

Interfacial adsorption of lipases on very hydrophobic surfaces: immobilization, hyperactivation and stabilization of the enzyme

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Enzymatic resolution of (R)-trans-4-(4-fluorophenyl)-6-oxo-piperidin-3-ethyl carboxylate, an intermediate in the synthesis of (S)-Paroxetine. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 2375-2381.	1.8	41
2	Modulation of the enantioselectivity of lipases via controlled immobilization and medium engineering: hydrolytic resolution of mandelic acid esters. <i>Enzyme and Microbial Technology</i> , 2002, 31, 775-783.	1.6	160
3	Modulation of <i>Mucor miehei</i> lipase properties via directed immobilization on different hetero-functional epoxy resins. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 21, 201-210.	1.8	88
4	Self-assembly of <i>Pseudomonas fluorescens</i> lipase into bimolecular aggregates dramatically affects functional properties. <i>Biotechnology and Bioengineering</i> , 2003, 82, 232-237.	1.7	119
5	Evaluation of the lipase from <i>Bacillus thermocatenulatus</i> as an enantioselective biocatalyst. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 3679-3687.	1.8	38
6	Regio-selective deprotection of peracetylated sugars via lipase hydrolysis. <i>Tetrahedron</i> , 2003, 59, 5705-5711.	1.0	61
7	Resolution of (R)-5-substituted-6-(5-chloropyridin-2-yl)-7-oxo-5,6-dihydropyrrolo[3,4b]pyrazine derivatives-precursors of (S)-(+)-Zopiclone, catalyzed by immobilized <i>Candida antarctica</i> B lipase in aqueous media. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 429-438.	1.8	30
8	General Trend of Lipase to Self-Assemble Giving Bimolecular Aggregates Greatly Modifies the Enzyme Functionality. <i>Biomacromolecules</i> , 2003, 4, 1-6.	2.6	212
9	A comparative study on lipase immobilized polypropylene microfiltration membranes modified by sugar-containing polymer and polypeptide. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 28, 95-100.	1.8	47
10	Use of immobilized lipases for lipase purification via specific lipase-lipase interactions. <i>Journal of Chromatography A</i> , 2004, 1038, 267-273.	1.8	121
11	A new, mild cross-linking methodology to prepare cross-linked enzyme aggregates. <i>Biotechnology and Bioengineering</i> , 2004, 86, 273-276.	1.7	274
12	Adsorption immobilization of <i>Candida rugosa</i> lipases on polypropylene hollow fiber microfiltration membranes modified by hydrophobic polypeptides. <i>Enzyme and Microbial Technology</i> , 2004, 35, 437-443.	1.6	63
13	Resolution of paroxetine precursor using different lipases. <i>Enzyme and Microbial Technology</i> , 2004, 34, 264-269.	1.6	14
14	Adsorption and Activity of <i>Candida rugosa</i> Lipase on Polypropylene Hollow Fiber Membrane Modified with Phospholipid Analogous Polymers. <i>Langmuir</i> , 2004, 20, 10168-10173.	1.6	57
15	Improving the Activity of Lipases from Thermophilic Organisms at Mesophilic Temperatures for Biotechnology Applications. <i>Biomacromolecules</i> , 2004, 5, 249-254.	2.6	26
16	Lipase-lipase interactions as a new tool to immobilize and modulate the lipase properties. <i>Enzyme and Microbial Technology</i> , 2005, 36, 447-454.	1.6	110
17	Interfacial activation and bioimprinting of <i>Candida rugosa</i> lipase immobilized on polypropylene: effect on the enzymatic activity in solvent-free ethyl oleate synthesis. <i>Enzyme and Microbial Technology</i> , 2005, 36, 338-349.	1.6	48
18	Structured fiber supports for gas phase biocatalysis. <i>Enzyme and Microbial Technology</i> , 2005, 36, 911-916.	1.6	16

#	ARTICLE	IF	CITATIONS
19	Some special features of glyoxyl supports to immobilize proteins. <i>Enzyme and Microbial Technology</i> , 2005, 37, 456-462.	1.6	257
20	Effect of several reaction parameters in the solvent-free ethyl oleate synthesis using <i>Candida rugosa</i> lipase immobilised on polypropylene. <i>Biochemical Engineering Journal</i> , 2005, 25, 69-77.	1.8	38
21	Purification of different lipases from <i>Aspergillus niger</i> by using a highly selective adsorption on hydrophobic supports. <i>Biotechnology and Bioengineering</i> , 2005, 92, 773-779.	1.7	48
22	Frequent analytical/experimental problems in lipase-mediated synthesis in solvent-free systems and how to avoid them. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 381, 1408-1425.	1.9	33
23	Immobilization of Biomolecules in Solâ€Gels: Biological and Analytical Applications. <i>Critical Reviews in Analytical Chemistry</i> , 2006, 36, 73-106.	1.8	185
25	Purification, Immobilization, Hyperactivation, and Stabilization of Lipases by Selective Adsorption on Hydrophobic Supports. <i>Methods in Biotechnology</i> , 2006, , 143-152.	0.2	7
26	Immobilization of Enzymes as the 21st Century Begins. <i>Methods in Biotechnology</i> , 2006, , 1-13.	0.2	31
27	Glyoxyl agarose: A fully inert and hydrophilic support for immobilization and high stabilization of proteins. <i>Enzyme and Microbial Technology</i> , 2006, 39, 274-280.	1.6	347
28	Purification and identification of different lipases contained in PPL commercial extracts: A minor contaminant is the main responsible of most esterase activity. <i>Enzyme and Microbial Technology</i> , 2006, 39, 817-823.	1.6	36
29	Improvement of the functional properties of a thermostable lipase from <i>Alcaligenes sp.</i> via strong adsorption on hydrophobic supports. <i>Enzyme and Microbial Technology</i> , 2006, 38, 975-980.	1.6	75
30	Effect of lipaseâ€lipase interactions in the activity, stability and specificity of a lipase from <i>Alcaligenes sp.</i> . <i>Enzyme and Microbial Technology</i> , 2006, 39, 259-264.	1.6	64
31	A bioconjugate of <i>Pseudomonas cepacia</i> lipase with alginate with enhanced catalytic efficiency. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1080-1086.	1.1	19
32	Mild hydrolysis of nitriles by the immobilized nitrilase from <i>Aspergillus niger</i> K10. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 39, 55-58.	1.8	27
33	An integrated process: Ester synthesis in an enzymatic membrane reactor and water sorption. <i>Journal of Biotechnology</i> , 2007, 130, 47-56.	1.9	42
34	Bioactive Surface Modification of Mica and Poly(dimethylsiloxane) with Hydrophobins for Protein Immobilization. <i>Langmuir</i> , 2007, 23, 4465-4471.	1.6	85
35	Immobilization of Lipase to Chitosan Beads using a Natural Crossâ€Linker. <i>Preparative Biochemistry and Biotechnology</i> , 2007, 37, 265-275.	1.0	29
36	Study of lipase immobilization on zeolitic support and transesterification reaction in a solvent free-system. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 328-335.	1.1	51
37	Advances in the design of new epoxy supports for enzyme immobilizationâ€stabilization. <i>Biochemical Society Transactions</i> , 2007, 35, 1593-1601.	1.6	188

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38	Improved catalytic properties of immobilized lipases by the presence of very low concentrations of detergents in the reaction medium. <i>Biotechnology and Bioengineering</i> , 2007, 97, 242-250.	1.7	81
39	Regioselective Hydrolysis of Different Peracetylated $\hat{2}$ â€Monosaccharides by Immobilized Lipases from Different Sources. Key Role of The Immobilization. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1969-1976.	2.1	45
40	Advantages of interfacial tensiometry for studying the interactions of biologically active compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 298, 88-93.	2.3	7
41	Partial and enantioselective hydrolysis of diethyl phenylmalonate by immobilized preparations of lipase from <i>Thermomyces lanuginose</i> . <i>Enzyme and Microbial Technology</i> , 2007, 40, 1280-1285.	1.6	30
42	Novel approach for the synthesis of ethyl isovalerate using surfactant coated <i>Candida rugosa</i> lipase immobilized in microemulsion based organogels. <i>Enzyme and Microbial Technology</i> , 2007, 41, 265-270.	1.6	27
43	Studies on lipolytic isoenzymes from a thermophilic <i>Bacillus</i> sp.: Production, purification and biochemical characterization. <i>Enzyme and Microbial Technology</i> , 2007, 40, 881-887.	1.6	35
44	Relation between lipase structures and their catalytic ability to hydrolyse triglycerides and phospholipids. <i>Enzyme and Microbial Technology</i> , 2007, 41, 35-43.	1.6	40
45	Hyperthermophilic enzymesâ€™ stability, activity and implementation strategies for high temperature applications. <i>FEBS Journal</i> , 2007, 274, 4044-4056.	2.2	166
46	Effect of the immobilization protocol in the activity, stability, and enantioselectivity of <i>Lecitase</i> ® Ultra. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2007, 47, 99-104.	1.8	42
47	Hydrolysis of Alkyl Ester on Lipase/Silicalite-1 Catalyst. <i>Catalysis Letters</i> , 2008, 122, 43-52.	1.4	19
48	Effect of additives on the esterification activity of immobilized <i>Candida antarctica</i> lipase. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 833-839.	1.7	10
49	A chemoenzymatic approach to the synthesis of enantiomerically pure (S)-3-hydroxy- $\hat{3}$ -butyrolactone. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 355-362.	1.7	57
50	Immobilization of <i>Candida antarctica</i> Lipase B by Adsorption to Green Coconut Fiber. <i>Applied Biochemistry and Biotechnology</i> , 2008, 146, 173-187.	1.4	56
51	Immobilization of <i>Yarrowia lipolytica</i> Lipaseâ€™a Comparison of Stability of Physical Adsorption and Covalent Attachment Techniques. <i>Applied Biochemistry and Biotechnology</i> , 2008, 146, 49-56.	1.4	41
52	Methods and Supports for Immobilization and Stabilization of Cyclomaltodextrin Glucanotransferase from <i>Thermoanaerobacter</i> . <i>Applied Biochemistry and Biotechnology</i> , 2008, 146, 189-201.	1.4	15
53	Enantioseparation of (<i>R,S</i>)â€™ketoprofen using <i>Candida antarctica</i> lipase B in an enzymatic membrane reactor. <i>Journal of Separation Science</i> , 2008, 31, 2476-2485.	1.3	24
54	Activation of immobilized lipase in nonâ€™aqueous systems by hydrophobic polyâ€™DLâ€™tryptophan tethers. <i>Biotechnology and Bioengineering</i> , 2008, 101, 9-18.	1.7	14
55	Langmuirâ€™Blodgett based lipase nanofilms of unique structureâ€™function relationship. <i>BioSystems</i> , 2008, 94, 228-232.	0.9	7

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56	Purification, Immobilization, and Stabilization of a Lipase from <i>Bacillus thermocatenulatus</i> by Interfacial Adsorption on Hydrophobic Supports. <i>Biotechnology Progress</i> , 2008, 20, 630-635.	1.3	68
57	Multipoint covalent immobilization of microbial lipase on chitosan and agarose activated by different methods. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 51, 100-109.	1.8	150
58	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
59	Preparation of poly(glycidylmethacrylate- <i>methylmethacrylate</i>) magnetic beads: Application in lipase immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 55, 76-83.	1.8	52
60	An efficient resolution of racemic secondary alcohols on magnetically separable biocatalyst. <i>Biochemical and Biophysical Research Communications</i> , 2008, 365, 609-613.	1.0	43
61	Template enhanced activity of lipase accommodated in siliceous mesocellular foams. <i>Biochemical and Biophysical Research Communications</i> , 2008, 372, 650-655.	1.0	14
62	Immobilization of Lipases on Hydrophobilized Zirconia Nanoparticles: Highly Enantioselective and Reusable Biocatalysts. <i>Langmuir</i> , 2008, 24, 8877-8884.	1.6	87
63	COMPARATIVE STUDY ON THE IMMOBILIZATION OF LIPASE ON CHITOSAN GELS MODIFIED BY DIFFERENT HYDROPHOBIC GROUPS. <i>Surface Review and Letters</i> , 2009, 16, 323-327.	0.5	4
64	Synthesis of calix[n]arene-based silica polymers for lipase immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 58, 29-35.	1.8	27
65	Influence of cosolvents on the hydrophobic surface immobilization topography of <i>Candida antarctica</i> lipase B. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 58, 169-174.	1.8	15
66	Immobilization of phytase on epoxy-activated Sepabead EC-EP for the hydrolysis of soymilk phytate. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 61, 150-156.	1.8	22
67	Biocatalysis: Towards ever greener biodiesel production. <i>Biotechnology Advances</i> , 2009, 27, 398-408.	6.0	376
68	Effect of the glutaraldehyde derivatives of Calix[n]arene as cross-linker reagents on lipase immobilization. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009, 64, 273-282.	1.6	10
69	Properties of immobilized lipase from <i>Bacillus stearothermophilus</i> MC7. Acidolysis of triolein with caprylic acid. <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 727-731.	1.7	7
70	Separation and Immobilization of Lipase from <i>Penicillium simplicissimum</i> by Selective Adsorption on Hydrophobic Supports. <i>Applied Biochemistry and Biotechnology</i> , 2009, 156, 133-145.	1.4	26
71	Enhancement of the activity and enantioselectivity of lipase in organic systems by immobilization onto low-cost support. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 57, 96-103.	1.8	30
72	Enhancement of <i>Rhizopus oryzae</i> lipase activity immobilized on alkyl-functionalized spherical mesocellular foam: Influence of alkyl chain length. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 115-120.	2.2	30
73	Increasing stability and productivity of lipase enzyme by encapsulation in a porous organic-inorganic system. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 334-340.	2.2	81

#	ARTICLE	IF	CITATIONS
74	Enhancement of Novozym-435 catalytic properties by physical or chemical modification. <i>Process Biochemistry</i> , 2009, 44, 226-231.	1.8	51
75	Lipase immobilization on modified zirconia nanoparticles: Studies on the effects of modifiers. <i>Process Biochemistry</i> , 2009, 44, 1245-1251.	1.8	38
76	Hydrophobic surface modification of chitosan gels by stearyl for improving the activity of immobilized lipase. <i>Chinese Chemical Letters</i> , 2009, 20, 995-999.	4.8	11
77	Immobilization of Lipases from <i>Candida antarctica</i> . Influence of Surface Polarity on Adsorption and Transesterification Activity. <i>Journal of Dispersion Science and Technology</i> , 2009, 30, 865-872.	1.3	6
78	Improvement of the enantioselectivity and activity of lipase from <i>Pseudomonas</i> sp. via adsorption on a hydrophobic support: kinetic resolution of 2-octanol. <i>Biocatalysis and Biotransformation</i> , 2009, 27, 340-347.	1.1	14
79	Water-in-oil microemulsion-based organogels as novel matrices for enzyme immobilization. <i>Biotechnology Journal</i> , 2010, 5, 805-812.	1.8	18
80	Lipase from <i>Thermomyces lanuginosus</i> : Uses and prospects as an industrial biocatalyst. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 62, 197-212.	1.8	495
81	Lipase from <i>Rhizomucor miehei</i> as an industrial biocatalyst in chemical process. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 64, 1-22.	1.8	241
82	Pore size of macroporous polystyrene microspheres affects lipase immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 66, 182-189.	1.8	139
83	Influence of varying surface hydrophobicity of chitosan membranes on the adsorption and activity of lipase. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1168-1175.	1.3	18
84	FTIR, SEM and fractal dimension characterization of lipase B from <i>Candida antarctica</i> immobilized onto titania at selected conditions. <i>Applied Surface Science</i> , 2010, 256, 1624-1635.	3.1	59
85	Cross-linking enzyme aggregates in the macropores of silica gel: A practical and efficient method for enzyme stabilization. <i>Biochemical Engineering Journal</i> , 2010, 52, 168-174.	1.8	62
86	Single-step purification of different lipases from <i>Staphylococcus warneri</i> . <i>Journal of Chromatography A</i> , 2010, 1217, 473-478.	1.8	24
87	Immobilization and Characterization of a Recombinant Thermostable Lipase (Pf2001) from <i>Pyrococcus furiosus</i> on Supports with Different Degrees of Hydrophobicity. <i>Enzyme Research</i> , 2010, 2010, 1-8.	1.8	18
88	Remediation of Waters Contaminated with MCPA by the Yeast <i>Lipomyces starkeyi</i> Entrapped in a Sol-Gel Zirconia Matrix. <i>Environmental Science & Technology</i> , 2010, 44, 9476-9481.	4.6	18
89	Preparations for the use of <i>Candida rugosa</i> lipase in non-conventional solvents. <i>Biocatalysis and Biotransformation</i> , 2010, 28, 157-166.	1.1	12
90	Integrated One-Pot Enrichment and Immobilization of Styrene Monooxygenase (StyA) Using SEPABEAD EC-EA and EC-Q1A Anion-Exchange Carriers. <i>Molecules</i> , 2011, 16, 5975-5988.	1.7	6
91	Resolution of a racemic 1,2-diol using triphenylmethyl protection of the primary hydroxyl group and <i>Mucor miehei</i> lipase (Lipozyme) for the kinetic resolution. <i>Tetrahedron: Asymmetry</i> , 2011, 22, 1809-1812.	1.8	5

#	ARTICLE	IF	CITATIONS
92	Active-site titration analysis of surface influences on immobilized <i>Candida antarctica</i> lipase B activity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 69, 60-65.	1.8	31
93	Sol-gel immobilization of Alcalase from <i>Bacillus licheniformis</i> for application in the synthesis of C-terminal peptide amides. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 73, 90-97.	1.8	22
94	Controlled immobilization of acetylcholinesterase on improved hydrophobic gold nanoparticle/Prussian blue modified surface for ultra-trace organophosphate pesticide detection. <i>Biosensors and Bioelectronics</i> , 2011, 27, 82-87.	5.3	57
95	Nanosized tin dioxide – Unexplored carrier for lipase immobilization. <i>Catalysis Communications</i> , 2011, 16, 205-209.	1.6	5
96	Multipoint covalent immobilization of lipase on chitosan hybrid hydrogels: influence of the polyelectrolyte complex type and chemical modification on the catalytic properties of the biocatalysts. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011, 38, 1055-1066.	1.4	79
97	Immobilization of <i>Pseudomonas stutzeri</i> Lipase for the Transesterification of Wood Sterols with Fatty Acid Esters. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 1332-1341.	1.4	6
98	Hydrolysis of Fish Oil by Lipases Immobilized Inside Porous Supports. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2011, 88, 819-826.	0.8	30
99	Release of Omega-3 Fatty Acids by the Hydrolysis of Fish Oil Catalyzed by Lipases Immobilized on Hydrophobic Supports. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2011, 88, 1173-1178.	0.8	39
100	Potential of Different Enzyme Immobilization Strategies to Improve Enzyme Performance. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2885-2904.	2.1	1,389
101	Purification, immobilization, and characterization of a specific lipase from <i>Staphylococcus warneri</i> EX17 by enzyme fractionating via adsorption on different hydrophobic supports. <i>Biotechnology Progress</i> , 2011, 27, 717-723.	1.3	12
102	Selection of CalB immobilization method to be used in continuous oil transesterification: Analysis of the economical impact. <i>Enzyme and Microbial Technology</i> , 2011, 48, 61-70.	1.6	140
103	Hydrolysis of triacetin catalyzed by immobilized lipases: Effect of the immobilization protocol and experimental conditions on diacetin yield. <i>Enzyme and Microbial Technology</i> , 2011, 48, 510-517.	1.6	56
104	Influence of the support surface properties on the protein loading and activity of lipase/mesoporous carbon biocatalysts. <i>Carbon</i> , 2011, 49, 406-415.	5.4	42
105	Preparation and modification of chitosan particles for <i>Rhizomucor miehei</i> lipase immobilization. <i>Biochemical Engineering Journal</i> , 2011, 55, 199-207.	1.8	32
106	Simple and efficient immobilization of lipase B from <i>Candida antarctica</i> on porous styrene-divinylbenzene beads. <i>Enzyme and Microbial Technology</i> , 2011, 49, 72-78.	1.6	113
107	Lipase B from <i>Candida antarctica</i> immobilized on octadecyl Sepabeads: A very stable biocatalyst in the presence of hydrogen peroxide. <i>Process Biochemistry</i> , 2011, 46, 873-878.	1.8	52
108	Immobilization of lipase from <i>Candida rugosa</i> on novel phosphorous-containing polyurethanes: Application in wax ester synthesis. <i>Process Biochemistry</i> , 2011, 46, 923-930.	1.8	24
109	Biochemical catalytic production of biodiesel. , 2011, , 134-159.		5

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110	Immobilization of a Commercial Lipase from <i>Penicillium camembertii</i> (Lipase G) by Different Strategies. <i>Enzyme Research</i> , 2011, 2011, 1-8.	1.8	40
111	Ester synthesis using <i>Candida rugosa</i> lipase immobilized on magnetic nanoparticles. <i>Biocatalysis and Biotransformation</i> , 2011, 29, 37-45.	1.1	10
112	Resolution of N-(2-ethyl-6-methylphenyl) alanine by using microgel beads containing <i>Pseudomonas cepacia</i> lipase. <i>Biocatalysis and Biotransformation</i> , 2012, 30, 391-398.	1.1	1
113	Immobilization of Lipases on Alkyl Silane Modified Magnetic Nanoparticles: Effect of Alkyl Chain Length on Enzyme Activity. <i>PLoS ONE</i> , 2012, 7, e43478.	1.1	76
114	Flow-through immobilization of <i>Candida rugosa</i> lipase on hierarchical micro-/macroporous carbon monolith. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 75, 80-85.	1.8	5
115	Improved Catalytic Performance of Lipase Accommodated in the Mesoporous Silicas with Polymer-Modified Microenvironment. <i>Langmuir</i> , 2012, 28, 9788-9796.	1.6	42
116	Optimum Lipase Immobilized on Diamine-Grafted PVDF Membrane and Its Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5141-5147.	1.8	33
117	Different strategies to enhance the activity of lipase catalysts. <i>Catalysis Science and Technology</i> , 2012, 2, 1531.	2.1	50
118	Different Strategies for Hyperactivation of Lipase Biocatalysts. <i>Methods in Molecular Biology</i> , 2012, 861, 329-341.	0.4	10
119	Evaluation of immobilized lipases on poly-hydroxybutyrate beads to catalyze biodiesel synthesis. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 503-511.	3.6	82
120	Enhanced thermostability of enzymes accommodated in thermo-responsive nanopores. <i>Chemical Science</i> , 2012, 3, 3398.	3.7	29
121	Synthesis of a Re-usable Cellobiase Enzyme Catalyst through In situ Encapsulation in Nonsurfactant Templated Sol-Gel Mesoporous Silica. <i>Topics in Catalysis</i> , 2012, 55, 1247-1253.	1.3	6
122	Lipase Immobilization on Differently Functionalized Vinyl-Based Amphiphilic Polymers: Influence of Phase Segregation on the Enzyme Hydrolytic Activity. <i>Biomacromolecules</i> , 2012, 13, 805-813.	2.6	24
123	Immobilization of <i>Candida antarctica</i> lipase B by covalent attachment on chitosan-based hydrogels using different support activation strategies. <i>Biochemical Engineering Journal</i> , 2012, 60, 16-24.	1.8	132
124	Biosynthesis of ethyl butyrate by immobilized recombinant <i>Rhizopus oryzae</i> lipase expressed in <i>Pichia pastoris</i> . <i>Biochemical Engineering Journal</i> , 2012, 65, 1-9.	1.8	47
125	Using silk woven fabric as support for lipase immobilization: The effect of surface hydrophilicity/hydrophobicity on enzymatic activity and stability. <i>Biomass and Bioenergy</i> , 2012, 39, 59-66.	2.9	39
126	Immobilization of biocatalysts for enzymatic polymerizations: Possibilities, advantages, applications. <i>Bioresource Technology</i> , 2012, 115, 126-135.	4.8	167
127	One-step, inexpensive high yield strategy for <i>Candida antarctica</i> lipase A isolation using hydroxyapatite. <i>Bioresource Technology</i> , 2012, 107, 358-362.	4.8	19

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128	Immobilized <i>Candida antarctica</i> lipase B: Hydration, stripping off and application in ring opening polyester synthesis. <i>Biotechnology Advances</i> , 2012, 30, 550-563.	6.0	158
129	Influence of different immobilization techniques for <i>Candida cylindracea</i> lipase on its stability and fish oil hydrolysis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 78, 111-118.	1.8	56
130	Structural behavior of <i>Candida antarctica</i> lipase B in water and supercritical carbon dioxide: A molecular dynamic simulation study. <i>Journal of Supercritical Fluids</i> , 2012, 63, 180-186.	1.6	41
131	Characterization of a thermostable lipase showing loss of secondary structure at ambient temperature. <i>Molecular Biology Reports</i> , 2012, 39, 2795-2804.	1.0	32
132	Heterofunctional Supports in Enzyme Immobilization: From Traditional Immobilization Protocols to Opportunities in Tuning Enzyme Properties. <i>Biomacromolecules</i> , 2013, 14, 2433-2462.	2.6	429
133	A robust whole-cell biocatalyst that introduces a thermo- and solvent-tolerant lipase into <i>Aspergillus oryzae</i> cells: Characterization and application to enzymatic biodiesel production. <i>Enzyme and Microbial Technology</i> , 2013, 52, 331-335.	1.6	27
134	A Comprehensive Study on the Activity and Deactivation of Immobilized Lecitase Ultra in Esterifications of Food Waste Streams to Monoacylglycerols. <i>ChemSusChem</i> , 2013, 6, 872-879.	3.6	19
135	The chemo-enzymatic Baeyer-Villiger oxidation of cyclic ketones with an efficient silica-supported lipase as a biocatalyst. <i>Applied Catalysis A: General</i> , 2013, 467, 163-170.	2.2	45
136	Enhanced catalysis of <i>Yarrowia lipolytica</i> lipase LIP2 immobilized on macroporous resin and its application in enrichment of polyunsaturated fatty acids. <i>Bioresource Technology</i> , 2013, 131, 179-187.	4.8	41
137	New Opportunities for Immobilization of Enzymes. <i>Methods in Molecular Biology</i> , 2013, 1051, 1-13.	0.4	28
138	Stabilization of Enzymes by Multipoint Covalent Immobilization on Supports Activated with Glyoxyl Groups. <i>Methods in Molecular Biology</i> , 2013, 1051, 59-71.	0.4	36
139	Improving Lipase Activity by Immobilization and Post-immobilization Strategies. <i>Methods in Molecular Biology</i> , 2013, 1051, 255-273.	0.4	11
140	Enzyme Entrapped in Polymer-Modified Nanopores: The Effects of Macromolecular Crowding and Surface Hydrophobicity. <i>Chemistry - A European Journal</i> , 2013, 19, 2711-2719.	1.7	29
141	Geranyl acetate synthesis catalyzed by <i>Thermomyces lanuginosus</i> lipase immobilized on electrospun polyacrylonitrile nanofiber membrane. <i>Process Biochemistry</i> , 2013, 48, 124-132.	1.8	45
142	Comparative Study on Lipases Immobilized onto Bentonite and Modified Bentonites and Their Catalytic Properties. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 9030-9037.	1.8	20
143	Improved performance of <i>Yarrowia lipolytica</i> lipase-catalyzed kinetic resolution of (R,S)-2-octanol by an integrated strategy of interfacial activation, bioimprinting and immobilization. <i>Bioresource Technology</i> , 2013, 142, 415-419.	4.8	16
144	Adsorption of lipase from <i>Candida rugosa</i> on multi walled carbon nanotubes. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 279-285.	2.9	56
145	Influence of the Morphology of Core-Shell Supports on the Immobilization of Lipase B from <i>Candida antarctica</i> . <i>Molecules</i> , 2014, 19, 12509-12530.	1.7	38

#	ARTICLE	IF	CITATIONS
146	Glutaraldehyde Cross-Linking of Immobilized Thermophilic Esterase on Hydrophobic Macroporous Resin for Application in Poly(μ -caprolactone) Synthesis. <i>Molecules</i> , 2014, 19, 9838-9849.	1.7	16
147	Effective immobilization of lipase onto a porous gelatin-Poly(vinyl alcohol) copolymer and evaluation of its hydrolytic properties. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	2
148	Lipolytic biocatalyst based on recyclable magnetite-polysiloxane nanoparticles. <i>Applied Surface Science</i> , 2014, 292, 898-905.	3.1	12
149	Kinetics of enzymatic transesterification and thermal deactivation using immobilized Burkholderia lipase as catalyst. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 481-491.	1.7	16
150	Calix[n]arene Carboxylic Acid Derivatives as Regulators of Enzymatic Reactions: Enhanced Enantioselectivity in Lipase-Catalyzed Hydrolysis of (R/S)-Naproxen Methyl Ester. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 509-523.	1.4	12
151	Synthesis of Ascorbyl Palmitate with Immobilized Lipase from <i>Pseudomonas stutzeri</i> . <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2014, 91, 405-410.	0.8	9
152	Immobilization of lipase on epoxy-activated Purolite® A109 and its post-immobilization stabilization. <i>Process Biochemistry</i> , 2014, 49, 637-646.	1.8	51
153	Preparation of core-shell polymer supports to immobilize lipase B from <i>Candida antarctica</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 100, 59-67.	1.8	75
154	Glutaraldehyde in bio-catalysts design: a useful crosslinker and a versatile tool in enzyme immobilization. <i>RSC Advances</i> , 2014, 4, 1583-1600.	1.7	669
155	Entrapment in polymeric material of resting cells of <i>Aspergillus flavus</i> with lipase activity. Application to the synthesis of ethyl laurate. <i>RSC Advances</i> , 2014, 4, 38418-38424.	1.7	3
156	Purification and improvement of the functional properties of <i>Rhizopus oryzae</i> lipase using immobilization techniques. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 110, 111-116.	1.8	10
157	Low ionic liquid concentration in water: a green and simple approach to improve activity and selectivity of lipases. <i>RSC Advances</i> , 2014, 4, 49115-49122.	1.7	10
158	Combined heterogeneous bio- and chemo-catalysis for dynamic kinetic resolution of (<i>S</i>)-benzoin. <i>RSC Advances</i> , 2014, 4, 45495-45503.	1.7	19
159	Tuning of Lecitase features via solid-phase chemical modification: Effect of the immobilization protocol. <i>Process Biochemistry</i> , 2014, 49, 604-616.	1.8	65
160	Kinetics and optimization of lipase-catalyzed synthesis of rose fragrance 2-phenylethyl acetate through transesterification. <i>Process Biochemistry</i> , 2014, 49, 437-444.	1.8	43
161	Efficient purification-immobilization of an organic solvent-tolerant lipase from <i>Staphylococcus warneri</i> EX17 on porous styrene-divinylbenzene beads. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 99, 51-55.	1.8	21
162	Application of agriculture waste as a support for lipase immobilization. <i>Biocatalysis and Agricultural Biotechnology</i> , 2014, 3, 77-82.	1.5	25
163	Amino silicones finished fabrics for lipase immobilization: Fabrics finishing and catalytic performance of immobilized lipase. <i>Process Biochemistry</i> , 2014, 49, 1488-1496.	1.8	17

#	ARTICLE	IF	CITATIONS
164	Lipase Immobilization Techniques for Biodiesel Production: An Overview. <i>International Journal of Renewable Energy and Biofuels</i> , 0, , 1-16.	0.0	13
165	Immobilization and Characterization of a New Regioselective and Enantioselective Lipase Obtained from a Metagenomic Library. <i>PLoS ONE</i> , 2015, 10, e0114945.	1.1	32
166	Improving the Thermostability and Optimal Temperature of a Lipase from the Hyperthermophilic Archaeon <i>Pyrococcus furiosus</i> by Covalent Immobilization. <i>BioMed Research International</i> , 2015, 2015, 1-8.	0.9	18
167	Immobilization of <i>Yarrowia lipolytica</i> Lipase on Macroporous Resin Using Different Methods: Characterization of the Biocatalysts in Hydrolysis Reaction. <i>BioMed Research International</i> , 2015, 2015, 1-7.	0.9	15
168	Immobilization of lipases on glyoxylate-octyl supports: Improved stability and reactivation strategies. <i>Process Biochemistry</i> , 2015, 50, 1211-1217.	1.8	73
169	Asymmetric hydrolysis of dimethyl-3-phenylglutarate in sequential batch reactor operation catalyzed by immobilized <i>Geobacillus thermocatenulatus</i> lipase. <i>Catalysis Today</i> , 2015, 255, 21-26.	2.2	34
170	Immobilization of <i>Pseudomonas fluorescens</i> lipase on hydrophobic supports and application in biodiesel synthesis by transesterification of vegetable oils in solvent-free systems. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 523-535.	1.4	55
171	Nanobiocatalyst advancements and bioprocessing applications. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140891.	1.5	197
172	Enzymatic reactors for biodiesel synthesis: Present status and future prospects. <i>Biotechnology Advances</i> , 2015, 33, 511-525.	6.0	141
173	Enhanced Activity of Immobilized or Chemically Modified Enzymes. <i>ACS Catalysis</i> , 2015, 5, 4503-4513.	5.5	348
174	Synergistic effects of amine and protein modified epoxy-support on immobilized lipase activity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 133, 51-57.	2.5	17
175	Production and immobilization of <i>Geotrichum candidum</i> lipase via physical adsorption on eco-friendly support: Characterization of the catalytic properties in hydrolysis and esterification reactions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 118, 43-51.	1.8	28
176	Selectivity of R-1-monobenzoate glycerol synthesis catalyzed by <i>Candida antarctica</i> lipase B immobilized on heterofunctional supports. <i>Process Biochemistry</i> , 2015, 50, 1870-1877.	1.8	48
177	Towards efficient chemical synthesis via engineering enzyme catalysis in biomimetic nanoreactors. <i>Chemical Communications</i> , 2015, 51, 13731-13739.	2.2	36
178	Application of cellulose/lignin hydrogel beads as novel supports for immobilizing lipase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 119, 33-39.	1.8	70
179	Versatility of divinylsulfone supports permits the tuning of CALB properties during its immobilization. <i>RSC Advances</i> , 2015, 5, 35801-35810.	1.7	70
180	Evaluation of divinylsulfone activated agarose to immobilize lipases and to tune their catalytic properties. <i>Process Biochemistry</i> , 2015, 50, 918-927.	1.8	91
181	Strategies for the one-step immobilization and purification of enzymes as industrial biocatalysts. <i>Biotechnology Advances</i> , 2015, 33, 435-456.	6.0	568

#	ARTICLE	IF	CITATIONS
182	Enzymatic synthesis of isoamyl butyrate catalyzed by immobilized lipase on poly-methacrylate particles: optimization, reusability and mass transfer studies. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1601-1613.	1.7	32
183	Dramatic hyperactivation of lipase of <i>Thermomyces lanuginosa</i> by a cationic surfactant: Fixation of the hyperactivated form by adsorption on sulfopropyl-sepharose. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 122, 199-203.	1.8	14
184	Enhancement of thermal and pH stability of an alkaline metalloprotease by nano-hydroxyapatite and its potential applications. <i>RSC Advances</i> , 2015, 5, 89346-89362.	1.7	15
185	Comparison of covalent and physical immobilization of lipase in gigaporous polymeric microspheres. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 2107-2115.	1.7	34
186	Stabilization of the lipase of <i>Hypocrea pseudokoningii</i> by multipoint covalent immobilization after chemical modification and application of the biocatalyst in oil hydrolysis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 121, 82-89.	1.8	23
187	Enhancing enzyme stability and metabolic functional ability of Î ² -galactosidase through functionalized polymer nanofiber immobilization. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1915-1923.	1.7	27
188	Interfacial Activation of <i>Candida antarctica</i> Lipase B: Combined Evidence from Experiment and Simulation. <i>Biochemistry</i> , 2015, 54, 5969-5979.	1.2	112
189	Kinetic resolution of (2-chloro-1-hydroxyethyl) thiophene via immobilizing lipase from <i>Alcaligenes sp.</i> onto magnetic nanoparticles. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 492-499.	1.6	8
190	Wood mimetic hydrogel beads for enzyme immobilization. <i>Carbohydrate Polymers</i> , 2015, 115, 223-229.	5.1	49
191	Nanotechnology Applications for Food and Bioprocessing Industries. <i>Biology and Medicine (Aligarh)</i> , 2016, 08, .	0.3	25
192	Agroindustrial Wastes as Alternative for Lipase Production by <i>Candida viswanathii</i> under Solid-State Cultivation: Purification, Biochemical Properties, and Its Potential for Poultry Fat Hydrolysis. <i>Enzyme Research</i> , 2016, 2016, 1-15.	1.8	23
193	Preliminary studies on immobilization of lipase using chicken eggshell. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 36, 012026.	0.2	6
194	Microbial Enzyme Production Using Lignocellulosic Food Industry Wastes as Feedstock: A Review. <i>Bioengineering</i> , 2016, 3, 30.	1.6	91
195	Immobilized <i>Aspergillus niger</i> Lipase with SiO ₂ Nanoparticles in Sol-Gel Materials. <i>Catalysts</i> , 2016, 6, 149.	1.6	16
196	New Tailor-Made Alkyl-Aldehyde Bifunctional Supports for Lipase Immobilization. <i>Catalysts</i> , 2016, 6, 191.	1.6	13
197	Reversible Immobilization of Lipases on Heterofunctional Octyl-Amino Agarose Beads Prevents Enzyme Desorption. <i>Molecules</i> , 2016, 21, 646.	1.7	58
198	Stabilization of <i>Candida antarctica</i> Lipase B (CALB) Immobilized on Octyl Agarose by Treatment with Polyethyleneimine (PEI). <i>Molecules</i> , 2016, 21, 751.	1.7	47
199	Tailoring the Spacer Arm for Covalent Immobilization of <i>Candida antarctica</i> Lipase B Thermal Stabilization by Bisepoxide-Activated Aminoalkyl Resins in Continuous-Flow Reactors. <i>Molecules</i> , 2016, 21, 767.	1.7	28

#	ARTICLE	IF	CITATIONS
200	Immobilization of Lipases on Heterofunctional Octylâ€“Glyoxyl Agarose Supports. <i>Methods in Enzymology</i> , 2016, 571, 73-85.	0.4	28
201	Epoxy-silanizationâ€“Tool for improvement of silica nanoparticles as support for lipase immobilization with respect to esterification activity. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 2654-2663.	1.6	12
202	Removing the Activeâ€“Site Flap in Lipaseâ€“A from <i>Candida antarctica</i> Produces a Functional Enzyme without Interfacial Activation. <i>ChemBioChem</i> , 2016, 17, 141-145.	1.3	21
203	Improved ethyl butyrate synthesis catalyzed by an immobilized recombinant <i>Rhizopus oryzae</i> lipase: A comprehensive statistical study by production, reaction rate and yield analysis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S371-S376.	1.8	6
204	Cashew apple bagasse as a support for the immobilization of lipase B from <i>Candida antarctica</i> : Application to the chemoenzymatic production of (R)-Indanol. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 130, 58-69.	1.8	63
205	Immobilization of <i>Candida antarctica</i> Lipase B on Magnetic Poly(Urea-Urethane) Nanoparticles. <i>Applied Biochemistry and Biotechnology</i> , 2016, 180, 558-575.	1.4	22
206	Optimization of the production and characterization of lipase from <i>Candida rugosa</i> and <i>Geotrichum candidum</i> in soybean molasses by submerged fermentation. <i>Protein Expression and Purification</i> , 2016, 123, 26-34.	0.6	35
207	Application of Poly(styrene-co-divinylbenzene) Macroporous Microparticles as a Catalyst Support in the Enzymatic Synthesis of Biodiesel. <i>Journal of Polymers and the Environment</i> , 2016, 24, 264-273.	2.4	7
208	Bifunctional carbohydrate biopolymers entrapped lipase as catalyst for the two consecutive conversions of α -pinene to oxy-derivatives. <i>Carbohydrate Polymers</i> , 2016, 152, 726-733.	5.1	11
209	Improvement of synthetic activity and stability of a commercial lipase in a low-water system via immobilization of hydrated lipase aggregates. <i>Process Biochemistry</i> , 2016, 51, 2047-2054.	1.8	7
210	Immobilization of Lipase from <i>Pseudomonas fluorescens</i> on Porous Polyurea and Its Application in Kinetic Resolution of Racemic 1-Phenylethanol. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25714-25724.	4.0	50
211	Improving enantioselectivity of lipase from <i>Candida rugosa</i> by carrier-bound and carrier-free immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 130, 32-39.	1.8	20
212	Synthesis of sn-2 docosahexaenoyl monoacylglycerol by mild enzymatic transesterification of docosahexaenoic acid ethyl ester and glycerol in a solvent-free system. <i>Cogent Food and Agriculture</i> , 2016, 2, .	0.6	2
213	Opening Lids: Modulation of Lipase Immobilization by Graphene Oxides. <i>ACS Catalysis</i> , 2016, 6, 4760-4768.	5.5	139
214	Covalent binding of hyper-activated <i>Rhizomucor miehei</i> lipase (RML) on hetero-functionalized siliceous supports. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 208-215.	3.6	62
215	â€“Stable-on-the-Tableâ€“Enzymes: Engineering the Enzymeâ€“Graphene Oxide Interface for Unprecedented Kinetic Stability of the Biocatalyst. <i>ACS Catalysis</i> , 2016, 6, 339-347.	5.5	34
216	Evaluation of the performance of differently immobilized recombinant lipase B from <i>Candida antarctica</i> preparations for the synthesis of pharmacological derivatives in organic media. <i>RSC Advances</i> , 2016, 6, 4043-4052.	1.7	26
217	Preparation of Biocatalytic Microparticles by Interfacial Self-Assembly of Enzymeâ€“Nanoparticle Conjugates Around a Cross-Linkable Core. <i>Methods in Enzymology</i> , 2016, 571, 1-17.	0.4	4

#	ARTICLE	IF	CITATIONS
218	Manipulation of nanofiber-based Î²-galactosidase nanoenvironment for enhancement of galacto-oligosaccharide production. <i>Journal of Biotechnology</i> , 2016, 222, 56-64.	1.9	30
219	Hydrophobic microenvironment optimization for efficient immobilization of lipases on octadecyl functionalised resins. <i>Tetrahedron</i> , 2016, 72, 7323-7328.	1.0	32
220	Orientating lipase molecules through surface chemical control for enhanced activity: A QCM-D and ToF-SIMS investigation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 142, 173-181.	2.5	31
221	Synthesis of butyl butyrate in batch and continuous enzymatic reactors using <i>Thermomyces lanuginosus</i> lipase immobilized in Immobead 150. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 127, 67-75.	1.8	49
222	Halloysite Clay Nanotubes for Enzyme Immobilization. <i>Biomacromolecules</i> , 2016, 17, 615-621.	2.6	222
223	Preparation of a biocatalyst via physical adsorption of lipase from <i>Thermomyces lanuginosus</i> on hydrophobic support to catalyze biolubricant synthesis by esterification reaction in a solvent-free system. <i>Enzyme and Microbial Technology</i> , 2016, 84, 56-67.	1.6	125
224	Immobilization of <i>Alcaligenes</i> sp. lipase as catalyst for the transesterification of vegetable oils to produce biodiesel. <i>Catalysis Today</i> , 2016, 259, 177-182.	2.2	26
225	Improvement of the enzymatic synthesis of ethyl valerate by esterification reaction in a solvent system. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 100-109.	1.0	21
226	A review on the important aspects of lipase immobilization on nanomaterials. <i>Biotechnology and Applied Biochemistry</i> , 2017, 64, 496-508.	1.4	120
227	Production of omega-3 polyunsaturated fatty acids through hydrolysis of fish oil by <i>Candida rugosa</i> lipase immobilized and stabilized on different supports. <i>Biocatalysis and Biotransformation</i> , 2017, 35, 63-73.	1.1	14
228	<i>Candida antarctica</i> lipase A effectively concentrates DHA from fish and thraustochytrid oils. <i>Food Chemistry</i> , 2017, 229, 509-516.	4.2	43
229	Solid-phase amination of <i>Geotrichum candidum</i> lipase: ionic immobilization, stabilization and fish oil hydrolysis for the production of Omega-3 polyunsaturated fatty acids. <i>European Food Research and Technology</i> , 2017, 243, 1375-1384.	1.6	12
230	Self-Assembly Nanostructures of Triglycerideâ€“Water Interfaces Determine Functional Conformations of <i>Candida antarctica</i> Lipase B. <i>Langmuir</i> , 2017, 33, 3151-3159.	1.6	10
231	Effect of protein load on stability of immobilized enzymes. <i>Enzyme and Microbial Technology</i> , 2017, 98, 18-25.	1.6	176
232	Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7461-7490.	2.9	228
233	Isotherm, kinetic, mechanism and thermodynamic studies of adsorption of a microbial lipase on a mesoporous and hydrophobic resin. <i>Chemical Engineering Journal</i> , 2017, 311, 1-12.	6.6	80
234	Immobilization of <i>Candida antarctica</i> lipase B onto PuroLite® MN102 and its application in solvent-free and organic media esterification. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 23-34.	1.7	22
235	Immobilized Lipases on Functionalized Silica Particles as Potential Biocatalysts for the Synthesis of Fructose Oleate in an Organic Solvent/Water System. <i>Molecules</i> , 2017, 22, 212.	1.7	34

#	ARTICLE	IF	CITATIONS
236	Immobilization of Lipase from <i>Penicillium</i> sp. Section <i>Gracilentia</i> (CBMAI 1583) on Different Hydrophobic Supports: Modulation of Functional Properties. <i>Molecules</i> , 2017, 22, 339.	1.7	22
237	New Heterofunctional Supports Based on Glutaraldehyde-Activation: A Tool for Enzyme Immobilization at Neutral pH. <i>Molecules</i> , 2017, 22, 1088.	1.7	39
238	Preparation of Carriers Based on ZnO Nanoparticles Decorated on Graphene Oxide (GO) Nanosheets for Efficient Immobilization of Lipase from <i>Candida rugosa</i> . <i>Molecules</i> , 2017, 22, 1205.	1.7	23
239	Preparation and Characterization of Cellulose Triacetate as Support for Lecitase Ultra Immobilization. <i>Molecules</i> , 2017, 22, 1930.	1.7	14
240	Spongin-Based Scaffolds from <i>Hippospongia communis</i> Demosponge as an Effective Support for Lipase Immobilization. <i>Catalysts</i> , 2017, 7, 147.	1.6	35
241	Using Laccases in the Nanoflower to Synthesize Viniferin. <i>Catalysts</i> , 2017, 7, 188.	1.6	25
242	Modulation of the regioselectivity of <i>Thermomyces lanuginosus</i> lipase via biocatalyst engineering for the Ethanolysis of oil in fully anhydrous medium. <i>BMC Biotechnology</i> , 2017, 17, 88.	1.7	41
243	Fabrication of a nano-biocatalyst for regioselective acylation of arbutin. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 55-61.	2.1	12
244	Different organic components on silica hybrid matrices modulate the lipase inhibition by the glycerol formed in continuous transesterification reactions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 462-470.	2.9	27
245	Quick separation and enzymatic performance improvement of lipase by ionic liquid-modified Fe ₃ O ₄ carrier immobilization. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 739-748.	1.7	18
246	A printable hydrogel microarray for drug screening avoids false positives associated with promiscuous aggregating inhibitors. <i>Nature Communications</i> , 2018, 9, 602.	5.8	32
247	Synthesis of cinnamyl acetate catalysed by highly reusable cotton-immobilized <i>Pseudomonas fluorescens</i> lipase. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 332-339.	1.1	10
248	Efficient purification of a highly active H-subunit of tyrosinase from <i>Agaricus bisporus</i> . <i>Protein Expression and Purification</i> , 2018, 145, 64-70.	0.6	12
249	Co-immobilization of lipases and β -D-galactosidase onto magnetic nanoparticle supports: Biochemical characterization. <i>Molecular Catalysis</i> , 2018, 453, 12-21.	1.0	25
250	Enzymatic transesterification in a solvent-free system: synthesis of sn-2 docosahexaenoyl monoacylglycerol. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 265-270.	1.1	9
251	Optimization of the coating of octyl-CALB with ionic polymers to improve stability and decrease enzyme leakage. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 47-56.	1.1	40
252	Lipase immobilization on functionalized mesoporous TiO ₂ : Specific adsorption, hyperactivation and application in cinnamyl acetate synthesis. <i>Process Biochemistry</i> , 2018, 64, 152-159.	1.8	37
253	Immobilization and topochemical mechanism of a new β -amylase extracted from <i>Pergularia tomentosa</i> . <i>Process Biochemistry</i> , 2018, 64, 143-151.	1.8	9

#	ARTICLE	IF	CITATIONS
254	Immobilization of lipases in hydrophobic chitosan for selective hydrolysis of fish oil: The impact of support functionalization on lipase activity, selectivity and stability. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 674-686.	3.6	61
255	Effect of Site-Specific Peptide-Tag Labeling on the Biocatalytic Properties of Thermoalkalophilic Lipase from <i>Geobacillus thermocatenulatus</i> . <i>ChemBioChem</i> , 2018, 19, 369-378.	1.3	10
256	Pore-expanded SBA-15 for the immobilization of a recombinant <i>Candida antarctica</i> lipase B: Application in esterification and hydrolysis as model reactions. <i>Chemical Engineering Research and Design</i> , 2018, 129, 12-24.	2.7	27
257	Biochemical properties of free and immobilized <i>Candida viswanathii</i> lipase on octyl-agarose support: Hydrolysis of triacylglycerol and soy lecithin. <i>Process Biochemistry</i> , 2018, 65, 71-80.	1.8	30
258	Production of Omegas-6 and 9 from the Hydrolysis of AÅsaÃ-and Buriti Oils by Lipase Immobilized on a Hydrophobic Support. <i>Molecules</i> , 2018, 23, 3015.	1.7	16
259	Evaluation of Strategies to Produce Highly Porous Cross-Linked Aggregates of Porcine Pancreas Lipase with Magnetic Properties. <i>Molecules</i> , 2018, 23, 2993.	1.7	45
260	Bioinspired Dual-Enzyme Colloidosome Reactors for High-Performance Biphasic Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41504-41511.	4.0	23
261	Immobilization of Eversa Lipase on Octyl Agarose Beads and Preliminary Characterization of Stability and Activity Features. <i>Catalysts</i> , 2018, 8, 511.	1.6	49
262	Preparation of a Flower-Like Immobilized D-Psicose 3-Epimerase with Enhanced Catalytic Performance. <i>Catalysts</i> , 2018, 8, 468.	1.6	34
264	Preparation of ion-exchange supports via activation of epoxy-SiO ₂ with glycine to immobilize microbial lipase – Use of biocatalysts in hydrolysis and esterification reactions. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 2354-2365.	3.6	23
265	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
266	Co-expression, purification and characterization of the lipase and foldase of <i>Burkholderia contaminans</i> LTEB11. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 1222-1231.	3.6	10
267	Oleate esters production by bridging <i>Clostridium acetobutylicum</i> fermentation and <i>Candida</i> sp. 99-125 full-cell catalysis based on gas stripping-pervaporation unit. <i>Process Biochemistry</i> , 2018, 71, 12-17.	1.8	5
268	Flow-based biocatalysis: Application to peracetylated arabinofuranosyl-1,5-arabinofuranose synthesis. <i>Process Biochemistry</i> , 2018, 72, 112-118.	1.8	6
269	Kinetic and thermodynamic characterization of a novel <i>Aspergillus aculeatus</i> URM4953 polygalacturonase. Comparison of free and calcium alginate-immobilized enzyme. <i>Process Biochemistry</i> , 2018, 74, 61-70.	1.8	24
270	Lipase Immobilization on Silica Xerogel Treated with Protic Ionic Liquid and its Application in Biodiesel Production from Different Oils. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1829.	1.8	37
271	Stabilization of Immobilized Lipases by Intense Intramolecular Cross-Linking of Their Surfaces by Using Aldehyde-Dextran Polymers. <i>International Journal of Molecular Sciences</i> , 2018, 19, 553.	1.8	32
272	Performance of Different Immobilized Lipases in the Syntheses of Short- and Long-Chain Carboxylic Acid Esters by Esterification Reactions in Organic Media. <i>Molecules</i> , 2018, 23, 766.	1.7	31

#	ARTICLE	IF	CITATIONS
273	Influence of different immobilization techniques to improve the enantioselectivity of lipase from <i>Geotrichum candidum</i> applied on the resolution of mandelic acid. <i>Molecular Catalysis</i> , 2018, 458, 89-96.	1.0	10
274	Immobilization Effects on the Catalytic Properties of Two <i>Fusarium Verticillioides</i> Lipases: Stability, Hydrolysis, Transesterification and Enantioselectivity Improvement. <i>Catalysts</i> , 2018, 8, 84.	1.6	19
275	A novel approach for bioconjugation of <i>Rhizomucor miehei</i> lipase (RML) onto amine-functionalized supports; Application for enantioselective resolution of rac-ibuprofen. <i>International Journal of Biological Macromolecules</i> , 2018, 117, 523-531.	3.6	27
276	Nanoparticle-induced enzyme pretreatment method for increased glucose production from lignocellulosic biomass under cold conditions. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 767-780.	1.7	23
277	Biochemical characterization and application of a new lipase and its cognate foldase obtained from a metagenomic library derived from fat-contaminated soil. <i>International Journal of Biological Macromolecules</i> , 2019, 137, 442-454.	3.6	15
278	Thermal Hyperactivation and Stabilization of β -Galactosidase from <i>Bacillus circulans</i> through a Silica Sol-Gel Process Mediated by Chitosan-Metal Chelates. <i>ACS Applied Bio Materials</i> , 2019, 2, 3380-3392.	2.3	8
279	Immobilization of inulinase on KU-2 ion-exchange resin matrix. <i>International Journal of Biological Macromolecules</i> , 2019, 138, 681-692.	3.6	13
280	Efficient Production of Multi-Layer Graphene from Graphite Flakes in Water by Lipase-Graphene Sheets Conjugation. <i>Nanomaterials</i> , 2019, 9, 1344.	1.9	5
281	Facile and green fabrication of biocatalytic chitosan beads by one-step genipin-mediated β -glucosidase immobilization for production of bioactive genistein. <i>Sustainable Chemistry and Pharmacy</i> , 2019, 14, 100187.	1.6	5
282	Synthesis with Immobilized Lipases and Downstream Processing of Ascorbyl Palmitate. <i>Molecules</i> , 2019, 24, 3227.	1.7	20
283	Stereoselective biosynthesis of 3-azido-3-deoxythymidine 5-O- β -D-ribose and in vitro evaluation as potential antileishmanial with in silico ADME prediction. <i>Process Biochemistry</i> , 2019, 87, 232-237.	1.8	0
284	Direct immobilization and recovery of recombinant proteins from cell lysates by using EctP1-peptide as a short fusion tag for silica and titania supports. <i>International Journal of Biological Macromolecules</i> , 2019, 135, 969-977.	3.6	23
285	Reuse of Lipase from <i>Pseudomonas fluorescens</i> via Its Step-by-Step Coimmobilization on Glyoxyl-Octyl Agarose Beads with Least Stable Lipases. <i>Catalysts</i> , 2019, 9, 487.	1.6	39
286	Lecitase ultra: A phospholipase with great potential in biocatalysis. <i>Molecular Catalysis</i> , 2019, 473, 110405.	1.0	43
287	N-terminal domain replacement changes an archaeal monoacylglycerol lipase into a triacylglycerol lipase. <i>Biotechnology for Biofuels</i> , 2019, 12, 110.	6.2	14
288	Dramatic Increase in Catalytic Performance of Immobilized Lipases by Their Stabilization on Polymer Brush Supports. <i>ACS Catalysis</i> , 2019, 9, 4992-5001.	5.5	36
289	Reactor Selection for Effective Continuous Biocatalytic Production of Pharmaceuticals. <i>Catalysts</i> , 2019, 9, 262.	1.6	68
290	Bisepoxide-activated Hollow Silica Microspheres for Covalent Immobilization of Lipase from <i>Burkholderia cepacia</i> . <i>Periodica Polytechnica: Chemical Engineering</i> , 2019, 63, 414-424.	0.5	3

#	ARTICLE	IF	CITATIONS
291	Immobilization of lipases on hydrophobic supports: immobilization mechanism, advantages, problems, and solutions. <i>Biotechnology Advances</i> , 2019, 37, 746-770.	6.0	409
292	Tailoring a robust and recyclable nanobiocatalyst by immobilization of <i>Pseudomonas fluorescens</i> lipase on carbon nanofiber and its application in synthesis of enantiopure carboetomidate analogue. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 1299-1310.	3.6	23
293	Improvement of activity and stability of <i>Rhizomucor miehei</i> lipase by immobilization on nanoporous aluminium oxide and potassium sulfate microcrystals and their applications in the synthesis of aroma esters. <i>Biocatalysis and Biotransformation</i> , 2019, 37, 210-223.	1.1	14
294	Biocatalyst engineering of <i>Thermomyces Lanuginosus</i> lipase adsorbed on hydrophobic supports: Modulation of enzyme properties for ethanolysis of oil in solvent-free systems. <i>Journal of Biotechnology</i> , 2019, 289, 126-134.	1.9	35
295	Effects of Reaction Operation Policies on Properties of Core-Shell Polymer Supports Used for Preparation of Highly Active Biocatalysts. <i>Macromolecular Reaction Engineering</i> , 2019, 13, 1800055.	0.9	6
296	Effect of silica coating on Fe ₃ O ₄ magnetic nanoparticles for lipase immobilization and their application for biodiesel production. <i>Arabian Journal of Chemistry</i> , 2019, 12, 4694-4706.	2.3	87
297	Cross-linked enzyme lyophilisates (CLELs) of urease: A new method to immobilize ureases. <i>Enzyme and Microbial Technology</i> , 2020, 132, 109390.	1.6	15
298	Enzyme immobilized in BioMOFs: Facile synthesis and improved catalytic performance. <i>International Journal of Biological Macromolecules</i> , 2020, 144, 19-28.	3.6	26
299	Enzyme immobilization onto the nanomaterials: Application in enzyme stability and prodrug-activated cancer therapy. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 665-676.	3.6	89
300	Optimal immobilization of trypsin from the spleen of albacore tuna (<i>Thunnus alalunga</i>) and its characterization. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 462-471.	3.6	14
301	Immobilized lipases for biodiesel production: Current and future greening opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110355.	8.2	61
302	Optimization of immobilization conditions of <i>Bacillus atrophaeus</i> FSHM2 lipase on maleic copolymer coated amine-modified graphene oxide nanosheets and its application for valeric acid esterification. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1790-1806.	3.6	27
303	Less explored plant lipases: Modeling and molecular dynamics simulations of plant lipases in different solvents and temperatures to understand structure-function relationship. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3546-3558.	3.6	17
304	Nitrile hydratase mediated green synthesis of lactamide by immobilizing <i>Rhodococcus pyridinivorans</i> NIT-36 cells on N,N'-Methylene bis-acrylamide activated chitosan. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 168-176.	3.6	7
305	Production of a cyanobacterium-based biodiesel by the heterogeneous biocatalyst of SBA-15@oleate@lipase. <i>Fuel</i> , 2020, 279, 118580.	3.4	7
306	Make proper surfaces for immobilization of enzymes: Immobilization of lipase and α -amylase on modified Na-sepiolite. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1-12.	3.6	68
307	Designing a Support for Lipase Immobilization Based On Magnetic, Hydrophobic, and Mesoporous Silica. <i>Langmuir</i> , 2020, 36, 10147-10155.	1.6	10
308	Tunable Polymeric Scaffolds for Enzyme Immobilization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 830.	2.0	67

#	ARTICLE	IF	CITATIONS
309	Immobilisation of <i>Candida rugosa</i> lipase on a highly hydrophobic support: A stable immobilised lipase suitable for non-aqueous synthesis. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020, 28, e00535.	2.1	13
310	Immobilization of pectinase on Zr ²⁺ -treated pumice for fruit juice industry. <i>Journal of Food Processing and Preservation</i> , 2020, 44, e14661.	0.9	4
311	Microbial lipase: a new approach for a heterogeneous biocatalyst. <i>Preparative Biochemistry and Biotechnology</i> , 2021, 51, 749-760.	1.0	9
312	Principles of lipid-enzyme interactions in the limbus region of the catalytic site of <i>Candida antarctica</i> Lipase B. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 358-363.	3.6	19
313	Immobilization of laccase on Sepharose-linked antibody support for decolourization of phenol red. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 78-87.	3.6	38
314	Tailoring a stable and recyclable nanobiocatalyst by immobilization of surfactant treated <i>Burkholderia cepacia</i> lipase on polyaniline nanofibers for biocatalytic application. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 573-586.	3.6	17
315	Effect of hydrophobicity degree of polymer particles on lipase immobilization and on biocatalyst performance. <i>Biocatalysis and Biotransformation</i> , 0, , 1-11.	1.1	7
316	Production of volatile compounds by yeasts using hydrolysed grape seed oil obtained by immobilized lipases in continuous packed-bed reactors. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1391-1402.	1.7	6
317	Recent Trends in Biomaterials for Immobilization of Lipases for Application in Non-Conventional Media. <i>Catalysts</i> , 2020, 10, 697.	1.6	36
318	Immobilisation of <i>Candida rugosa</i> lipase on polyhydroxybutyrate via a combination of adsorption and cross-linking agents to enhance acylglycerol production. <i>Process Biochemistry</i> , 2020, 95, 174-185.	1.8	53
319	High stabilization of immobilized <i>Rhizomucor miehei</i> lipase by additional coating with hydrophilic crosslinked polymers: Poly-allylamine/Aldehyde-dextran. <i>Process Biochemistry</i> , 2020, 92, 156-163.	1.8	17
320	Functionalized β -carrageenan/hyperbranched poly(amidoamine) for protease immobilization: Thermodynamics and stability studies. <i>International Journal of Biological Macromolecules</i> , 2020, 148, 1140-1155.	3.6	33
321	Reduced Enzyme Dynamics upon Multipoint Covalent Immobilization Leads to Stability-Activity Trade-off. <i>Journal of the American Chemical Society</i> , 2020, 142, 3463-3471.	6.6	76
322	Production of New Functionalized Polymer Nanoparticles and Use for Manufacture of Novel Nanobiocatalysts. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000065.	1.7	8
323	High-level expression and characterization of a novel phospholipase C from <i>Thielavia terrestris</i> suitable for oil degumming. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 740-748.	3.6	13
324	Carrier-bound and carrier-free immobilization of type A feruloyl esterase from <i>Aspergillus niger</i> : Searching for an operationally stable heterogeneous biocatalyst for the synthesis of butyl hydroxycinnamates. <i>Journal of Biotechnology</i> , 2020, 316, 6-16.	1.9	18
325	Immobilized microbial lipases in the food industry: a systematic literature review. <i>Critical Reviews in Food Science and Nutrition</i> , 2021, 61, 1689-1703.	5.4	41
326	Effect of shaking speed on immobilization of cephalosporin C acylase: Correlation between protein distribution and properties of the immobilized enzymes. <i>Biotechnology Progress</i> , 2021, 37, e3063.	1.3	2

#	ARTICLE	IF	CITATIONS
327	Tosylated cloisite as a new heterofunctional carrier for covalent immobilization of lipase and its utilization for production of biodiesel from waste frying oil. <i>Renewable Energy</i> , 2021, 164, 876-888.	4.3	71
328	Modifying the Microenvironment of Epoxy Resin to Improve the Activity of Immobilized 7 α -Hydroxysteroid Dehydrogenases. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 925-939.	1.4	4
329	Efficient secretion expression of phospholipase D in <i>Bacillus subtilis</i> and its application in synthesis of phosphatidylserine by enzyme immobilization. <i>International Journal of Biological Macromolecules</i> , 2021, 169, 282-289.	3.6	16
330	Enzyme Biocatalysis and Sustainability. , 2021, , 383-413.		5
331	Modulation of the Biocatalytic Properties of a Novel Lipase from Psychrophilic <i>Serratia</i> sp. (USBA-GBX-513) by Different Immobilization Strategies. <i>Molecules</i> , 2021, 26, 1574.	1.7	5
332	Engineering actively magnetic crosslinked inclusion bodies of <i>Candida antarctica</i> lipase B: An efficient and stable biocatalyst for enzyme-catalyzed reactions. <i>Molecular Catalysis</i> , 2021, 504, 111467.	1.0	8
334	Lipase Immobilization in Mesoporous Silica Nanoparticles for Biofuel Production. <i>Catalysts</i> , 2021, 11, 629.	1.6	39
335	New nanocomposite made of cashew apple bagasse lignin and Fe_3O_4 for immobilizing of lipase B from <i>Candida antarctica</i> aiming at esterification. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 2472-2487.	1.6	16
336	Chitosan-based nanofibers for enzyme immobilization. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 1959-1970.	3.6	49
337	Effect of Triton X-100 on the Activity and Selectivity of Lipase Immobilized on Chemically Reduced Graphene Oxides. <i>Langmuir</i> , 2021, 37, 9202-9214.	1.6	7
338	The influence of oriented external electric field on lipase catalyzed triglyceride hydrolysis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 165, 108452.	1.8	3
339	Evaluation of select biochars and clays as supports for phytase to increase the fertilizer potential of animal wastes. <i>Science of the Total Environment</i> , 2021, 787, 147720.	3.9	5
340	Ethanol as additive enhance the performance of immobilized lipase LipA from <i>Pseudomonas aeruginosa</i> on polypropylene support. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 31, e00659.	2.1	6
341	Utilization of Clay Materials as Support for <i>Aspergillus japonicus</i> Lipase: An Eco-Friendly Approach. <i>Catalysts</i> , 2021, 11, 1173.	1.6	13
342	Enhanced enzymatic performance of immobilized lipase on metal organic frameworks with superhydrophobic coating for biodiesel production. <i>Journal of Colloid and Interface Science</i> , 2021, 602, 426-436.	5.0	78
343	Trends in lipase immobilization: Bibliometric review and patent analysis. <i>Process Biochemistry</i> , 2021, 110, 37-51.	1.8	51
344	Regioselective Deacetylation of Disaccharides via Immobilized <i>Aspergillus niger</i> Esterase(s)-catalyzed Hydrolysis in Aqueous and Non-aqueous Media. <i>ChemCatChem</i> , 2013, 5, 2925-2931.	1.8	9
345	Improved Stabilization of Chemically Aminated Enzymes Via Multipoint Covalent Attachment on Glyoxyl Supports. <i>Methods in Biotechnology</i> , 2006, , 163-173.	0.2	2

#	ARTICLE	IF	CITATIONS
346	Immobilization of <i>Yarrowia lipolytica</i> Lipase – A Comparison of Stability of Physical Adsorption and Covalent Attachment Techniques. , 2007, , 169-176.		3
347	Immobilization of <i>Candida antarctica</i> Lipase B by Adsorption to Green Coconut Fiber. , 2007, , 293-307.		4
348	Immobilization of <i>Candida rugosa</i> Lipase on Superparamagnetic Fe ₃ O ₄ Nanoparticles for Biocatalysis in Low-Water Media. <i>Methods in Molecular Biology</i> , 2013, 1051, 117-127.	0.4	4
349	Nanostructuring Biomaterials with Specific Activities towards Digestive Enzymes for Controlled Gastrointestinal Absorption of Lipophilic Bioactive Molecules. <i>Advances in Colloid and Interface Science</i> , 2016, 237, 52-75.	7.0	34
350	Immobilization of Cross-Linked Phenylalanine Ammonia Lyase Aggregates in Microporous Silica Gel. <i>PLoS ONE</i> , 2013, 8, e80581.	1.1	25
351	<i>Bacillus</i> 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.	0.3	2
352	Immobilization of Proteins in Poly-Styrene-Divinylbenzene Matrices: Functional Properties and Applications. <i>Current Organic Chemistry</i> , 2015, 19, 1707-1718.	0.9	62
353	Immobilized lipases as practical catalysts. <i>Acta Periodica Technologica</i> , 2004, , 151-164.	0.5	37
354	Immobilization of a thermophilic solvent-stable lipase from <i>Acinetobacter baylyi</i> and its potential for use in biodiesel production. <i>ScienceAsia</i> , 2014, 40, 327.	0.2	4
355	Erratum to “Trends in lipase immobilization: Bibliometric review and patent analysis” [Process Biochem. 110 (2021) 37–51]. <i>Process Biochemistry</i> , 2021, 110, 303-321.	1.8	3
356	Tailoring the hydrophobicity of wrinkled silica nanoparticles and of the adsorption medium as a strategy for immobilizing lipase: An efficient catalyst for biofuel production. <i>Microporous and Mesoporous Materials</i> , 2021, 328, 111504.	2.2	12
357	Immobilization and bioimprinting strategies to enhance the performance in organic medium of the metagenomic lipase LipC12. <i>Journal of Biotechnology</i> , 2021, 342, 13-27.	1.9	9
358	Stabilization and operational selectivity alteration of Lipozyme 435 by its coating with polyethyleneimine: Comparison of the biocatalyst performance in the synthesis of xylose fatty esters. <i>International Journal of Biological Macromolecules</i> , 2021, 192, 665-674.	3.6	10
359	Methods and Supports for Immobilization and Stabilization of Cyclomaltodextrin Glucanotransferase from <i>Thermoanaerobacter</i> . , 2007, , 309-321.		0
360	CHAPTER 9. Lipases in Enantioselective Syntheses: Evolution of Technology and Recent Applications. <i>RSC Green Chemistry</i> , 2015, , 207-244.	0.0	0
361	Lipase Immobilization. , 2015, , 41-58.		0
362	Direct recovery of intracellular lipase from cell lysate by adsorption on silica magnetic microparticles activated with Octyl groups. <i>Brazilian Journal of Chemical Engineering</i> , 0, , 1.	0.7	0
363	Chemical modification of enzymes to improve biocatalytic performance. <i>Biotechnology Advances</i> , 2021, 53, 107868.	6.0	32

#	ARTICLE	IF	CITATIONS
364	Mechanisms of interaction among enzymes and supports. , 2022, , 105-148.		3
365	Immobilization of Eversa Lipases on Hydrophobic Supports for Ethanolysis of Sunflower Oil Solvent-Free. Applied Biochemistry and Biotechnology, 2022, 194, 2151-2167.	1.4	9
366	Omega-3 production by fish oil hydrolysis using a lipase from Burkholderia gladioli BRM58833 immobilized and stabilized by post-immobilization techniques. Biochemistry and Biophysics Reports, 2022, 29, 101193.	0.7	1
368	Activation and Stabilization of Lipase B from Candida antarctica by Immobilization on Polymer Brushes with Optimized Surface Structure. Applied Biochemistry and Biotechnology, 2022, 194, 3384-3399.	1.4	2
369	Progress in enrichment of n-3 polyunsaturated fatty acid: a review. Critical Reviews in Food Science and Nutrition, 2023, 63, 11310-11326.	5.4	5
370	Effective immobilization of <i>Candida cylindracea</i> lipase on surfactant-modified bentonite. Molecular Crystals and Liquid Crystals, 0, , 1-14.	0.4	0
371	Improvement of enzymatic activity and stability of lipase A from Candida antartica onto halloysite nanotubes with Taguchi method for optimized immobilization. Applied Clay Science, 2022, 228, 106634.	2.6	26
372	Enzymatic synthesis of mono- and disubstituted phospholipids by direct condensation of oleic acid and glycerophosphocholine with immobilized lipases and phospholipase. Food Chemistry, 2023, 401, 134109.	4.2	4
373	Metal-organic framework as a heterogeneous catalyst for biodiesel production: A review. Chemical Engineering Journal Advances, 2022, 12, 100415.	2.4	31
374	Lipase-Catalyzed Phospha-Michael Addition Reactions under Mild Conditions. Molecules, 2022, 27, 7798.	1.7	4
375	Effects of Lipase Immobilization Conditions and Support Materials for the Production of Structured Triacylglycerols. European Journal of Lipid Science and Technology, 0, , 2200135.	1.0	0
376	Carbohydrate microcapsules tailored and grafted for covalent immobilization of glucose isomerase for pharmaceutical and food industries. Biotechnology Letters, 2023, 45, 175-189.	1.1	1