

Production of biodiesel fuel from triglycerides and alcohol

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Enzymatic Biodiesel Production from Sunflower Oil by <i>Candida antarctica</i> Lipase in a Solvent-free System. <i>Biocatalysis and Biotransformation</i> , 2002, 20, 437-439.	1.1	127
2	A mini-review of Chinese contributions to <i>Journal of Molecular Catalysis B: Enzymatic</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 18, 199-203.	1.8	2
3	Lipases for biotechnology. <i>Current Opinion in Biotechnology</i> , 2002, 13, 390-397.	3.3	1,156
4	Lipase-catalysed transesterification of soya bean oil for biodiesel production during continuous batch operation. <i>Biotechnology and Applied Biochemistry</i> , 2003, 38, 103.	1.4	87
5	Biodiesel fuels from vegetable oils via catalytic and non-catalytic supercritical alcohol transesterifications and other methods: a survey. <i>Energy Conversion and Management</i> , 2003, 44, 2093-2109.	4.4	892
6	Conversion of Vegetable Oil to Biodiesel Using Ultrasonic Irradiation. <i>Chemistry Letters</i> , 2003, 32, 716-717.	0.7	95
7	Comparative study on lipase-catalyzed transformation of soybean oil for biodiesel production with different acyl acceptors. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 30, 125-129.	1.8	456
8	Novozym 435-catalysed transesterification of crude soya bean oils for biodiesel production in a solvent-free medium. <i>Biotechnology and Applied Biochemistry</i> , 2004, 40, 187.	1.4	85
9	1-Butyl oleate synthesis by immobilized lipase from <i>Rhizopus oryzae</i> : a comparative study between n-hexane and solvent-free system. <i>Enzyme and Microbial Technology</i> , 2004, 35, 355-363.	1.6	125
10	Biodiesel Preparation by Lipase-Catalyzed Transesterification of <i>Jatropha</i> Oil. <i>Energy & Fuels</i> , 2004, 18, 154-159.	2.5	317
11	Microbial Depolymerization of Coal. <i>Studies in Surface Science and Catalysis</i> , 2004, 150, 303-314.	1.5	0
13	Facilitatory effect of immobilized lipase-producing <i>Rhizopus oryzae</i> cells on acyl migration in biodiesel-fuel production. <i>Biochemical Engineering Journal</i> , 2005, 23, 45-51.	1.8	121
14	Fatty acids methyl esters from vegetable oil by means of ultrasonic energy. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 367-372.	3.8	349
15	Kinetics of Enzyme-Catalyzed Alcoholysis of Soybean Oil in n-Hexane. <i>Applied Biochemistry and Biotechnology</i> , 2005, 121, 0231-0242.	1.4	28
16	Optimization of Alkaline Transesterification of Soybean Oil and Castor Oil for Biodiesel Production. <i>Applied Biochemistry and Biotechnology</i> , 2005, 122, 0553-0560.	1.4	52
17	Production of Biodiesel by Lipase-Catalyzed Transesterification of Vegetable Oils: A Kinetics Study. <i>Biotechnology Progress</i> , 2005, 21, 1442-1448.	1.3	81
18	Optimization of Alkaline Transesterification of Soybean Oil and Castor Oil for Biodiesel Production. , 2005, , 553-560.		3
19	Biodiesel production from triolein and short chain alcohols through biocatalysis. <i>Journal of Biotechnology</i> , 2005, 119, 291-299.	1.9	229

#	ARTICLE	IF	CITATIONS
21	Fatty acid methyl ester production using lipase-immobilizing silica particles with different particle sizes and different specific surface areas. <i>Enzyme and Microbial Technology</i> , 2006, 39, 889-896.	1.6	47
22	The effect of fatty acid concentration and water content on the production of biodiesel by lipase. <i>Biochemical Engineering Journal</i> , 2006, 30, 212-217.	1.8	93
23	Monitoring lipase-catalyzed methanolysis of sunflower oil by reversed-phase high-performance liquid chromatography: Elucidation of the mechanisms of lipases. <i>Journal of Chromatography A</i> , 2006, 1127, 34-44.	1.8	49
24	Industrial applications of microbial lipases. <i>Enzyme and Microbial Technology</i> , 2006, 39, 235-251.	1.6	1,506
25	A novel psychrophilic lipase from <i>Pseudomonas fluorescens</i> with unique property in chiral resolution and biodiesel production via transesterification. <i>Applied Microbiology and Biotechnology</i> , 2006, 73, 349-355.	1.7	77
26	Repeated production of fatty acid methyl ester with activated bleaching earth in solvent-free system. <i>Process Biochemistry</i> , 2006, 41, 1849-1853.	1.8	14
27	Lipase-catalyzed biodiesel production from soybean oil deodorizer distillate with absorbent present in tert-butanol system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 43, 29-32.	1.8	160
28	Lipase-catalyzed transesterification of rapeseed oils for biodiesel production with a novel organic solvent as the reaction medium. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 43, 58-62.	1.8	324
29	Application of silica aerogel encapsulated lipases in the synthesis of biodiesel by transesterification reactions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 42, 106-113.	1.8	122
30	The effect of substrate concentrations on the production of biodiesel by lipase-catalysed transesterification of vegetable oils. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 299-305.	1.6	17
31	Biodiesel Fuel Production by the Transesterification Reaction of Soybean Oil Using Immobilized Lipase. , 2007, , 105-114.		0
33	Nonconventional Biocatalysis for Production of Chemicals and Polymers from Biomass. , 2007, , 325-350.		4
34	Transesterification of soybean oil to biodiesel using SrO as a solid base catalyst. <i>Catalysis Communications</i> , 2007, 8, 1107-1111.	1.6	362
35	Preparation of a sugar catalyst and its use for highly efficient production of biodiesel. <i>Green Chemistry</i> , 2007, 9, 434.	4.6	335
36	Improved methanol tolerance during Novozym435-mediated methanolysis of SODD for biodiesel production. <i>Green Chemistry</i> , 2007, 9, 173-176.	4.6	67
37	Transesterification of Jatropha oil using immobilized <i>Pseudomonas fluorescens</i> . <i>African Journal of Biotechnology</i> , 2007, 6, 2497-2501.	0.3	61
38	è¶...éÿ³æ³çç...Sà°,ã«ã,^ã,«ãf^ãf³ã,³ãf-ã,ãf³ã*ã,"ã,¿ãfŽãf¹/4ãf«ã®ã,"ã,¹ãf†ãf«ã°æ»ãð¿æãã,Žã*ã,«ãfçãf«æ»¹¼Cèè.ã'æ¿fãðãã,^ã°æ		
39	Production of biodiesel: possibilities and challenges. <i>Biofuels, Bioproducts and Biorefining</i> , 2007, 1, 57-66.	1.9	315

#	ARTICLE	IF	CITATIONS
40	Enzymatic production of biodiesel from cotton seed oil using t-butanol as a solvent. <i>Bioresource Technology</i> , 2007, 98, 648-653.	4.8	441
41	Lipase-catalyzed irreversible transesterification of vegetable oils for fatty acid methyl esters production with dimethyl carbonate as the acyl acceptor. <i>Biochemical Engineering Journal</i> , 2007, 36, 167-173.	1.8	100
42	Immobilization studies and biochemical properties of free and immobilized <i>Rhizopus oryzae</i> lipase onto CaCO ₃ : A comparative study. <i>Biochemical Engineering Journal</i> , 2007, 37, 34-41.	1.8	50
43	Synthesis of biodiesel from edible and non-edible oils in supercritical alcohols and enzymatic synthesis in supercritical carbon dioxide. <i>Fuel</i> , 2007, 86, 2650-2659.	3.4	239
44	Lipase-mediated conversion of vegetable oils into biodiesel using ethyl acetate as acyl acceptor. <i>Bioresource Technology</i> , 2007, 98, 1260-1264.	4.8	248
45	Chitosan-immobilized lipases for the catalysis of fatty acid esterifications. <i>Enzyme and Microbial Technology</i> , 2007, 40, 769-777.	1.6	85
46	Multiple effects of water on solvent-free enzymatic esterifications. <i>Enzyme and Microbial Technology</i> , 2007, 41, 62-70.	1.6	59
47	Proposed kinetic mechanism of the production of biodiesel from palm oil using lipase. <i>Process Biochemistry</i> , 2007, 42, 951-960.	1.8	204
48	Enzymatic synthesis of fatty acid methyl esters from lard with immobilized <i>Candida sp.</i> 99-125. <i>Process Biochemistry</i> , 2007, 42, 1367-1370.	1.8	175
49	Mechanism Exploration during Lipase-Mediated Methanolysis of Renewable Oils for Biodiesel Production in a tert-Butanol System. <i>Biotechnology Progress</i> , 2007, 23, 0-0.	1.3	14
50	Cloning, expression and characterization of a novel thermal stable and short-chain alcohol tolerant lipase from <i>Burkholderia cepacia</i> strain G63. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007, 45, 91-96.	1.8	73
51	Lipase-catalyzed in situ reactive extraction of oilseeds with short-chained alkyl acetates for fatty acid esters production. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007, 48, 28-32.	1.8	39
52	Use of Lipases for the Production of Biodiesel. , 2007, , 317-339.		15
53	Lipases from Extremophiles and Potential for Industrial Applications. <i>Advances in Applied Microbiology</i> , 2007, 61, 253-283.	1.3	65
54	Enzymatic Approach to Biodiesel Production. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 8995-9005.	2.4	354
55	Biodiesel fuel production by the transesterification reaction of soybean oil using immobilized lipase. <i>Applied Biochemistry and Biotechnology</i> , 2007, 137-140, 105-114.	1.4	37
56	Study on the production of biodiesel by magnetic cell biocatalyst based on lipase-producing <i>Bacillus subtilis</i> . <i>Applied Biochemistry and Biotechnology</i> , 2007, 137-140, 793-803.	1.4	25
57	<i>Rhizopus oryzae</i> IFO 4697 whole cell catalyzed methanolysis of crude and acidified rapeseed oils for biodiesel production in tert-butanol system. <i>Process Biochemistry</i> , 2007, 42, 1481-1485.	1.8	93

#	ARTICLE	IF	CITATIONS
58	Response surface optimization of biocatalytic biodiesel production with acid oil. <i>Biochemical Engineering Journal</i> , 2008, 40, 423-429.	1.8	102
59	Effect of several factors on soluble lipase-mediated biodiesel preparation in the biphasic aqueous-oil systems. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 2097-2102.	1.7	44
60	Optimization for producing cell-bound lipase from <i>Geotrichum</i> sp. and synthesis of methyl oleate in microaqueous solvent. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 431-439.	1.7	21
61	Perspectives for biotechnological production of biodiesel and impacts. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 331-337.	1.7	198
62	Preparation and comparative characterization of immobilized <i>Aspergillus oryzae</i> expressing <i>Fusarium heterosporum</i> lipase for enzymatic biodiesel production. <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 637-645.	1.7	53
63	Enzymatic Synthesis of Biodiesel from Transesterification Reactions of Vegetable Oils and Short Chain Alcohols. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2008, 85, 925-930.	0.8	137
64	Lipase-Catalyzed Transesterification of Rapeseed Oil for Biodiesel Production with tert-Butanol. <i>Applied Biochemistry and Biotechnology</i> , 2008, 148, 131-139.	1.4	62
65	Biodiesel production—current state of the art and challenges. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 421.	1.4	568
66	Lipase-mediated methanolysis of soybean oils for biodiesel production. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 71-76.	1.6	40
67	Lipase-catalyzed ethanolysis of soybean oil in a solvent-free system using central composite design and response surface methodology. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 849-854.	1.6	40
68	Selective enzymatic synthesis of lower acylglycerols rich in polyunsaturated fatty acids. <i>European Journal of Lipid Science and Technology</i> , 2008, 110, 325-333.	1.0	9
69	A life-cycle comparison between inorganic and biological catalysis for the production of biodiesel. <i>Journal of Cleaner Production</i> , 2008, 16, 1368-1378.	4.6	137
70	Potential plant oil feedstock for lipase-catalyzed biodiesel production in Thailand. <i>Biomass and Bioenergy</i> , 2008, 32, 1279-1286.	2.9	79
71	An overview of enzymatic production of biodiesel. <i>Bioresource Technology</i> , 2008, 99, 3975-3981.	4.8	559
72	Lipase-catalyzed production of fatty acid ethyl esters from soybean oil in compressed propane. <i>Journal of Supercritical Fluids</i> , 2008, 47, 49-53.	1.6	41
73	Enzymatic production of biodiesel from canola oil using immobilized lipase. <i>Biomass and Bioenergy</i> , 2008, 32, 1274-1278.	2.9	160
74	Calcium methoxide as a solid base catalyst for the transesterification of soybean oil to biodiesel with methanol. <i>Fuel</i> , 2008, 87, 1076-1082.	3.4	224
75	Comparison of different heterogeneous catalysts and different alcohols for the esterification reaction of oleic acid. <i>Fuel</i> , 2008, 87, 3477-3480.	3.4	163

#	ARTICLE	IF	CITATIONS
76	Biodiesel production from waste cooking oils. <i>Fuel</i> , 2008, 87, 3490-3496.	3.4	695
77	Production of Biodiesel Using Immobilized Lipase—A Critical Review. <i>Critical Reviews in Biotechnology</i> , 2008, 28, 253-264.	5.1	298
78	Mutations towards enantioselectivity adversely affect secretion of <i>Pseudomonas aeruginosa</i> lipase. <i>FEMS Microbiology Letters</i> , 2008, 282, 65-72.	0.7	10
79	Methanolysis of triolein by low frequency ultrasonic irradiation. <i>Energy Conversion and Management</i> , 2008, 49, 276-280.	4.4	92
80	Biodiesel from soybean oil in supercritical methanol with co-solvent. <i>Energy Conversion and Management</i> , 2008, 49, 908-912.	4.4	148
81	A critical review of bio-diesel as a vehicular fuel. <i>Energy Conversion and Management</i> , 2008, 49, 2727-2741.	4.4	366
82	Synthesis of biodiesel from soybean oil by coupling catalysis with subcritical methanol. <i>Energy Conversion and Management</i> , 2008, 49, 3512-3516.	4.4	47
83	Comparison among immobilised lipases on macroporous polypropylene toward biodiesel synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 54, 19-26.	1.8	119
84	Improvement in lipase-catalyzed methanolysis of triacylglycerols for biodiesel production using a solvent engineering method. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 55, 118-125.	1.8	63
85	Study Cases of Enzymatic Processes. , 2008, , 253-378.		5
86	Biotechnology for Fuels and Chemicals. , 2008, , .		1
87	Transesterification of Palm Oil with Methanol to Biodiesel over a KF/Hydrotalcite Solid Catalyst. <i>Energy & Fuels</i> , 2008, 22, 3531-3535.	2.5	80
88	Conversion of Sunflower Oil to Biodiesel by Alcoholysis using Immobilized Lipase. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2008, 36, 138-149.	0.9	17
89	Continuous Enzymatic Synthesis of Biodiesel with Novozym 435. <i>Energy & Fuels</i> , 2008, 22, 840-844.	2.5	38
90	<i>Rhizopus oryzae</i> Whole-Cell-Catalyzed Biodiesel Production from Oleic Acid in <i>tert</i> -Butanol Medium. <i>Energy & Fuels</i> , 2008, 22, 155-158.	2.5	28
91	Liquid—Liquid Equilibrium Data for Reactional Systems of Ethanolysis at 298.3 K. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 5-15.	1.0	47
92	Optimization of the production of biodiesel by a commercial immobilized lipase in a solvent-free system using a response surface methodology. <i>Journal of the Serbian Chemical Society</i> , 2008, 73, 147-156.	0.4	14
93	Lipaz—s aliej ³ perdirbimui. EksperimentinÄ— kai kuri ³ ferment ³ ir substrat ³ atranka biodyzelino komponent ³ gamybai. <i>Biologija (Vilnius, Lithuania)</i> , 2008, 54, 247-252.	0.3	3

#	ARTICLE	IF	CITATIONS
94	Biodiesel: An Alternative Fuel. Recent Patents on Biotechnology, 2008, 2, 25-34.	0.4	36
95	Optimization of Lipase-Catalyzed Biodiesel by Statistical Approach. , 0, , 163-184.		0
97	Conversion of Soybean Oil to Biodiesel Fuel with Immobilized Candida Lipase on Textile Cloth. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2008, 30, 872-879.	1.2	31
98	Design an immobilized lipase enzyme for biodiesel production. Journal of Renewable and Sustainable Energy, 2009, 1, 063101.	0.8	14
99	Current state and perspectives of producing biodiesel-like compounds by biotechnology. Microbial Biotechnology, 2009, 2, 551-565.	2.0	26
100	Biocatalysis: Towards ever greener biodiesel production. Biotechnology Advances, 2009, 27, 398-408.	6.0	376
101	Synthesis of biodiesel from waste cooking oil using immobilized lipase in fixed bed reactor. Energy Conversion and Management, 2009, 50, 668-673.	4.4	220
102	Biodiesel from waste cooking oil via base-catalytic and supercritical methanol transesterification. Energy Conversion and Management, 2009, 50, 923-927.	4.4	387
103	Environmentally Benign Production of Biodiesel Using Heterogeneous Catalysts. ChemSusChem, 2009, 2, 129-135.	3.6	116
104	Immobilization of Lipases onto Magnetic Fe ₃ O ₄ Nanoparticles for Application in Biodiesel Production. ChemSusChem, 2009, 2, 947-950.	3.6	102
105	Extraction, transesterification and process control in biodiesel production from <i>Jatropha curcas</i> . European Journal of Lipid Science and Technology, 2009, 111, 1185-1200.	1.0	35
106	A review of the current state of biodiesel production using enzymatic transesterification. Biotechnology and Bioengineering, 2009, 102, 1298-1315.	1.7	646
107	Highly efficient transformation of waste oil to biodiesel by immobilized lipase from <i>Penicillium expansum</i> . Process Biochemistry, 2009, 44, 685-688.	1.8	114
108	An overview on the recent advances in the transesterification of vegetable oils for biodiesel production using chemical and biocatalysts. Reviews in Environmental Science and Biotechnology, 2009, 8, 367-394.	3.9	65
109	Improved Enzyme Stability in Lipase-Catalyzed Synthesis of Fatty Acid Ethyl Ester from Soybean Oil. Applied Biochemistry and Biotechnology, 2009, 152, 394-404.	1.4	17
110	Enzymatic Synthesis of Biodiesel via Alcoholysis of Palm Oil. Applied Biochemistry and Biotechnology, 2009, 155, 44-52.	1.4	32
111	Enzymatic transesterification of <i>Jatropha</i> oil. Biotechnology for Biofuels, 2009, 2, 1.	6.2	292
112	Continuous lipase-catalyzed production of fatty acid ethyl esters from soybean oil in compressed fluids. Bioresource Technology, 2009, 100, 5818-5826.	4.8	86

#	ARTICLE	IF	CITATIONS
113	Technologies for production of biodiesel focusing on green catalytic techniques: A review. Fuel Processing Technology, 2009, 90, 1502-1514.	3.7	551
114	Increasing stability and productivity of lipase enzyme by encapsulation in a porous organic-inorganic system. Microporous and Mesoporous Materials, 2009, 118, 334-340.	2.2	81
115	Enzymatic biodiesel synthesis – Key factors affecting efficiency of the process. Renewable Energy, 2009, 34, 1185-1194.	4.3	405
116	Biodiesel production from canola oil by using lipase immobilized onto hydrophobic microporous styrene-divinylbenzene copolymer. Biochemical Engineering Journal, 2009, 44, 220-225.	1.8	105
117	Enzymatic conversion of sunflower oil to biodiesel in a solvent-free system: Process optimization and the immobilized system stability. Bioresource Technology, 2009, 100, 5146-5154.	4.8	140
118	The effect of the acidity of rapeseed oil on its transesterification. Bioresource Technology, 2009, 100, 5555-5559.	4.8	51
119	Olive husk oil transesterification in a fluidized bed reactor with immobilized lipases. Asia-Pacific Journal of Chemical Engineering, 2009, 4, 365-368.	0.8	12
120	Effect of Temperature on the Continuous Synthesis of Soybean Esters under Supercritical Ethanol. Energy & Fuels, 2009, 23, 558-563.	2.5	82
121	Liquid-Liquid Equilibrium Data for Fatty Systems Containing Refined Rice Bran Oil, Oleic Acid, Anhydrous Ethanol, and Hexane. Journal of Chemical & Engineering Data, 2009, 54, 2174-2181.	1.0	6
122	Biotechnological production of biodiesel fuel using biocatalysed transesterification: A review. Critical Reviews in Biotechnology, 2009, 29, 82-93.	5.1	95
123	Immobilized Lipase on Fe ₃ O ₄ Nanoparticles as Biocatalyst for Biodiesel Production. Energy & Fuels, 2009, 23, 1347-1353.	2.5	213
124	Biodiesel Fuel from Triglycerides via Transesterification – A Review. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2009, 31, 1300-1314.	1.2	20
125	Biodiesel fuel production via transesterification of oils using lipase biocatalyst. GCB Bioenergy, 2009, 1, 115-125.	2.5	35
126	Catalytic production of biodiesel and diesel-like hydrocarbons from triglycerides. Energy and Environmental Science, 2009, 2, 1258.	15.6	76
127	Production of Biodiesel by Enzymatic Transesterification: Review. American Journal of Biochemistry and Biotechnology, 2010, 6, 54-76.	0.1	199
128	Bioethanol and biodiesel: Alternative liquid fuels for future generations. Engineering in Life Sciences, 2010, 10, 8-18.	2.0	117
129	Improved catalytic performance of GA cross-linking treated Rhizopus oryzae IFO 4697 whole cell for biodiesel production. Process Biochemistry, 2010, 45, 1192-1195.	1.8	17
130	New Ether-Functionalized Ionic Liquids for Lipase-Catalyzed Synthesis of Biodiesel. Applied Biochemistry and Biotechnology, 2010, 162, 13-23.	1.4	54

#	ARTICLE	IF	CITATIONS
131	Continuous Lipase-catalyzed Alcoholysis of Sunflower Oil: Effect of Phase Equilibrium on Process Efficiency. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2010, 87, 45-53.	0.8	18
132	Biodiesel production with special emphasis on lipase-catalyzed transesterification. <i>Biotechnology Letters</i> , 2010, 32, 1019-1030.	1.1	101
133	Hydroxy functional acrylate and methacrylate monomers prepared via lipase-catalyzed transacylation reactions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 62, 80-89.	1.8	18
134	Biodiesel production through lipase catalyzed transesterification: An overview. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 62, 9-14.	1.8	422
135	Transesterification of used sunflower oil using immobilized enzyme. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 66, 142-147.	1.8	26
136	Biodiesel production with immobilized lipase: A review. <i>Biotechnology Advances</i> , 2010, 28, 628-634.	6.0	590
137	Progress in biodiesel processing. <i>Applied Energy</i> , 2010, 87, 1815-1835.	5.1	678
138	Exploring the effects of oil inducer on whole cell-mediated methanolysis for biodiesel production. <i>Process Biochemistry</i> , 2010, 45, 514-518.	1.8	12
139	Continuous catalyst-free methanolysis and ethanolysis of soybean oil under supercritical alcohol/water mixtures. <i>Renewable Energy</i> , 2010, 35, 1976-1981.	4.3	71
140	Kinetics of lipase-catalyzed synthesis of soybean fatty acid ethyl esters in pressurized propane. <i>Journal of Biotechnology</i> , 2010, 147, 108-115.	1.9	24
141	A review on FAME production processes. <i>Fuel</i> , 2010, 89, 1-9.	3.4	458
142	Production of biodiesel from palm oil using liquid core lipase encapsulated in κ -carrageenan. <i>Fuel</i> , 2010, 89, 2272-2277.	3.4	101
143	Synthesis and component confirmation of biodiesel from palm oil and dimethyl carbonate catalyzed by immobilized-lipase in solvent-free system. <i>Fuel</i> , 2010, 89, 3960-3965.	3.4	59
144	Simultaneous enzymatic synthesis of FAME and triacetyl glycerol from triglycerides and methyl acetate. <i>Bioresource Technology</i> , 2010, 101, 7707-7712.	4.8	43
145	Thermodynamics and inhibition studies of lipozyme TL IM in biodiesel production via enzymatic transesterification. <i>Bioresource Technology</i> , 2010, 101, 6558-6561.	4.8	45
146	The feasibility study of crude palm oil transesterification at 30°C operation. <i>Bioresource Technology</i> , 2010, 101, 8948-8954.	4.8	16
147	Enzyme-catalyzed production of 1-glycerol benzoate in compressed n-butane. <i>Enzyme and Microbial Technology</i> , 2010, 46, 513-519.	1.6	10
148	Biodiesel Production from Crude Sunflower Oil and Crude Jatropha Oil Using Immobilized Lipase. <i>Journal of Chemical Engineering of Japan</i> , 2010, 43, 104-108.	0.3	19

#	ARTICLE	IF	CITATIONS
149	Production of Lipids for Biofuels Using Bacteria. , 2010, , 291-314.		4
150	Biocatalytic production of biodiesel. , 2010, , 434-461.		0
151	Biofuels in China. Advances in Biochemical Engineering/Biotechnology, 2010, 122, 73-104.	0.6	6
152	Enzyme-Based Hybrid Macroporous Foams as Highly Efficient Biocatalysts Obtained through Integrative Chemistry. Chemistry of Materials, 2010, 22, 4555-4562.	3.2	68
153	Extremophiles in biofuel synthesis. Environmental Technology (United Kingdom), 2010, 31, 871-888.	1.2	130
154	Model Study on Transesterification of Soybean Oil to Biodiesel with Methanol Using Solid Base Catalyst. Journal of Physical Chemistry A, 2010, 114, 3750-3755.	1.1	35
155	Biofuels, the Role of Biotechnology to Improve Their Sustainability and Profitability. Sustainable Agriculture Reviews, 2010, , 123-148.	0.6	6
156	A Biorefinery. RSC Energy Series, 2011, , 118-159.	0.1	1
157	Biotechnological Methods to Produce Biodiesel. , 2011, , 315-337.		11
158	Bioresources for Third-Generation Biofuels. , 2011, , .		3
159	An Overview of Enzyme-Catalyzed Reactions and Alternative Feedstock for Biodiesel Production. , 2011, , .		3
160	Desempenho de diferentes lipases imobilizadas na sÃntese de biodiesel de Ãleo de palma. Acta Scientiarum - Technology, 2011, 33, .	0.4	1
161	Biodiesel Fuel Production by Enzymatic Transesterification of Oils: Recent Trends, Challenges and Future Perspectives. , 0, , .		19
162	Use of Immobilized Pseudomonas sp. as Whole Cell Catalyst for the Transesterification of Used Cotton Seed Oil. Journal of Oleo Science, 2011, 60, 7-10.	0.6	19
163	Esterification activity and stability of Talaromyces thermophilus lipase immobilized onto chitosan. Journal of Molecular Catalysis B: Enzymatic, 2011, 68, 230-239.	1.8	51
164	Optimization of Candida sp. 99-125 lipase catalyzed esterification for synthesis of monoglyceride and diglyceride in solvent-free system. Journal of Molecular Catalysis B: Enzymatic, 2011, 72, 157-162.	1.8	52
165	The production of biodiesel from vegetable oils by ethanolysis: Current state and perspectives. Fuel, 2011, 90, 3141-3155.	3.4	196
166	One-step enzymatic production of fatty acid ethyl ester from high-acidity waste feedstocks in solvent-free media. Bioresource Technology, 2011, 102, 9653-9658.	4.8	55

#	ARTICLE	IF	CITATIONS
167	Marine biological resources: An advanced raw material base for biofuel. <i>Catalysis in Industry</i> , 2011, 3, 57-61.	0.3	6
168	Yield and component distribution of biodiesel by methanolysis of soybean oil with lipase-immobilized mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2011, 142, 37-44.	2.2	8
169	Continuous lipase-catalyzed production of esters from crude high-oleic sunflower oil. <i>Bioresource Technology</i> , 2011, 102, 4954-4961.	4.8	43
170	Comparative study on stability of whole cells during biodiesel production in solvent-free system. <i>Process Biochemistry</i> , 2011, 46, 661-664.	1.8	16
171	Esterification Synthesis of Ethyl Oleate in Solvent-Free System Catalyzed by Lipase Membrane from Fermentation Broth. <i>Applied Biochemistry and Biotechnology</i> , 2011, 163, 102-111.	1.4	16
172	Identification and Quantitation of Reaction Intermediates and Residuals in Lipase-Catalyzed Transesterified Oils by HPLC. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 155-177.	1.4	10
173	Comparison of methods for preventing methanol inhibition in enzymatic production of biodiesel. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1420-1426.	1.2	11
174	Application of a <i>Burkholderia cepacia</i> lipase-immobilized silica monolith to batch and continuous biodiesel production with a stoichiometric mixture of methanol and crude <i>Jatropha</i> oil. <i>Biotechnology for Biofuels</i> , 2011, 4, 42.	6.2	64
175	Poly(meth)acrylates Obtained by Cascade Reaction. <i>Macromolecular Rapid Communications</i> , 2011, 32, 559-572.	2.0	9
176	Biodiesel production in packed-bed reactors using lipase- α -nanoparticle biocomposite. <i>Bioresource Technology</i> , 2011, 102, 6352-6355.	4.8	124
177	On-line monitoring of the transesterification reaction between triglycerides and ethanol using near infrared spectroscopy combined with gas chromatography. <i>Bioresource Technology</i> , 2011, 102, 6702-6709.	4.8	47
179	Lipase immobilization and production of fatty acid methyl esters from canola oil using immobilized lipase. <i>Biomass and Bioenergy</i> , 2011, 35, 1496-1501.	2.9	36
180	Biodiesel from low cost feedstocks: The effects of process parameters on the biodiesel yield. <i>Biomass and Bioenergy</i> , 2011, 35, 1582-1587.	2.9	88
181	Thermodynamic analysis of the kinetics reactions of the production of FAME and FAEE using Novozyme 435 as catalyst. <i>Fuel Processing Technology</i> , 2011, 92, 1007-1011.	3.7	26
182	Biocatalytic production of biodiesel from cottonseed oil: Standardization of process parameters and comparison of fuel characteristics. <i>Applied Energy</i> , 2011, 88, 1251-1256.	5.1	71
183	Screening, optimization and kinetics of <i>Jatropha curcas</i> oil transesterification with heterogeneous catalysts. <i>Renewable Energy</i> , 2011, 36, 726-731.	4.3	61
184	Enzymatic transesterification of <i>Jatropha curcas</i> oil assisted by ultrasonication. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 923-927.	3.8	94
185	Biodiesel production using waste frying oil. <i>Waste Management</i> , 2011, 31, 85-90.	3.7	84

#	ARTICLE	IF	CITATIONS
186	Biochemical catalytic production of biodiesel. , 2011, , 134-159.		5
187	A Review of Enzymatic Transesterification of Microalgal Oil-Based Biodiesel Using Supercritical Technology. Enzyme Research, 2011, 2011, 1-25.	1.8	85
188	Enzymes in Biofuels Production. Enzyme Research, 2011, 2011, 1-2.	1.8	11
189	Use of ionic liquids in biodiesel production: a review. Brazilian Journal of Chemical Engineering, 2012, 29, 1-13.	0.7	108
190	Stability of Immobilized <i>Candida</i> sp. 99â€“125 Lipase for Biodiesel Production. Chemical Engineering and Technology, 2012, 35, 2120-2124.	0.9	23
191	Evaluation of immobilized lipases on poly-hydroxybutyrate beads to catalyze biodiesel synthesis. International Journal of Biological Macromolecules, 2012, 50, 503-511.	3.6	82
192	Research Development on Lipase-catalyzed Biodiesel. Energy Procedia, 2012, 16, 1014-1021.	1.8	10
193	Lipase Applications in Biodiesel Production. , 0, , .		26
194	Immobilization of Lipase from Grey Mullet. Applied Biochemistry and Biotechnology, 2012, 168, 2105-2122.	1.4	6
195	Enzyme-Mediated Preparation of Flavonoid Esters and Their Applications. , 0, , .		7
196	Biodiesel: Production, Characterization, Metallic Corrosion and Analytical Methods for Contaminants. , 0, , .		13
197	Transesterification of vegetable oil into biodiesel catalyzed by CaO: A review. Fuel, 2012, 93, 1-12.	3.4	339
198	Using silk woven fabric as support for lipase immobilization: The effect of surface hydrophilicity/hydrophobicity on enzymatic activity and stability. Biomass and Bioenergy, 2012, 39, 59-66.	2.9	39
199	Immobilized lipase on magnetic chitosan microspheres for transesterification of soybean oil. Biomass and Bioenergy, 2012, 36, 373-380.	2.9	172
200	Bioprocessing of <i>Jatropha curcas</i> seed oil and deoiled seed hulls for the production of biodiesel and biogas. Biomass and Bioenergy, 2012, 40, 13-18.	2.9	37
201	Biodiesel production using enzymatic transesterification â€“ Current state and perspectives. Renewable Energy, 2012, 39, 10-16.	4.3	358
202	The effects of water on biodiesel production and refining technologies: A review. Renewable and Sustainable Energy Reviews, 2012, 16, 3456-3470.	8.2	229
203	Ultrasound-assisted lipase-catalyzed transesterification of soybean oil in organic solvent system. Ultrasonics Sonochemistry, 2012, 19, 452-458.	3.8	91

#	ARTICLE	IF	CITATIONS
204	Response surface optimization for the transesterification of karanja oil using immobilized whole cells of <i>Rhizopus oryzae</i> in n-hexane system. <i>Biomass Conversion and Biorefinery</i> , 2012, 2, 11-20.	2.9	8
205	Enzyme immobilization for biodiesel production. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 61-70.	1.7	143
206	Are plant lipases a promising alternative to catalyze transesterification for biodiesel production?. <i>Progress in Energy and Combustion Science</i> , 2013, 39, 441-456.	15.8	54
207	Recent advances in production and biotechnological applications of thermostable and alkaline bacterial lipases. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1959-1970.	1.6	23
208	Lipase mediated transesterification of <i>Simarouba glauca</i> oil: a new feedstock for biodiesel production. <i>Sustainable Chemical Processes</i> , 2013, 1, .	2.3	38
209	Bridging racemic lactate esters with stereoselective polylactic acid using commercial lipase catalysis. <i>Green Chemistry</i> , 2013, 15, 2817.	4.6	26
210	Catalyst-free biodiesel preparation from wet <i>Yarrowia lipolytica</i> P01g biomass under subcritical condition. <i>Fuel Processing Technology</i> , 2013, 115, 50-56.	3.7	11
211	Biodiesel production by transesterification using immobilized lipase. <i>Biotechnology Letters</i> , 2013, 35, 479-490.	1.1	85
214	Covalent immobilization of organic solvent tolerant lipase on aluminum oxide pellets and its potential application in esterification reaction. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 87, 51-61.	1.8	53
215	A review on novel processes of biodiesel production from waste cooking oil. <i>Applied Energy</i> , 2013, 104, 683-710.	5.1	576
216	Ionic liquids and deep eutectic solvents for biodiesel synthesis: a review. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 3-12.	1.6	242
217	Optimization of synthesis of fatty acid methyl esters catalyzed by lipase B from <i>Candida antarctica</i> immobilized on hydrophobic supports. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 94, 51-56.	1.8	52
219	Effect of phospholipids on free lipase-mediated methanolysis for biodiesel production. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 91, 67-71.	1.8	27
220	Enzymatic conversion of corn oil into biodiesel in a batch supercritical carbon dioxide reactor and kinetic modeling. <i>Journal of Supercritical Fluids</i> , 2013, 75, 172-180.	1.6	68
221	Potential Bioresources as Future Sources of Biofuels Production: An Overview. , 2013, , 223-258.		31
222	Production of Biodiesel and Nontoxic <i>Jatropha</i> Seedcakes from <i>Jatropha curcas</i> . , 2013, , 525-551.		3
223	Recent advances and applications of the lipolytic activity of <i>Carica papaya</i> latex. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 90, 49-60.	1.8	13
224	Alkali transesterification of linseed oil for biodiesel production. <i>Fuel</i> , 2013, 104, 553-560.	3.4	87

#	ARTICLE	IF	CITATIONS
225	Isolation and Characterization of an <i>Arthrobacter</i> Strain Producing a Lipase with Lower Alcohol-Tolerance. <i>Advanced Materials Research</i> , 2013, 749, 439-443.	0.3	2
226	Synergy as design principle for metabolic engineering of 1-propanol production in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2013, 17, 12-22.	3.6	59
227	TRANSESTERIFICATION OF PALM OIL AT NEAR-CRITICAL CONDITIONS USING SULFONATED CARBON-BASED ACID CATALYST. <i>Chemical Engineering Communications</i> , 2013, 200, 1542-1552.	1.5	8
228	Improved Performance of <i>Pseudomonas fluorescens</i> lipase by covalent immobilization onto Amberzyme. <i>Turkish Journal of Biochemistry</i> , 2013, 38, 313-318.	0.3	4
229	Biocatalysis for Biobased Chemicals. <i>Biomolecules</i> , 2013, 3, 812-847.	1.8	36
230	Self-Assembly of Globular-Protein-Containing Block Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1659-1668.	1.1	23
231	Kinetic study on lipase catalyzed trans-esterification of palm oil and dimethyl carbonate for biodiesel production. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	0.8	19
232	Immobilization of <i>Yarrowia lipolytica</i> Lipase on Bamboo Charcoal to Resolve (<i>R</i> , <i>S</i>)-Phenylethanol in Organic Medium. <i>Chemical Engineering and Technology</i> , 2013, 36, 1249-1254.	0.9	1
233	Environment-friendly biodiesel production by transesterification of rapeseed oil: effect of reaction parameters. <i>Journal of Environmental Engineering and Landscape Management</i> , 2013, 21, 42-51.	0.4	3
234	Biotechnological Applications of Lipases in Biodiesel Production. , 2013, , .		2
235	Recent Strategy of Biodiesel Production from Waste Cooking Oil and Process Influencing Parameters: A Review. <i>Journal of Energy</i> , 2013, 2013, 1-10.	1.4	98
236	Magnetic Cross-Linked Enzyme Aggregates (mCLEAs) of <i>Candida antarctica</i> Lipase: An Efficient and Stable Biocatalyst for Biodiesel Synthesis. <i>PLoS ONE</i> , 2014, 9, e115202.	1.1	70
237	Transesterification of babassu oil catalyzed by <i>Burkholderia cepacia</i> encapsulated in sol-gel matrix employing protic ionic liquid as an additive. <i>Acta Scientiarum - Technology</i> , 2014, 36, 445.	0.4	13
238	Study on physicochemical properties of biocatalysts with thermostable lipase activity and final products of triglycerides' interesterification. <i>Applied Biochemistry and Microbiology</i> , 2014, 50, 709-721.	0.3	3
239	Study on Preparation of Biodiesel with Monomer Acid. <i>Applied Mechanics and Materials</i> , 0, 521, 72-75.	0.2	0
240	Biodiesel production via enzymatic catalysis. <i>Applied Biochemistry and Microbiology</i> , 2014, 50, 737-749.	0.3	7
241	Lipase-Catalyzed Biodiesel Production. , 2014, , 119-129.		5
242	Role of Co-solvents in Biomass Conversion Reactions Using Sub/Supercritical Water. <i>Biofuels and Biorefineries</i> , 2014, , 69-98.	0.5	5

#	ARTICLE	IF	CITATIONS
243	Enzymatic transesterification of Calophyllum inophyllum oil by lipase immobilized on functionalized SBA-15 synthesized from low-cost precursor. <i>Biomass Conversion and Biorefinery</i> , 2014, 4, 35-41.	2.9	14
244	Biodiesel production in a magnetically-stabilized, fluidized bed reactor with an immobilized lipase in magnetic chitosan microspheres. <i>Biotechnology Letters</i> , 2014, 36, 63-68.	1.1	49
245	Preparation of polymeric macroporous hydrogels for the immobilization of enzymes using an emulsion-gelation method. <i>Reactive and Functional Polymers</i> , 2014, 76, 8-12.	2.0	20
246	Enzymatic biodiesel: Challenges and opportunities. <i>Applied Energy</i> , 2014, 119, 497-520.	5.1	423
247	Production of Biodiesel Using a Nanoscaled Immobilized Lipase as the Catalyst. <i>Catalysis Letters</i> , 2014, 144, 248-251.	1.4	12
248	A synergistic effect of microwave/ultrasound and symmetrical acidic ionic liquids on transesterification of vegetable oils with high free fatty acid. <i>Biomass Conversion and Biorefinery</i> , 2014, 4, 301-309.	2.9	6
249	Rationally designed Fe-MCM-41 by protein size to enhance lipase immobilization, catalytic efficiency and performance. <i>Applied Catalysis A: General</i> , 2014, 478, 175-185.	2.2	14
250	Simultaneous production of fatty acid methyl esters and diglycerides by four recombinant <i>Candida rugosa</i> lipase's isozymes. <i>Food Chemistry</i> , 2014, 155, 140-145.	4.2	19
251	CLEAs of <i>Candida antarctica</i> lipase B (CALB) with a bovine serum albumin (BSA) cofeeder core: Study of their catalytic activity. <i>Biochemical Engineering Journal</i> , 2014, 90, 36-43.	1.8	51
252	Biotechnological preparation of biodiesel and its high-valued derivatives: A review. <i>Applied Energy</i> , 2014, 113, 1614-1631.	5.1	135
253	Estimation of critical properties of reaction mixtures obtained in different reaction conditions during the synthesis of biodiesel with supercritical methanol from soybean oil. <i>Chemical Engineering Journal</i> , 2014, 241, 418-432.	6.6	25
254	Heterogeneous catalysis for sustainable biodiesel production via esterification and transesterification. <i>Chemical Society Reviews</i> , 2014, 43, 7887-7916.	18.7	614
255	Influencing factors on the synthesis of magnetically responsive lipases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 110, 47-53.	1.8	10
256	Biodiesel production optimization using γ -Al ₂ O ₃ based catalysts. <i>Energy</i> , 2014, 73, 661-669.	4.5	22
257	Immobilization of <i>Candida antarctica</i> Lipase A on Chitosan Beads for the Production of Fatty Acid Methyl Ester from Waste Frying Oil. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2014, 36, 2313-2319.	1.2	6
258	Effect of visible light on catalytic hydrolysis of p-nitrophenyl palmitate by the <i>Pseudomonas cepacia</i> lipase immobilized on sol-gel support. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 2353-2359.	1.7	2
259	Biodiesel production using chemical and biological methods – A review of process, catalyst, acyl acceptor, source and process variables. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 38, 368-382.	8.2	124
260	Comparison of biodiesel production from crude <i>Jatropha</i> oil and Krating oil by supercritical methanol transesterification. <i>Renewable Energy</i> , 2014, 68, 351-355.	4.3	47

#	ARTICLE	IF	CITATIONS
261	Lipozyme RM IM-Catalyzed Acidolysis of <i>Cinnamomum camphora</i> Seed Oil with Oleic Acid To Produce Human Milk Fat Substitutes Enriched in Medium-Chain Fatty Acids. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 10594-10603.	2.4	32
262	Increasing binding density of yeast cells by control of surface charge with allylamine grafting to ion modified polymer surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 537-544.	2.5	3
263	LIPASE-CATALYZED TRANSESTERIFICATION OF PALM KERNEL OIL WITH DIALKYL CARBONATES. <i>American Journal of Applied Sciences</i> , 2014, 11, 1212-1223.	0.1	1
264	Pyrolysis of Biomass. , 2014, , 136-167.		1
265	Fabrication of amphiphilic copolymeric gels with enhanced activity of immobilized enzymes in organic media. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	7
266	Biocatalytic Production of Biodiesel from Vegetable Oils. , 0, , .		4
267	<i>Beauveria bassiana</i> Lipase A expressed in <i>Komagataella (Pichia) pastoris</i> with potential for biodiesel catalysis. <i>Frontiers in Microbiology</i> , 2015, 6, 1083.	1.5	17
268	Additives improve the enzymatic synthesis of biodiesel from waste oil in a solvent free system. <i>Fuel</i> , 2015, 146, 13-19.	3.4	29
269	Reactive extraction and fermental transesterification of rapeseed oil with butanol in diesel fuel media. <i>Fuel Processing Technology</i> , 2015, 138, 758-764.	3.7	9
270	Current status and new developments of biodiesel production using fungal lipases. <i>Fuel</i> , 2015, 159, 52-67.	3.4	116
271	A flow-through enzymatic microreactor for the rapid conversion of triacylglycerols into fatty acid ethyl ester and fatty acid methyl ester derivatives for GC analysis. <i>Analytical Methods</i> , 2015, 7, 5898-5906.	1.3	9
272	Two-step biocatalytic process using lipase and whole cell catalysts for biodiesel production from unrefined jatropha oil. <i>Biotechnology Letters</i> , 2015, 37, 1959-1963.	1.1	27
273	Lipase immobilized carbon nanotubes for conversion of <i>Jatropha</i> oil to fatty acid methyl esters. <i>Biomass and Bioenergy</i> , 2015, 81, 83-87.	2.9	27
274	Enhancing the enzymatic synthesis of alkyl esters by coupling transesterification to an efficient glycerol separation system. <i>Fuel</i> , 2015, 153, 13-18.	3.4	7
275	The Mathematical Theory of Diffusion and Reaction in Enzymes Immobilized Artificial Membrane. The Theory of the Non-Steady State. <i>Journal of Membrane Biology</i> , 2015, 248, 1127-1135.	1.0	1
276	Effects of methanol on lipases: Molecular, kinetic and process issues in the production of biodiesel. <i>Biotechnology Journal</i> , 2015, 10, 22-30.	1.8	140
278	Overview of the challenges in the production of biodiesel. <i>Biomass Conversion and Biorefinery</i> , 2015, 5, 321-329.	2.9	32
280	Supported cobalt oxide nanoparticles as efficient catalyst in esterification and amidation reactions. <i>Catalysis Communications</i> , 2015, 59, 122-126.	1.6	20

#	ARTICLE	IF	CITATIONS
281	Advances in synthesis of biodiesel via enzyme catalysis: Novel and sustainable approaches. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 41, 1447-1464.	8.2	236
282	<i>In Situ</i> Enzyme Entrapments in Macroporous Polymeric Organogels Using A Water-in-Oil Emulsion-Gelation Method for Reactions in Organic Media. <i>Journal of Chemical Engineering of Japan</i> , 2016, 49, 48-51.	0.3	2
283	Biochemical catalytic production of biodiesel. , 2016, , 165-199.		9
284	Solvent-Free Esterification of Carboxylic Acids Using Supported Iron Oxide Nanoparticles as an Efficient and Recoverable Catalyst. <i>Materials</i> , 2016, 9, 557.	1.3	22
285	The shape of protein"polymer conjugates in dilute solution. <i>Journal of Polymer Science Part A</i> , 2016, 54, 292-302.	2.5	15
286	¹ H NMR Based Quantification of Ethyl Ester in Biodiesel: A Comparative Study of Product-Dependent Derivations. <i>Analytical Chemistry Letters</i> , 2016, 6, 518-525.	0.4	4
287	A review of the enzymatic hydroesterification process for biodiesel production. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 61, 245-257.	8.2	108
288	Biodiesel production using immobilized lipase: feasibility and challenges. <i>Biofuels, Bioproducts and Biorefining</i> , 2016, 10, 896-916.	1.9	76
289	Ultrasonic and microwave effects on crystalline Mn(II) carbonate catalyzed biodiesel production using watermelon (<i>Citrullus vulgaris</i>) seed oil and alcohol (fibrous flesh) as exclusive green feedstock. <i>Biofuels</i> , 2016, 7, 735-741.	1.4	6
290	Immobilization of lipase onto mesoporous magnetic nanoparticles for enzymatic synthesis of biodiesel. <i>Biocatalysis and Agricultural Biotechnology</i> , 2016, 8, 182-188.	1.5	59
291	Lipase-catalyzed methanolysis of microalgae oil for biodiesel production and PUFAs concentration. <i>Catalysis Communications</i> , 2016, 84, 44-47.	1.6	28
292	Catalysis for Renewable Chemicals. , 2016, , 597-662.		3
293	Alkaline catalyzed biodiesel production from safflower (<i>Carthamus tinctorius</i>) oil: Optimization of parameters and determination of fuel properties. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 835-841.	1.2	8
294	Enzymatic methanolysis reaction of canola oil using capillary channel reactor: Determination of the kinetic constants-involved. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 132, 47-53.	1.8	16
295	Synthesis and Characterization of Immobilized Lipase on Fe ₃ O ₄ Nanoparticles as Nano biocatalyst for the Synthesis of Benzothiazepine and Spirobenzothiazine Chroman Derivatives. <i>Catalysis Letters</i> , 2016, 146, 1729-1742.	1.4	33
296	Impact of alcohol on biodiesel production and properties. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 56, 319-333.	8.2	180
297	Manufacturing of zeolite based catalyst from zeolite tuft for biodiesel production from waste sunflower oil. <i>Renewable Energy</i> , 2016, 93, 449-459.	4.3	73
298	Response surface optimization of biodiesel production using immobilized <i>Rhizopus oryzae</i> cells. <i>Biofuels</i> , 2016, 7, 457-464.	1.4	1

#	ARTICLE	IF	CITATIONS
299	Study of reversible kinetic models for alkali-catalyzed <i>Jatropha curcas</i> transesterification. <i>Biomass Conversion and Biorefinery</i> , 2016, 6, 61-70.	2.9	8
300	Sulfated niobia supported on KIT-6 as a catalyst for transesterification of groundnut oil. <i>Journal of Porous Materials</i> , 2016, 23, 639-646.	1.3	9
301	Hybrid silica with bimodal mesopore system: Synthesis and catalytic evaluation. <i>Journal of Molecular Catalysis A</i> , 2016, 422, 51-58.	4.8	5
302	Lipase immobilization for catalytic applications obtained using fumed silica deposited with MAPLE technique. <i>Applied Surface Science</i> , 2016, 374, 346-352.	3.1	11
303	Optimization of low quality rapeseed oil transesterification with butanol by applying the response surface methodology. <i>Renewable Energy</i> , 2016, 87, 266-272.	4.3	28
304	Ultrasound assisted intensification of biodiesel production using enzymatic interesterification. <i>Ultrasonics Sonochemistry</i> , 2016, 29, 67-75.	3.8	118
305	Potential biotechnological application of microalgae: a critical review. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 37-52.	5.1	125
306	A review on the important aspects of lipase immobilization on nanomaterials. <i>Biotechnology and Applied Biochemistry</i> , 2017, 64, 496-508.	1.4	120
307	Biodiesel Production Through Chemical and Biochemical Transesterification. , 2017, , 465-485.		27
308	Ethyl Biodiesel Production Using Lipase Immobilized in Silk Fibroin-Alginate Spheres by Encapsulation. <i>Catalysis Letters</i> , 2017, 147, 269-280.	1.4	24
310	Evaluation of different lipase biocatalysts in the production of biodiesel from used cooking oil: Critical role of the immobilization support. <i>Fuel</i> , 2017, 200, 1-10.	3.4	118
311	One-step synthesis of high-yield biodiesel from waste cooking oils by a novel and highly methanol-tolerant immobilized lipase. <i>Bioresource Technology</i> , 2017, 235, 18-24.	4.8	102
312	Heterologous expression and characterization of a new lipase from <i>Pseudomonas fluorescens</i> Pf0-1 and used for biodiesel production. <i>Scientific Reports</i> , 2017, 7, 15711.	1.6	20
313	Novel environmentally friendly fuel: The effects of nanographene oxide additives on the performance and emission characteristics of diesel engines fuelled with <i>Ailanthus altissima</i> biodiesel. <i>Renewable Energy</i> , 2018, 125, 283-294.	4.3	146
314	Transesterification of triolein with ethanol using lipase-entrapped NIPA-co-PEGMEA gel beads. <i>Reactive and Functional Polymers</i> , 2018, 126, 83-86.	2.0	5
315	The use of immobilized enzymes to improve functionality. , 2018, , 569-597.		12
316	Comparative studies on catalytic properties of immobilized lipase on low-cost support matrix for transesterification of pinnai oil. <i>Biomass Conversion and Biorefinery</i> , 2018, 8, 69-77.	2.9	5
317	A review of production, properties and advantages of biodiesel. <i>Biofuels</i> , 2018, 9, 273-289.	1.4	197

#	ARTICLE	IF	CITATIONS
318	Bio-affinity mediated immobilization of lipase onto magnetic cellulose nanospheres for high yield biodiesel in one time addition of methanol. <i>Bioresource Technology</i> , 2018, 249, 354-360.	4.8	35
319	Effect of acyl-acceptor stepwise addition strategy using <i>alperujo</i> oil as a substrate in enzymatic biodiesel synthesis. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 541-547.	1.6	15
320	Monoacylglycerol and diacylglycerol production by hydrolysis of refined vegetable oil by-products using an immobilized lipase from <i>Serratia</i> sp. W3. <i>Journal of Separation Science</i> , 2018, 41, 4323-4330.	1.3	11
321	Biotechnological potential of lipases from <i>Pseudomonas</i> : Sources, properties and applications. <i>Process Biochemistry</i> , 2018, 75, 99-120.	1.8	120
322	Lipase-catalyzed enantioselective transesterification of 3-hydroxy-3-(2-thienyl) propanenitrile in liquid carbon dioxide. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 224-229.	2.1	4
323	Simultaneous acetone-butanol-ethanol fermentation, gas stripping, and full-cell-catalyzed esterification for effective production of butyl oleate. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 1329-1336.	1.7	3
324	Interaction of <i>Yarrowia lipolytica</i> lipase with dithiocarbamate modified magnetic carbon Fe ₃ O ₄ @C-NHCS ₂ H core-shell nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2018, 117, 218-224.	3.6	38
325	Biodiesel Production Using Lipases. , 2018, , 203-238.		2
326	Biodiesel, a Green Fuel Obtained Through Enzymatic Catalysis. , 2018, , 191-234.		1
327	The Realm of Lipases in Biodiesel Production. , 2018, , 247-288.		7
328	Solid-State Fermentation for the Production of Lipases for Environmental and Biodiesel Applications. , 2018, , 123-168.		9
329	The Synthesis of Polyethersulfone (PES) Derivatives for the Immobilization of Lipase Enzyme. <i>Key Engineering Materials</i> , 0, 811, 14-21.	0.4	2
330	Enhanced performance of lipase immobilized onto Co ²⁺ -chelated magnetic nanoparticles and its application in biodiesel production. <i>Fuel</i> , 2019, 255, 115794.	3.4	42
331	Application of polysaccharides in enzyme immobilization. , 2019, , 357-395.		5
332	Comparative analysis of immobilized biocatalyst: study of process variables in trans-esterification reaction. <i>3 Biotech</i> , 2019, 9, 443.	1.1	4
333	Surface Patterning for Enhanced Protein Stability: Insights from Molecular Simulations. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8363-8369.	1.2	3
334	Microbial lipids from cellulolytic oleaginous fungus <i>Penicillium citrinum</i> PKB20 as a potential feedstock for biodiesel production. <i>Annals of Microbiology</i> , 2019, 69, 1135-1146.	1.1	18
335	Uses of Enzymes for Biodiesel Production. , 2019, , 135-152.		12

#	ARTICLE	IF	CITATIONS
336	Combined magnetic ligand fishing and high-resolution inhibition profiling for identification of β -glucosidase inhibitory ligands: A new screening approach based on complementary inhibition and affinity profiles. <i>Talanta</i> , 2019, 200, 279-287.	2.9	27
337	Effects of various co-solvents on the solubility between blends of soybean oil with either methanol or ethanol. <i>Fuel</i> , 2019, 244, 461-471.	3.4	57
338	Catalysis in biodiesel production—a review. <i>Clean Energy</i> , 2019, 3, 2-23.	1.5	330
339	Improving the reusability of an immobilized lipase-ionic liquid system for biodiesel production. <i>Biofuels</i> , 2019, 10, 635-641.	1.4	12
340	Enzymatic production of biodiesel from waste oil in ionic liquid medium. <i>Biofuels</i> , 2019, 10, 463-472.	1.4	38
341	Performance and emission characteristics of a CI engine using graphene oxide (GO) nano-particles additives in biodiesel-diesel blends. <i>Renewable Energy</i> , 2020, 145, 458-465.	4.3	107
344	Fe ₃ O ₄ -PDA-Lipase as Surface Functionalized Nano Biocatalyst for the Production of Biodiesel Using Waste Cooking Oil as Feedstock: Characterization and Process Optimization. <i>Energies</i> , 2020, 13, 177.	1.6	70
345	Synthesis of flavor compound ethyl hydrocinnamate by <i>Yarrowia lipolytica</i> lipases. <i>Biocatalysis and Biotransformation</i> , 2021, 39, 455-464.	1.1	3
346	Main Structural Targets for Engineering Lipase Substrate Specificity. <i>Catalysts</i> , 2020, 10, 747.	1.6	35
347	Enzymatic transesterification of coconut oil by using immobilized lipase on biochar: An experimental and molecular docking study. <i>Biotechnology and Applied Biochemistry</i> , 2021, 68, 801-808.	1.4	19
351	Characterization and reutilization potential of lipids in sludges from wastewater treatment processes. <i>Scientific Reports</i> , 2020, 10, 12997.	1.6	6
352	Developments in the Use of Lipase Transesterification for Biodiesel Production from Animal Fat Waste. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5085.	1.3	41
354	Recent Advances in Enzymatic Conversion of Microalgal Lipids into Biodiesel. <i>Energy & Fuels</i> , 2020, 34, 6735-6750.	2.5	28
355	Desirability function approach for optimization of enzymatic transesterification catalyzed by lipase immobilized on mesoporous magnetic nanoparticles. <i>Renewable Energy</i> , 2020, 158, 253-262.	4.3	33
356	A new reactor for enzymatic synthesis of biodiesel from waste cooking oil: A static-mixed reactor pilot study. <i>Renewable Energy</i> , 2020, 154, 270-277.	4.3	22
358	Ultrasonic and microwave effects on Prussian blue catalysed high-quality biodiesel production using Watermelon (<i>Citrullus vulgaris</i>) seed oil and alcohol extract (from fibrous flesh) as an exclusive green feedstock. <i>Biofuels</i> , 2021, 12, 597-603.	1.4	2
359	Model-to-model: Comparison of mathematical process models of lipase catalysed biodiesel production in a microreactor. <i>Computers and Chemical Engineering</i> , 2021, 145, 107200.	2.0	9
360	Microbial Degradation of Lipids. <i>Environmental and Microbial Biotechnology</i> , 2021, , 251-272.	0.4	2

#	ARTICLE	IF	CITATIONS
361	Polymer Modification of Lipases, Substrate Interactions, and Potential Inhibition. <i>Biomacromolecules</i> , 2021, 22, 309-318.	2.6	8
362	Promising Immobilization of Industrial-Class Phospholipase A1 to Attain High-Yield Phospholipids Hydrolysis and Repeated Use with Optimal Water Content in Water-in-Oil Microemulsion Phase. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1456.	1.3	0
363	Immobilization of endoglucanase on kaolin by adsorption and covalent bonding. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 1627-1637.	1.7	5
364	Sustainable Enzymatic Approach for the Production of Essential Fatty Acid Based on Coffee Oil Hydrolysis. <i>Catalysis Letters</i> , 2022, 152, 452-459.	1.4	4
366	Biodiesel production using <i>Candida rugosa</i> as biocatalytic lipase immobilized on p-â€nitrobenzyl cellulose xanthate (NBXCel). <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 1789.	1.9	1
367	Identification of Effective Factors for Immobilized Lipase Catalysed Biodiesel Production from <i>Pongamia pinnata</i> Seed Oil Using Plackett-Burman Design. <i>International Journal of Current Microbiology and Applied Sciences</i> , 2021, 10, 173-182.	0.0	1
368	Temperature-resistant and solvent-tolerant lipases as industrial biocatalysts: Biotechnological approaches and applications. <i>International Journal of Biological Macromolecules</i> , 2021, 187, 127-142.	3.6	37
369	Challenges and Opportunities for the Encapsulation of Enzymes over Porous Solids for Biodiesel Production and Cellulose Valorization into Glucose. <i>ChemCatChem</i> , 2021, 13, 4679-4693.	1.8	12
371	Recent advances in biodiesel production: Challenges and solutions. <i>Science of the Total Environment</i> , 2021, 794, 148751.	3.9	137
372	Trends in lipase immobilization: Bibliometric review and patent analysis. <i>Process Biochemistry</i> , 2021, 110, 37-51.	1.8	51
373	A bi-functional alginate-based composite for catalyzing one-pot methyl esters synthesis from waste cooking oil having high acidity. <i>Fuel</i> , 2021, 306, 121637.	3.4	7
376	Mechanism Exploration during Lipase-Mediated Methanolysis of Renewable Oils for Biodiesel Production in tert-Butanol System. <i>Biotechnology Progress</i> , 2007, 23, 1087-1090.	1.3	48
377	Kinetics of Enzyme-Catalyzed Alcoholysis of Soybean Oil in n-Hexane. , 2005, , 231-241.		2
378	Production of Biodiesel Using Ionic Liquids. <i>Nanotechnology in the Life Sciences</i> , 2020, , 245-269.	0.4	3
379	Microbial Lipases and Their Versatile Applications. <i>Microorganisms for Sustainability</i> , 2020, , 207-230.	0.4	8
380	Operation Optimization of Lipase-Catalyzed Biodiesel Production. <i>Journal of Chemical Engineering of Japan</i> , 2007, 40, 571-574.	0.3	4
381	Continuous Esterification using Lipase-Entrapped Amphiphilic Copolymeric Gel Beads. <i>Kagaku Kogaku Ronbunshu</i> , 2018, 44, 185-188.	0.1	1
382	Enzymatic Synthesis of Biodiesel by Direct Transesterification of Rapeseed Cake. <i>International Journal of Food Engineering</i> , 2020, 16, .	0.7	5

#	ARTICLE	IF	CITATIONS
383	Fatty acid ethyl esters production using a non-commercial lipase in pressurized propane medium. Food Science and Technology, 2009, 29, 603-608.	0.8	7
384	The role of organic solvent amount in the lipase-catalyzed biodiesel production. Food Science and Technology, 2010, 30, 76-78.	0.8	3
385	Enzymatic Production of Bio-Diesel from Waste Cooking Oil Using Lipase. Open Chemical Engineering Journal, 2008, 2, 84-88.	0.4	9
386	Biodiesel II: A new concept of biodiesel production - transesterification with supercritical methanol. Hemijska Industrija, 2004, 58, 176-185.	0.3	5
387	Biodiesel production by enzyme-catalyzed transesterification. Hemijska Industrija, 2005, 59, 49-59.	0.3	9
388	Lipases as biocatalysts for biodiesel production. Hemijska Industrija, 2010, 64, 1-8.	0.3	2
389	The hydrolytic activity of <i>Pseudomonas mendocina</i> 3121-1 lipase. A kinetic study. Biologija (Vilnius, Lithuania), 2009, 55, 71-79.	0.3	3
390	PHYTOREMEDIATION FOR HEAVY METAL-CONTAMINATED SOILS COMBINED WITH BIOENERGY PRODUCTION. Journal of Environmental Engineering and Landscape Management, 2007, 15, 227-236.	0.4	188
391	Effect of Deacetylation Degree of Chitosan as Solid Support in Lipase Immobilization by Glutaraldehyde Crosslink. Asian Journal of Biochemistry, 2016, 11, 127-134.	0.5	4
392	Application of Immobilized Lipase Enzyme for the Production of Biodiesel from Waste Cooking Oil. Asian Journal of Biological Sciences, 2013, 6, 322-330.	0.2	5
393	Recent Advances and Applications of Immobilized Enzyme Technologies: A Review. Research Journal of Biological Sciences, 2010, 5, 565-575.	0.1	103
394	Enzymatic transesterification of lipids from microalgae into biodiesel: a review. AIMS Energy, 2016, 4, 817-855.	1.1	18
395	Lipase-catalyzed Esterification of (S)-Naproxen Ethyl Ester in Supercritical Carbon Dioxide. Journal of Microbiology and Biotechnology, 2009, 19, 1596-1602.	0.9	12
396	Biodiesel from Plant Resources—Sustainable Solution to Ever Increasing Fuel Oil Demands. Journal of Sustainable Bioenergy Systems, 2013, 03, 163-170.	0.2	12
397	Application of Biotechnological Method to Biodiesel Fuel Production using n-butanol. Environmental Research, Engineering and Management, 2011, 56, .	0.4	3
399	Biodiesel: Fuel for the Future (A Brief Review). International Journal of Energy and Engineering, 2012, 2, 223-231.	2.0	25
400	Production of Biodiesel from Marine and Freshwater Microalgae: A Review. Advances in Research, 2015, 3, 107-155.	0.3	10
401	Immobilization of Enzymes by Polymeric Materials. Catalysts, 2021, 11, 1211.	1.6	29

#	ARTICLE	IF	CITATIONS
402	Erratum to "Trends in lipase immobilization: Bibliometric review and patent analysis" [Process Biochem. 110 (2021) 37-51]. Process Biochemistry, 2021, 110, 303-321.	1.8	3
403	A Short Review on Catalyst, Feedstock, Modernised Process, Current State and Challenges on Biodiesel Production. Catalysts, 2021, 11, 1261.	1.6	28
404	Lipase-Catalyzed Transesterification of Rapeseed Oil for Biodiesel Production with tert-Butanol. , 2007, , 649-657.		1
405	Study on the Production of Biodiesel by Magnetic Cell Biocatalyst Based on Lipase-Producing Bacillus subtilis. , 2007, , 793-803.		1
406	Lipase-Catalyzed Preparation of Biodiesel. , 2008, , 199-212.		0
407	Technologies for the conversion of food waste to energy: a research review. Food Manufacturing Efficiency, 2009, 2, 35-58.	0.3	0
408	Chapter 4. Enzymatic Biodiesel. RSC Green Chemistry, 2010, , 131-180.	0.0	1
409	Lipase Immobilization. , 2015, , 41-58.		0
410	Lipase-Catalyzed Production of Biodiesel Using Supercritical Technology. , 2015, , 113-152.		0
411	Lipases, Definition, and their Application. IOSR Journal of Pharmacy and Biological Sciences, 2017, 12, 55-60.	0.1	0
413	Methods of fatty acid butyl esters synthesis: present and prospects. Catalysis and Petrochemistry, 2020, , 11-23.	0.2	2
415	Whole cell enzyme catalyst production using waste substrate for application in production of biodiesel. , 2022, , 163-191.		0
417	Towards one-pot consolidated bioprocessing of cellulose to biodiesel: lipase-catalyzed transesterification at cellulose-coated oil-in-water emulsions as microreactors. Journal of Chemical Technology and Biotechnology, 2022, 97, 2607-2612.	1.6	2
418	Fatty acid methyl esters production: chemical process variables. Ingenieria E Investigacion, 2004, 24, 41-50.	0.2	0
419	A COMPREHENSIVE REVIEW ON ENZYMATIC REACTION CONDITIONS. I-manager S Journal on Material Science, 2021, 9, 23.	0.2	0
420	Biomass Energy Conversion Using Thermochemical and Biochemical Technologies. Clean Energy Production Technologies, 2022, , 93-131.	0.3	3
421	Biodiesel Produced from Propanol and Longer Chain Alcohols" Synthesis and Properties. Energies, 2022, 15, 4996.	1.6	5
422	Influence of nanoparticles on emission and performance characteristics of biodiesel-diesel blends in a DI diesel engine. Australian Journal of Mechanical Engineering, 0, , 1-16.	1.5	2

#	ARTICLE	IF	CITATIONS
423	Design and development of a new static mixing bioreactor for enzymatic bioprocess: Application in biodiesel production. <i>Renewable Energy</i> , 2022, 197, 922-931.	4.3	6
424	Immobilized Lipase for Industrial Biodiesel Production. <i>Clean Energy Production Technologies</i> , 2022, , 259-278.	0.3	0
425	Enzyme Technology in Biofuel Production. <i>Clean Energy Production Technologies</i> , 2022, , 239-257.	0.3	1
426	Estimativa de parâmetros de um modelo cinético enzimático de produção de biodiesel por transesterificação de óleos vegetais. <i>Conjeturas</i> , 2022, 22, 756-770.	0.0	0
427	Quality biodiesel via biotransesterification from inedible renewable sources. <i>Journal of Cleaner Production</i> , 2022, 379, 134653.	4.6	13
428	Biofuels from Renewable Sources, a Potential Option for Biodiesel Production. <i>Bioengineering</i> , 2023, 10, 29.	1.6	22
429	Ionic liquids in metrological analysis and applications. , 2023, , 443-463.		0
430	Cell immobilization strategies to enhance yield of liquid biofuels. , 2023, , 229-250.		0
434	Current Status and Future Prospectus of Bioenergy Crops. , 2023, , 271-288.		0