waste Use. <i>Energies</i> , 2021, 14, 2261.	1.6	12
82	Sustainable enzymatic technologies in waste animal fat and protein management. <i>Journal of Environmental Management</i> , 2021, 284, 112040.	3.8	20
83	Impact of HHO gas enrichment and high purity biodiesel on the performance of a 315Âcc diesel engine. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19633-19644.	3.8	15
84	Research of Parameters of a Compression Ignition Engine Using Various Fuel Mixtures of Hydrotreated Vegetable Oil (HVO) and Fatty Acid Esters (FAE). <i>Energies</i> , 2021, 14, 3077.	1.6	10
85	A review of magnetic solid catalyst development for sustainable biodiesel production. <i>Biomass and Bioenergy</i> , 2021, 149, 106099.	2.9	35
86	Parametric evaluation of B20 blend of mahua biodiesel with nanomaterial additives. <i>Materials Today: Proceedings</i> , 2021, , .	0.9	2
88	Statistical and Continuous Wavelet Transformation-Based Analysis of Combustion Instabilities in a Biodiesel-Fueled Compression Ignition Engine. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	1.4	17
89	Experimental Study of Fuel Consumption and Exhaust Gas Composition of a Diesel Engine Powered by Biodiesel from Waste of Animal Origin. <i>Energies</i> , 2021, 14, 3472.	1.6	12
90	Evaluation on feedstock, technologies, catalyst and reactor for sustainable biodiesel production: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 60-81.	2.9	127
91	Experimental and mathematical nonlinear rheological characterization of chicken fat oil-a sustainable feedstock for biodiesel. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 7043-7050.	2.9	5
92	Comparative assessment of performance, combustion, and emission of compression ignition engine fuelled with different generations of biodiesel. <i>International Journal of Sustainable Engineering</i> , 0, , 1-15.	1.9	6

#	ARTICLE	IF	CITATIONS
93	An effective green and renewable heterogeneous catalyst derived from the fusion of biâ€component biowaste materials for the optimized transesterification of linseed oil methyl ester. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 1461-1472.	1.9	11
95	A comprehensive review of biodiesel production from waste cooking oil and its use as fuel in compression ignition engines: 3rd generation cleaner feedstock. <i>Journal of Cleaner Production</i> , 2021, 307, 127299.	4.6	130
96	Enzymes, <i>In Vivo</i> Biocatalysis, and Metabolic Engineering for Enabling a Circular Economy and Sustainability. <i>Chemical Reviews</i> , 2021, 121, 10367-10451.	23.0	111
97	Performance of functionalized magnetic nanocatalysts and feedstocks on biodiesel production: A review study. <i>Journal of Cleaner Production</i> , 2021, 305, 127200.	4.6	35
98	Calcium Oxide Supported on Coal Fly Ash (CaO/CFA) as an Efficient Catalyst for Biodiesel Production from <i>Jatropha curcas</i> Oil. <i>Topics in Catalysis</i> , 0, , 1.	1.3	9
99	Biodiesel production from poultry wastes: Waste chicken fat and eggshell. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105654.	3.3	47
100	Conversion of poultry-fat waste to a sustainable feedstock for biodiesel production via microbubble injection of reagent vapor. <i>Journal of Cleaner Production</i> , 2021, 311, 127525.	4.6	17
101	The development of new homogenous and heterogeneous catalytic processes for the treatment of low grade palm oil. <i>Journal of Molecular Liquids</i> , 2021, 344, 117574.	2.3	5
102	Modelling and optimization of main independent parameters for biodiesel production over a $\text{Cu}_{0.4}\text{Zn}_{0.6}\text{Al}_2\text{O}_4$ catalyst using an RSM method. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 111-119.	1.6	10
103	Prediction of Biodiesel Production from Sardine Fish Oil Methyl Ester Using Microwave Assisted Transesterification Method Using Response Surface Methodology. , 0, , .		1
104	Effect of the RME Biodiesel on the Diesel Engine Fuel Consumption and Emission. <i>Communications - Scientific Letters of the University of Zilina</i> , 2021, 23, B308-B316.	0.3	7
105	Mitigation of CO ₂ emissions by transforming to biofuels: Optimization of biofuels production processes. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 150, 111487.	8.2	15
106	Effect of oleic purity on the chemical structure, thermal and rheological properties of bio-based polymers derived from high oleic cottonseed oil via RAFT polymerization. <i>Industrial Crops and Products</i> , 2021, 171, 113882.	2.5	8
107	Development of meat flavors in peony seed-derived Maillard reaction products with the addition of chicken fat prepared under different conditions. <i>Food Chemistry</i> , 2021, 363, 130276.	4.2	17
108	Combustion and emission study of sandbox seed oil biodiesel performance in a compression ignition (CI) engine. <i>Energy Reports</i> , 2021, 7, 3869-3876.	2.5	8
109	Continuous biodiesel production: A review of advances in catalysis, microfluidic and cavitation reactors. <i>Fuel</i> , 2022, 307, 121821.	3.4	43
110	Waste oil to biodiesel. , 2021, , 337-355.		0
111	FTIR and GCMS analysis on useful methyl ester compound from industrial waste animal fleshing oil (WAFO). <i>Materials Today: Proceedings</i> , 2021, 46, 10072-10078.	0.9	4

#	ARTICLE	IF	CITATIONS
112	Heterogeneous ZnO-containing catalysts for efficient biodiesel production. RSC Advances, 2021, 11, 20465-20478.	1.7	33
114	Improvement of the Production Technology of Liquid Biofuel from Technical Fats and Oils. Lecture Notes in Mechanical Engineering, 2020, , 377-386.	0.3	30
115	Nanoparticles for Sustainable Bioenergy and Biofuel Production. , 2020, , 23-60.		2
116	The influence of injection timings on performance, emission, and combustion characteristics of compression ignition engine fueled with milk scum oil biodiesel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-16.	1.2	2
117	Biodiesel Production from Insects: From Organic Waste to Renewable Energy. Current Organic Chemistry, 2019, 23, 1499-1508.	0.9	16
118	An Experimental Optimization Research of Methyl and Ethyl Esters Production from Safflower Oil. Environmental and Climate Technologies, 2018, 22, 132-148.	0.5	21
119	Combustion Characteristics of Cottonseed Biodiesel and Chicken Fat Biodiesel Mixture in a Multi-Cylinder Compression Ignition Engine. , 0, , .		4
120	Effect of kinematic viscosity variation with blended-oil biodiesel on engine performance and exhaust emission in a power tiller engine. Environmental Engineering Research, 2020, 25, 946-959.	1.5	4
121	The investigation of fuel properties of mixtures obtained by adding waste sunflower biodiesel and ethanol to euro diesel fuel. International Journal of Automotive Engineering and Technologies, 2021, 10, 91-99.	0.3	0
122	Environmental Emission Analysis of Biodiesel with Al ₂ O ₃ Nanometal Additives as Fuel in a Diesel Engine. Journal of Nanomaterials, 2021, 2021, 1-7.	1.5	5
123	CARACTERIZACIÓN FÍSICOQUÍMICA DE BIODIESEL DERIVADO DE GRASA DE POLLO CON ALTERNATIVA DE PRODUCCIÓN LIMPIA EN LA SABANA DE TÁQUERRES-NARIÑO. Informador Técnico, 2019, 83, 55-64.	0.1	0
124	Production of Liquid Biofuels from Biomass. Green Energy and Technology, 2019, , 1-33.	0.4	1
125	Isolation of Pure Individual Fatty Acids from Chicken Skin Using Supercritical CO ₂ Extractor or Cooling Centrifuge. Journal of Oleo Science, 2020, 69, 859-864.	0.6	5
126	Advanced characterization of oxidized derivatives in alternative fatty esters mixture for biodiesel purposes. Fuel, 2022, 309, 122109.	3.4	1
127	Application of calcium oxide as heterogeneous catalyst for ethylic transesterification of residual frying soybean oil. Revista Eletrônica Em Gestão e Educação Tecnológica Ambiental, 0, 24, e12.	0.0	0
128	Two-step biodiesel production using high free fatty acid containing pig fat. International Journal of Green Energy, 2021, 18, 381-389.	2.1	4
129	Sulfonated carbon: synthesis, properties and production of biodiesel. Chemical Engineering and Processing: Process Intensification, 2022, 170, 108668.	1.8	21
130	A comprehensive insight from microalgae production process to characterization of biofuel for the sustainable energy. Fuel, 2022, 310, 122320.	3.4	37

#	ARTICLE	IF	CITATIONS
131	Factors Affecting Biodiesel Production from Non-edible Vegetable Oil Via Base-catalyzed Transesterification Process: Synthesis. <i>International Journal of Sustainable and Green Energy</i> , 2021, 10, 85.	0.5	5
132	Emerging sustainable opportunities for waste to bioenergy: an overview. , 2022, , 1-55.		4
133	Optimization of oil extraction process from blended sludge and algae for biodiesel production. <i>Production Engineering Archives</i> , 2021, 27, 203-211.	0.8	3
134	A Novel Heterogeneous Superoxide Support-Coated Catalyst for Production of Biodiesel from Roasted and Unroasted <i>Sinapis arvensis</i> Seed Oil. <i>Catalysts</i> , 2021, 11, 1421.	1.6	4
136	Impact of RME biodiesel on the concentration of particulates and nitrogen oxides in compression ignition engine exhaust fumes. , 2020, , .		1
138	An In-Depth Evaluation of Feedstock, Production Process, Catalyst for Biodiesel Production. <i>Energy, Environment, and Sustainability</i> , 2022, , 515-533.	0.6	2
139	Waste materials from palm oil plant as exploratory catalysts for FAME biodiesel production. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3703-3719.	1.6	7
140	Physico-chemical and tribological properties of isopropyl-branched chicken fat. <i>Fuel</i> , 2022, 316, 123293.	3.4	7
141	Bioethanol and biodiesel blended fuels – Feasibility analysis of biofuel feedstocks in Bangladesh. <i>Energy Reports</i> , 2022, 8, 1741-1756.	2.5	33
142	Biodiesel Production from Waste Oils: A South African Outlook. <i>Sustainability</i> , 2022, 14, 1983.	1.6	18
143	Prospects of biodiesel production from waste animal fats. , 2022, , 17-44.		2
144	Mof-Derived Co Nanoparticle on Nitrogen-Rich Carbon for Lipid Deoxygenation into Green Diesel. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
145	Efficacy of municipal waste derived lipids in production of biodiesel. , 2022, , 45-58.		0
146	Valorization of the chicken by-product waste with supercritical CO ₂ inactivation of microbes towards sustainable utilization. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	2
147	Overview on catalyst and co-solvents for sustainable biodiesel production. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 0, , 1-9.	0.5	6
148	Current progress in lipid-based biofuels: Feedstocks and production technologies. <i>Bioresource Technology</i> , 2022, 351, 127020.	4.8	23
149	Integrated bioconversion process for biodiesel production utilizing waste from the palm oil industry. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107550.	3.3	5
150	Comparative assessment of waste cooking, chicken waste and waste tire biodiesel blends on performance and emission characteristics. <i>Fuel</i> , 2022, 320, 123859.	3.4	24

#	ARTICLE	IF	CITATIONS
151	Efficient Synthesis of Biodiesel Catalyzed by Chitosan-Based Catalysts. <i>International Journal of Chemical Engineering</i> , 2021, 2021, 1-11.	1.4	5
152	Response surface methodology-based optimization of parameters for biodiesel production. , 2022, , 321-339.		0
153	Esterification of an Agro-Industrial Waste on Kaolinite-Derived Catalyst Prepared via Microwave Irradiation. <i>Waste and Biomass Valorization</i> , 2022, 13, 3933-3944.	1.8	7
154	The influence of biodiesel with high saturated fatty acids on the performance of a CI engine fuelled by diesel and biodiesel blend fuels at low loads. <i>International Journal of Ambient Energy</i> , 2022, 43, 7643-7656.	1.4	2
155	Sustainable Biosynthesis of Silver Nanoparticles and Their Application to Recover "Single Cell Oil" from <i>Yarrowia lipolytica</i> for Biodiesel Synthesis. <i>BioNanoScience</i> , 0, , .	1.5	1
156	Developments in Nanoparticles Enhanced Biofuels and Solar Energy in Malaysian Perspective: A Review of State of the Art. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-22.	1.5	7
157	Production of renewable biodiesel using metal organic frameworks based materials as efficient heterogeneous catalysts. <i>Journal of Cleaner Production</i> , 2022, 358, 131955.	4.6	39
158	Exploring the effectiveness of novel <i>Coffea Arabica</i> leaf pigment as a natural antioxidant additive for date seed biodiesel. <i>Fuel</i> , 2022, 324, 124561.	3.4	11
159	Trends in Biodiesel Production from Algae and Animal Fat Wastes: Challenges and Prospects. <i>Clean Energy Production Technologies</i> , 2022, , 255-278.	0.3	1
161	Design of Reactors with Mechanical Mixers in Biodiesel Production. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 197-207.	0.3	11
162	An overview of sustainable approaches for bioenergy production from agro-industrial wastes. <i>Energy Nexus</i> , 2022, 6, 100086.	3.3	26
163	Kinetic and Thermodynamic Modeling of Ethyl Transesterification of Degummed Soybean Oil Catalyzed by Zr/Cao. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
164	Recycling slaughterhouse wastes into potential energy and hydrogen sources: An approach for the future sustainable energy. <i>Bioresource Technology Reports</i> , 2022, 19, 101133.	1.5	10
165	Adaptive neuro-fuzzy inference system-genetic algorithm versus response surface methodology-desirability function algorithm modelling and optimization of biodiesel synthesis from waste chicken fat. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 136, 104389.	2.7	8
166	Biotechnological interventions in food waste treatment for obtaining value-added compounds to combat pollution. <i>Environmental Science and Pollution Research</i> , 2022, 29, 62755-62784.	2.7	7
167	MOF-derived Co nanoparticle on nitrogen-rich carbon for fatty acid hydrotreatment into green diesel. <i>Renewable Energy</i> , 2022, 198, 246-253.	4.3	8
168	Combustion reaction kinetics of biodiesel/n-butanol blends: Experiments in an ultrahigh-pressure rapid compression machine. <i>Combustion and Flame</i> , 2022, 245, 112313.	2.8	8
169	Nanoparticles application on fuel production from biological resources: A review. <i>Fuel</i> , 2023, 331, 125682.	3.4	30

#	ARTICLE	IF	CITATIONS
170	Nanoparticle assorted biofuels production from biowastes through transesterification. Fuel, 2023, 331, 125875.	3.4	7
171	Waste to energy: Production of poultry-based fat biodiesel and experimental assessment of its usability on engine behaviors. Energy, 2023, 262, 125457.	4.5	13
172	Production of Tobacco (Nicotiana tabacum L.) Seed Oil Methyl Esters Using Tungstophosphoric Acid as Catalyst. Lecture Notes in Civil Engineering, 2023, , 71-84.	0.3	1
173	Current progress and perspective of heterogeneous nanocatalytic transesterification towards biodiesel production from edible and inedible feedstock: A review. Energy Conversion and Management, 2022, 270, 116292.	4.4	38
174	Recent Advances in Fuel Additives and Their Spray Characteristics for Diesel-Based Blends. Energies, 2022, 15, 7281.	1.6	12
175	Nitrogen oxides concentrations and heat release characteristics of the Perkins 1104D-E44TA dual-fuel engine running with natural gas and diesel. , 2019, 84, 117-135.		1
176	Recent Advances in Biodiesel from Plants. , 0, , .		0
177	RSM optimization and yield prediction for biodiesel produced from alkali-catalytic transesterification of pawpaw seed extract: Thermodynamics, kinetics, and Multiple Linear Regression analysis. Digital Chemical Engineering, 2023, 6, 100066.	1.2	11
178	An Overview of Biodiesel Produced from 2nd Generation Feedstock: Mustard Seed Types. Bioenergy Research, 2023, 16, 1380-1400.	2.2	4
179	Assessments of the power production, energy consumption and emission comparison of hydrogen feed vehicles. Fuel, 2023, 334, 126794.	3.4	9
180	Corrosion behaviour of mild steel in waste cooking oil as biofuel. AIP Conference Proceedings, 2022, , .	0.3	1
181	Production and Testing of Butyl and Methyl Esters as New Generation Biodiesels from Fatty Wastes of the Leather Industry. Energies, 2022, 15, 8744.	1.6	2
182	Enhancing the Catalytic Activity of Eggshell-Derived CaO Catalyst and Its Application in Biodiesel Production from Waste Chicken Fat. Catalysts, 2022, 12, 1627.	1.6	5
183	Selective Conversion of Glycerol to Value-Added C ₃ Products: Effect of Catalyst Surface Structure. ChemCatChem, 2023, 15, .	1.8	2
184	Biofuel Production Using Cultivated Algae: Technologies, Economics, and Its Environmental Impacts. Energies, 2023, 16, 1316.	1.6	8
185	Biodiesel from Recycled Sunflower and Palm Oil—A Sustainable Fuel for Microturbo-Engines Used in Airside Applications. Sustainability, 2023, 15, 2079.	1.6	4
186	Optimization of performance and emission outputs of a CI engine powered with waste fat biodiesel: A detailed RSM, fuzzy multi-objective and MCDM application. Energy, 2023, 275, 127356.	4.5	6
187	Multi-objective optimization based grey relational analysis and investigation of using the waste animal fat biodiesel on the engine characteristics. Fuel, 2023, 343, 127950.	3.4	3

#	ARTICLE	IF	CITATIONS
188	Hybrid MWCNT and TiO ₂ Nanoparticle-Suspended Waste Tyre Oil Biodiesel for CI Engines. <i>Bioinorganic Chemistry and Applications</i> , 2023, 2023, 1-11.	1.8	6
189	Corrosion behavior of copper, aluminium, and stainless steel 316L in chicken fat oil based biodiesel-diesel blends. <i>Sustainable Energy Technologies and Assessments</i> , 2023, 56, 103089.	1.7	0
190	Prediction of Waste Chicken Fat Biodiesel Blends as the Potential Substitute for the Diesel Engine With Oxygenated Additives. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2023, 145, .	1.4	7
191	Impact of Combined Effects of Injection Pressure and EGR on Modified Stationary Engine Fuelled with Biodiesel Blend Made of Waste Feedstock Oils. <i>Arabian Journal for Science and Engineering</i> , 0, , .	1.7	0
192	Sustainable biodiesel: A comprehensive review on feedstock, production methods, applications, challenges and opportunities. <i>Materials Today: Proceedings</i> , 2023, 92, 458-464.	0.9	8