Production of biodiesel from high acidity waste cooking in a microreactor

Renewable Energy

200, 294-302

DOI: 10.1016/j.renene.2022.09.045

Citation Report

#	Article	IF	Citations
1	Sulfur-Doped Binary Layered Metal Oxides Incorporated on Pomegranate Peel-Derived Activated Carbon for Removal of Heavy Metal Ions. Molecules, 2022, 27, 8841.	3.8	12
2	Zirconium oxide/titanium oxide nanorod decorated nickel foam as an efficient sorbent in syringe filter based solid-phase extraction of pesticides in some vegetables. Microchemical Journal, 2023, 189, 108507.	4.5	16
3	Optimization of the microreactor-intensified transesterification process using silver titanium oxide nanoparticles decorated magnetic graphene oxide nanocatalyst. Chemical Engineering Research and Design, 2023, 173, 495-506.	5.6	15
4	Optimizing the thermal performance of the thermosyphon heat pipe for energy saving with graphene oxide nanofluid. Energy, 2023, 274, 127422.	8.8	8
5	Utilization of marine ulva lactuca seaweed and freshwater azolla filiculoides macroalgae feedstocks toward biodiesel production: Kinetics, thermodynamics, and optimization studies. Renewable Energy, 2023, 205, 717-730.	8.9	6
6	CaO-MgFe2O4@K2CO3 as a novel and retrievable nanocatalyst for two-step transesterification of used frying oils to biodiesel. Chemical Engineering Research and Design, 2023, 172, 195-210.	5.6	9
7	Green biodiesel production from Jatropha curcas oil using a carbon-based solid acid catalyst: A process optimization study. Renewable Energy, 2023, 206, 597-608.	8.9	26
8	Current approaches, emerging developments and functional prospects for lignin-based catalysts â€“ a review. Green Chemistry, 2023, 25, 2896-2929.	9.0	23
9	Phase Equilibria Simulation of Biomaterial-Hydrogen Binary Systems Using a Simple Empirical Correlation. Processes, 2023, 11, 714.	2.8	6
10	Lipase enzyme immobilized over magnetic titanium graphene oxide as catalyst for biodiesel synthesis from waste cooking oil. Biomass and Bioenergy, 2023, 173, 106794.	5.7	21
11	Revolutionizing biodiesel production: A breakthrough synthesis and characterization of bismuth ferrite nanocatalysts for transesterification of palm and waste cooking oil. Fuel, 2023, 346, 128413.	6.4	4
12	Persica Akhani Salicornia as novel biodiesel feedstock production for economic prosperity in salty and water scarcity areas: Optimized oil extraction process and transesterification reaction using new magnetic heterogenous nanocatalysts. Renewable Energy, 2023, 211, 361-369.	8.9	4
13	Solid Phase Extraction Penicillin and Tetracycline in Human Serum Using Magnetic Graphene Oxide-Based Sulfide Nanocomposite. Magnetochemistry, 2023, 9, 132.	2.4	4
14	Biodiesel production from waste cooking oil using heterogeneous KNO3/Oil shale ash catalyst. Renewable Energy, 2023, 211, 470-483.	8.9	7
15	Betalains as promising natural colorants in smart/active food packaging. Food Chemistry, 2023, 424, 136408.	8.2	12
16	Biodiesel production from waste cooking oil: A comprehensive review on the application of heterogenous catalysts. Energy Nexus, 2023, 10, 100209.	7.7	13
17	Enhanced low-temperature production of biodiesel from waste cooking oil: aluminum industrial waste as a precursor of efficient CaO/Al2O3 nano-catalyst. Fuel, 2023, 351, 128897.	6.4	10
18	Biodiesel Preparation without a Cosolvent in an Opposite-Side Micro-Fixed-Bed Reactor. Energies, 2023, 16, 4798.	3.1	0

#	Article	IF	Citations
19	Optimization of microreactor-assisted transesterification for biodiesel production using bimetal zirconium-titanium oxide doped magnetic graphene oxide heterogeneous nanocatalyst. Chemical Engineering and Processing: Process Intensification, 2023, 191, 109479.	3.6	9
20	Elaboration of Fluorapatite - Reinhardbraunsite mixtures using ammonium sulfate activated electric arc furnace slag. Materials Today: Proceedings, 2023, , .	1.8	0
21	Synthesis and application of barium tin oxide-reduced graphene oxide nanocomposite as a highly stable heterogeneous catalyst for the biodiesel production. Renewable Energy, 2023, 217, 119199.	8.9	5
22	Cold Plasma-Assisted Extraction of Phytochemicals: A Review. Foods, 2023, 12, 3181.	4.3	8
23	Novel approach for synthesis of highly active nanostructured MgO/ZnAl2O4 catalyst via gel-combustion method used in biofuel production from sunflower oil: Effect of mixed fuel. Advanced Powder Technology, 2023, 34, 104226.	4.1	0
24	FT-MIR-ATR Associated with Chemometrics Methods: A Preliminary Analysis of Deterioration State of Brazil Nut Oil. Molecules, 2023, 28, 6878.	3.8	0
25	Performance and Emission Analysis of Biodiesel Blends in a Low Heat Rejection Engine with an Antioxidant Additive: An Experimental Study. ACS Omega, 2023, 8, 36686-36699.	3.5	2
26	Slurry-phase hydrotreating of waste oil to bio-hydrogenated diesel using in situ oil-soluble MoS2 nanoparticles. Renewable Energy, 2023, , 119506.	8.9	0
27	Optimization of microreactor-intensified transesterification reaction of sesame cake oil (sesame) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 Conversion and Management, 2023, 295, 117616.	9.2	7
28	Advancing biodiesel production from Pyrus glabra seed oil: Kinetic study and RSM optimization via microwave-assisted transesterification with biocompatible hydroxyapatite catalyst. Sustainable Chemistry and Pharmacy, 2023, 36, 101272.	3.3	2
29	Using solar microreactors and photocatalysts to synthesize biodiesel. Renewable Energy, 2024, 220, 119654.	8.9	1
30	Comprehensive study of Maillard induced structural modification of sesame (Sesamum indicum L.) protein isolate: characterization, functional and antioxidant properties. Journal of Food Measurement and Characterization, 0, , .	3.2	1
31	Thermochemical conversion of neem seed biomass to sustainable hydrogen and biofuels: Experimental and theoretical evaluation. Renewable Energy, 2024, 221, 119694.	8.9	1
32	Two-dimensional Mo catalysts supported on the external surface of planar Silicalite-1 zeolite for biodiesel production from waste cooking soybean oil: Transesterification experiment and kinetics. Fuel, 2024, 360, 130610.	6.4	0
33	Assessing and optimizing the efficacy of synthesized CaO-based nano-catalysts for biodiesel production. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2024, 46, 872-887.	2.3	1
34	Biodiesel production using microreactor with integrated microheater through multi-objective optimization approach. Chemical Engineering and Processing: Process Intensification, 2024, 195, 109646.	3.6	0
35	Analysis of a novel high-speed homogenizer technique for methyl ester production using waste cooking oil: Multi-objective optimization and energy analysis. Chemical Engineering Research and Design, 2024, 203, 478-491.	5.6	0
36	Magnetic graphene oxide supported tin oxide (SnO) nanocomposite as a heterogeneous catalyst for biodiesel production from soybean oil. Renewable Energy, 2024, 224, 120050.	8.9	0

#	Article	IF	Citations
37	Biodiesel production from spent vegetable oil with Al2O3 and Fe2O3-biobased heterogenous nanocatalysts: Comparative and optimization studies. Fuel, 2024, 364, 130847.	6.4	0