

# Glycerol: Production, consumption, prices, characterization and combustion

Renewable and Sustainable Energy Reviews

27, 475-493

DOI: [10.1016/j.rser.2013.06.017](https://doi.org/10.1016/j.rser.2013.06.017)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Identification of chemicals resulted in selective glycerol conversion as sustainable fuel on Pd-based anode nanocatalysts. RSC Advances, 2014, 4, 64476-64483.	1.7	22
2	Alkaline and Alkaline-Earth Ceramic Oxides for CO <sub>2</sub> Capture, Separation and Subsequent Catalytic Chemical Conversion. , 0, , .		9
3	Elevated production of 3-hydroxypropionic acid by metabolic engineering of the glycerol metabolism in Escherichia coli. Metabolic Engineering, 2014, 23, 116-122.	3.6	66
4	Crude glycerol as feedstock for polyhydroxyalkanoates production by mixed microbial cultures. Water Research, 2014, 58, 9-20.	5.3	91
5	Trends in Biodiesel Production: Present Status and Future Directions. , 2014, , 281-302.		6
6	Ecological efficiency in glycerol combustion. Applied Thermal Engineering, 2014, 63, 97-104.	3.0	34
7	Phase Behavior and Fuel Properties of Bio-Oil/Glycerol/Methanol Blends. Energy & Fuels, 2014, 28, 4650-4656.	2.5	30
8	A review on the performance of glycerol carbonate production via catalytic transesterification: Effects of influencing parameters. Energy Conversion and Management, 2014, 88, 484-497.	4.4	151
9	Assessing anaerobic co-digestion of pig manure with agroindustrial wastes: The link between environmental impacts and operational parameters. Science of the Total Environment, 2014, 497-498, 475-483.	3.9	46
10	A study of the preparation conditions of aluminum oxide on its catalytic activity and stability in vapor-phase dehydration of glycerol to acrolein. Russian Journal of Applied Chemistry, 2014, 87, 754-760.	0.1	0
11	Poly(3-Hydroxypropionate): a Promising Alternative to Fossil Fuel-Based Materials. Applied and Environmental Microbiology, 2014, 80, 6574-6582.	1.4	64
12	Glycerol for renewable acrolein production by catalytic dehydration. Renewable and Sustainable Energy Reviews, 2014, 40, 28-59.	8.2	129
13	Green chemistry, sustainable agriculture and processing systems: a Brazilian overview. Chemical and Biological Technologies in Agriculture, 2014, 1, .	1.9	31
14	A renewable chemistry linked to the Brazilian biofuel production. Chemical and Biological Technologies in Agriculture, 2014, 1, .	1.9	8
15	Crude glycerol as a raw material for the liquid phase oxidation reaction. Applied Catalysis A: General, 2014, 482, 245-257.	2.2	44
16	Cultivation of oleaginous yeast using aqueous fractions derived from hydrothermal pretreatments of biomass. Bioresource Technology, 2014, 170, 413-420.	4.8	11
17	Production of propanal from 1,2-propanediol over silica-supported WO <sub>3</sub> catalyst. Applied Catalysis A: General, 2014, 487, 234-241.	2.2	25
18	Influence of the operon structure on poly(3-hydroxypropionate) synthesis in <i>Shimwellia blattae</i> . Applied Microbiology and Biotechnology, 2014, 98, 7409-7422.	1.7	8

#	ARTICLE	IF	CITATIONS
19	Formulation and Combustion of Glycerol-Diesel Fuel Emulsions. <i>Energy &amp; Fuels</i> , 2014, 28, 3940-3947.	2.5	35
20	Glycerol Etherification with TBA: High Yield to Poly-Ethers Using a Membrane Assisted Batch Reactor. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6019-6026.	4.6	36
21	Clean combustion of different liquid fuels using a novel injector. <i>Experimental Thermal and Fluid Science</i> , 2014, 57, 275-284.	1.5	47
22	High Speed Visualization and PIV Measurements in the Near Field of Spray Produced by Flow-Blurring Atomization. , 2014, , .		8
23	Biodegradation of deproteinized potato wastewater and glycerol during cultivation of <i>Rhodotorula glutinis</i> yeast. <i>Electronic Journal of Biotechnology</i> , 2015, 18, 428-432.	1.2	10
24	Advancement in heterogeneous base catalyzed technology: An efficient production of biodiesel fuels. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	0.8	40
25	Biodiesel production from waste salmon oil: kinetic modeling, properties of methyl esters, and economic feasibility of a low capacity plant. <i>Biofuels, Bioproducts and Biorefining</i> , 2015, 9, 516-528.	1.9	11
26	Early sustainability assessment for potential configurations of integrated biorefineries. Screening of bio-based derivatives from platform chemicals. <i>Biofuels, Bioproducts and Biorefining</i> , 2015, 9, 722-748.	1.9	19
27	Catalytic Synthesis of Glycerol tert-Butyl Ethers as Fuel Additives from the Biodiesel By-Product Glycerol. <i>Journal of Chemistry</i> , 2015, 2015, 1-6.	0.9	10
28	Glycerine associated molecules with herbicide for controlling <i>Adenocalymma peregrinum</i> in cultivated pastures. <i>African Journal of Biotechnology</i> , 2015, 14, 3075-3081.	0.3	0
29	A new vehicle for herbicide application using crude glycerin, a by-product of biodiesel production. <i>African Journal of Biotechnology</i> , 2015, 14, 1832-1837.	0.3	1
30	Optimization of agroindustrial medium for the production of carotenoids by wild yeast <i>Sporidiobolus pararoseus</i> . <i>African Journal of Microbiology Research</i> , 2015, 9, 209-219.	0.4	15
31	Thermodynamically Leveraged Tandem Catalysis for Ester RC(O)O-R <sup>2</sup> Bond Hydrogenolysis. Scope and Mechanism. <i>ACS Catalysis</i> , 2015, 5, 3675-3679.	5.5	26
32	Comparative study of the hydrogenolysis of glycerol over Ru-based catalysts supported on activated carbon, graphite, carbon nanotubes and KL-zeolite. <i>Chemical Engineering Journal</i> , 2015, 262, 326-333.	6.6	59
33	Kinetics of the production of glycerol carbonate by transesterification of glycerol with dimethyl and ethylene carbonate using potassium methoxide, a highly active catalyst. <i>Fuel Processing Technology</i> , 2015, 138, 243-251.	3.7	66
34	Exergetic evaluation of incorporation of hydrogen production in a biodiesel plant. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8797-8805.	3.8	11
35	Vegetable Oil Biorefineries. , 2015, , 247-270.		2
36	Batch reactor coupled with water permselective membrane: Study of glycerol etherification reaction with butanol. <i>Chemical Engineering Journal</i> , 2015, 282, 187-193.	6.6	29

#	ARTICLE	IF	CITATIONS
37	Evaluation of using alternative routes of glycerin obtained in the biodiesel production: a review. <i>Ingeniería Y Desarrollo</i> , 2015, 33, 126-148.	0.0	3
38	Glycerol as an Efficient Medium for the Petasis Boronoâ€Mannich Reaction. <i>ChemistryOpen</i> , 2015, 4, 39-46.	0.9	31
39	Rhamnolipid based glycerol-in-diesel microemulsion fuel: Formation and characterization. <i>Fuel</i> , 2015, 147, 76-81.	3.4	57
40	Comparison between Vapor Generation Methods Coupled to Atomic Absorption Spectrometry for Determination of Hg in Glycerin Samples. <i>Energy &amp; Fuels</i> , 2015, 29, 1635-1640.	2.5	9
41	Green solvents for green technologies. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1631-1639.	1.6	306
42	Simultaneously Converting Carbonate/Bicarbonate and Biomass to Value-added Carboxylic Acid Salts by Aqueous-phase Hydrogen Transfer. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 195-203.	3.2	26
43	Green Solvents for Eco-friendly Synthesis of Bioactive Heterocyclic Compounds. , 2015, , 101-139.		8
44	Cell immobilization for microbial production of 1,3-propanediol. <i>Critical Reviews in Biotechnology</i> , 2016, 36, 1-13.	5.1	32
45	Multielement Crystalline and Pseudocrystalline Oxides as Efficient Catalysts for the Direct Transformation of Glycerol into Acrylic Acid. <i>ChemSusChem</i> , 2015, 8, 398-406.	3.6	44
46	Environmental, economic and social impact of aviation biofuel production in Brazil. <i>New Biotechnology</i> , 2015, 32, 263-271.	2.4	26
47	Purification of glycerol from biodiesel production by sequential extraction monitored by <sup>1</sup> H NMR. <i>Fuel Processing Technology</i> , 2015, 132, 99-104.	3.7	34
48	Investigation of Glycerol Atomization in the Near-Field of a Flow-Blurring Injector using Time-Resolved PIV and High-Speed Visualization. <i>Flow, Turbulence and Combustion</i> , 2015, 94, 323-338.	1.4	37
49	Forward osmosis with waste glycerol for concentrating microalgae slurries. <i>Algal Research</i> , 2015, 8, 168-173.	2.4	25
50	Cu/ZnO-USY: an efficient bifunctional catalyst for the hydrogenolysis of glycerol. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015, 115, 377-388.	0.8	9
51	Quality of residues of the biodiesel chain in the energy field. <i>Industrial Crops and Products</i> , 2015, 75, 91-97.	2.5	14
52	Thermodynamic study of potassium chloride in glycerolâ€water mixed solvents using electromotive force measurements at (298.2, 303.2 and 310.2)K. <i>Journal of Electroanalytical Chemistry</i> , 2015, 754, 109-117.	1.9	1
53	Waste glycerol from biodiesel synthesis as a component in deep eutectic solvents. <i>Fuel Processing Technology</i> , 2015, 138, 419-423.	3.7	30
54	Alternative fuel additives from glycerol by etherification with isobutene: Structureâ€performance relationships in solid catalysts. <i>Fuel Processing Technology</i> , 2015, 138, 780-804.	3.7	48

#	ARTICLE	IF	CITATIONS
55	New efficient and recyclable catalysts for the synthesis of di- and tri-glycerol carbonates. RSC Advances, 2015, 5, 64433-64443.	1.7	8
56	Life Cycle Assessment of New Oxy-Fuels from Biodiesel-Derived Glycerol. Energies, 2015, 8, 1628-1643.	1.6	19
57	Supramolecular interactions of carbon nanotubes with biosourced polyurethanes from 2-(2,5-dimethyl-1H-pyrrol-1-yl)-1,3-propanediol. Polymer, 2015, 63, 62-70.	1.8	17
58	A thermodynamic analysis of hydrogen production via aqueous phase reforming of glycerol. Fuel Processing Technology, 2015, 134, 107-115.	3.7	32
59	Strain and process development for poly(3HB-co-3HP) fermentation by engineered <i>Shimwellia blattae</i> from glycerol. AMB Express, 2015, 5, 18.	1.4	9
60	Spray features in the near field of a flow-blurring injector investigated by high-speed visualization and time-resolved PIV. Experiments in Fluids, 2015, 56, 1.	1.1	32
61	Influence of the niobium supported species on the catalytic dehydration of glycerol to acrolein. Applied Catalysis B: Environmental, 2015, 179, 139-149.	10.8	60
62	Temperature-treated polyaniline layers as support for Pd catalysts: electrooxidation of glycerol in alkaline medium. Journal of Solid State Electrochemistry, 2015, 19, 2811-2818.	1.2	7
63	Properties of fatty acid glycerol formal ester (FAGE) for use as a component in blends for diesel engines. Biomass and Bioenergy, 2015, 76, 130-140.	2.9	27
64	Gas-phase dehydration of glycerol over commercial Pt/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysts. Chinese Journal of Chemical Engineering, 2015, 23, 1138-1146.	1.7	12
65	Photocatalytic-Fenton Degradation of Glycerol Solution over Visible Light-Responsive CuFe <sub>2</sub> O <sub>4</sub> . Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	19
66	Synergetic hydrothermal co-liquefaction of crude glycerol and aspen wood. Energy Conversion and Management, 2015, 106, 886-891.	4.4	47
67	Aerobic biotransformation of 3-methylindole to ring cleavage products by <i>Cupriavidus</i> sp. strain KK10. Biodegradation, 2015, 26, 359-373.	1.5	20
68	Catalytic esterification of bioglycerol to value-added products. Reviews in Chemical Engineering, 2015, 31, .	2.3	29
69	Improved utilization of crude glycerol from biodiesel industries: Synthesis and characterization of sustainable biobased polyesters. Industrial Crops and Products, 2015, 78, 141-147.	2.5	83
70	Sustainability metrics for a fossil- and renewable-based route for 1,2-propanediol production: A comparison. Catalysis Today, 2015, 239, 31-37.	2.2	51
71	Reactivity of Alcohols with Three-Carbon Atom Chain on Pt in Acidic Medium. Electrocatalysis, 2015, 6, 7-19.	1.5	14
72	Progress, prospect and challenges in glycerol purification process: A review. Renewable and Sustainable Energy Reviews, 2015, 42, 1164-1173.	8.2	201

#	ARTICLE	IF	CITATIONS
73	Preparation of bio-based surfactants from glycerol and dodecanol by direct etherification. <i>Green Chemistry</i> , 2015, 17, 882-892.	4.6	27
74	Life cycle assessment: heterotrophic cultivation of thraustochytrids for biodiesel production. <i>Journal of Applied Phycology</i> , 2015, 27, 639-647.	1.5	38
75	Synthesis and Characterization of Polyurethane Rigid Foams from Soybean Oil-Based Polyol and Glycerol. <i>Journal of Renewable Materials</i> , 2016, 4, 275-284.	1.1	4
76	A Review of Process-Design Challenges for Industrial Fermentation of Butanol from Crude Glycerol by Non-Biphasic <i>Clostridium pasteurianum</i> . <i>Fermentation</i> , 2016, 2, 13.	1.4	35
77	Synthesis of the Fatty Esters of Solketal and Glycerol-Formal: Biobased Specialty Chemicals. <i>Molecules</i> , 2016, 21, 170.	1.7	12
78	Construction and optimization of <i>trans</i> -4-hydroxy-L-proline production recombinant <i>E. coli</i> strain taking the glycerol as carbon source. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2389-2398.	1.6	12
79	Pd-modified PEDOT layers obtained through electroless metal deposition" electrooxidation of glycerol. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3015-3023.	1.2	8
80	Selective hydrogenolysis of glycerol to 1,2-propanediol over highly active copper"magnesia catalysts: reaction parameter, catalyst stability and mechanism study. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2063-2075.	1.6	41
81	Superstructure-based synthesis and optimisation of an oil palm eco-industrial town: a case study in Iskandar Malaysia. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2119-2129.	2.1	6
82	Herstellung von Glycerin"tert-butylethern" Entwicklung vom Labor bis zur Miniplant. <i>Chemie-Ingenieur-Technik</i> , 2016, 88, 1082-1094.	0.4	3
83	Method for studying high temperature aqueous electrochemical systems: Methanol and glycerol oxidation. <i>Electrochimica Acta</i> , 2016, 222, 1792-1799.	2.6	12
84	Production of glycerol carbonate from glycerol with aid of ionic liquid as catalyst. <i>Chemical Engineering Journal</i> , 2016, 297, 128-138.	6.6	72
85	Phenomenological evaluation of industrial reformers for glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 13811-13819.	3.8	13
86	Experimental and modelling approach to the catalytic coproduction of glycerol carbonate and ethylene glycol as a means to valorise glycerol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 63, 89-100.	2.7	22
87	Glycerol hydrogenolysis into useful C3 chemicals. <i>Applied Catalysis B: Environmental</i> , 2016, 193, 75-92.	10.8	243
88	Consolidating biofuel platforms through the fermentative bioconversion of crude glycerol to butanol. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 103.	1.7	17
89	A comprehensive review of PBI-based high temperature PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 21310-21344.	3.8	320
90	Conversion of Glycerol to Hydrocarbon Fuels via Bifunctional Catalysts. <i>ACS Energy Letters</i> , 2016, 1, 963-968.	8.8	41

#	ARTICLE	IF	CITATIONS
91	Enhanced microwave catalytic-esterification of industrial grade glycerol over Brønsted-based methane sulfonic acid in production of biolubricant. <i>Chemical Engineering Research and Design</i> , 2016, 104, 323-333.	2.7	15
92	Isocyanate-Free Route to Poly(carbohydrate-urethane) Thermosets and 100% Bio-Based Coatings Derived from Glycerol Feedstock. <i>Macromolecules</i> , 2016, 49, 7268-7276.	2.2	52
93	Plasmonic Au/TiO <sub>2</sub> nanostructures for glycerol oxidation. <i>Catalysis Science and Technology</i> , 2016, 6, 7307-7315.	2.1	50
94	Design and economic analysis of 1,2-propanediol derived from Crude glycerol. <i>Computer Aided Chemical Engineering</i> , 2016, , 1323-1328.	0.3	0
96	Etherification of glycerol with tert-butyl alcohol over sulfonated hybrid silicas. <i>Applied Catalysis A: General</i> , 2016, 526, 155-163.	2.2	37
97	Technology of efficient continuous erythritol production from glycerol. <i>Journal of Cleaner Production</i> , 2016, 139, 905-913.	4.6	33
98	Potential applications of crude glycerol in polymer technology—Current state and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 66, 449-475.	8.2	109
99	Measuring the Density, Viscosity, Surface Tension, and Refractive Index of Binary Mixtures of Cetane with Solketal, a Novel Fuel Additive. <i>Energy &amp; Fuels</i> , 2016, 30, 7452-7459.	2.5	17
101	A review on glycerol valorization to acrolein over solid acid catalysts. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 29-44.	2.7	59
102	Thermal degradation of ethanolic biodiesel: Physicochemical and thermal properties evaluation. <i>Energy</i> , 2016, 114, 1093-1099.	4.5	23
103	Environmental benefits of co-combustion of light fuel oil with waste glycerol. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 2510-2516.	1.2	7
104	Toward glycerol biorefinery: metabolic engineering for the production of biofuels and chemicals from glycerol. <i>Biotechnology for Biofuels</i> , 2016, 9, 205.	6.2	97
105	Characteristics of post-impregnated SBA-15 with 12-Tungstophosphoric acid and its correlation with catalytic activity in selective esterification of glycerol to monolaurate. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 36, 012037.	0.2	0
106	A new green process for biodiesel production from waste oils via catalytic distillation using a solid acid catalyst — Modeling, economic and environmental analysis. <i>Green Energy and Environment</i> , 2016, 1, 62-74.	4.7	51
107	MRE: a web tool to suggest foreign enzymes for the biosynthesis pathway design with competing endogenous reactions in mind. <i>Nucleic Acids Research</i> , 2016, 44, W217-W225.	6.5	45
108	Electrooxidation of crude glycerol as waste from biodiesel in a nanofluidic fuel cell using Cu@Pd/C and Cu@Pt/C. <i>Fuel</i> , 2016, 183, 195-205.	3.4	44
109	Industrial trial of high-quality all green sizes composed of soy-derived protein and glycerol. <i>Journal of Cleaner Production</i> , 2016, 135, 1-8.	4.6	27
110	Purification of crude glycerol using a sequential physico-chemical treatment, membrane filtration, and activated charcoal adsorption. <i>Separation and Purification Technology</i> , 2016, 168, 101-106.	3.9	48

#	ARTICLE	IF	CITATIONS
111	Conversion of crude and pure glycerol into derivatives: A feasibility evaluation. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 63, 533-555.	8.2	144
112	Crude bio-glycerol aqueous phase reforming and hydrogenolysis over commercial SiO <sub>2</sub> Al <sub>2</sub> O <sub>3</sub> nickel catalyst. <i>Renewable Energy</i> , 2016, 97, 373-379.	4.3	36
113	A framework for techno-economic & environmental sustainability analysis by risk assessment for conceptual process evaluation. <i>Biochemical Engineering Journal</i> , 2016, 116, 146-156.	1.8	34
114	A study of glycerol hydrogenolysis over Ru-Cu/Al <sub>2</sub> O <sub>3</sub> and Ru-Cu/ZrO <sub>2</sub> catalysts. <i>Journal of Molecular Catalysis A</i> , 2016, 415, 27-36.	4.8	50
115	Hydrothermal conversion of glycerol to lactic acid catalyzed by Cu/hydroxyapatite, Cu/MgO, and Cu/ZrO <sub>2</sub> and reaction kinetics. <i>Chemical Engineering Journal</i> , 2016, 288, 332-343.	6.6	88
116	Mono- and tri-ester hydrogenolysis using tandem catalysis. Scope and mechanism. <i>Energy and Environmental Science</i> , 2016, 9, 550-564.	15.6	36
117	Alumina supported bimetallic Pt-Fe catalysts applied to glycerol hydrogenolysis and aqueous phase reforming. <i>Applied Catalysis B: Environmental</i> , 2016, 185, 77-87.	10.8	86
118	Combustion behavior of low-rank coal impregnated with glycerol. <i>Biomass and Bioenergy</i> , 2016, 87, 122-130.	2.9	30
119	Oxidative Dehydration of Glycerol to Acrylic Acid over Vanadium-Substituted Cesium Salts of Keggin-Type Heteropolyacids. <i>ACS Catalysis</i> , 2016, 6, 2785-2791.	5.5	54
120	The expression of the <i>Cuphea palustris</i> thioesterase CpFatB2 in <i>Yarrowia lipolytica</i> triggers oleic acid accumulation. <i>Biotechnology Progress</i> , 2016, 32, 26-35.	1.3	8
121	Consecutive lipase immobilization and glycerol carbonate production under continuous-flow conditions. <i>Catalysis Science and Technology</i> , 2016, 6, 4743-4748.	2.1	31
122	A Prolific Catalyst for Selective Conversion of Neat Glycerol to Lactic Acid. <i>ACS Catalysis</i> , 2016, 6, 2014-2017.	5.5	82
123	Process design and optimization for etherification of glycerol with isobutene. <i>Chemical Engineering Science</i> , 2016, 144, 326-335.	1.9	16
124	Enhanced nutrient removal from municipal wastewater assisted by mixotrophic microalgal cultivation using glycerol. <i>Environmental Science and Pollution Research</i> , 2016, 23, 10114-10123.	2.7	36
125	Development and validation of a HILIC-UPLC-ELSD method based on optimized chromatographic and detection parameters for the quantification of polyols from bioconversion processes. <i>Analytical Methods</i> , 2016, 8, 2048-2057.	1.3	3
126	Anaerobic Fermentation for Production of Carboxylic Acids as Bulk Chemicals from Renewable Biomass. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016, 156, 323-361.	0.6	30
127	The potential of glycerol as a value-added commodity. <i>Chemical Engineering Journal</i> , 2016, 295, 119-130.	6.6	243
128	Cooperative catalysis for the direct hydrodeoxygenation of vegetable oils into diesel-range alkanes over Pd/NbOPO <sub>4</sub> . <i>Chemical Communications</i> , 2016, 52, 5160-5163.	2.2	43



#	ARTICLE	IF	CITATIONS
129	Continuous production of lactic acid from glycerol in alkaline medium using supported copper catalysts. <i>Fuel Processing Technology</i> , 2016, 144, 170-180.	3.7	52
130	Highly Efficient Process for the Conversion of Glycerol to Acrylic Acid via Gas Phase Catalytic Oxidation of an Allyl Alcohol Intermediate. <i>ACS Catalysis</i> , 2016, 6, 143-150.	5.5	65
131	Aqueous phase reforming (APR) of glycerol over platinum supported on Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Renewable Energy</i> , 2016, 85, 1116-1126.	4.3	52
132	Hydrogenolysis of glycerol to propylene glycol by in situ produced hydrogen from aqueous phase reforming of glycerol over SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> supported nickel catalyst. <i>Fuel Processing Technology</i> , 2016, 142, 135-146.	3.7	60
133	Synthesis of ethylene glycol and terephthalic acid from biomass for producing PET. <i>Green Chemistry</i> , 2016, 18, 342-359.	4.6	254
134	Co-valorization of Crude Glycerol Waste Streams with Conventional and/or Renewable Fuels for Power Generation and Industrial Symbiosis Perspectives. <i>Waste and Biomass Valorization</i> , 2016, 7, 135-150.	1.8	33
135	Synthesis of glycerol free-fatty acid methyl esters from Jatropha oil over Ca-La mixed-oxide catalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 58, 181-188.	2.7	28
136	Alcoxycle: A novel route for glycerol reform into H <sub>2</sub> and CO <sub>x</sub> in separate stages. <i>Catalysis Today</i> , 2017, 289, 127-132.	2.2	4
137	Towards improved butanol production through targeted genetic modification of <i>Clostridium pasteurianum</i> . <i>Metabolic Engineering</i> , 2017, 40, 124-137.	3.6	61
138	Utilization of the residual glycerol from biodiesel production for renewable energy generation. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 71, 63-76.	8.2	144
139	Use of curcumin and glycerol as an effective photoinitiating system in the polymerization of urethane dimethacrylate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1671-1682.	2.0	13
140	Glycerol electro-oxidation in alkaline media using Pt and Pd catalysts electrodeposited on three-dimensional porous carbon electrodes. <i>New Journal of Chemistry</i> , 2017, 41, 1854-1863.	1.4	46
141	Systematic development of a two-stage fed-batch process for lipid accumulation in <i>Rhodotorula glutinis</i> . <i>Journal of Biotechnology</i> , 2017, 246, 4-15.	1.9	25
142	A review on recent developments and progress in the kinetics and deactivation of catalytic acetylation of glycerol—A byproduct of biodiesel. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 387-401.	8.2	84
143	Unexpected Activity for Glycerol Electro-Oxidation of Nanostructured Pd <sup>*/</sup> Pt and Pd <sup>*/</sup> Pt <sup>*/</sup> Ru Catalysts. <i>ChemElectroChem</i> , 2017, 4, 1314-1319.	1.7	20
144	Non-catalytic conversion of glycerol to syngas at intermediate temperatures: Numerical methods with detailed chemistry. <i>Fuel</i> , 2017, 195, 190-200.	3.4	8
145	Gas-phase dehydration of glycerol over hierarchical silicoaluminophosphate SAPO-40. <i>Catalysis Communications</i> , 2017, 95, 16-20.	1.6	18
146	The Role of Low-Coordinated Sites on the Adsorption of Glycerol on Defected Pt <sub>(111)</sub> Substrates: A Density Functional Investigation within the D3 van der Waals Correction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3445-3454.	1.5	14

#	ARTICLE	IF	CITATIONS
147	Green catalytic conversion of hydrogenated rosin to glycerol esters using subcritical CO <sub>2</sub> in water and the associated kinetics. <i>Journal of Supercritical Fluids</i> , 2017, 125, 12-21.	1.6	17
148	A Sustainable Bioeconomy. , 2017, , .		31
149	Using an environmentally benign and degradable elastomer in soft robotics. <i>International Journal of Intelligent Robotics and Applications</i> , 2017, 1, 124-142.	1.6	24
150	Biochemicals. , 2017, , 141-183.		0
151	Microwave-assisted etherification of glycerol with tert-butyl alcohol over amorphous organosilica-aluminum phosphates. <i>Applied Catalysis B: Environmental</i> , 2017, 213, 42-52.	10.8	24
152	Continuous niobium phosphate catalysed Skraup reaction for quinoline synthesis from solketal. <i>Green Chemistry</i> , 2017, 19, 2439-2447.	4.6	34
153	Synthesis of glycerol carbonate from biodiesel by-product glycerol over calcined dolomite. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 70, 179-187.	2.7	65
154	Biodegradable sizing agents from soy protein via controlled hydrolysis and dis-entanglement for remediation of textile effluents. <i>Journal of Environmental Management</i> , 2017, 188, 26-31.	3.8	8
155	Stability of emulsion fuels prepared from fast pyrolysis bio-oil and glycerol. <i>Fuel</i> , 2017, 206, 230-238.	3.4	30
156	Ecotoxicity and QSAR studies of glycerol ethers in <i>Daphnia magna</i> . <i>Chemosphere</i> , 2017, 183, 277-285.	4.2	36
157	Biotechnology of Glycerol Production and Conversion in Yeasts. , 2017, , 117-148.		4
158	Hydroxyacetone: A Glycerol-Based Platform for Electrocatalytic Hydrogenation and Hydrodeoxygenation Processes. <i>ChemSusChem</i> , 2017, 10, 3105-3110.	3.6	23
159	Aluminum doped mesoporous silica SBA-15 for glycerol dehydration to value-added chemicals. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 83, 342-354.	1.1	9
160	Microbial selection strategies for polyhydroxyalkanoates production from crude glycerol: Effect of OLR and cycle length. <i>New Biotechnology</i> , 2017, 39, 22-28.	2.4	43
161	High-Value Propylene Glycol from Low-Value Biodiesel Glycerol: A Techno-Economic and Environmental Assessment under Uncertainty. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5723-5732.	3.2	52
162	Evaluation of straw with absorbed glycerol thermal degradation during pyrolysis and combustion by TG-FTIR and TG-GC/MS. <i>Fuel</i> , 2017, 204, 227-235.	3.4	34
163	Oxygenated fuel additives from glycerol valorization. Main production pathways and effects on fuel properties and engine performance: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 1400-1413.	8.2	115
164	Biotechnology of Yeasts and Filamentous Fungi. , 2017, , .		8

#	ARTICLE	IF	CITATIONS
165	A review of progress in (bio)catalytic routes from/to renewable succinic acid. <i>Biofuels, Bioproducts and Biorefining</i> , 2017, 11, 908-931.	1.9	66
166	An Experimental Investigation into the Effect of Soap on Ignition and Combustion Characteristics of Single Droplets of Glycerol. <i>Combustion Science and Technology</i> , 2017, 189, 1540-1550.	1.2	1
167	Insight into the gas-phase glycerol dehydration on transition metal modified aluminium phosphates and zeolites. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2661-2672.	1.6	9
168	Spray breakup and structure of spray flames for low-volatility wet fuels. <i>Combustion and Flame</i> , 2017, 180, 102-109.	2.8	9
169	Investigation of the promoting effect of Mn on a Pt/C catalyst for the steam and aqueous phase reforming of glycerol. <i>Journal of Catalysis</i> , 2017, 349, 75-83.	3.1	40
170	Biodegradable poly (L-lactic acid) (PLLA) and PLLA-3-arm blend membranes: The use of PLLA-3-arm as a plasticizer. <i>Polymer Testing</i> , 2017, 60, 84-93.	2.3	33
171	Conversion of glycerol to polyglycerol over waste duck-bones as a catalyst in solvent free etherification process. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 226, 012073.	0.3	6
172	Green Approaches To Engineer Tough Biobased Epoxies: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9528-9541.	3.2	100
173	Zn-Modified CuCr <sub>2</sub> O <sub>4</sub> as Stable and Active Catalyst for the Synthesis of 2,6-Dimethylpyrazine: Valorization of Crude Glycerol Obtained from a Biodiesel Plant. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 11664-11671.	1.8	4
174	Synthesis and characterization of polyurethane foams derived of fully renewable polyester polyols from sorbitol. <i>European Polymer Journal</i> , 2017, 97, 319-327.	2.6	34
175	Green Synthesis of Double Long-Chain Diglycerol Diacetal and Its Application as Lubricating Base Oil. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2017, 94, 1301-1311.	0.8	3
176	Influence of Acidic Property on Catalytic Activity and Selectivity in Dehydration of Glycerol. <i>ChemistrySelect</i> , 2017, 2, 5524-5531.	0.7	9
177	Current Prospects on Production of Microbial Lipid and Other Value-Added Products Using Crude Glycerol Obtained from Biodiesel Industries. <i>Bioenergy Research</i> , 2017, 10, 1117-1137.	2.2	22
178	An extended techno-economic analysis of the utilization of glycerol as an alternative feedstock for methanol production. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 1855-1865.	2.1	2
179	Glycerol hydrogenolysis over a Pt-Ni bimetallic catalyst with hydrogen generated in situ. <i>RSC Advances</i> , 2017, 7, 38251-38256.	1.7	13
180	Synthesis of 3-alkoxypropan-1,2-diols from glycidol: experimental and theoretical studies for the optimization of the synthesis of glycerol derived solvents. <i>Green Chemistry</i> , 2017, 19, 4176-4185.	4.6	24
181	Effects of partial replacement of maize in the diet with crude glycerin and/or soyabean oil on ruminal fermentation and microbial population in Nellore steers. <i>British Journal of Nutrition</i> , 2017, 118, 651-660.	1.2	15
182	Sustainable Water Reclamation from Different Feed Streams by Forward Osmosis Process Using Deep Eutectic Solvents as Reusable Draw Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 14623-14632.	1.8	32

#	ARTICLE	IF	CITATIONS
183	Electrochemical production of lactic acid from glycerol oxidation catalyzed by AuPt nanoparticles. <i>Journal of Catalysis</i> , 2017, 356, 14-21.	3.1	128
184	Development of algae biorefinery concepts for biofuels and bioproducts; a perspective on process-compatible products and their impact on cost-reduction. <i>Energy and Environmental Science</i> , 2017, 10, 1716-1738.	15.6	193
185	Production of lactic acid from glycerol via chemical conversion using solid catalyst: A review. <i>Applied Catalysis A: General</i> , 2017, 543, 234-246.	2.2	103
186	Numerical prediction of the chemical composition of gas products at biomass combustion and co-combustion in a domestic boiler. <i>E3S Web of Conferences</i> , 2017, 14, 02043.	0.2	4
187	Influence of MgO content as an additive on the performance of Ni/MgO SiO <sub>2</sub> catalysts for the steam reforming of glycerol. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16979-16990.	3.8	32
188	Effect of Post-Treatment on Structure and Catalytic Activity of CuCo-based Materials for Glycerol Oxidation. <i>ChemCatChem</i> , 2017, 9, 610-619.	1.8	14
189	A conceptual framework for the analysis of the effect of institutions on biofuel supply chains. <i>Applied Energy</i> , 2017, 185, 895-915.	5.1	29
190	Cogasification of Crude Glycerol and Black Liquor Blends: Char Morphology and Gasification Kinetics. <i>Energy Technology</i> , 2017, 5, 1272-1281.	1.8	6
191	Renewable syngas production from thermal cracking of glycerol over praseodymium-promoted Ni/Al <sub>2</sub> O <sub>3</sub> catalyst. <i>Applied Thermal Engineering</i> , 2017, 112, 871-880.	3.0	15
192	Potential application of glycerol in the production of plant beneficial microorganisms. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 735-743.	1.4	29
193	Glycerol conversion into a single cell oil by engineered <i>Yarrowia lipolytica</i> . <i>Engineering in Life Sciences</i> , 2017, 17, 325-332.	2.0	21
194	The multiple benefits of glycerol conversion to acrolein and acrylic acid catalyzed by vanadium oxides supported on micro-mesoporous MFI zeolites. <i>Catalysis Today</i> , 2017, 289, 20-28.	2.2	35
195	Glycerol Electrooxidation on Platinum-Tin Electrodeposited Films: Inducing Changes in Surface Composition by Cyclic Voltammetry. <i>Electrocatalysis</i> , 2017, 8, 1-10.	1.5	10
196	Erythritol, glycerol, their blends, and olive oil, as sustainable phase change materials. <i>Energy Procedia</i> , 2017, 135, 249-262.	1.8	14
197	Analysis of the physicochemical properties of post-manufacturing waste derived from production of methyl esters from rapeseed oil. <i>International Agrophysics</i> , 2017, 31, 175-182.	0.7	29
198	Selective Production of Acid-form Sophorolipids from Glycerol by <i>Candida floricola</i> . <i>Journal of Oleo Science</i> , 2017, 66, 1365-1373.	0.6	22
199	Bioglycerol as an Alternative Raw Material for Basic Organic Synthesis. <i>Russian Journal of Applied Chemistry</i> , 2017, 90, 1727-1737.	0.1	5
200	Utilization of Crude Glycerin for Synthetic Gas Production and Potential Electricity Generation. <i>Innovative Energy &amp; Research</i> , 2017, 06, .	0.2	0

#	ARTICLE	IF	CITATIONS
201	Glycerol Production and Transformation: A Critical Review with Particular Emphasis on Glycerol Reforming Reaction for Producing Hydrogen in Conventional and Membrane Reactors. <i>Membranes</i> , 2017, 7, 17.	1.4	118
202	Sulfonic Acid Functionalization of Different Zeolites and Their Use as Catalysts in the Microwave-Assisted Etherification of Glycerol with tert-Butyl Alcohol. <i>Molecules</i> , 2017, 22, 2206.	1.7	24
203	Production of Renewable Hydrogen from Glycerol Steam Reforming over Bimetallic Ni-(Cu,Co,Cr) Catalysts Supported on SBA-15 Silica. <i>Catalysts</i> , 2017, 7, 55.	1.6	65
204	Catalytic Dehydration of Glycerol to Acrolein over a Catalyst of Pd/LaY Zeolite and Comparison with the Chemical Equilibrium. <i>Catalysts</i> , 2017, 7, 73.	1.6	36
205	Microbial Production of Malic Acid from Biofuel-Related Coproducts and Biomass. <i>Fermentation</i> , 2017, 3, 14.	1.4	40
206	Anaerobic and micro-aerobic 1,3-propanediol production by engineered <i>Escherichia coli</i> with <i>dha</i> genes from <i>Klebsiella pneumoniae</i> GLC29. <i>African Journal of Biotechnology</i> , 2017, 16, 1800-1809.	0.3	1
207	Obtaining glycerol carbonate and glycols using thermomorphic systems based on glycerol and cyclic organic carbonates: Kinetic studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 63, 124-132.	2.9	16
208	Combustion of Fuel Mixtures Containing Crude Glycerol (CG): Important Role of Interactions between CG and Fuel Components in Particulate Matter Emission. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 4132-4138.	1.8	7
209	Next-Generation Water-Soluble Homogeneous Catalysts for Conversion of Glycerol to Lactic Acid. <i>Organometallics</i> , 2018, 37, 1400-1409.	1.1	46
210	A comparative study of the separation stage of rapeseed oil transesterification products obtained using various catalysts. <i>Fuel Processing Technology</i> , 2018, 173, 153-164.	3.7	22
211	Environmental benefits and drawbacks of composite fuels based on industrial wastes and different ranks of coal. <i>Journal of Hazardous Materials</i> , 2018, 347, 359-370.	6.5	29
212	Effect of substituting barley with glycerol as energy feed on feed intake, milk production and milk quality in dairy cows in mid or late lactation. <i>Livestock Science</i> , 2018, 209, 25-31.	0.6	5
213	Exploring the effects of heat and UV exposure on glycerol-based Ag-SiO <sub>2</sub> nanofluids for PV/T applications. <i>Renewable Energy</i> , 2018, 120, 266-274.	4.3	55
214	Dual catalysis over ZnAl mixed oxides in the glycerolysis of urea: Homogeneous and heterogeneous reaction routes. <i>Applied Catalysis A: General</i> , 2018, 552, 1-10.	2.2	27
215	Thermodynamic insights on the viscometric and volumetric properties of binary mixtures of ketals and polyols. <i>Journal of Molecular Liquids</i> , 2018, 263, 125-138.	2.3	11
216	Glycerol from biodiesel production: Technological paths for sustainability. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 88, 109-122.	8.2	358
217	Towards selective electrochemical conversion of glycerol to 1,3-propanediol. <i>RSC Advances</i> , 2018, 8, 10818-10827.	1.7	15
218	Keggin-type molybdovanadophosphoric acids loaded on ZSM-5 zeolite as a bifunctional catalyst for oxidehydration of glycerol. <i>Molecular Catalysis</i> , 2018, 449, 85-92.	1.0	13

#	ARTICLE	IF	CITATIONS
219	Continuous Flow Organic Chemistry: Successes and Pitfalls at the Interface with Current Societal Challenges. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2301-2351.	1.2	188
220	Intensified crude glycerol conversion to butanol by immobilized <i>Clostridium pasteurianum</i> . <i>Biochemical Engineering Journal</i> , 2018, 134, 114-119.	1.8	22
221	Application of Industrial Wastes for the Production of Microbial Single-Cell Protein by Fodder Yeast <i>Candida utilis</i> . <i>Waste and Biomass Valorization</i> , 2018, 9, 57-64.	1.8	62
222	Optimization of Cellulase Production by <i>Trichoderma</i> Strains Using Crude Glycerol as a Primary Carbon Source with a 24 Full Factorial Design. <i>Waste and Biomass Valorization</i> , 2018, 9, 357-367.	1.8	2
223	Attenuation of liver cancer development by oral glycerol supplementation in the rat. <i>European Journal of Nutrition</i> , 2018, 57, 1215-1224.	1.8	13
224	Energy and exergy analysis of glycerol combustion in an innovative flameless power plant. <i>Journal of Cleaner Production</i> , 2018, 172, 3817-3824.	4.6	28
225	Immobilization of lipase B from <i>Candida antarctica</i> on epoxy-functionalized silica: characterization and improving biocatalytic parameters. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 105-111.	1.6	28
226	Synthesis of bioadditives of fuels from biodiesel-derived glycerol by esterification with acetic acid on solid catalysts. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1955-1966.	1.2	16
227	Biodiesel production from soybean oil and dimethyl carbonate catalyzed by potassium methoxide. <i>Fuel</i> , 2018, 212, 101-107.	3.4	46
228	Potential and limitations of <i>Klebsiella pneumoniae</i> as a microbial cell factory utilizing glycerol as the carbon source. <i>Biotechnology Advances</i> , 2018, 36, 150-167.	6.0	84
229	Simple Preparation of Thiol-ene Particles in Glycerol and Surface Functionalization by Thiol-ene Chemistry (TEC) and Surface Chain Transfer Free Radical Polymerization (SCTFRP). <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700394.	2.0	12
230	Sustainable Production of Fine Chemicals and Materials Using Nontoxic Renewable Sources. <i>Toxicological Sciences</i> , 2018, 161, 214-224.	1.4	14
231	Overview on utilization of biodiesel by-product for biohydrogen production. <i>Journal of Cleaner Production</i> , 2018, 172, 314-324.	4.6	36
232	Effect of unrefined crude glycerol composition on the properties of polyurethane foams. <i>Journal of Cellular Plastics</i> , 2018, 54, 633-649.	1.2	22
233	Insight into a catalytic process for simultaneous production of biodiesel and glycerol carbonate from triglycerides. <i>Catalysis Today</i> , 2018, 309, 161-171.	2.2	21
234	A closed loop biowaste to biofuel integrated process fed with waste frying oil, organic waste and algal biomass: Feasibility at pilot scale. <i>Renewable Energy</i> , 2018, 124, 61-74.	4.3	21
235	Effect of the treatment with H <sub>3</sub> PO <sub>4</sub> on the catalytic activity of Nb <sub>2</sub> O <sub>5</sub> supported on Zr-doped mesoporous silica catalyst. Case study: Glycerol dehydration. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 158-168.	10.8	52
236	Catalytic valorization of biomass derived glycerol under methane: Effect of catalyst synthesis method. <i>Fuel</i> , 2018, 216, 218-226.	3.4	16

#	ARTICLE	IF	CITATIONS
237	Utilization of Crude Glycerol from Biodiesel Industry for the Production of Value-Added Bioproducts. <i>Energy, Environment, and Sustainability</i> , 2018, , 65-82.	0.6	14
238	Integrating proteomics, metabolomics and typical analysis to investigate the uptake and oxidative stress of graphene oxide and polycyclic aromatic hydrocarbons. <i>Environmental Science: Nano</i> , 2018, 5, 115-129.	2.2	38
239	Applicability of Crude Glycerol as the Multifunctional Additive for the Preparation of Mulching Coatings. <i>Waste and Biomass Valorization</i> , 2018, 9, 1855-1865.	1.8	4
240	Production of novel applicable derivatives from biodiesel glycerin. <i>Green Processing and Synthesis</i> , 2018, 7, 323-333.	1.3	0
241	ANÁLISE DA GESTÃO DO GLICEROL: RISCOS E OPORTUNIDADES SOBRE SUA DESTINAÇÃO FRENTE À LACUNA NORMATIVA E ASPECTOS SUSTENTÁVEIS. <i>READ: Revista Eletrônica De Administração</i> , 2018, 24, 217-243.	0.1	0
242	Effect of Operating Variables and Kinetics of the Lipase Catalyzed Transesterification of Ethylene Carbonate and Glycerol. <i>Fermentation</i> , 2018, 4, 75.	1.4	13
243	Transition metal-promoted hierarchical ETS-10 solid base for glycerol transesterification. <i>RSC Advances</i> , 2018, 8, 33473-33486.	1.7	14
244	Improved dispersibility of once-dried cellulose nanofibers in the presence of glycerol. <i>Nordic Pulp and Paper Research Journal</i> , 2018, 33, 647-650.	0.3	19
245	Novel Design for Simultaneous Production of Biodiesel and Glycerol Carbonate from Soybean Oil. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 16809-16816.	1.8	11
246	Valorization of Waste Glycerol to Dihydroxyacetone with Biocatalysts Obtained from <i>Gluconobacter oxydans</i> . <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2517.	1.3	11
247	Technologies for Processing of Crude Glycerol from Biodiesel Production: Synthesis of Solketal and Its Hydrolysis to Obtain Pure Glycerol. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 1478-1485.	0.1	18
249	Experimental Determination of Optimal Conditions for Reactive Coupling of Biodiesel Production With in situ Glycerol Carbonate Formation in a Triglyceride Transesterification Process. <i>Frontiers in Chemistry</i> , 2018, 6, 625.	1.8	17
250	Acetalization Catalysts for Synthesis of Valuable Oxygenated Fuel Additives from Glycerol. <i>Catalysts</i> , 2018, 8, 595.	1.6	40
251	Sustainable Waste-to-Energy Technologies: Transesterification. , 2018, , 89-109.		10
252	A Coupled Density Functional Theory–Microkinetic Modeling for the Hydrodeoxygenation of Glycerol to Propylene on $\text{MoO}_3$ . <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16169-16178.	3.2	15
253	Synthesis of glycerol carbonate from dimethyl carbonate and glycerol using CaO derived from eggshells. <i>MATEC Web of Conferences</i> , 2018, 192, 03045.	0.1	8
254	Oxidation of bio-renewable glycerol to value-added chemicals through catalytic and electro-chemical processes. <i>Applied Energy</i> , 2018, 230, 1347-1379.	5.1	55
255	Ethanol absorption from $\text{CO}_2$ using solutions of glycerol and glycols. <i>Chemical Engineering Communications</i> , 2018, 205, 1507-1519.	1.5	7

#	ARTICLE	IF	CITATIONS
256	Crude glycerin as an alternative to corn as a supplement for beef cattle grazing in pasture during the dry season. <i>Semina:Ciencias Agrarias</i> , 2018, 39, 2215.	0.1	3
257	Methanol production via black liquor co-gasification with expanded raw material base – Techno-economic assessment. <i>Applied Energy</i> , 2018, 225, 570-584.	5.1	53
258	Effects of glycerol and chestnut tannin addition in cassava leaves ( <i>Manihot esculenta</i> Crantz) on silage quality and <i>in vitro</i> rumen fermentation profiles. <i>Journal of Applied Animal Research</i> , 2018, 46, 1207-1213.	0.4	6
259	Separation of tartronic and glyceric acids by simulated moving bed chromatography. <i>Journal of Chromatography A</i> , 2018, 1563, 62-70.	1.8	15
260	Combustion characteristics of spent coffee ground mixed with crude glycerol briquette fuel. <i>Combustion Science and Technology</i> , 2018, 190, 2030-2043.	1.2	17
262	Biomass-Derived Building Block Chemicals. , 2018, , 177-200.		2
263	Promoting Role of Bismuth on Hydrotalcite-Supported Platinum Catalysts in Aqueous Phase Oxidation of Glycerol to Dihydroxyacetone. <i>Catalysts</i> , 2018, 8, 20.	1.6	23
264	Navigating Glycerol Conversion Roadmap and Heterogeneous Catalyst Selection Aided by Density Functional Theory: A Review. <i>Catalysts</i> , 2018, 8, 44.	1.6	27
265	The influence of liquid plant additives on the anthropogenic gas emissions from the combustion of coal-water slurries. <i>Environmental Pollution</i> , 2018, 242, 31-41.	3.7	28
266	Technoeconomic Analysis of Alternative Pathways of Isopropanol Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10260-10272.	3.2	32
267	Synthesis of glycerol carbonate over a 2D coordination polymer built with Nd <sup>3+</sup> ions and organic ligands. <i>Dalton Transactions</i> , 2018, 47, 10976-10988.	1.6	3
268	Turning Biodiesel Waste Glycerol into 1,3-Propanediol: Catalytic Performance of Sulphuric acid-Activated Montmorillonite Supported Platinum Catalysts in Glycerol Hydrogenolysis. <i>Scientific Reports</i> , 2018, 8, 7484.	1.6	54
269	Application of pervaporation in the bio-production of glycerol carbonate. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 132, 127-136.	1.8	13
270	Glycerine emulsions of diesel-biodiesel blends and their performance and emissions in a diesel engine. <i>Applied Energy</i> , 2018, 230, 148-159.	5.1	38
271	Engineered Microorganisms for the Production of Food Additives Approved by the European Union – A Systematic Analysis. <i>Frontiers in Microbiology</i> , 2018, 9, 1746.	1.5	49
272	Enzymatic synthesis of poly(glycerol sebacate) pre-polymer with crude glycerol, by-product from biodiesel production. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	6
273	In-situ glycerol aqueous phase reforming and phenol hydrogenation over Raney Ni <sup>®</sup> . <i>Chemical Engineering Journal</i> , 2018, 350, 181-191.	6.6	41
274	Iridium-based hydride transfer catalysts: from hydrogen storage to fine chemicals. <i>Chemical Communications</i> , 2018, 54, 7711-7724.	2.2	32



#	ARTICLE	IF	CITATIONS
275	Electrocatalytic valorisation of biomass derived chemicals. <i>Catalysis Science and Technology</i> , 2018, 8, 3216-3232.	2.1	105
276	Glycerol carbonate as a fuel additive for a sustainable future. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2171-2178.	2.5	38
277	Thermodynamic and kinetic studies for synthesis of glycerol carbonate from glycerol and diethyl carbonate over Ceâ€“NiO catalyst. <i>Chemical Papers</i> , 2018, 72, 2909-2919.	1.0	11
278	Modeling of Thermochemical Conversion of Glycerol: Pyrolysis and H <sub>2</sub> O and CO <sub>2</sub> Gasification. <i>Waste and Biomass Valorization</i> , 2018, 9, 2361-2371.	1.8	4
279	Experimental analysis of the effect of nano-metals and novel organic additives on performance and emissions of a diesel engine. <i>Fuel Processing Technology</i> , 2019, 196, 106166.	3.7	15
280	Synthesis and optimization of sago-based biochemical value chain. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
281	Yeasts for Bioconversion of Crude Glycerol to High-Value Chemicals. , 2019, , 389-451.		3
282	Construction of a synthetic pathway for the production of 1,3-propanediol from glucose. <i>Scientific Reports</i> , 2019, 9, 11576.	1.6	29
283	Green Optimization of the First Steps for the Synthesis of a Novel Surfactant: Towards the Elimination of CMR Solvents and the Drastic Reduction of the Used Solvent Volume. <i>ChemistrySelect</i> , 2019, 4, 8621-8625.	0.7	2
284	Acrylic Acid. , 2019, , 521-569.		0
285	Co-production of 1,3 propanediol and long-chain alkyl esters from crude glycerol. <i>New Biotechnology</i> , 2019, 53, 81-89.	2.4	11
286	A promising strategy for nutrient recovery using heterotrophic indigenous microflora from liquid biogas digestate. <i>Science of the Total Environment</i> , 2019, 690, 492-501.	3.9	19
287	On the kinetics of multiphase etherification of glycerol with isobutene. <i>Chemical Engineering Journal</i> , 2019, 375, 122037.	6.6	16
288	Decomposition by film boiling heat transfer of glycerol. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 873-880.	2.5	3
289	Toward Selective Dehydrogenation of Glycerol to Lactic Acid over Bimetallic Ptâ€“Co/CeO <sub>2</sub> Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 14548-14558.	1.8	25
290	An intrinsic kinetic model for liquidâ€“phase photocatalytic hydrogen production. <i>AIChE Journal</i> , 2019, 65, e16724.	1.8	20
291	Glycerol to Solketal for Fuel Additive: Recent Progress in Heterogeneous Catalysts. <i>Energies</i> , 2019, 12, 2872.	1.6	50
292	Development of denitrification in semi-automated moving bed biofilm reactors operated in a marine recirculating aquaculture system. <i>Aquaculture International</i> , 2019, 27, 1485-1501.	1.1	7

#	ARTICLE	IF	CITATIONS
293	Esterification of glycerol with acetic acid over SO <sub>3</sub> H-functionalized phenolic resin. <i>Fuel</i> , 2019, 255, 115842.	3.4	42
294	Microwave-assisted synthesis of glycerol carbonate by the transesterification of glycerol with dimethyl carbonate using <i>Musa acuminata</i> peel ash catalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 102, 276-282.	2.7	46
295	Glycerol-Derived Solvents: Synthesis and Properties of Symmetric Glyceryl Diethers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13004-13014.	3.2	27
296	Non-toxic printed supercapacitors operating in sub-zero conditions. <i>Scientific Reports</i> , 2019, 9, 14059.	1.6	22
298	Xanthan gum production by <i>Xanthomonas axonopodis</i> pv. <i>mangiferaeindicae</i> from glycerin of biodiesel in different media and addition of glucose. <i>Acta Scientiarum - Biological Sciences</i> , 2019, 41, 43661.	0.3	7
299	Developing a mathematical model for reforming of glycerol towards a comparative evaluation of the liquid vs. gas phase medium. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 26764-26772.	3.8	4
300	Techno-economic aspects of a safflower-based biorefinery plant co-producing bioethanol and biodiesel. <i>Energy Conversion and Management</i> , 2019, 201, 112184.	4.4	59
301	Solketal Production from Glycerol Ketalization with Acetone: Catalyst Selection and Thermodynamic and Kinetic Reaction Study. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 17746-17759.	1.8	48
302	Development of choline-based deep eutectic solvents for efficient concentrating of hemicelluloses in oil palm empty fruit bunches. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1619-1625.	1.2	6
303	Efficient and simultaneous cleaner production of biodiesel and glycerol carbonate in solvent-free system via statistical optimization. <i>Journal of Cleaner Production</i> , 2019, 218, 985-992.	4.6	20
304	The continuous combustion of glycerol in a fluidised bed. <i>Combustion and Flame</i> , 2019, 200, 60-68.	2.8	7
305	Canola oil/glycerol mixtures in a continuously operated FCC pilot plant and comparison with vacuum gas oil/glycerol mixtures. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019, 142, 107553.	1.8	5
306	Highly Active and Selective Nano H-ZSM-5 Catalyst with Short Channels along <i>z</i> -Axis for Glycerol Dehydration to Acrolein. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 12611-12622.	1.8	42
307	Enhanced Butanol Production Using Non-ionic Surfactant-Based Extractive Fermentation: Effect of Substrates and Immobilization of Cell. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 1209-1222.	1.4	4
308	Production of propylene glycol (1,2-propanediol) by the hydrogenolysis of glycerol in a fixed-bed downflow tubular reactor over a highly effective Cu-Zn bifunctional catalyst: effect of an acidic/basic support. <i>New Journal of Chemistry</i> , 2019, 43, 10073-10086.	1.4	24
309	The combustion of liquids and low-density solids in a cenospheric fluidised bed. <i>Combustion and Flame</i> , 2019, 206, 476-489.	2.8	17
310	Thermal arc plasma gasification of waste glycerol to syngas. <i>Applied Energy</i> , 2019, 251, 113306.	5.1	34
311	Simultaneous Production of Lipids and Carotenoids by the Red Yeast <i>Rhodotorula</i> from Waste Glycerol Fraction and Potato Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 589-607.	1.4	75

#	ARTICLE	IF	CITATIONS
312	Peculiarities of Glycerol Conversion to Chemicals Over Zeolite-Based Catalysts. <i>Frontiers in Chemistry</i> , 2019, 7, 233.	1.8	26
313	Gas-phase conversion of glycerol to allyl alcohol over vanadium-supported zeolite beta. <i>Catalysis Communications</i> , 2019, 127, 20-24.	1.6	18
314	Hydrogen production from crude glycerol in an alkaline microbial electrolysis cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17204-17213.	3.8	42
315	Production of propylene glycol (propane-1,2-diol) in vapor phase over Cu <sup>2+</sup> /Ni <sup>3+</sup> -Al <sub>2</sub> O <sub>3</sub> catalyst in a down flow tubular reactor: effect of catalyst calcination temperature and kinetic study. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019, 127, 523-542.	0.8	11
316	Effective biodiesel synthesis from palm fatty acid distillate (PFAD) using carbon-based solid acid catalyst derived glycerol. <i>Renewable Energy</i> , 2019, 142, 658-667.	4.3	30
317	Rhizomucor miehei Lipase Supported on Inorganic Solids, as Biocatalyst for the Synthesis of Biofuels: Improving the Experimental Conditions by Response Surface Methodology. <i>Energies</i> , 2019, 12, 831.	1.6	10
318	Selective photoelectrochemical oxidation of glycerol to high value-added dihydroxyacetone. <i>Nature Communications</i> , 2019, 10, 1779.	5.8	185
319	Overexpression of the genes of glycerol catabolism and glycerol facilitator improves glycerol conversion to ethanol in the methylotrophic thermotolerant yeast <i>Ogataea polymorpha</i> . <i>Yeast</i> , 2019, 36, 329-339.	0.8	13
320	Improved production of bacterial cellulose from waste glycerol through investigation of inhibitory effects of crude glycerol-derived compounds by <i>Gluconacetobacter xylinus</i> . <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 75, 158-163.	2.9	50
321	Process design and economics for production of advanced biofuels from genetically modified lipid-producing sorghum. <i>Applied Energy</i> , 2019, 239, 1459-1470.	5.1	14
322	The role of impurities in the La <sub>2</sub> O <sub>3</sub> catalysed carboxylation of crude glycerol. <i>Catalysis Letters</i> , 2019, 149, 1403-1414.	1.4	35
323	Determining butanol inhibition kinetics on the growth of <i>Clostridium pasteurianum</i> based on continuous operation and pulse substrate additions. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 1559-1566.	1.6	2
324	Adaptability of <i>Klebsiella pneumoniae</i> 2e, a Newly Isolated 1,3-Propanediol-Producing Strain, to Crude Glycerol as Revealed by Genomic Profiling. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	11
325	Esterification of Glycerol With Oleic Acid Over Hydrophobic Zirconia-Silica Acid Catalyst and Commercial Acid Catalyst: Optimization and Influence of Catalyst Acidity. <i>Frontiers in Chemistry</i> , 2019, 7, 205.	1.8	30
326	Influence of Boron, Tungsten and Molybdenum Modifiers on Zirconia Based Pt Catalyst for Glycerol Valorization. <i>Nanomaterials</i> , 2019, 9, 509.	1.9	13
327	Biodiesel and Crude Glycerol from Waste Frying Oil: Production, Characterization and Evaluation of Biodiesel Oxidative Stability with Diesel Blends. <i>Sustainability</i> , 2019, 11, 1937.	1.6	21
328	Assessment of the Dispersion of Glycerol in Dimethyl Carbonate in a Stirred Tank. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 6933-6947.	1.8	4
329	Glycerin waste as sustainable precursor for activated carbon production: Adsorption properties and application in supercapacitors. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103059.	3.3	28

#	ARTICLE	IF	CITATIONS
330	Improvement of cold flow properties of a new biofuel derived from glycerol. <i>Fuel</i> , 2019, 242, 794-803.	3.4	27
331	Recent Advances in the Catalytic Production of Platform Chemicals from Holocellulosic Biomass. <i>ChemCatChem</i> , 2019, 11, 2022-2042.	1.8	92
332	Design and manufacturing of an ultrasonic reactor for biodiesel obtaining by transesterification. <i>DYNA (Colombia)</i> , 2019, 86, 75-83.	0.2	3
333	Selective Catalytic Transfer Hydrogenolysis of Glycerol to 2-Isopropoxy-Propan-1-ol over Noble Metal Ion-Exchanged Mordenite Zeolite. <i>Catalysts</i> , 2019, 9, 885.	1.6	11
334	Kinetic study of the effects of pH on the photocatalytic hydrogen production from alcohols. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 32030-32041.	3.8	32
335	Glycerol Electro-Oxidation in Alkaline Media and Alkaline Direct Glycerol Fuel Cells. <i>Catalysts</i> , 2019, 9, 980.	1.6	55
336	Waste Cooking Oil into Biodiesel Transformation and its Economical Potency through Circular Economic Model in Semarang Barat Area Indonesia. <i>E3S Web of Conferences</i> , 2019, 125, 14010.	0.2	2
337	Biodiesel at the Crossroads: A Critical Review. <i>Catalysts</i> , 2019, 9, 1033.	1.6	57
338	Test method for determination of different biodiesels (fatty acid alkyl esters) content in diesel fuel using FTIR-ATR. <i>Renewable Energy</i> , 2019, 133, 1231-1235.	4.3	23
339	Competitiveness analysis of social soybeans in biodiesel production in Brazil. <i>Renewable Energy</i> , 2019, 133, 1147-1157.	4.3	66
340	Two-stage microbial conversion of crude glycerol to 1,3-propanediol and polyhydroxyalkanoates after pretreatment. <i>Journal of Environmental Management</i> , 2019, 232, 615-624.	3.8	25
341	Kinetic Modeling of Supercritical Interesterification with Heterogeneous Catalyst to Produce Methyl Esters Considering Degradation Effects. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 816-827.	1.8	20
342	Thermoplasmonic-induced energy-efficient catalytic oxidation of glycerol over gold supported catalysts using visible light at ambient temperature. <i>Applied Catalysis A: General</i> , 2019, 572, 9-14.	2.2	10
343	An Overview of Recent Research in the Conversion of Glycerol into Biofuels, Fuel Additives and other Bio-Based Chemicals. <i>Catalysts</i> , 2019, 9, 15.	1.6	127
344	Synthesis, Performance and Emission Quality Assessment of Ecodiesel from Castor Oil in Diesel/Biofuel/Alcohol Triple Blends in a Diesel Engine. <i>Catalysts</i> , 2019, 9, 40.	1.6	27
345	Synthesis and characterization of a biopolymer of glycerol and macadamia oil. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 161-170.	2.0	10
346	Evaluation of a Passive Anion Exchange Membrane Micro Fuel Cell Using Glycerol from Several Sources. <i>Fuel Cells</i> , 2019, 19, 10-18.	1.5	5
347	Enhanced Productivity in Glycerol Carbonate Synthesis under Continuous Flow Conditions: Combination of Immobilized Lipases from Porcine Pancreas and <i>Candida antarctica</i> (CALB) on Epoxy Resins. <i>ACS Omega</i> , 2019, 4, 860-869.	1.6	30

#	ARTICLE	IF	CITATIONS
348	Elucidating Molecular Interactions in Glycerol Adsorption at the Metal-Water Interface with Density Functional Theory. <i>Langmuir</i> , 2019, 35, 4791-4805.	1.6	10
349	Gold Catalysts for the Selective Oxidation of Biomass-Derived Products. <i>ChemCatChem</i> , 2019, 11, 309-323.	1.8	47
350	Development of a Glycerol Based Polymer for Additive Manufacturing. <i>Waste and Biomass Valorization</i> , 2019, 10, 3115-3124.	1.8	2
351	The influence of SiO <sub>2</sub> doping on the Ni/ZrO <sub>2</sub> supported catalyst for hydrogen production through the glycerol steam reforming reaction. <i>Catalysis Today</i> , 2019, 319, 206-219.	2.2	67
352	Possibility of the Utilization of Waste Glycerol as an Addition to Wood Pellets. <i>Waste and Biomass Valorization</i> , 2019, 10, 2193-2199.	1.8	27
353	Batch and Repeated-Batch Fermentation for 1,3-Dihydroxyacetone Production from Waste Glycerol Using Free, Immobilized and Resting <i>Gluconobacter oxydans</i> Cells. <i>Waste and Biomass Valorization</i> , 2019, 10, 2455-2465.	1.8	15
354	CO <sub>2</sub> role on the glycerol conversion over catalyst containing CaO-SiO <sub>2</sub> doped with Ag and Pt. <i>Catalysis Today</i> , 2020, 344, 199-211.	2.2	8
355	Integral process for obtaining acetins from crude glycerol and their effect on the octane index. <i>Chemical Engineering Communications</i> , 2020, 207, 231-241.	1.5	11
356	Methanolysis of Simarouba <i>Glauca</i> DC oil with hydrotalcite-type ZnCuAl catalysts. <i>Catalysis Today</i> , 2020, 349, 48-56.	2.2	5
357	One-pot synthesis of lactic acid from glycerol over a Pt/L-Nb <sub>2</sub> O <sub>5</sub> catalyst under base-free conditions. <i>Fuel Processing Technology</i> , 2020, 197, 106202.	3.7	24
358	Model-fitting approach to kinetic analysis of non-isothermal pyrolysis of pure and crude glycerol. <i>Renewable Energy</i> , 2020, 145, 1693-1708.	4.3	23
359	Factors affecting the activity and selectivity of niobia-based gold catalysts in liquid phase glycerol oxidation. <i>Catalysis Today</i> , 2020, 354, 36-43.	2.2	7
360	Surface treatment of eucalyptus wood for improved HDPE composites properties. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48619.	1.3	14
361	Development of a green one-step neutralization process for valorization of crude glycerol obtained from biodiesel. <i>Environmental Science and Pollution Research</i> , 2020, 27, 28500-28509.	2.7	13
362	Kinetic study of fuel bio-additive synthesis from glycerol esterification with acetic acid over acid polymeric resin as catalyst. <i>Fuel</i> , 2020, 264, 116879.	3.4	34
363	Readily Scalable Methodology for the Synthesis of Nonsymmetric Glyceryl Diethers by a Tandem Acid-/Base-Catalyzed Process. <i>Organic Process Research and Development</i> , 2020, 24, 154-162.	1.3	5
364	Assessment of crude glycerol utilization for sustainable development of biorefineries. , 2020, , 195-212.		13
365	Investigation of glycerolysis of urea over various ZnMeO (Me = Co, Cr, and Fe) mixed oxide catalysts. <i>Catalysis Today</i> , 2020, 352, 80-87.	2.2	8

#	ARTICLE	IF	CITATIONS
366	Malic acid production from renewables: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 513-526.	1.6	98
367	Electrochemical valorization of crude glycerol in alkaline medium for energy conversion using Pd, Au and PdAu nanomaterials. <i>Fuel</i> , 2020, 262, 116556.	3.4	29
368	Perspectives and challenges of small scale plant microalgae cultivation. Evidences from Southern Italy. <i>Algal Research</i> , 2020, 45, 101693.	2.4	9
369	A review of recent developments on kinetics parameters for glycerol electrochemical conversion â€œ A by-product of biodiesel. <i>Science of the Total Environment</i> , 2020, 705, 135137.	3.9	57
370	A review on recent trends in reactor systems and azeotrope separation strategies for catalytic conversion of biodiesel-derived glycerol. <i>Science of the Total Environment</i> , 2020, 719, 134595.	3.9	25
371	Production of long alkyl ethers in homogeneous systems: A study of glyceryl monododecyl ethers. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 131, 829-844.	0.8	2
372	Uncovering the True Cost of Ionic Liquids using Monetization. <i>Computer Aided Chemical Engineering</i> , 2020, 48, 1825-1830.	0.3	6
373	Comparative process modeling and techno-economic evaluation of renewable hydrogen production by glycerol reforming in aqueous and gaseous phases. <i>Energy Conversion and Management</i> , 2020, 225, 113483.	4.4	37
374	Influence of Heterogeneous Catalysts and Reaction Parameters on the Acetylation of Glycerol to Acetin: A Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7155.	1.3	20
375	Energetic and Kinetic Control Aspects to Explain the Performances and Elucidate the Mechanisms of Oriented Membrane Processes for Extraction and Recovery of Glycerol Compound. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15967-15979.	3.2	2
376	Green Synthesis of Silver Nanoparticles with Size Distribution Depending on Reducing Species in Glycerol at Ambient pH and Temperatures. <i>ACS Omega</i> , 2020, 5, 16246-16254.	1.6	46
377	Optimization of process parameters using response surface methodology (RSM) for power generation via electrooxidation of glycerol in T-Shaped air breathing microfluidic fuel cell (MFC). <i>International Journal of Hydrogen Energy</i> , 2020, 45, 33968-33979.	3.8	21
378	Coupling Hydrogenation of Guaiacol with In Situ Hydrogen Production by Glycerol Aqueous Reforming over Ni/Al <sub>2</sub> O <sub>3</sub> and Ni-X/Al <sub>2</sub> O <sub>3</sub> (X = Cu, Mo, P) Catalysts. <i>Nanomaterials</i> , 2020, 10, 1420.	1.9	10
379	Hydrophobic-hydrophilic balance of ZSM-5 zeolites on the two-phase ketalization of glycerol with acetone. <i>Catalysis Today</i> , 2020, , .	2.2	11
380	Green extractions to obtain value-added elephant grass co-products in an ethanol biorefinery. <i>Journal of Cleaner Production</i> , 2020, 274, 122769.	4.6	9
381	Utilization of Solid Waste from Refined Sugar Industry (Filter Cake) as Biodegradable Foam (Biofoam). <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 473, 012108.	0.2	1
382	Recent Advances in Heterogeneous Photoâ€œDriven Oxidation of Organic Molecules by Reactive Oxygen Species. <i>ChemSusChem</i> , 2020, 13, 5173-5184.	3.6	53
383	Bio-inspired redox mediated electrolyte for high performance flexible supercapacitor applications over broad temperature domain. <i>Journal of Power Sources</i> , 2020, 474, 228544.	4.0	47

#	ARTICLE	IF	CITATIONS
384	Hepatic Glycerol Metabolism-Related Genes in Carnivorous Rainbow Trout ( <i>Oncorhynchus mykiss</i> ): Insights Into Molecular Characteristics, Ontogenesis, and Nutritional Regulation. <i>Frontiers in Physiology</i> , 2020, 11, 882.	1.3	8
385	Fuel additive synthesis by acetylation of glycerol using activated carbon/UiO-66 composite materials. <i>Fuel</i> , 2020, 281, 118584.	3.4	26
386	Catalytic reforming of oxygenated hydrocarbons for the hydrogen production: an outlook. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8441-8464.	2.9	27
387	Biomass-glycerol briquettes are not necessarily mechanically stable and energetically effective. <i>Waste Disposal &amp; Sustainable Energy</i> , 2020, 2, 291-303.	1.1	1
388	Synthesis and Properties of 1,2,3-Triethoxypropane: A Glycerol-Derived Green Solvent Candidate. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 20190-20200.	1.8	15
389	Effects of immobilization of <i>Actinobacillus succinogenes</i> on efficiency of bio-succinic acid production from glycerol. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 643-654.	2.9	9
390	Metabolism, Ketosis Treatment and Milk Production after Using Glycerol in Dairy Cows: A Review. <i>Animals</i> , 2020, 10, 1379.	1.0	10
391	Optimisation of xanthan production on glycerol-based medium using response surface methodology. <i>Brazilian Journal of Chemical Engineering</i> , 2020, 37, 617-627.	0.7	2
392	Evidence of the illegitimacy of the additive approach to the determination of the thermophysical properties of coalâ€water fuel with glycerol. <i>International Journal of Energy Research</i> , 2020, 44, 12056-12065.	2.2	7
393	Thermo-Mechanical Properties of a Wood Fiber Insulation Board Using a Bio-Based Adhesive as a Binder. <i>Buildings</i> , 2020, 10, 152.	1.4	21
394	Glycerol Oxidation over Supported Gold Catalysts: The Combined Effect of Au Particle Size and Basicity of Support. <i>Processes</i> , 2020, 8, 1016.	1.3	8
395	Advances in solid catalysts for selective hydrogenolysis of glycerol to 1,3-propanediol. <i>Catalysis Reviews - Science and Engineering</i> , 2021, 63, 639-703.	5.7	24
396	Glycerol and Glycerol-Based Deep Eutectic Mixtures as Emerging Green Solvents for Polyphenol Extraction: The Evidence So Far. <i>Molecules</i> , 2020, 25, 5842.	1.7	38
397	Effective Combustion of Glycerol in a Compression Ignition Engine Equipped with Double Direct Fuel Injection. <i>Energies</i> , 2020, 13, 6349.	1.6	8
398	Rib shaped carbon catalyst derived from <i>Zea mays L.</i> cob for ketalization of glycerol. <i>RSC Advances</i> , 2020, 10, 43334-43342.	1.7	7
399	Nanoparticle cages as microreactors for producing acrolein from glycerol in the liquid phase. <i>New Journal of Chemistry</i> , 2020, 44, 21332-21337.	1.4	3
400	Short-Chain Polyglycerol Production via Microwave-Assisted Solventless Glycerol Polymerization Process Over Lioh-Modified Aluminium Pillared Clay Catalyst: Parametric Study. <i>Processes</i> , 2020, 8, 1093.	1.3	2
401	A review on influencing parameters of biodiesel production and purification processes. <i>Current Research in Green and Sustainable Chemistry</i> , 2020, 1-2, 1-6.	2.9	110

#	ARTICLE	IF	CITATIONS
402	Sn(II)-Exchanged Keggin Silicotungstic Acid-Catalyzed Etherification of Glycerol and Ethylene Glycol with Alkyl Alcohols. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 9858-9868.	1.8	25
404	Environmentally Friendly and Regioselective One-Pot Synthesis of Imines and Oxazolidines Serinol Derivatives and Their Use for Rubber Cross-Linking. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9356-9366.	3.2	9
405	A review of aerobic glycerol oxidation processes using heterogeneous catalysts: a sustainable pathway for the production of dihydroxyacetone. <i>Catalysis Reviews - Science and Engineering</i> , 2021, 63, 422-511.	5.7	34
406	Techno-economic analysis of processes for biodiesel production with integrated co-production of higher added value products from glycerol. <i>Biofuels</i> , 2022, 13, 489-496.	1.4	10
407	Performance Modelling of the Bioelectrochemical Glycerol Oxidation by a Co-culture of <i>Geobacter Sulfurreducens</i> and <i>Raoultella Electrica</i> . <i>ChemElectroChem</i> , 2020, 7, 1877-1888.	1.7	6
408	Preparation of activated charcoal from <i>Acrocomia aculeata</i> for purification of pretreated crude glycerol. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2441-2449.	2.9	12
409	Ultrafast Glycerol Conversion to Lactic Acid over Magnetically Recoverable NiO <sub>x</sub> @C Catalysts. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 9912-9925.	1.8	26
410	Continuous production of fatty acid methyl esters and high-purity glycerol over a dolomite-derived extrudate catalyst in a countercurrent-flow trickle-bed reactor. <i>Renewable Energy</i> , 2020, 157, 626-636.	4.3	11
411	A new kinetic model for simultaneous interesterification and esterification reactions from methyl acetate and highly acidic oil. <i>Renewable Energy</i> , 2020, 156, 579-590.	4.3	12
412	Valorisation of glycerol and CO <sub>2</sub> to produce biodegradable polymer nanoparticles with a high percentage of bio-based components. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 40, 101192.	3.3	13
413	Exhaust gas recirculation with highly oxygenated fuels in gas turbines. <i>Fuel</i> , 2020, 278, 118285.	3.4	17
414	Efficient synthesis of 3-methylindole using biomass-derived glycerol and aniline over ZnO and CeO <sub>2</sub> modified Ag/SBA-15 catalysts. <i>Molecular Catalysis</i> , 2020, 493, 111038.	1.0	4
415	Environmental and Economic Aspects of Combustion of Biomass Pellets Containing a Waste Glycerol. <i>Combustion Science and Technology</i> , 2021, 193, 1998-2008.	1.2	10
416	Water removal in the alkaline electrochemical valorization of glycerol by pervaporation. <i>Separation and Purification Technology</i> , 2020, 248, 116943.	3.9	6
417	Bioalcohol Reforming: An Overview of the Recent Advances for the Enhancement of Catalyst Stability. <i>Catalysts</i> , 2020, 10, 665.	1.6	39
418	The Cultivation of Lipid-Rich Microalgae Biomass as Anaerobic Digestate Valorization Technology—a Pilot-Scale Study. <i>Processes</i> , 2020, 8, 517.	1.3	29
419	100 Years Later, What Is New in Glycerol Bioproduction?. <i>Trends in Biotechnology</i> , 2020, 38, 907-916.	4.9	28
420	Electrical Conductivity and Electromagnetic Shielding Effectiveness of Bio-Composites. <i>Journal of Composites Science</i> , 2020, 4, 28.	1.4	16



#	ARTICLE	IF	CITATIONS
421	Sustainable production of bio-based chemicals and polymers via integrated biomass refining and bioprocessing in a circular bioeconomy context. <i>Bioresource Technology</i> , 2020, 307, 123093.	4.8	104
422	Highly Efficient and Sustainable Synthesis of Neoglycoproteins Using Galactosidases. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6282-6292.	3.2	7
423	Obtaining of value added chemicals from catalytic dehydration of glycerol. <i>Catalysis Today</i> , 2020, 356, 349-358.	2.2	8
424	Effect of heat-treated canola meal and glycerol inclusion on performance and gastrointestinal development of Holstein calves. <i>Journal of Dairy Science</i> , 2020, 103, 7998-8019.	1.4	6
425	Fungal mycelium classified in different material families based on glycerol treatment. <i>Communications Biology</i> , 2020, 3, 334.	2.0	37
426	Valorization of solid waste from oil refining and biodiesel industries for the biorecovery of rare earth elements. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2891-2900.	2.9	3
427	Renewable hydrogen production from steam reforming of glycerol (SRG) over ceria-modified $\gamma$ -alumina supported Ni catalyst. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2328-2336.	1.7	13
428	Electrocatalysis by design: Enhanced electro-oxidation of glycerol at NiOx nanoparticle modified 3D porous carbon felts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 9658-9668.	3.8	30
429	Vapor-liquid equilibrium of 3-ethoxy-1,2-propanediol + water/ethanol/diethyl ether/glycerol/1,2-propanediol at different pressures. <i>Fluid Phase Equilibria</i> , 2020, 512, 112519.	1.4	2
430	Enzymatic one-pot synthesis of renewable and biodegradable surfactants in supercritical carbon dioxide (scCO <sub>2</sub> ). <i>Green Chemistry</i> , 2020, 22, 1308-1318.	4.6	12
431	Development of Au and 1D Hydroxyapatite Nanohybrids Supported on 2D Boron Nitride Sheets as Highly Efficient Catalysts for Dehydrogenating Glycerol to Lactic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7278-7289.	3.2	26
432	Controlling the selectivity and deactivation of H-ZSM-5 by tuning b-axis channel length for glycerol dehydration to acrolein. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 88, 127-136.	2.9	30
433	Role of life-cycle externalities in the valuation of protic ionic liquids – a case study in biomass pretreatment solvents. <i>Green Chemistry</i> , 2020, 22, 3132-3140.	4.6	76
435	Effect of utilization of crude glycerol as substrate on fatty acid composition of an oleaginous yeast <i>Rhodotorula mucilagenosa</i> IIPL32: Assessment of nutritional indices. <i>Bioresource Technology</i> , 2020, 309, 123330.	4.8	33
436	A Review of Catalytic Upgrading of Biodiesel Waste Glycerol to Valuable Products. <i>Current Green Chemistry</i> , 2020, 7, 259-266.	0.7	7
437	Use of glycerol, waste glycerol from biodiesel production and other protic solvents in bioactive $\alpha,\beta$ -unsaturated ketones synthesis. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 16, 100250.	1.6	5
438	Catalytic upgrading of glycerol, a promising biodiesel coproduct. , 2020, , 395-405.		2
439	Vehicle Emissions from a Glycerol-Derived Biofuel under Cold and Warm Conditions. <i>Energy &amp; Fuels</i> , 2020, 34, 6020-6029.	2.5	8

#	ARTICLE	IF	CITATIONS
440	Structure-selectivity relationship of a zirconia-based heterogeneous acid catalyst in the production of green mono- and diolate product. <i>Clean Technologies and Environmental Policy</i> , 2021, 23, 19-29.	2.1	4
441	Glycerolysis of free fatty acids: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 137, 110501.	8.2	35
442	Gasification of municipal solid waste blends with biomass for energy production and resources recovery: Current status, hybrid technologies and innovative prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 136, 110375.	8.2	134
443	Economic assessment of hydrogen and electricity cogeneration through steam reforming-SOFC system in the Brazilian biodiesel industry. <i>Journal of Cleaner Production</i> , 2021, 279, 123814.	4.6	18
444	Aqueous phase hydrogenolysis of glycerol over Ni/Al-Fe catalysts without external hydrogen addition. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119598.	10.8	30
445	Leachate after aerobic stabilization of municipal solid waste supplemented by waste glycerine from saponification to improve biogas production during co-digestion. <i>Biomass and Bioenergy</i> , 2021, 144, 105908.	2.9	3
446	Hyperbranched poly(glycerol esteramide): A biocompatible drug carrier from glycerol feedstock and dicarboxylic acid. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50126.	1.3	2
447	Glycerol-modified cashew nut shell liquid as eco-friendly flow improvers for waxy crude oil. <i>Petroleum Science and Technology</i> , 2021, 39, 101-114.	0.7	9
448	Influence analysis of glycerol in fumaric acid co-fermentation process by <i>Rhizopus arrhizus</i> . <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104750.	3.3	2
449	Exergoenvironmental analysis of hydrogen production through glycerol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1385-1402.	3.8	27
450	Biodiesel fuel synthesis by transesterification of triglycerides with carboxylate esters of low molecular weight. <i>Reviews in Chemical Engineering</i> , 2021, 37, 259-276.	2.3	7
451	Parametric study and optimization of bio-hydrogen production using steam reforming of glycerol and biodiesel fuel mixtures. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 8713-8725.	2.9	6
452	Green solvents for eco-friendly synthesis of bioactive heterocycles. , 2021, , 393-470.		4
453	Biosolvents as green solvents in the pharmaceutical industry. , 2021, , 105-149.		1
454	Glycerol in energy transportation: a state-of-the-art review. <i>Green Chemistry</i> , 2021, 23, 7865-7889.	4.6	29
455	A new amido-phosphane as ligand for copper and silver complexes. Synthesis, characterization and catalytic application for azide-alkyne cycloaddition in glycerol. <i>Dalton Transactions</i> , 2021, 50, 6109-6125.	1.6	10
456	Advancing photoreforming of organics: highlights on photocatalyst and system designs for selective oxidation reactions. <i>Energy and Environmental Science</i> , 2021, 14, 1140-1175.	15.6	128
457	Insight into the Mechanism of Glycerol Dehydration and Subsequent Pyridine Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3095-3103.	3.2	23

#	ARTICLE	IF	CITATIONS
458	Light-Driven Alcohol Splitting by Heterogeneous Photocatalysis: Recent Advances, Mechanism and Prospects. <i>Chemistry - an Asian Journal</i> , 2021, 16, 460-473.	1.7	16
459	Uma revisão sobre: tratamento biológico de drenagem de mina " cenário atualizado, perspectivas e recomendações de futuros trabalhos. <i>Engenharia Sanitaria E Ambiental</i> , 2021, 26, 69-76.	0.1	0
460	Electrochemical Routes for the Valorization of Biomass-Derived Feedstocks: From Chemistry to Application. <i>ACS Energy Letters</i> , 0, , 1205-1270.	8.8	130
461	An overview on the conversion of glycerol to value-added industrial products via chemical and biochemical routes. <i>Biotechnology and Applied Biochemistry</i> , 2022, 69, 2794-2818.	1.4	87
462	Selective Hydrogenolysis of Biomass-Derived Xylitol to Glycols: Reaction Network and Kinetics. <i>Chemical Engineering and Technology</i> , 2021, 44, 761-772.	0.9	5
463	Optimization of glycerol consumption in wild-type <i>Escherichia coli</i> using central carbon modeling as an alternative approach. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 825-839.	1.9	2
464	Selection, Sizing, and Modeling of a Trickle Bed Reactor to Produce 1,2 Propanediol from Biodiesel Glycerol Residue. <i>Processes</i> , 2021, 9, 479.	1.3	6
465	Technical feasibility of biodiesel production from virgin oil and waste cooking oil: Comparison between traditional and innovative process based on hydrodynamic cavitation. <i>Waste Management</i> , 2021, 122, 15-25.	3.7	39
466	Dietary glycerol inclusion decreases growth performance and nitrogen retention efficiency in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Aquaculture</i> , 2021, 535, 736383.	1.7	5
467	Poly(3-hydroxypropionate): Biosynthesis Pathways and Malonyl-CoA Biosensor Material Properties. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 646995.	2.0	8
468	Valorisation of low fatty acid content waste cooking oil into biodiesel through transesterification using a basic heterogeneous calcium-based catalyst. <i>Biomass and Bioenergy</i> , 2021, 146, 105984.	2.9	34
469	Platform molecule from sustainable raw materials; case study succinic acid. <i>Brazilian Journal of Chemical Engineering</i> , 2021, 38, 215-239.	0.7	8
470	Use of Bioproducts Derived from Mixed Microbial Cultures Grown with Crude Glycerol to Protect Recycled Concrete Surfaces. <i>Materials</i> , 2021, 14, 2057.	1.3	1
471	Flame characteristics of glycerol/methanol blends in a swirl-stabilised gas turbine burner. <i>Fuel</i> , 2021, 290, 119968.	3.4	11
472	Environmentally friendly adhesives derived from glycerol-based polymers. <i>Journal of Adhesion Science and Technology</i> , 0, , 1-11.	1.4	3
473	Dihydroxyacetone Production: From Glycerol Catalytic Oxidation with Commercial Catalysts to Chromatographic Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 10551-10565.	1.8	6
474	Hydrogenolysis of glycerol to propanediols over silicotungstic acid catalysts intercalated with CuZnFe hydrotalcite-like compounds. <i>Catalysis Today</i> , 2021, 368, 224-231.	2.2	15
475	Challenges & Opportunities on Catalytic Conversion of Glycerol to Value Added Chemicals. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2021, 16, 525-547.	0.5	3

#	ARTICLE	IF	CITATIONS
476	Potential of the crude glycerol and citric acid mixture as a binder in medium-density fiberboard manufacturing. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 1141.	1.3	4
477	Detailed examination of the combustion of diesel and glycerol emulsions in a compression ignition engine. <i>Fuel</i> , 2021, 291, 120147.	3.4	14
478	Acetylation of biodiesel glycerin using glycerin and glucose derived catalysts. <i>Journal of Cleaner Production</i> , 2021, 297, 126686.	4.6	20
479	Biodiesel Glycerin Valorization into Oxygenated Fuel Additives. <i>Catalysis Letters</i> , 2022, 152, 513-522.	1.4	4
480	Cobalt oxide promoted tin oxide catalysts for highly selective glycerol acetalization reaction. <i>Inorganic Chemistry Communication</i> , 2021, 128, 108578.	1.8	14
481	Role of Glycerol Oxidation Pathways in the Reductive Acid Leaching Kinetics of Manganese Nodules Using Glycerol. <i>ACS Omega</i> , 2021, 6, 14903-14910.	1.6	6
482	Techno-economic feasibility of industrial production of biofuels by glycerol etherification reaction with isobutene or tert-butyl alcohol assisted by vapor-permeation membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 98, 413-424.	2.9	11
483	Effects of ultrasound irradiations time over Ni-Mo-Al <sub>2</sub> O <sub>3</sub> catalyst synthesis for 1,3-Propanediol selectively via aqueous phase reforming of glycerol. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, 3, 100096.	2.9	10
484	Drying properties and DNA content of saliva samples taken before, during and after chewing gum. <i>Australian Journal of Forensic Sciences</i> , 2022, 54, 861-870.	0.7	2
485	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
486	Poly (glycerol adipate) (PGA) backbone modifications with a library of functional diols: Chemical and physical effects. <i>Polymer</i> , 2021, 228, 123912.	1.8	18
487	A conceptual evaluation of a new multifunctional reactor containing glycerol steam reforming and nitrobenzene hydrogenation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 164, 108405.	1.8	12
488	Hydrogenolysis of glycerol to 1,3-propanediol over H-ZSM-5-supported iridium and rhenium oxide catalysts. <i>Catalysis Today</i> , 2022, 397-399, 356-364.	2.2	7
489	1,2-Propanediol Production from Glycerol Derived from Biodiesel's Production: Technical and Economic Study. <i>Energies</i> , 2021, 14, 5081.	1.6	9
490	The influence of oriented external electric field on lipase catalyzed triglyceride hydrolysis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 165, 108452.	1.8	3
491	Market Prospecting and Assessment of the Economic Potential of Glycerol from Biodiesel. , 0, , .		12
492	Co-assembly and Structure of Sodium Dodecylsulfate and other n-Alkyl Sulfates in Glycerol: n-Alkyl Sulfate-Glycerol Crystal Phase. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 442-454.	5.0	3
493	An Active OMS <sub>2</sub> Supported Catalyst for Hydrogenolysis of Glycerol. <i>ChemistrySelect</i> , 2021, 6, 8700-8708.	0.7	2

#	ARTICLE	IF	CITATIONS
494	Synthesis and Properties of Symmetric Glycerol-Derived 1,2,3-Triethers and 1,3-Diether-2-Ketones for CO <sub>2</sub> Absorption. <i>Chemical Engineering Science</i> , 2021, 248, 117150.	1.9	9
495	E-Cigarette Toxicology. <i>Annual Review of Pharmacology and Toxicology</i> , 2022, 62, 301-322.	4.2	54
496	Oxidative steam reforming of glycerol. A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 148, 111299.	8.2	19
497	Nuclear-driven production of renewable fuel additives from waste organics. <i>Communications Chemistry</i> , 2021, 4, .	2.0	4
498	Biobased poly(glycerol citrate) synthesis optimization via design of experiments. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3982-3994.	1.6	8
499	Specific Features of the Ignition Behavior of Coal-Water Fuel with the Addition of Glycerol. <i>Combustion Science and Technology</i> , 2023, 195, 1084-1105.	1.2	8
500	Catalytic deoxygenation of palm oil and its residue in green diesel production: A current technological review. <i>Chemical Engineering Research and Design</i> , 2021, 174, 158-187.	2.7	27
501	Bioinspired co-polyesters of hydroxy-fatty acids extracted from tomato peel agro-wastes and glycerol with tunable mechanical, thermal and barrier properties. <i>Industrial Crops and Products</i> , 2021, 170, 113718.	2.5	17
502	Fabrication of MOFs™ derivatives assisted perovskite nanocrystal on TiO <sub>2</sub> photoanode for photoelectrochemical glycerol oxidation with simultaneous hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120382.	10.8	30
503	An experimental study of gas solubility in glycerin based drilling fluid applied to well control. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109194.	2.1	6
504	Effect of impurities of CH <sub>3</sub> OH, CH <sub>3</sub> COOH, and KOH on aqueous phase reforming of glycerol over mesoporous Ni-Cu/CeO <sub>2</sub> catalyst. <i>Journal of the Energy Institute</i> , 2021, 99, 198-208.	2.7	14
505	Aqueous phase reforming of biodiesel byproduct glycerol over mesoporous Ni-Cu/CeO <sub>2</sub> for renewable hydrogen production. <i>Fuel</i> , 2022, 308, 122014.	3.4	44
506	Application of deep eutectic solvent in biodiesel reaction: RSM optimization, CI engine test, cost analysis and research dynamics. <i>Fuel</i> , 2022, 307, 121933.	3.4	18
507	Catalytic Conversion of Biomass-Derived Glycerol to Value-Added Chemicals. , 2021, , 459-504.		2
508	Experimental and computational study on roles of WO <sub>x</sub> promoting strong metal support promoter interaction in Pt catalysts during glycerol hydrogenolysis. <i>Scientific Reports</i> , 2021, 11, 530.	1.6	8
509	Sustainable treatment of real-mine drainage using crude glycerol and brewery waste as electron donors in a micro-aerobic system. <i>Journal of Water Process Engineering</i> , 2020, 36, 101297.	2.6	5
510	A critical review on life cycle analysis of algae biodiesel: current challenges and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110143.	8.2	71
511	Development of Kinetic Model for Hydrogenolysis of Glycerol over Cu/MgO Catalyst in a Slurry Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 101-110.	1.8	28

#	ARTICLE	IF	CITATIONS
512	Electrocatalytic Oxidation of Glycerol to Formic Acid by CuCo <sub>2</sub> O <sub>4</sub> Spinel Oxide Nanostructure Catalysts. ACS Catalysis, 2020, 10, 6741-6752.	5.5	221
513	Green Fuels and Fuel Additives Production in Simulated Moving Bed Reactors. RSC Green Chemistry, 2018, , 145-165.	0.0	2
515	Delignification of softwood by glycerol from biodiesel by-product I: model reaction using glycerol and fatty acid sodium soap mixture for pretreatment on bioethanol production. Journal of Wood Science, 2019, 65, .	0.9	8
516	Kinetic Analysis of Sodium Lactate Synthesis from Glycerol in Alkaline Aqueous Solution at High Temperature and Prediction of Optimum Conditions. Kagaku Kogaku Ronbunshu, 2016, 42, 148-154.	0.1	2
517	The aspects of microbial biomass use in the utilization of selected waste from the agro-food industry. Open Life Sciences, 2020, 15, 787-796.	0.6	22
518	SIMULTANEOUS LIPID AND CAROTENOID PRODUCTION BY STEPWISE FED-BATCH CULTIVATION OF Rhodotorula mucilaginosa WITH CRUDE GLYCEROL. Brazilian Journal of Chemical Engineering, 2019, 36, 1099-1108.	0.7	8
519	Produção biotecnológica de produtos de valor agregado utilizando glicerol residual proveniente da sãntese de biodiesel. Evidência, 2017, 17, 63-86.	0.1	2
520	Investigation of glycerol doping on ignition delay times and laminar burning velocities of gasoline and diesel fuel. Silniki Spalinowe, 2017, 169, 167-175.	0.4	3
521	Effect of the initial glycerol concentration in the medium on the xanthan biosynthesis. Acta Periodica Technologica, 2014, , 239-246.	0.5	6
522	Solvent-Free Acetalization of Glycerol with n-Octanal using Combined Brønsted Acid-Surfactant Catalyst. Tenside, Surfactants, Detergents, 2017, 54, 54-63.	0.5	4
523	Polyether from a biobased Janus molecule as surfactant for carbon nanotubes. EXPRESS Polymer Letters, 2016, 10, 548-558.	1.1	6
524	Contribution to the production and use of biomass-derived solvents – a review. Acta Innovations, 2020, , 29-56.	0.4	21
525	Analysis of the Growth and Metabolites of a Pyruvate Dehydrogenase Complex-Deficient <i>Klebsiella pneumoniae</i> Mutant in a Glycerol-Based Medium. Journal of Microbiology and Biotechnology, 2020, 30, 753-761.	0.9	4
526	Fat, meat quality and sensory attributes of Large White – Landrace barrows fed with crude glycerine. Spanish Journal of Agricultural Research, 2014, 12, 717.	0.3	3
527	Reutilization of Glycerol Derived from Biodiesel Production Using HPW-Based Catalysts Supported on Niobium for Obtention of Additives. Revista Virtual De Quimica, 2014, 6, .	0.1	1
528	Glycerol carbonylation with CO <sub>2</sub> to form glycerol carbonate: A review of recent developments and challenges. Current Research in Green and Sustainable Chemistry, 2021, 4, 100199.	2.9	16
529	Metabolic engineering design to enhance (R,R)-2,3-butanediol production from glycerol in Bacillus subtilis based on flux balance analysis. Microbial Cell Factories, 2021, 20, 196.	1.9	8
530	Directed glycerol conversion to 2,5-hexanedione and more advanced poly-oxygenates as platform chemicals and high energy-density fuel additives. Chemical Engineering Journal, 2021, , 132981.	6.6	4

#	ARTICLE	IF	CITATIONS
531	Kinetic and Nonideal VLE Modeling for Transesterification Reactions from FFA and Methyl Acetate at High Temperature and Pressure Considering Volatilization Effects/Influence. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 14815-14829.	1.8	0
532	Skin-friendly dressing with alcohols treatment for enhancement of mechanical and biocompatible properties. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 129, 256-263.	2.7	1
533	Performance and Exhaust Emissions of a Spark Ignition Internal Combustion Engine Fed with Butanol-Glycerol Blend. <i>Energies</i> , 2021, 14, 6473.	1.6	3
534	EVALUATION BY ATOMIC SPECTROMETRY OF SOLUBILIZATION METHODS FOR THE DETERMINATION OF METALS IN GLYCERIN FROM BIODIESEL PRODUCTION. <i>Quimica Nova</i> , 2014, , .	0.3	1
535	Przegląd zastosowania glicerolu i ziemniaczanej wody sokowej do produkcji karotenoidów przez drożdż <i>Rhodotorula Gracilis</i> . <i>Zeszyty Problemowe Postępów Nauk Rolniczych</i> , 2017, , 49-57.	0.1	1
536	ESTUDO DO COMPORTAMENTO DA ULTRAFILTRAÇÃO DE MISTURAS CONTENDO GLICERINA. , 0, , .		0
537	Das Koppelprodukt der Oleochemie. , 2018, , 85-105.		0
538	EMISSÕES DE GASES POLUENTES DA PRODUÇÃO SIMULTÂNEA DE BIODIESEL E HIDROGÊNIO. <i>Revista Triângulo</i> , 2018, 11, 346.	0.1	0
540	Optimization of bio-succinic fermentation process from crude glycerol by <i>Actinobacillus succinogenes</i> . <i>Environmental Engineering Research</i> , 2021, 26, 200121-0.	1.5	5
541	Biodiesel production in oil biorefinery and by-products utilization. , 2022, , 109-150.		1
542	Numerical investigation of glycerol/diesel emulsion combustion in compression ignition conditions using Stochastic Reactor Model. <i>Fuel</i> , 2022, 310, 122246.	3.4	3
543	Investigation on ethanol-glycerol blend combustion in the internal combustion sparkignited engine. Engine performance and exhaust emissions. <i>Fuel Processing Technology</i> , 2022, 226, 107085.	3.7	10
544	Potential of different <i>Xanthomonas campestris</i> strains for xanthan biosynthesis on waste glycerol from biodiesel production. <i>Journal on Processing and Energy in Agriculture</i> , 2020, 24, 62-66.	0.3	3
546	Solventes verdes obtidos de biomassa: propriedades e aplicações. , 2020, , 45-84.		0
547	The Coproduct of Oleochemistry -. , 2020, , 89-109.		0
548	Ranking of By-products for Single Cell Oil Production. Case of Latvia. <i>Environmental and Climate Technologies</i> , 2020, 24, 258-271.	0.5	2
549	A Technical Approach of Solubility Enhancement of Poorly Soluble Drugs: Liquisolid Technique. <i>Current Drug Delivery</i> , 2020, 17, 638-650.	0.8	4
550	Technology toward biochemical precursors and bioplastic production. , 2022, , 265-341.		1

#	ARTICLE	IF	CITATIONS
551	Glycerin-based adsorbents for the separation of ethane and ethylene. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 127975.	2.3	6
552	Techno-economic analysis of enzymatic biodiesel co-produced in palm oil mills from sludge palm oil for improving renewable energy access in rural areas. <i>Energy</i> , 2022, 243, 122745.	4.5	14
553	Crude Glycerol as a Potential Feedstock for Future Energy via Thermochemical Conversion Processes: A Review. <i>Sustainability</i> , 2021, 13, 12813.	1.6	21
554	Raw Glycerol Based Medium for DHA and Lipids Production, Using the Marine Heterotrophic Microalga <i>Cryptocodium cohnii</i> . <i>Processes</i> , 2021, 9, 2005.	1.3	7
555	Glycerol-derived Solvents Containing Two or Three Distinct Functional Groups Enabled by Trifluoroethyl Glycidyl Ether. <i>AIChE Journal</i> , 0, , e17533.	1.8	8
556	Rigid polyurethane foams based on dextrin and glycerol. <i>Industrial Crops and Products</i> , 2022, 177, 114479.	2.5	11
557	Highly efficient fermentation of glycerol and 1,3-propanediol using a novel starch as feedstock. <i>Food Bioscience</i> , 2022, 46, 101521.	2.0	4
558	Glicerol: suplemento alimenticio y su respuesta en bovinos de leche. <i>Agronomy Mesoamerican</i> , 0, , 821-833.	0.1	1
559	Ultrasound promoted green synthesis, anticancer evaluation, and molecular docking studies of hydrazines: a pilot trial. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2022, 37, 135-144.	2.5	2
560	High Production of <i>Trametes cinnabarina</i> Laccase (lac1) by Suspended and Immobilized Cells of Recombinant <i>Pichia pastoris</i> from Crude Glycerol. <i>Waste and Biomass Valorization</i> , 2022, 13, 2149-2168.	1.8	6
561	An Overview of the Latest Advances in the Catalytic Synthesis of Glycerol Carbonate. <i>Catalysts</i> , 2022, 12, 50.	1.6	25
562	Synergistic effect of Ni-NbW with binuclear acidity for the hydrogenolysis of Glycerol. <i>Molecular Catalysis</i> , 2022, 518, 112112.	1.0	1
563	Circular bioeconomy for biodiesel industry: Upgradation of waste glycerol to value-added products. , 2022, , 419-438.		3
564	Recent Advances in Biorefineries for Energy and Nutrient Recovery from Food Waste. <i>Energy, Environment, and Sustainability</i> , 2022, , 449-485.	0.6	2
565	Crude glycerol and glycerol as fuels and fuel additives in combustion applications. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 159, 112206.	8.2	29
566	Microbial assisted production of alcohols, acetone and glycerol. , 2022, , 47-92.		0
567	Green solvents for organic electronics processing. , 2022, , 425-462.		1
568	All-Climate Stretchable Dendrite-Free Zn-Ion Hybrid Supercapacitors Enabled by Hydrogel Electrolyte Engineering. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	29



#	ARTICLE	IF	CITATIONS
569	Mechanistic Kinetic Modelling Framework for the Conversion of Waste Crude Glycerol to Value-Added Hydrogen-Rich Gas. <i>Catalysts</i> , 2022, 12, 200.	1.6	3
570	Sarocladium strictum lipase (LipSs) produced using crude glycerol as sole carbon source: A promising enzyme for biodiesel production. <i>Biocatalysis and Agricultural Biotechnology</i> , 2022, 40, 102299.	1.5	2
571	Synthesis of Mesoporous Zeolites and Their Opportunities in Heterogeneous Catalysis. <i>Catalysts</i> , 2021, 11, 1541.	1.6	20
572	Synthesis and Characterization of Bio-Glycerol from Cameroon Palm Kernel Seed Oil. <i>Green and Sustainable Chemistry</i> , 2022, 12, 28-40.	0.8	0
573	Single-atom catalysts for the upgrading of biomass-derived molecules: an overview of their preparation, properties and applications. <i>Green Chemistry</i> , 2022, 24, 2722-2751.	4.6	17
574	Cobalt-based catalysts for hydrogen production by thermochemical valorization of glycerol: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 2361-2384.	8.3	2
575	Current Trends in Acetins Production: Green versus Non-Green Synthesis. <i>Molecules</i> , 2022, 27, 2255.	1.7	7
576	Sulfated-Alumina-Catalyzed Triacetin Synthesis: An Optimization Study of Glycerol Esterification. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 4235-4243.	1.8	5
577	Metabolic engineered <i>E. coli</i> for the production of (R)-1,2-propanediol from biodiesel derived glycerol. <i>Biofuels</i> , 2022, 13, 965-974.	1.4	1
578	A review on catalytic role of heterogeneous acidic catalysts during glycerol acetylation to yield acetins. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100459.	1.3	12
579	Enhanced waste glycerol recycling by yeast for efficient biodiesel production: Towards waste biorefinery. <i>Biomass and Bioenergy</i> , 2022, 159, 106410.	2.9	14
580	Economic feasibility of a solketal production process from glycerol at small industrial scale. <i>Renewable Energy</i> , 2022, 190, 540-547.	4.3	8
581	Bench scale production of methanol from crude glycerol (1,2,3-Propanetriol) using Zirconium loaded fluorine doped tin oxide. <i>Fuel</i> , 2022, 318, 123650.	3.4	2
582	Use of biobased crude glycerol, obtained biocatalytically, to obtain biofuel additives by catalytic acetalization of furfural using SAPO catalysts. <i>Fuel</i> , 2022, 319, 123803.	3.4	10
583	Mechanistic Origins of the pH Dependency in Au-Catalyzed Glycerol Electro-oxidation: Insight from First-Principles Calculations. <i>ACS Catalysis</i> , 2022, 12, 662-675.	5.5	22
584	The combustion of waste, industrial glycerol in a fluidised bed. <i>Fuel</i> , 2022, 322, 124169.	3.4	2
587	Biodiesel Is Dead: Long Life to Advanced Biofuels—A Comprehensive Critical Review. <i>Energies</i> , 2022, 15, 3173.	1.6	24
588	Bioprocesses for the Biodiesel Production from Waste Oils and Valorization of Glycerol. <i>Energies</i> , 2022, 15, 3381.	1.6	9

#	ARTICLE	IF	CITATIONS
589	The Evaluation of Quality of the Co-Firing Process of Glycerine Fraction with Coal in the High Power Boiler. <i>Journal of Carbon Research</i> , 2022, 8, 28.	1.4	1
591	Lignin depolymerization and monomeric evolution during fast pyrolysis oil upgrading with hydrogen from glycerol aqueous phase reforming. <i>Fuel</i> , 2022, 324, 124556.	3.4	1
592	Zirconium silicate-ionic liquid membranes for high-temperature hydrogen PEM fuel cells. <i>International Journal of Hydrogen Energy</i> , 2024, 52, 894-908.	3.8	12
593	Evaluation of production processes of glycerol acetals using process intensification by flow chemistry. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 177, 108997.	1.8	3
594	Simultaneous refining of biodiesel-derived crude glycerol and synthesis of value-added powdered catalysts for biodiesel production: A green chemistry approach for sustainable biodiesel industries. <i>Journal of Cleaner Production</i> , 2022, 363, 132448.	4.6	9
595	Sustainable synthesis of acetals from glycerol as potential additives for biofuels under solvent-free conditions. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 2132-2140.	1.9	5
597	Glycerol: Its properties, polymer synthesis, and applications in starch based films. <i>European Polymer Journal</i> , 2022, 175, 111377.	2.6	34
598	Enhancing glycerol electrooxidation from synergistic interactions of platinum and transition metal carbides. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121648.	10.8	10
599	Fermentation and downstream processing: Part 1. , 2022, , 13-68.		1
600	Direct conversion of glycerol to <i>n</i> -propanol over a tandem catalytic dehydration-hydrogenation system. <i>Catalysis Science and Technology</i> , 0, , .	2.1	1
601	Waste animal fats as feedstock for biodiesel production using non-catalytic supercritical alcohol transesterification: A perspective by the PRISMA methodology. <i>Energy for Sustainable Development</i> , 2022, 69, 150-163.	2.0	32
602	Progress in the Photoreforming of Carboxylic Acids for Hydrogen Production. <i>Photochem</i> , 2022, 2, 580-605.	1.3	4
604	PRODUCTION OF VOLATILE ORGANIC COMPOUNDS BY YEASTS IN BIOREFINERIES: ECOLOGICAL, ENVIRONMENTAL, AND BIOTECHNOLOGICAL OUTLOOKS. , 0, , 64-78.		0
605	Photocurable Glycerol- and Vanillin-Based Resins for the Synthesis of Vitrimers. <i>ACS Applied Polymer Materials</i> , 2022, 4, 6103-6110.	2.0	17
606	Chemicals Production from Glycerol through Heterogeneous Catalysis: A Review. <i>Catalysts</i> , 2022, 12, 897.	1.6	17
607	Vapor pressure curves and isobaric vapor-liquid equilibrium for binary systems with compounds obtained from glycerol to be used as components of a bio-diesel mixture. <i>Journal of Chemical Thermodynamics</i> , 2022, 175, 106882.	1.0	0
608	From glycerol production to its value-added uses: A critical review. <i>Fuel</i> , 2022, 329, 125044.	3.4	26
609	Continuous Production of Lactic Acid from Glycerol over Bifunctional Catalysts under Base-Free Conditions Using a Liquid-Phase Flow Reactor. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 12072-12081.	3.2	5

#	ARTICLE	IF	CITATIONS
610	Copper-Modified Titania-Based Photocatalysts for the Efficient Hydrogen Production under UV and Visible Light from Aqueous Solutions of Glycerol. <i>Nanomaterials</i> , 2022, 12, 3106.	1.9	7
611	Vapor-phase hydrogenolysis of glycerol to value-added 1,2-propanediol over copper-nickel bimetallic catalysts supported on activated carbon. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 2652-2663.	1.2	2
612	Roles of mass transfer and cell architecture in electrochemical desalination performance using polyglycerol activated carbon electrodes. <i>Chemical Engineering Journal</i> , 2023, 452, 139226.	6.6	5
613	Fermentation for the production of biobased chemicals in a circular economy: a perspective for the period 2022–2050. <i>Green Chemistry</i> , 2022, 24, 6373-6405.	4.6	29
614	Manganese-catalysed dehydrogenative oxidation of glycerol to lactic acid. <i>Green Chemistry</i> , 2022, 24, 8477-8483.	4.6	12
615	Recovery of Value-Added Products from Industrial Wastewaters: A Review to Potential Feedstocks. , 2022, , 201-283.		1
616	Roles of Mass Transfer and Cell Architecture in Electrochemical Desalination Performance Using Polyglycerol Activated Carbon Electrodes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
617	Glycerolysis of Lauric Acid with Strontium Enhanced 12-Tungstophosphoric Acid Incorporated SBA-15: Material Characterization and Reusability Elucidation. <i>Key Engineering Materials</i> , 0, 930, 97-104.	0.4	0
618	Influence of Glycerol on Methanol Fuel Characteristics and Engine Combustion Performance. <i>Energies</i> , 2022, 15, 6585.	1.6	4
619	The support influence of <sc>Au</sc>-based catalysts in glycerin selective oxidation to glyceric acid. <i>Journal of Chemical Technology and Biotechnology</i> , 0, , .	1.6	1
620	Advances for Biorefineries: Glycerol Hydrogenolysis to 1,3-Propylene Glycol. <i>Reactions</i> , 2022, 3, 451-498.	0.9	7
621	A comprehensive review on catalytic etherification of glycerol to value-added products. <i>Reviews in Chemical Engineering</i> , 2022, .	2.3	3
622	Study of the Glycerol Hydrogenolysis Reaction on Cu, Cu–Zn, and Cu–ZnO Clusters. <i>ACS Omega</i> , 2022, 7, 33629-33636.	1.6	3
623	Selective Hydrogenolysis of Biodiesel Waste Bioglycerol Over Titanium Phosphate (TiP) Catalysts: The Effect of Pt & WO <sub>3</sub> Loadings. <i>Waste and Biomass Valorization</i> , 2022, 13, 4389-4402.	1.8	2
624	Characterization Studies for Derived Biodiesel from the Fluid Catalytic Cracking (FCC) of Waste Cooking Oil through a Fixed Fluidized Bed (FFB). <i>Energies</i> , 2022, 15, 7115.	1.6	1
625	Pt <sub>1</sub> enhanced C-H activation synergistic with Pt <sub>n</sub> catalysis for glycerol cascade oxidation to glyceric acid. <i>Nature Communications</i> , 2022, 13, .	5.8	33
626	Synthesis of stabilizers based on glycerides of monocarboxylic acids for industrial chloroparaffins. <i>Fine Chemical Technologies</i> , 2022, 17, 298-310.	0.1	0
627	Glycerol Valorization—The Role of Biochar Catalysts. <i>Molecules</i> , 2022, 27, 5634.	1.7	2

#	ARTICLE	IF	CITATIONS
628	Predictive control of selective secondary alcohol oxidation of glycerol on NiOOH. <i>Nature Communications</i> , 2022, 13, .	5.8	40
629	<i>Hornification</i> : Lessons learned from the wood industry for attenuating this phenomenon in plant-based dietary fibers from food wastes. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2023, 22, 4-45.	5.9	10
630	Generating Oscillatory Behavior by Applying a Magnetic Field during Electrocatalytic Oxidation of Glycerol. <i>Journal of Physical Chemistry C</i> , 2022, 126, 18159-18169.	1.5	1
631	Profil Bahan Perisa Kritis Halal dalam Peraturan BPOM No. 13/2020. <i>Jurnal Mutu Pangan Indonesia: Indonesian Journal of Food Quality</i> , 2022, 9, 92-102.	0.1	0
632	A Novel PolyHIPE-like Catalyst for Esterification Reactions: on the Synthesis of Sulfonated Poly(styrene-co- <i>n</i> -acylglycerol) and its Use for Efficient Conversion of Oleic Acid to Methyl Oleate. <i>Macromolecular Reaction Engineering</i> , 2023, 17, .	0.9	1
633	Synthesis of Boron-Doped Non-Flammable Anhydrous Electrolytes for Flexible Quasi-Solid-State Supercapacitor Applications. <i>Energy &amp; Fuels</i> , 2022, 36, 13229-13237.	2.5	5
634	Esterification of Glycerol Derived from Biodiesel with Fatty Acids to Monoglycerides – Malaysian Perspective. <i>ChemBioEng Reviews</i> , 2023, 10, 22-36.	2.6	0
635	Sustainable Process Design of Propionic Acid Production from Glycerol: A Comparative Study of Bio-Based and Petroleum-Based Technologies. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 14761-14774.	3.2	4
636	Perception of glycerol carbonate as green chemical: Synthesis and applications. <i>Catalysis Communications</i> , 2022, 172, 106542.	1.6	11
637	Performance analysis of selective exhaust gas recirculation integrated with fogging cooling system for gas turbine power plants. <i>Energy</i> , 2023, 263, 125849.	4.5	7
638	One-pot preparation of micro-fibrillated cellulose fiber (MCF) through the synergistic action of $g-C_{3N_4}$ and a diluted acid. <i>Green Chemistry</i> , 2022, 24, 9595-9601.	4.6	2
639	Constructing core-shell structured Au/Sn <sup>2+</sup> @mesosilica composite for one-pot base-free conversion of glycerol to methyl lactate. <i>Microporous and Mesoporous Materials</i> , 2023, 347, 112348.	2.2	4
640	Valorization of glycerol into value-added products: A comprehensive review on biochemical route. <i>Bioresource Technology Reports</i> , 2022, 20, 101290.	1.5	4
641	Recent advances and perspectives on production of value-added organic acids through metabolic engineering. <i>Biotechnology Advances</i> , 2023, 62, 108076.	6.0	17
642	Synthesis, structure analysis and catalytic activity of two Ln-coordination polymers containing benzophenone-4,4'-dicarboxylate linker. <i>New Journal of Chemistry</i> , 2023, 47, 2230-2239.	1.4	1
643	Ni modified distillation waste derived heterogeneous catalyst utilized for the production of glycerol carbonate from a biodiesel by-product glycerol: Optimization and green metric studies. <i>Waste Management</i> , 2023, 156, 148-158.	3.7	8
644	Renewable carbon sources to biochemicals and -fuels: contributions of the smut fungi Ustilaginaceae. <i>Current Opinion in Biotechnology</i> , 2023, 79, 102849.	3.3	4
645	Different methods of synthesizing poly(glycerol sebacate) (PGS): A review. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	5

#	ARTICLE	IF	CITATIONS
646	A robust and efficient bioprocess of hydrogen production from crude glycerol by <i>Clostridium beijerinckii</i> G117. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 7604-7620.	3.8	4
647	Copper-Catalyzed Asymmetric Sulfonylative Desymmetrization of Glycerol. <i>Molecules</i> , 2022, 27, 9025.	1.7	1
648	State-of-the-art catalysts for clean fuel (methyl esters) production—a comprehensive review. <i>JPhys Energy</i> , 2023, 5, 014005.	2.3	7
649	Tailor-designed binary Ni–Cu nano dendrites decorated 3D-carbon felts for efficient glycerol electrooxidation. <i>RSC Advances</i> , 2023, 13, 895-905.	1.7	5
650	The effect of water content on lignin solubilization in deep eutectic solvents. <i>Journal of Molecular Liquids</i> , 2023, 374, 121271.	2.3	10
651	Earth-abundant photoelectrodes for water splitting and alternate oxidation reactions: Recent advances and future perspectives. <i>Progress in Materials Science</i> , 2023, 134, 101073.	16.0	15
652	Non-isothermal kinetics of biomass waste pyrolysis by TG-MS/DSC. <i>Carbon Capture Science &amp; Technology</i> , 2023, 6, 100097.	4.9	15
653	Second generation <i>Pichia pastoris</i> strain and bioprocess designs. , 2022, 15, .		9
654	Integrated biorefineries for the co-production of biofuels and high-value products. , 2023, , 513-541.		0
655	Green solvents for multiphase systems. , 2023, , 111-132.		0
656	Highly Selective Transformation of Biomass Derivatives to Valuable Chemicals by Single-Atom Photocatalyst Ni/TiO <sub>2</sub> . <i>Advanced Materials</i> , 2023, 35, .	11.1	23
658	Synthesis and Properties of 2-Halo-1,3-diether-propanes: Diversifying the Range of Functionality in Glycerol-Derived Compounds. <i>Industrial &amp; Engineering Chemistry Research</i> , 2023, 62, 2959-2967.	1.8	1
659	Optimization of Medium Constituents for the Production of Citric Acid from Waste Glycerol Using the Central Composite Rotatable Design of Experiments. <i>Molecules</i> , 2023, 28, 3268.	1.7	2
660	The development and application of a novel hazard scoring tool for assessing impacts of cosmetic ingredients on aquatic ecosystems: A case study of rinse-off cosmetics. <i>Integrated Environmental Assessment and Management</i> , 2023, 19, 1619-1635.	1.6	1
661	Theoretical investigation on oxygen source for selective oxidation of glycerol at Au/CeO <sub>2</sub> and Pt/CeO <sub>2</sub> interfaces. <i>Fuel</i> , 2023, 342, 127884.	3.4	4
662	Improving electrocatalytic performance of Ni-based catalysts: fuel blend strategy and DFT calculations. <i>Electrochimica Acta</i> , 2023, 452, 142325.	2.6	4
663	Succinic Acid Production from Glycerol by <i>Actinobacillus succinogenes</i> : Techno-economic, environmental, and exergy analyses. <i>Journal of Cleaner Production</i> , 2023, 404, 136927.	4.6	6

#	ARTICLE	IF	CITATIONS
664	Development of novel dimethyl ether " Glycerol blends with improved viscosity and miscibility for potential compression-ignition engine application. <i>Fuel</i> , 2023, 346, 128301.	3.4	1
665	Turning glycerol surplus into renewable syngas through glycerol steam reforming over a sol-gel Ni"Mo <sub>2</sub> C-Al <sub>2</sub> O <sub>3</sub> catalyst. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 16614-16629.	3.8	5
666	Current and Future Trends for Crude Glycerol Upgrading to High Value-Added Products. <i>Sustainability</i> , 2023, 15, 2979.	1.6	13
667	Efficient adsorption of carbon dioxide and methane on activated carbon prepared from glycerol with potassium acetate. <i>Environmental Chemistry Letters</i> , 2023, 21, 1265-1270.	8.3	1
668	Environmentally Friendly Diesel Fuel Obtained from Vegetable Raw Materials and Hydrocarbon Crude. <i>Energies</i> , 2023, 16, 2121.	1.6	17
669	Functional naturally derived materials to improve the environment: Chemical structures, modifications, applications, and future perspectives. <i>Advances in Bioenergy</i> , 2023, , 93-144.	0.5	0
670	Purification of glycerol and its conversion to value-added chemicals: A review. <i>Separation Science and Technology</i> , 2023, 58, 1383-1402.	1.3	6
671	Glycerol cascade oxidation on nearby Pt <sub>1</sub> -Pt <sub>n</sub> sites stabilized by Cu-CuZrO <sub>x</sub> . <i>Chem Catalysis</i> , 2023, 3, 100574.	2.9	0
672	Assessment of glycerol gasification: devolatilization kinetics and parametric analysis. <i>Chemical Papers</i> , 0, , .	1.0	0
673	Microbial bioprospecting of biodiesel industry-derived crude glycerol waste conversion into value-added products. , 2023, , 71-87.		0
676	Multifunctional small biomolecules as key building blocks in the development of hydrogel-based strain sensors. <i>Journal of Materials Chemistry A</i> , 2023, 11, 13844-13875.	5.2	5
684	Conversion of glycerol to acrylic acid: a review of strategies, recent developments and prospects. <i>Reaction Chemistry and Engineering</i> , 2023, 8, 1819-1838.	1.9	2
688	Bioglycerol-to-Propylene Routes: From Fundamental Catalysis to Process Design and Marketing. <i>ACS Catalysis</i> , 2023, 13, 7019-7054.	5.5	1
693	Utilization of zeolite catalysts in biomass exploitation: a minireview. <i>Monatshefte für Chemie</i> , 2023, 154, 815-835.	0.9	1
699	Experimental Investigation of Glycerol Derivatives as Low-Concentration Additives for Diesel Fuel. , 0, , .		0
704	Catalysis for Glycerol Production and Its Applications. , 0, , .		0
733	Effect of Methane in Global Combustion Characteristics of Glycerol and Methanol blend by Using a Novel Swirl Burst Injector. , 2024, , .		0
743	Catalytic hydrogen generation from biomass and its derivatives. , 2024, , 547-568.		0

#	ARTICLE	IF	CITATIONS
---	---------	----	-----------