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Biodiesel production through lipase catalyzed transesterification: An overview

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381	Combination of two lipases more efficiently catalyzes methanolysis of soybean oil for biodiesel production in aqueous medium. <i>Process Biochemistry</i> , 2010 , 45, 1677-1682	4.8	58
380	Microwave activation of enzymatic catalysts for biodiesel production. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010 , 67, 117-121		42
379	Protein engineering for bioenergy and biomass-based chemicals. 2010 , 20, 527-32		17
378	Homogeneous, heterogeneous and enzymatic catalysis for transesterification of high free fatty acid oil (waste cooking oil) to biodiesel: a review. 2010 , 28, 500-18		883
377	One-phase ionic liquid reaction medium for biocatalytic production of biodiesel. 2010 , 3, 1359-63		47
376	Production of biodiesel catalyzed by immobilized Pseudomonas cepacia lipase from Sapium sebiferum oil in micro-aqueous phase. 2010 , 87, 3148-3154		73
375	Biodiesel preparation catalyzed by compound-lipase in co-solvent. 2010 , 91, 1229-1234		46
374	Scale up of a novel tri-substrate fermentation for enhanced production of Aspergillus niger lipase for tallow hydrolysis. 2010 , 101, 6791-6		57
373	Biodiesel production by heterogeneous catalysts and supercritical technologies. 2010 , 101, 7191-200		170
372	A synergistic effect of microwave irradiation and ionic liquids on enzyme-catalyzed biodiesel production. 2011 , 13, 1869		101
371	Lipases microbianas: Produß, propriedades e aplicals biotecnolgicas. 2011 , 32, 213-234		11
370	Bioenergy. 2011 , 327-418		1
369	Industrial Enzymes. 2011 , 3-13		9
368	Biotechnological Methods to Produce Biodiesel. 2011 , 315-337		9
367	Esterification activity and stability of Talaromyces thermophilus lipase immobilized onto chitosan. Journal of Molecular Catalysis B: Enzymatic, 2011 , 68, 230-239		49
366	Towards continuous sustainable processes for enzymatic synthesis of biodiesel in hydrophobic ionic liquids/supercritical carbon dioxide biphasic systems. 2011 , 90, 3461-3467		74
365	Inorganic heterogeneous catalysts for biodiesel production from vegetable oils. 2011 , 35, 3787-3809		246

(2012-2011)

364	One-step enzymatic production of fatty acid ethyl ester from high-acidity waste feedstocks in solvent-free media. 2011 , 102, 9653-8	47
363	Process engineering and optimization of glycerol separation in a packed-bed reactor for enzymatic biodiesel production. 2011 , 102, 10419-24	26
362	A novel lipase-based stationary phase in liquid chromatography. 2011 , 689, 143-8	3
361	Penicillium expansum lipase-catalyzed production of biodiesel in ionic liquids. 2011 , 102, 2767-72	80
360	Identification and characterization of a new true lipase isolated through metagenomic approach. 2011 , 10, 54	127
359	Immobilization and stability of a Rhizopus oryzae lipase expressed in Pichia pastoris: comparison between native and recombinant variants. 2011 , 27, 1232-41	17
358	Performance of a cutinase membrane reactor for the production of biodiesel in organic media. 2011 , 108, 1279-89	18
357	Biodiesel production from pomace oil by using lipase immobilized onto olive pomace. 2011 , 102, 3977-80	64
356	A novel alkaline lipase from Ralstonia with potential application in biodiesel production. 2011 , 102, 6104-11	60
355	Enzymatic coproduction of biodiesel and glycerol carbonate from soybean oil and dimethyl carbonate. 2011 , 48, 505-9	71
354	Enhancing the functional properties of thermophilic enzymes by chemical modification and immobilization. 2011 , 49, 326-46	266
353	Transesterification of vegetable oils over a phosphazenium hydroxide catalyst incorporated onto silica. 2011 , 92, 126-131	11
352	Continuous production of lipase-catalyzed biodiesel in a packed-bed reactor: optimization and enzyme reuse study. 2011 , 2011,	31
351	Enzymatic biodiesel synthesis using a byproduct obtained from palm oil refining. 2011 , 2011, 814507	40
350	Utilization of biodiesel by-products for biogas production. 2011 , 2011, 126798	57
349	Gene cloning and catalytic characterization of cold-adapted lipase of Photobacterium sp. MA1-3 isolated from blood clam. 2012 , 114, 589-95	14
348	Simultaneous Optimization and Heat Integration for Biodiesel Production from Cooking Oil and Algae. 2012 , 51, 7998-8014	94
347	Versatility of glutaraldehyde to immobilize lipases: Effect of the immobilization protocol on the properties of lipase B from Candida antarctica. <i>Process Biochemistry</i> , 2012 , 47, 1220-1227	167

346	Microwave assisted lipase catalyzed synthesis of isoamyl myristate in solvent-free system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012 , 83, 16-22		52
345	Current biodiesel production technologies: A comparative review. 2012 , 63, 138-148		385
344	Synergistic effect in the catalytic activity of lipase Rhizomucor miehei immobilized on zeolites for the production of biodiesel. 2012 , 163, 343-355		18
343	Double Candida antarctica lipase B co-display on Pichia pastoris cell surface based on a self-processing foot-and-mouth disease virus 2A peptide. 2012 , 96, 1539-50		17
342	An organic solvent-tolerant alkaline lipase from Streptomyces sp. CS268 and its application in biodiesel production. 2012 , 17, 67-75		22
341	Optimization of biocatalytic biodiesel production from pomace oil using response surface methodology. 2012 , 99, 97-102		54
340	Ionic liquids for biofuel production: Opportunities and challenges. 2012 , 92, 406-414		171
339	Optimization of immobilization conditions of Thermomyces lanuginosus lipase on olive pomace powder using response surface methodology. 2012 , 1, 39-44		37
338	Lipase-coated K2SO4 micro-crystals: preparation, characterization, and application in biodiesel production using various oil feedstocks. 2012 , 110, 224-31		27
337	Lipase supported on mesoporous materials as a catalyst in the synthesis of biodiesel from Persea americana mill oil. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012 , 77, 32-38		26
336	Optimized preparation of CALB-CLEAs by response surface methodology: The necessity to employ a feeder to have an effective crosslinking. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012 , 80, 7-14		66
335	Ultrasound-assisted lipase-catalyzed transesterification of soybean oil in organic solvent system. 2012 , 19, 452-8		81
334	Use of bioethanol for biodiesel production. 2012 , 38, 283-301		85
333	Effect of solid-phase chemical modification on the features of the lipase from Thermomyces lanuginosus. <i>Process Biochemistry</i> , 2012 , 47, 460-466	4.8	28
332	An organic solventEolerant lipase from Streptomyces sp. CS133 for enzymatic transesterification of vegetable oils in organic media. <i>Process Biochemistry</i> , 2012 , 47, 635-642	4.8	30
331	The slow-down of the CALB immobilization rate permits to control the inter and intra molecular modification produced by glutaraldehyde. <i>Process Biochemistry</i> , 2012 , 47, 766-774	4.8	49
330	Modulation of the properties of immobilized CALB by chemical modification with 2,3,4-trinitrobenzenesulfonate or ethylendiamine. Advantages of using adsorbed lipases on hydrophobic supports. <i>Process Biochemistry</i> , 2012 , 47, 867-876	4.8	56
329	A summary of the available technologies for biodiesel production based on a comparison of different feedstock's properties. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 157-163	5.5	66

328	A novel cold-adapted lipase, LP28, from a mesophilic Streptomyces strain. 2012 , 35, 217-25		7
327	A neutral lipase applicable in biodiesel production from a newly isolated Streptomyces sp. CS326. 2012 , 35, 227-34		10
326	Characterization of an extracellular lipase and its chaperone from Ralstonia eutropha H16. 2013 , 97, 2443-54		40
325	Optimal integration for biodiesel production using bioethanol. 2013 , 59, 834-844		33
324	High-level expression and characterization of a chimeric lipase from Rhizopus oryzae for biodiesel production. 2013 , 6, 29		32
323	Microalgae for a macroenergy world. 2013 , 26, 241-264		131
322	Are plant lipases a promising alternative to catalyze transesterification for biodiesel production?. 2013 , 39, 441-456		45
321	Biodiesel Properties and Alternative Feedstocks. 2013 , 205-234		1
320	Glycerol production and its applications as a raw material: A review. 2013 , 27, 118-127		372
319	Lipase mediated transesterification of Simarouba glauca oil: a new feedstock for biodiesel production. 2013 , 1, 11		32
318	High cell density fed-batch fermentations for lipase production: feeding strategies and oxygen transfer. 2013 , 36, 1527-43		22
317	Assessing the potential of non-edible oils and residual fat to be used as a feedstock source in the enzymatic ethanolysis reaction. 2013 , 50, 485-493		41
316	Ordered mesoporous materials containing Mucor Miehei Lipase as biocatalyst for transesterification reaction. <i>Process Biochemistry</i> , 2013 , 48, 831-837	4.8	20
315	Highly active biocatalyst for transesterification: Cross linked enzyme aggregates of Thermomyces lanuginosus and Candida antarctica B. 2013 , 115, n/a-n/a		4
314	Alkaline-catalyzed transesterification of Silurus triostegus Heckel fish oil: Optimization of transesterification parameters. <i>Renewable Energy</i> , 2013 , 60, 481-488	8.1	73
313	Enhanced production of recombinant thermo-stable lipase in Escherichia coli at high induction temperature. 2013 , 90, 96-103		14
312	Lipase-Catalyzed Transesterification for Biodiesel Production in Ionic Liquid [Emim]Tfo. 2013 , 10, 63-71		11
311	Ionic liquids and deep eutectic solvents for biodiesel synthesis: a review. 2013 , 88, 3-12		206

310	Biotechnological prospects of the lipase from Mucor javanicus. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013 , 93, 34-43	17
309	Carbon-in-silica matrices for the preparation of heterogeneous biocatalysts: The synthesis of carbon nanofibers on a Ni/SiO2 catalyst and the characterization of the resulting adsorbents for the immobilization of thermostable lipase. 2013 , 54, 749-760	7
308	Isocyanate-mediated covalent immobilization of Mucor miehei lipase onto SBA-15 for transesterification reaction. 2013 , 112, 139-45	25
307	Enzyme catalyzed transesterification of waste cooking oil with dimethyl carbonate. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013 , 88, 36-40	34
306	Enzymatic production of biodiesel from waste cooking oil in a packed-bed reactor: an engineering approach to separation of hydrophilic impurities. 2013 , 135, 417-21	50
305	Free Lipase-Catalyzed Esterification of Oleic Acid for Fatty Acid Ethyl Ester Preparation with Response Surface Optimization. 2013 , 90, 73-79	27
304	How to produce biodiesel easily using a green biocatalytic approach in sponge-like ionic liquids. 2013 , 6, 1328	59
303	Evolution towards the utilisation of functionalised carbon nanotubes as a new generation catalyst support in biodiesel production: an overview. <i>RSC Advances</i> , 2013 , 3, 9070	46
302	Immobilised enzymes in biorenewables production. 2013 , 42, 6491-533	198
301	Co-immobilization of Candida rugosa and Rhyzopus oryzae lipases and biodiesel production. 2013 , 30, 1335-1338	39
300	Immobilisation and application of lipases in organic media. 2013 , 42, 6406-36	588
299	Purification and Characterization of Lipase From Aspergillus japonicas: A Potent Enzyme for Biodiesel Production. 2013 , 36, 151-156	9
298	Production, characterization and applications of organic solvent tolerant lipase by Pseudomonas aeruginosa AAU2. 2013 , 2, 255-266	44
297	Recombinant strain producing thermostable lipase from Thermomyces lanuginosus immobilized into nanocarbon-in-silica matrices and properties of the prepared biocatalysts. 2013 , 49, 296-305	7
296	Efficient transformation of grease to biodiesel using highly active and easily recyclable magnetic nanobiocatalyst aggregates. 2013 , 145, 233-9	52
295	Enzymatic transesterification monitored by an easy-to-use Fourier transform infrared spectroscopy method. 2013 , 8, 133-8	18
294	Efficient Production of Biodiesel from Rapeseed Oil Deodorizer Distillate: One-Pot Esterification and Transesterfication with Compound Lipases. 2013 , 291-294, 267-275	2
293	Study of support materials for sol-gel immobilized lipase. 2013 , 31, 190-196	6

292	Acyltransferases in bacteria. 2013, 77, 277-321	106
291	The Enzymatic Production of Biodiesel from Pomace Oil Using Immobilized Thermomyces lanuginosus. 2013 , 35, 370-375	5
290	Magnetic Cross-Linked Enzyme Aggregates (mCLEAs) of Candida antarctica lipase: an efficient and stable biocatalyst for biodiesel synthesis. 2014 , 9, e115202	59
289	Selection and characterization of biofuel-producing environmental bacteria isolated from vegetable oil-rich wastes. 2014 , 9, e104063	18
288	Silk-Cocoon Matrix Immobilized Lipase Catalyzed Transesterification of Sunflower Oil for Production of Biodiesel. 2014 , 2014, 1-7	4
287	Enzyme Production from Food Wastes Using a Biorefinery Concept. 2014 , 5, 903-917	59
286	Study on physicochemical properties of biocatalysts with thermostable lipase activity and final products of triglycerides[Interesterification. 2014 , 50, 709-721	2
285	Thermomyces lanuginosus Lipase with Closed Lid Catalyzes Elimination of Acetic Acid from 11-Acetyl-Prostaglandin E2. 2014 , 6, 1998-2010	2
284	New Lipase for Biodiesel Production: Partial Purification and Characterization of LipSB 25-4. 2014 , 2014, 289749	23
283	Protein engineering by random mutagenesis and structure-guided consensus of Geobacillus stearothermophilus Lipase T6 for enhanced stability in methanol. 2014 , 80, 1515-27	89
282	Room temperature production of jatropha biodiesel over coconut husk ash. 2014 , 70, 588-594	71
281	Production and activity of extracellular lipase from Luteibacter sp 2014 , 64, 251-258	5
280	Production of bio-diesel from macro-algae of the Orbetello lagoon by various extraction methods. 2014 , 33, 695-703	6
279	Botryosphaeriales fungi produce extracellular enzymes with biotechnological potential. 2014 , 60, 332-42	26
278	Enhanced Performance of Rhizopus oryzae Lipase Immobilized on Hydrophobic Carriers and Its Application in Biorefinery of Rapeseed Oil Deodorizer Distillate. 2014 , 7, 935-945	28
277	Kinetic modelling of the production of methyl oleate by Celite ^[] supported lipase solgels. Biochemical Engineering Journal, 2014 , 85, 63-70 4.2	12
276	Metabolic engineering of Escherichia coli for production of fatty acid short-chain esters through combination of the fatty acid and 2-keto acid pathways. 2014 , 22, 69-75	45
275	Ultrasound assisted enzymatic conversion of non edible oil to methyl esters. 2014 , 21, 1374-81	20

274	Enzymatic transesterification for production of biodiesel using yeast lipases: An overview. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 1591-1601	107
273	Batch production of FAEE-biodiesel using a liquid lipase formulation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 105, 89-94	44
272	Preparation of core©hell polymer supports to immobilize lipase B from Candida antarctica. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 100, 59-67	62
271	Biotechnological preparation of biodiesel and its high-valued derivatives: A review. 2014 , 113, 1614-1631	115
270	Development of a new biodiesel that integrates glycerol, by using CaO as heterogeneous catalyst, in the partial methanolysis of sunflower oil. 2014 , 122, 94-102	60
269	Zinc metal-organic frameworks: efficient catalysts for the diastereoselective Henry reaction and transesterification. 2014 , 43, 7795-810	78
268	Heterogeneous catalysis for sustainable biodiesel production via esterification and transesterification. 2014 , 43, 7887-916	514
267	Asymmetric reduction of 1-(benzoazol-2-ylsulfanyl)propan-2-ones using whole cells of Mortierella isabellina, Debaryomyces hansenii, Geotrichum candidum and Zygosaccharomyces rouxii. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 109, 9-16	3
266	Process Design for Biodiesel Production with Crude Soybean Oils: Methanol Recovery from the Reacting System. 2014 , 28, 571-577	1
265	Biocatalytic potential of lipase from Staphylococcus sp. MS1 for transesterification of jatropha oil into fatty acid methyl esters. 2014 , 30, 2885-97	5
264	Kinetics of adsorption of lipase onto different mesoporous materials: Evaluation of Avrami model and leaching studies. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 105, 26-32	15
263	Enzymatic Production of Biodiesel from Millettia pinnata Seed Oil in Ionic Liquids. 2014 , 7, 1519-1528	21
262	Identification of critical parameters in liquid enzyme-catalyzed biodiesel production. 2014, 111, 2446-53	37
261	Recent scenario and technologies to utilize non-edible oils for biodiesel production. 2014 , 37, 840-851	119
2 60	Production and characterization of lipases and immobilization of whole cell of the thermophilic Thermomucor indicae seudaticae N31 for transesterification reaction. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014 , 107, 106-113	24
259	Evaluation of styrene-divinylbenzene beads as a support to immobilize lipases. 2014 , 19, 7629-45	44
258	Conversion of by-products from the vegetable oil industry into biodiesel and its use in internal combustion engines: a review. <i>Brazilian Journal of Chemical Engineering</i> , 2014 , 31, 287-301	30
257	ESolvent-free, enzyme-catalyzed biodiesel production from mango, neem, and shea oils via response surface methodology. 2015 , 5, 83	3

(2015-2015)

256	PERFORMANCE OF LOOFA-IMMOBILIZED Rhizopus oryzae IN THE ENZYMATIC PRODUCTION OF BIODIESEL WITH USE OF OLEIC ACID IN n-HEXANE MEDIUM. <i>Brazilian Journal of Chemical Engineering</i> , 2015 , 32, 367-376	ſ.7	6
255	A new alkaline lipase obtained from the metagenome of marine sponge Ircinia sp. 2015 , 31, 1093-102		27
254	Structural insights into methanol-stable variants of lipase T6 from Geobacillus stearothermophilus. 2015 , 99, 9449-61		23
253	Preparation of highly reusable biocatalysts by immobilization of lipases on epoxy-functionalized silica for production of biodiesel from canola oil. <i>Biochemical Engineering Journal</i> , 2015 , 101, 23-31	1.2	69
252	Advanced biodiesel production technologies: novel developments. 2015, 14, 287-316		53
251	Colorimetric assay for heterogeneous-catalyzed lipase activity: enzyme-regulated gold nanoparticle aggregation. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 39-42	5.7	32
250	Biocatalytic conversion of lipids from microalgae Scenedesmus obliquus to biodiesel using Pseudomonas fluorescens lipase. 2015 , 147, 117-124		53
249	Dynamics of the lipid droplet proteome of the Oleaginous yeast rhodosporidium toruloides. 2015 , 14, 252-64		58
248	A novel spiral reactor for biodiesel production in supercritical ethanol. 2015 , 147, 20-29		41
247	Enzymes for food waste remediation and valorisation. 2015 , 123-145		5
246	The Synthesis of Biodiesel from Vegetable Oil. 2015 , 195, 1633-1638		18
245	Current status and new developments of biodiesel production using fungal lipases. 2015 , 159, 52-67		98
244	Enzymatic Production of Biodiesel from Nannochloropsis gaditana Microalgae Using Immobilized Lipases in Mesoporous Materials. 2015 , 29, 4981-4989		25
243	Accurel MP 1000 as a support for the immobilization of lipase from Burkholderia cepacia: Application to the kinetic resolution of myo-inositol derivatives. <i>Process Biochemistry</i> , 2015 , 50, 1557-156	£8	69
242	Two-step biocatalytic process using lipase and whole cell catalysts for biodiesel production from unrefined jatropha oil. 2015 , 37, 1959-63		23
241	Immobilized lipase from Schizophyllum commune ISTL04 for the production of fatty acids methyl esters from cyanobacterial oil. 2015 , 188, 214-8		25
240	Highly efficient enzymatic biodiesel production promoted by particle-induced emulsification. 2015 , 8, 58		28
239	Candida rugosa lipase immobilization on hydrophilic charged gold nanoparticles as promising biocatalysts: Activity and stability investigations. 2015 , 131, 93-101		47

238	Potential new biocatalysts for biofuel production: The fungal lipases of Thermomyces lanuginosus and Rhizomucor miehei immobilized on zeolitic supports ion exchanged with transition metals. 2015 , 214, 166-180		14
237	Marine extremophiles: a source of hydrolases for biotechnological applications. 2015 , 13, 1925-65		176
236	Aquatic biomass (algae) as a future feed stock for bio-refineries: A review on cultivation, processing and products. 2015 , 47, 634-653		139
235	Facile synthesis and stereo-resolution of chiral 1,2,3-triazoles. 2015 , 13, 5407-11		6
234	Heterogeneous biocatalytic processes of vegetable oil interesterification to biodiesel. 2015 , 7, 73-81		11
233	Lipase/enzyme catalyzed biodiesel production from Prunus mahaleb: A comparative study with base catalyzed biodiesel production. 2015 , 76, 1049-1054		11
232	Production of Fatty Acid Ethyl Esters from Waste Cooking Oil Using Novozym 435 in a Solvent-Free System. 2015 , 29, 8074-8081		14
231	Purification and characterization of organic solvent-tolerant lipase from Streptomyces sp. OC119-7 for biodiesel production. 2015 , 4, 103-108		16
230	Saturation mutagenesis in selected amino acids to shift Pseudomonas sp. acidic lipase Lip I.3 substrate specificity and activity. 2015 , 51, 1330-3		16
229	Advances in synthesis of biodiesel via enzyme catalysis: Novel and sustainable approaches. 2015 , 41, 1447-1464		195
228	Production of Biodiesel Using Immobilized Lipase and the Characterization of Different Co-Immobilizing Agents and Immobilization Methods. <i>Sustainability</i> , 2016 , 8, 764	3.6	14
227	Biodiesel production from waste cooking oil by immobilized lipase on superparamagnetic Fe3O4 hollow sub-microspheres. 2016 , 34, 283-290		9
226	Recycling Rhizopus oryzae resting cells as biocatalyst to prepare near eutectic palmitic-stearic acid mixtures from non-edible fat. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 134, 172-177		4
225	Sustainable enzymatic synthesis of glycolipids in a deep eutectic solvent system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 133, S281-S287		24
224	Cocoa pod husk: A new source of CLEA-lipase for preparation of low-cost biodiesel: An optimized process. 2016 , 231, 95-105		20
223	A review of the enzymatic hydroesterification process for biodiesel production. 2016 , 61, 245-257		89
222	Biodiesel production using immobilized lipase: feasibility and challenges. <i>Biofuels, Bioproducts and Biorefining</i> , 2016 , 10, 896-916	5.3	58
221	Evaluation of different immobilized lipases in transesterification reactions using tributyrin: Advantages of the heterofunctional octyl agarose beads. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 133, 117-123		59

220	lanuginosus. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 133, 55-64	29
219	Integrated Biorefinery for Bioenergy and Platform Chemicals. 2016 , 417-435	5
218	Biotechnological Production of Enzymes Using Agro-Industrial Wastes: Economic Considerations, Commercialization Potential, and Future Prospects. 2016 , 313-330	2
217	Lipase Immobilization through the Combination of Bioimprinting and Cross-Linked Protein-Coated Microcrystal Technology for Biodiesel Production. 2016 , 55, 11037-11043	10
216	Computational modelling and protein-ligand interaction studies of SMlipA lipase cloned from forest metagenome. 2016 , 70, 212-225	5
215	The effect of different washing processes on fuel properties in camelina methyl ester. 2016 , 38, 717-722	4
214	Statistical Optimization of Ethanol-Based Biodiesel Production from Sludge Palm Oil Using Locally Produced Candida cylindracea Lipase. 2016 , 7, 87-95	6
213	Continuous biodiesel conversion via enzymatic transesterification catalyzed by immobilized Burkholderia lipase in a packed-bed bioreactor. 2016 , 168, 340-350	52
212	Heterogeneous basic catalysts for biodiesel production. <i>Catalysis Science and Technology</i> , 2016 , 6, 2877- 3 891	96
211	Synthesis of jatropha oil based wax esters using an immobilized lipase from Burkholderia sp. EQ3 and Lipozyme RM IM. <i>Process Biochemistry</i> , 2016 , 51, 392-398	20
210	Strategic role of nanotechnology for production of bioethanol and biodiesel. 2016 , 5,	55
209	Trends in catalytic production of biodiesel from various feedstocks. 2016 , 57, 496-504	203
208	Green deep eutectic solvent assisted enzymatic preparation of biodiesel from yellow horn seed oil with microwave irradiation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 123, 35-40	35
207	Plasma Functionalized Multiwalled Carbon Nanotubes for Immobilization of Candida antarctica Lipase B: Production of Biodiesel from Methanolysis of Rapeseed Oil. 2016 , 178, 974-89	13
206	Immobilization of Alcaligenes sp. lipase as catalyst for the transesterification of vegetable oils to produce biodiesel. 2016 , 259, 177-182	22
205	Progress in waste oil to sustainable energy, with emphasis on pyrolysis techniques. 2016 , 53, 741-753	199
204	Chemical amination of lipases improves their immobilization on octyl-glyoxyl agarose beads. 2016 , 259, 107-118	54
203	Edible lipids modification processes: A review. 2017 , 57, 48-58	32

202	Purification and bio-chemical characterization of a solvent-tolerant and highly thermostable lipase of Bacillus licheniformis strain SCD11501. 2017 , 87, 411-419		8
201	Novel process for immobilizing an enzyme on a bacterial cellulose membrane through repeated absorption. 2017 , 92, 109-114		31
200	Construction of a novel lipolytic fusion biocatalyst GDEst-lip for industrial application. 2017 , 44, 799-815		11
199	Optimization of an effective method for the conversion of crude algal lipids into biodiesel. 2017 , 197, 467-473		36
198	Optimization of lipase production from organic solid waste by anaerobic digestion and its application in biodiesel production. 2017 , 165, 1-8		46
197	Sonochemical Effect on Activity and Conformation of Commercial Lipases. 2017 , 181, 1435-1453		21
196	Transesterification of Sanitation Waste for Biodiesel Production. 2017, 8, 463-471		10
195	Immobilized Enzyme Technology for Biodiesel Production. 2017 , 67-106		6
194	Evaluation of different lipase biocatalysts in the production of biodiesel from used cooking oil: Critical role of the immobilization support. 2017 , 200, 1-10		101
193	Current Approaches in Producing Oil and Biodiesel from Microalgal Biomass. 2017 , 289-310		
192	Physical crosslinking of lipase from Rhizomucor miehei immobilized on octyl agarose via coating with ionic polymers. <i>Process Biochemistry</i> , 2017 , 54, 81-88	.8	49
191	Valorisation of Spent Coffee Grounds: Production of Biodiesel via Enzymatic Catalysis with Ethanol and a Co-solvent. 2017 , 8, 1981-1994		33
190	State of the art of biodiesel production under supercritical conditions. 2017 , 63, 173-203		90
189	Current Prospects on Production of Microbial Lipid and Other Value-Added Products Using Crude Glycerol Obtained from Biodiesel Industries. 2017 , 10, 1117-1137		13
188	Burkholderia cepacia lipase immobilized on heterofunctional magnetic nanoparticles and its application in biodiesel synthesis. 2017 , 7, 16473		33
187	Simultaneous conversion of free fatty acids and triglycerides to biodiesel by immobilized Aspergillus oryzae expressing Fusarium heterosporum lipase. 2017 , 12, 1600400		13
186	A novel fluorometric turn-on assay for lipase activity based on an aggregation-induced emission (AIE) luminogen. 2017 , 238, 765-771		31
185	Agro-Industrial Residues and Microbial Enzymes. 2017 , 475-511		18

184	An overview of the enzyme potential in bioenergy-producing biorefineries. 2017 , 92, 906-924		37
183	Electro-Catalytic Biodiesel Production from Canola Oil in Methanolic and Ethanolic Solutions with Low-Cost Stainless Steel and Hybrid Ion-Exchange Resin Grafted Electrodes. 2017 , 4,		8
182	Modulation of the regioselectivity of Thermomyces lanuginosus lipase via biocatalyst engineering for the Ethanolysis of oil in fully anhydrous medium. 2017 , 17, 88		28
181	Biocatalysts based on nanozeolite-enzyme complexes: Effects of alkoxysilane surface functionalization and biofuel production using microalgae lipids feedstock. 2018 , 165, 150-157		26
180	Microwave assisted solvent-free synthesis of n-butyl propionate by immobilized lipase as catalyst. 2018 , 14, 264-269		13
179	Biodiesel synthesis over biochar-based catalyst from biomass waste pomelo peel. 2018 , 160, 477-485		89
178	Supported ionic liquid phase (SILP) facilitated gas-phase enzyme catalysis ICALB catalyzed transesterification of vinyl propionate. <i>Catalysis Science and Technology</i> , 2018 , 8, 2460-2466	5.5	17
177	Lipase catalysed biodiesel synthesis with integrated glycerol separation in continuously operated microchips connected in series. 2018 , 47, 80-88		19
176	Lipase immobilised on silica monoliths as continuous-flow microreactors for triglyceride transesterification. 2018 , 3, 68-74		10
175	Biochemical characterization of a novel cold-active, halophilic and organic solvent-tolerant lipase from B. licheniformis KM12 with potential application for biodiesel production. <i>International Journal of Biological Macromolecules</i> , 2018 , 109, 389-398	7.9	41
174	Enzymatic synthesis of ethyl esters from waste oil using mixtures of lipases in a plug-flow packed-bed continuous reactor. 2018 , 34, 952-959		28
173	Economics of biodiesel production: Review. 2018 , 168, 74-84		249
172	Synthesis of Fatty Acid Methyl Esters Using Mixed Enzyme in a Packed Bed Reactor. 2018 , 67, 321-326		1
171	Kinetic resolution of drug intermediates catalyzed by lipase B from Candida antarctica immobilized on immobead-350. 2018 , 34, 878-889		76
170	Biodiesel Production from Oily Residues Containing High Free Fatty Acids. 2018 , 9, 293-299		7
169	Efficient biodiesel production using a lipase@ZIF-67 nanobioreactor. 2018 , 334, 1233-1241		103
168	Recent advances on sources and industrial applications of lipases. 2018 , 34, 5-28		164
167	Effect of acyl-acceptor stepwise addition strategy using alperujo oil as a substrate in enzymatic biodiesel synthesis. 2018 , 93, 541-547		13

166	Bacterial lipases: A review on purification and characterization. 2018, 132, 23-34	142
165	Lipase in biodiesel production. 2018 , 12, 73-85	4
164	Filling the Void: Introducing Aromatic Interactions into Solvent Tunnels To Enhance Lipase Stability in Methanol. 2018 , 84,	10
163	Trend in enzyme immobilization on nano materials for transesterification to produce biodiesel: A review. 2018 , 23, 1-17	1
162	Interaction of Yarrowia lipolytica lipase with dithiocarbamate modified magnetic carbon FeO@C-NHCSH core-shell nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2018 , 7.9 117, 218-224	30
161	Biodiesel Production via Trans-Esterification Using Immobilized on Cellulosic Polyurethane. 2018 , 3, 6804-687	1117
160	Chemical and Biological Investigation of Organic Wastes of Frying Oils and Beef Fats: Valorization for Biodiesel Production. 2018 , 2018, 1-9	4
159	Food Waste Valorization. 2018 , 371-399	15
158	Facile immobilization of Pseudomonas fluorescens lipase on polyaniline nanofibers (PANFs-PFL): A route to develop robust nanobiocatalyst. <i>International Journal of Biological Macromolecules</i> , 2018 , 7.9 119, 8-14	7
157	Production of Biofuels from Biomass by Fungi. 2018 , 21-45	О
156	Molecular, biochemical and kinetic analysis of a novel, thermostable lipase (LipSm) from Psi-1, the first member of a new bacterial lipase family (XVIII). 2018 , 25, 4	8
155	Easy reuse of magnetic cross-linked enzyme aggregates of lipase B from Candida antarctica to obtain biodiesel from Chlorella vulgaris lipids. 2018 , 126, 451-457	21
154	Enzymatic Biodiesel Synthesis by the Biphasic Esterification of Oleic Acid and 1-Butanol in Microreactors. 2019 , 58, 15432-15444	11
153	A thraustochytrid-specific lipase/phospholipase with unique positional specificity contributes to microbial competition and fatty acid acquisition from the environment. 2019 , 9, 16357	9
152	Simulation and optimization of a continuous biodiesel plant using nonlinear programming. 2019 , 189, 116305	1
151	Techno-Economic Performance of Different Technological Based Bio-Refineries for Biofuel Production. 2019 , 12, 3916	7
150	Industrial Enzymes. 2019 , 1-13	1
149	PRODUCTION OF FATTY ACID METHYL ESTERS FROM AN OLIVE OIL INDUSTRY WASTE. <i>Brazilian</i> Journal of Chemical Engineering, 2019 , 36, 285-297	9

148	An overview of biodiesel production using recyclable biomass and non-biomass derived magnetic catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103219	6.8	55
147	Nanobiocatalytic processes for producing biodiesel from algae. 2019 , 299-326		5
146	Effect of light irradiation on esterification of oleic acid with ethanol catalyzed by immobilized Pseudomonas cepacia lipase. 2019 , 97, 2876-2882		1
145	Genome Sequencing Revealed the Biotechnological Potential of an Obligate Thermophile Strain RL Isolated from Hot Water Spring. 2019 , 59, 351-355		7
144	Lecitase ultra: A phospholipase with great potential in biocatalysis. 2019 , 473, 110405		24
143	Thermochemical, Biological, Biochemical, and Hybrid Conversion Methods of Bio-derived Molecules into Renewable Fuels. 2019 , 59-81		10
142	Biodiesel Production (FAEEs) by Heterogeneous Combi-Lipase Biocatalysts Using Wet Extracted Lipids from Microalgae. <i>Catalysts</i> , 2019 , 9, 296	4	26
141	The Challenges to Produce an Oxidation Stable and an Acceptable Cloud Point Biodiesel From Lipid Sources. 2019 , 255-280		1
140	Multi-objective optimization of a novel crude lipase-catalyzed fatty acid methyl ester (FAME) production using low-order polynomial and Kriging models. 2019 , 16, 657-665		3
139	Tuning Pore Heterogeneity in Covalent Organic Frameworks for Enhanced Enzyme Accessibility and Resistance against Denaturants. 2019 , 31, e1900008		57
138	Novozym 435: the perfect@ipase immobilized biocatalyst?. <i>Catalysis Science and Technology</i> , 2019 , 9, 2380-2420	5.5	241
137	Ultrasound Bssisted enzymatic biodiesel production using blended feedstock of non Edible oils: Kinetic analysis. 2019 , 188, 142-150		35
136	Two phase enzymatic membrane reactor for the production of biodiesel from crude Eruca sativa oil. <i>Renewable Energy</i> , 2019 , 140, 104-110	8.1	14
135	Catalysts used in biodiesel production: a review. 2019 , 1-14		17
134	Feasibility of Continuous Fatty Acid Methyl Esters (FAME) Production from Hydrolyzed Sea Mango (Cerbera odollam) Oil at Room Temperature Using Cationic Ion Exchange Resin. 2019 , 495, 012050		1
133	Production of Microalgal Biomass with High Lipid Content and Their Catalytic Processing Into Biodiesel: a Review. 2019 , 11, 349-359		10
132	Lipolytic bacterial strains mediated transesterification of non-edible plant oils for generation of high quality biodiesel. 2019 , 127, 609-617		14
131	Catalysis in biodiesel production review. 2019 , 3, 2-23		182

130	Biodiesel synthesis from eucalyptus oil by utilizing waste egg shell derived calcium based metal oxide catalyst. <i>Chemical Engineering Research and Design</i> , 2019 , 122, 313-319	5.5	38
129	A Straightforward Metal-Free and Mild Base Promoted Amidation and Transesterification via Acyl C-O bond Cleavage-An Expedite Synthesis of Aromatic Amides and Esters. 2019 , 4, 175-180		6
128	Progress and future of biodiesel synthesis: Advancements in oil extraction and conversion technologies. 2019 , 182, 307-339		109
127	Biodiesel synthesis from wastewater grown microalgal feedstock using enzymatic conversion: A greener approach. 2019 , 237, 1112-1118		29
126	Ultrasound assisted oleaginous yeast lipid extraction and garbage lipase catalyzed transesterification for enhanced biodiesel production. 2019 , 179, 141-151		40
125	Physicochemical Characterization of Robusta Spent Coffee Ground Oil for Biodiesel Manufacturing. 2019 , 10, 2703-2712		20
124	Improving the reusability of an immobilized lipase-ionic liquid system for biodiesel production. 2019 , 10, 635-641		7
123	Enzymatic production of biodiesel from waste oil in ionic liquid medium. 2019 , 10, 463-472		27
122	Effect of silica coating on Fe3O4 magnetic nanoparticles for lipase immobilization and their application for biodiesel production. 2019 , 12, 4694-4706		51
121	A comprehensive review of biodiesel production methods from various feedstocks. 2019 , 10, 325-333		27
120	Enzymatic biodiesel production from crude Eruca sativa oil using Candida rugosa lipase in a solvent-free system using response surface methodology. 2020 , 11, 93-99		25
119	Lipase of Pseudomonas guariconesis as an additive in laundry detergents and transesterification biocatalysts. 2020 , 60, 112-125		4
118	Highest accumulated microalgal lipids (polar and non-polar) for biodiesel production with advanced wastewater treatment: Role of lipidomics. 2020 , 298, 122299		31
117	Green synthesis of methyl-12-hydroxyoctadec-9-enoate. 2020 , 15, 100203		1
116	Development of a new Geobacillus lipase variant GDlip43 via directed evolution leading to identification of new activity-regulating amino acids. <i>International Journal of Biological Macromolecules</i> , 2020 , 151, 1194-1204	7.9	4
115	Technically relevant enzymes and proteins produced by LAB suitable for industrial and biological activity. 2020 , 104, 1401-1422		10
114	The production of biodiesel from safflower (Carthamus tinctorius L.) oil as a potential feedstock and its usage in compression ignition engine: A comprehensive review. 2020 , 119, 109574		68
113	Magnetic Cross-Linked Enzyme Aggregates of Aspergillus oryzae ST11 Lipase Using Polyacrylonitrile Coated Magnetic Nanoparticles for Biodiesel Production. 2020 , 190, 1319-1332		21

(2020-2020)

112	Biodiesel potential of used vegetable oils transesterified with biological catalysts. <i>Energy Reports</i> , 2020 , 6, 2861-2871	4.6	12
111	Conversion of sugar beet residues into lipids by Lipomyces starkeyi for biodiesel production. 2020 , 19, 204		9
110	Simulation of the pyrolysis process using blend of date seeds and coffee waste as biomass. 2020,		0
109	Biodiesel from microalgae. 2020 , 329-371		
108	Superparamagnetic iron oxide nanoparticles (SPIONs) conjugated with lipase A for biodiesel synthesis <i>RSC Advances</i> , 2020 , 10, 38490-38496	3.7	6
107	Lipase Acrylic Resin Catalyzed Interesterification of Sewage Sludge in Micro Packed Bed Reactor: Box-Behnken Design. 2020 , 870, 81-96		
106	A Novel Fungal Lipase With Methanol Tolerance and Preference for Macaw Palm Oil. 2020, 8, 304		7
105	Thermo-responsive switchable solvents for simultaneous microalgae cell disruption, oil extraction-reaction, and product separation for biodiesel production. 2020 , 26, 101667		9
104	One Pot Use of Combilipases for Full Modification of Oils and Fats: Multifunctional and Heterogeneous Substrates. <i>Catalysts</i> , 2020 , 10, 605	4	35
103	Enzyme mediated multi-product process: A concept of bio-based refinery. 2020 , 154, 112607		44
102	Biodiesel Production by Lipase-Catalyzed in Situ Transesterification of Rapeseed Oil Containing a High Free Fatty Acid Content with Ethanol in Diesel Fuel Media. 2020 , 13, 2588		12
101	A Review on Bio-Based Catalysts (Immobilized Enzymes) Used for Biodiesel Production. 2020 , 13, 3013		34
100	Esterification of high FFA content waste cooking oil through different techniques including the utilization of cement kiln dust as a heterogeneous catalyst: A comparative study. 2020 , 279, 118519		16
99	Enzymatic potential for the valorization of agro-industrial by-products. 2020 , 42, 1799-1827		13
98	Immobilized Biocatalysts of Eversa ^[] Transform 2.0 and Lipase from Thermomyces Lanuginosus: Comparison of Some Properties and Performance in Biodiesel Production. <i>Catalysts</i> , 2020 , 10, 738	4	16
97	Improved immobilization of lipase from Thermomyces lanuginosus on a new chitosan-based heterofunctional support: Mixed ion exchange plus hydrophobic interactions. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 550-561	7.9	27
96	Reusability of the Deep Eutectic Solvent - Novozym 435 Enzymes System in Transesterification from Degumming Palm Oil. 2020 , 35, 9-17		1
95	Concentration of Lipase from Aspergillus oryzae Expressing Fusarium heterosporum by Nanofiltration to Enhance Transesterification. <i>Processes</i> , 2020 , 8, 450	2.9	2

94	Optimization of the Production of Enzymatic Biodiesel from Residual Babassu Oil (Orbignya sp.) via RSM. <i>Catalysts</i> , 2020 , 10, 414	4	33
93	Opportunities for improving biodiesel production via lipase catalysis. 2021 , 288, 119577		72
92	Experimental studies to improve the performance, emission and combustion characteristics of wheat germ oil fuelled CI engine using bioethanol injection in PCCI mode. 2021 , 285, 119196		11
91	Effect of nanocatalysts on the transesterification reaction of first, second and third generation biodiesel sources- A mini-review. 2021 , 270, 128642		41
90	Heterogeneous biocatalytical esterification by recombinant Thermomyces lanuginosus lipase immobilized on macroporous carbon aerogel. 2021 , 379, 36-41		4
89	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. <i>Renewable Energy</i> , 2021 , 164, 1566-1587	8.1	42
88	Thermo-alkali-stable lipase from a novel: statistical optimization, enzyme purification, immobilization and its application in biodiesel production. 2021 , 51, 225-240		4
87	Advanced and sustainable biodiesel fuels: technologies and applications. 2021 , 131-161		
86	Streptomyces-based cell factories for production of biomolecules and bioactive metabolites. 2021 , 183-	-234	0
85	Recent Updates of Biodiesel Production: Source, Production Methods, and Metagenomic Approach. <i>Clean Energy Production Technologies</i> , 2021 , 105-127	0.8	2
84	Recent Updates on Biodiesel Production Techniques: A Review. 2021 , 14, 80-102		O
83	Improvement of biodiesel production from palm oil by co-immobilization of Thermomyces lanuginosa lipase and Candida antarctica lipase B: Optimization using response surface methodology. <i>International Journal of Biological Macromolecules</i> , 2021 , 170, 490-502	7.9	20
82	Immobilization of Candida antarctica Lipase B on Silicone Nanofilaments. 2021 , 2021, 1-8		1
81	Progress in Enzymatic Biodiesel Production and Commercialization. <i>Processes</i> , 2021 , 9, 355	2.9	20
80	An overview on the conversion of glycerol to value-added industrial products via chemical and biochemical routes. <i>Biotechnology and Applied Biochemistry</i> , 2021 ,	2.8	27
79	Immobilized GDEst-95, GDEst-lip and GD-95RM lipolytic enzymes for continuous flow hydrolysis and transesterification reactions. <i>International Journal of Biological Macromolecules</i> , 2021 , 173, 421-434	7.9	O
78	Use of the Langmuir-Hinshelwood-Hougen-Watson equation to describe the ethyl esterification of fatty acids catalyzed by a fermented solid with lipase activity. <i>Biochemical Engineering Journal</i> , 2021 , 168, 107936	4.2	
77	Sustainable enzymatic technologies in waste animal fat and protein management. <i>Journal of Environmental Management</i> , 2021 , 284, 112040	7.9	6

(2021-2021)

76	Biodiesel production with enzymatic technology: progress and perspectives. <i>Biofuels, Bioproducts and Biorefining</i> , 2021 , 15, 1526-1548	5.3	5
75	A Review on the Use of Bio/Nanostructured Heterogeneous Catalysts in Biodiesel Production. 2021 , 59-91		2
74	Magnetic Graphene Oxide as a Carrier for Lipases Immobilization: An Approach for Hydrolysis of Olive Oil Emulsion. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 065008	2	O
73	Various Perspectives on Microbial Lipase Production Using Agri-Food Waste and Renewable Products. <i>Agriculture (Switzerland)</i> , 2021 , 11, 540	3	7
72	Application of Rare Earth Cation-Exchanged Nanozeolite as a Support for the Immobilization of Fungal Lipase and their Use in Biodiesel Production. 2021 , 279-293		
71	Nano(Bio)Catalysts: An Effective Tool to Utilize Waste Cooking Oil for the Biodiesel Production. 2021 , 31-58		
70	Biocatalytic Processes for Biodiesel Production. 2021 , 1-58		1
69	Comprehensive Review on Biodiesel Production from Palm Oil Mill Effluent. <i>ChemBioEng Reviews</i> , 2021 , 8, 439	5.2	2
68	Glycerol Ketals as Building Blocks for a New Class of Biobased (Meth)acrylate Polymers. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10620-10629	8.3	1
67	Lipase-Catalyzed Biodiesel Production from Grease Trap. <i>Arabian Journal for Science and Engineering</i> , 1	2.5	1
66	Biodiesel production using Candida rugosa as biocatalytic lipase immobilized on p-nitrobenzyl cellulose xanthate (NBXCel). <i>Biofuels, Bioproducts and Biorefining</i> , 2021 , 15, 1789	5.3	
65	A review on the utilization of calcium oxide as a base catalyst in biodiesel production. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105741	6.8	11
64	Recent Advances in Feedstock and Lipase Research and Development towards Commercialization of Enzymatic Biodiesel. <i>Processes</i> , 2021 , 9, 1743	2.9	3
63	Sustainability and challenges in biodiesel production from waste cooking oil: An advanced bibliometric analysis. <i>Energy Reports</i> , 2021 , 7, 4022-4034	4.6	8
62	Trends in lipase immobilization: Bibliometric review and patent analysis. <i>Process Biochemistry</i> , 2021 , 110, 37-51	4.8	14
61	Direct and simultaneous analysis of lipase-catalyzed hydrolysis of high-oleic oil model by chiral stationary phase HPLC-ELSD. <i>Food Chemistry</i> , 2022 , 367, 130750	8.5	2
60	Lipid Extraction From Fish Processing Residues for Sustainable Biofuel Production. 2022 , 293-319		О
59	Microwave-assisted enzymatic reactions. 2021 , 245-281		

58	Integral Stereoselectivity of Lipase Based on the Chromatographic Resolution of Enantiomeric/Regioisomeric Diacylglycerols. <i>Journal of Agricultural and Food Chemistry</i> , 2021 , 69, 325-	33 ⁵ t ⁷	7
57	Biodiesel and the Potential Role of Microbial Lipases in Its Production. <i>Microorganisms for Sustainability</i> , 2019 , 83-99	1.1	4
56	Application of Hydrolytic Enzymes in Biorefinery and Its Future Prospects. <i>Clean Energy Production Technologies</i> , 2020 , 59-83	0.8	18
55	Biodiesel Production From Waste Palm Oil Using Palm Empty Fruit Bunch-Derived Novel Carbon Acid Catalyst. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140,	2.6	12
54	Lipase-Producing Bacterium and its Enzyme Characterization. <i>Journal of Life Sciences and Technologies</i> , 196-200		5
53	sp. PS35 Lipase-Immobilization on Styrene-Divinyl Benzene Resin and Application in Fatty Acid Methyl Ester Synthesis. <i>Iranian Journal of Biotechnology</i> , 2015 , 13, 39-46	1	1
52	SYNTHESIS, CHARACTERIZATION AND EVALUATION OF THE HETEROGENEOUS BASIC CATALYST DAPTS-MCM-41 IN THE INTERESTERIFICATION REACTION OF PALM OIL AND PALM KERNEL OIL BLENDS. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 1185-1194	1.7	2
51	Lipases: Sources, Production, Purification, and Applications. <i>Recent Patents on Biotechnology</i> , 2019 , 13, 45-56	2.2	38
50	Kinetics of Liquid Lipase NS81006-Catalyzed Alcoholysis of Oil for Biodiesel Production. <i>Chinese Journal of Catalysis</i> , 2013 , 33, 1857-1861	11.3	2
49	A Short Review on Various Screening Methods to Isolate Potential Lipase Producers: Lipases-the Present and Future Enzymes of Biotech Industry. <i>International Journal of Biological Chemistry</i> , 2015 , 9, 207-219	3	16
48	Biodiesel production technologies: review. <i>AIMS Energy</i> , 2017 , 5, 425-457	1.8	60
47	Lipase-catalyzed transesterification of epoxidized soybean oil to prepare epoxy methyl esters. <i>Grasas Y Aceites</i> , 2018 , 69, 247	1.3	5
46	Isolation and Characterization of a Novel Triolein Selective Lipase from Soil Environmental Genes. <i>Microbiology and Biotechnology Letters</i> , 2020 , 48, 480-490	1.6	2
45	Lipase-Catalyzed Epoxy-Acid Addition and Transesterification: from Model Molecule Studies to Network Build-Up. <i>Biomacromolecules</i> , 2021 , 22, 4544-4551	6.9	3
44	Erratum to II rends in lipase immobilization: Bibliometric review and patent analysis [Process Biochem. 110 (2021) 37 [31]. <i>Process Biochemistry</i> , 2021 ,	4.8	О
43	Energy Consumption of Biodiesel Production Process by Supercritical and Immobilized Lipase Method. <i>Korean Chemical Engineering Research</i> , 2012 , 50, 257-263		2
42	Biodiesel production using lipase producing bacteria isolated from button mushroom bed. <i>Journal of Mushrooms</i> , 2015 , 13, 56-62		
41	The Effect of Different Matrix Bound on the Transesterification Activity of Immobilized PPD2 Lipase. <i>Journal of Pure and Applied Microbiology</i> , 2018 , 12, 513-519	0.9	

40	Isolation and Characterization of a Novel Alkaline Lipase/Esterase Lip-1420 from a Metagenomic Library.		
39	Esterification reaction of free fatty acid in used cooking oil using sulfonated hypercrosslinked exchange resin as catalyst. <i>Chemical Engineering Research and Design</i> , 2021 ,	5.5	O
38	New Fluorescent Nickel(II) Complexes as a Catalyst for Biodiesel Formation: Synthesis, Structure, Spectral Properties, and DFT Calculations. <i>Russian Journal of Organic Chemistry</i> , 2020 , 56, 2194-2200	0.7	
37	Microbial biodiesel: a comprehensive study toward sustainable biofuel production. 2022 , 353-375		
36	Catalyst in Biorefineries Solution to Promote Environment Sustainability in India. Advances in Chemical and Materials Engineering Book Series, 2020, 139-171	0.2	
35	Supplementation of bile acids and lipase in broiler diets for better nutrient utilization and performance: Potential effects and future implications. <i>Annals of Animal Science</i> , 2020 ,	2	O
34	Hierarchical Gold Mesoflowers in Enzyme Engineering: An Environmentally Friendly Strategy for the Enhanced Enzymatic Performance and Biodiesel Production <i>ACS Applied Bio Materials</i> , 2020 , 3, 84	1 4 - 8 42	6 ¹
33	Fe2O3/Chitosan coated superparamagnetic nanoparticles supporting lipase enzyme from Candida Antarctica for microwave assisted biodiesel production. <i>Renewable Energy</i> , 2021 , 185, 1362-1362	8.1	4
32	Crude Glycerol as a Potential Feedstock for Future Energy via Thermochemical Conversion Processes: A Review. <i>Sustainability</i> , 2021 , 13, 12813	3.6	3
31	The combination of covalent and ionic exchange immobilizations enables the coimmobilization on vinyl sulfone activated supports and the reuse of the most stable immobilized enzyme International Journal of Biological Macromolecules, 2021, 199, 51-51	7.9	6
30	Biodiesel production from microalgae using lipase-based catalysts: Current challenges and prospects. <i>Algal Research</i> , 2022 , 62, 102616	5	16
29	Bacillus Species of Ruminant Origin as a Major Potential Sources of Diverse Lipolytic Enzymes for Industrial and Therapeutic Applications. <i>Bacilli in Climate Resilient Agriculture and Bioprospecting</i> , 2022 , 255-283	1.2	2
28	Kinetic modeling of lipase-catalysed hydrolysis of triacylglycerol in a reverse micelle system for the determination of integral stereoselectivity. <i>Catalysis Science and Technology</i> ,	5.5	1
27	Efficient management of oil waste: chemical and physicochemical approaches. 2022 , 439-467		O
26	Ultrasonication Assisted Catalytic Transesterification of Ceiba Pentandra (Kapok) Oil Derived Biodiesel Using Immobilized Iron Nanoparticles. <i>Fuels</i> , 2022 , 3, 113-131	2.3	2
25	Recent developments of lipase immobilization technology and application of immobilized lipase mixtures for biodiesel production. <i>Biofuels, Bioproducts and Biorefining</i> ,	5.3	3
24	A review on latest trends in cleaner biodiesel production: Role of feedstock, production methods, and catalysts. <i>Journal of Cleaner Production</i> , 2022 , 131588	10.3	5
23	Data_Sheet_1.docx. 2020,		

22	Preparation of a reusable and pore size controllable porous polymer monolith and its catalysis of biodiesel synthesis <i>RSC Advances</i> , 2022 , 12, 12363-12370	3.7	O
21	Biomass wastes: A potential catalyst source for biodiesel production. <i>Bioresource Technology Reports</i> , 2022 , 101081	4.1	1
20	Production of renewable biodiesel using metal organic frameworks based materials as efficient heterogeneous catalysts. <i>Journal of Cleaner Production</i> , 2022 , 358, 131955	10.3	2
19	One-Step Biodiesel Production from Waste Cooking Oil Using CaO Promoted Activated Carbon Catalyst from Prunus persica Seeds. <i>Catalysts</i> , 2022 , 12, 592	4	2
18	A COMPREHENSIVE REVIEW ON ENZYMATIC REACTION CONDITIONS. <i>I-manager S Journal on Material Science</i> , 2021 , 9, 23	0.8	
17	Nanocatalysts for Environmental Benign Biofuel Production. 2022 , 1-20		
16	Lipase immobilization via cross-linked enzyme aggregates: Problems and prospects A review. <i>International Journal of Biological Macromolecules</i> , 2022 , 215, 434-449	7.9	3
15	Improvement of enzymatic activity and stability of lipase A from Candida antartica onto halloysite nanotubes with Taguchi method for optimized immobilization. <i>Applied Clay Science</i> , 2022 , 228, 106634	5.2	4
14	Renewable Biofuel Resources: Introduction, Production Technologies, Challenges, and Applications. 2022 , 27-52		
13	Biocatalytic processes in ionic liquids and supercritical carbon dioxide biphasic systems. 2022 , 403-433		O
12	Fats, Oils, and Grease (FOG): Opportunities, Challenges, and Economic Approaches. 2022, 285-308		O
11	A Review on Biodiesel Production from Various Feedstocks by Transesterification. 2022 , 1258, 012024		O
10	Lipase Catalyzed Transesterification of Model Long-Chain Molecules in Double-Shell Cellulose-Coated Oil-in-Water Emulsion Particles as Microbioreactors. 2022 , 23, 12122		O
9	A Review of Biomass-Derived Heterogeneous Catalysts for Biodiesel Production. 2022 , 12, 1501		2
8	An Overview of Algae for Biodiesel Production Using Bibliometric Indicators. 2023 , 2023, 1-28		O
7	Renewable, sustainable, and natural lignocellulosic carriers for lipase immobilization: A review. 2023 , 365, 29-47		O
6	Applications of Artificial Intelligence in Sustainable Energy Development and Utilization. 2023 , 129-143		O
5	Enzymes production from fruit and vegetable waste and their industrial applications. 2023, 17-36		O

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Viability of non-edible oilseed plants and agricultural wastes as feedstock for biofuels production: a techno-economic review from an African perspective.

Biodiesel Production Catalyzed by Lipase Extract Powder of Leonotis nepetifolia (Christmas Candlestick) Seed. 2023, 16, 2848

Sustainable biodiesel: A comprehensive review on feedstock, production methods, applications, challenges and opportunities. 2023,