

# Roberto Fernandez-Lafuente

## List of Publications by Year in descending order

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543  
papers

42,836  
citations

2975

93  
h-index

4228

174  
g-index

552  
all docs

552  
docs citations

552  
times ranked

16171  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of enzyme activity, stability and selectivity via immobilization techniques. Enzyme and Microbial Technology, 2007, 40, 1451-1463.	3.2	2,864
2	Modifying enzyme activity and selectivity by immobilization. Chemical Society Reviews, 2013, 42, 6290-6307.	38.1	1,552
3	Potential of Different Enzyme Immobilization Strategies to Improve Enzyme Performance. Advanced Synthesis and Catalysis, 2011, 353, 2885-2904.	4.3	1,389
4	Glutaraldehyde in bio-catalysts design: a useful crosslinker and a versatile tool in enzyme immobilization. RSC Advances, 2014, 4, 1583-1600.	3.6	669
5	Strategies for the one-step immobilization and purification of enzymes as industrial biocatalysts. Biotechnology Advances, 2015, 33, 435-456.	11.7	568
6	Stabilization of multimeric enzymes: Strategies to prevent subunit dissociation. Enzyme and Microbial Technology, 2009, 45, 405-418.	3.2	561
7	Control of protein immobilization: Coupling immobilization and site-directed mutagenesis to improve biocatalyst or biosensor performance. Enzyme and Microbial Technology, 2011, 48, 107-122.	3.2	541
8	Lipase from <i>Thermomyces lanuginosus</i> : Uses and prospects as an industrial biocatalyst. Journal of Molecular Catalysis B: Enzymatic, 2010, 62, 197-212.	1.8	495
9	A single step purification, immobilization, and hyperactivation of lipases via interfacial adsorption on strongly hydrophobic supports. Biotechnology and Bioengineering, 1998, 58, 486-493.	3.3	469
10	Importance of the Support Properties for Immobilization or Purification of Enzymes. ChemCatChem, 2015, 7, 2413-2432.	3.7	466
11	Immobilization of lipases by selective adsorption on hydrophobic supports. Chemistry and Physics of Lipids, 1998, 93, 185-197.	3.2	441
12	Heterofunctional Supports in Enzyme Immobilization: From Traditional Immobilization Protocols to Opportunities in Tuning Enzyme Properties. Biomacromolecules, 2013, 14, 2433-2462.	5.4	429
13	Immobilization of lipases on hydrophobic supports involves the open form of the enzyme. Enzyme and Microbial Technology, 2015, 71, 53-57.	3.2	429
14	Immobilization of lipases on hydrophobic supports: immobilization mechanism, advantages, problems, and solutions. Biotechnology Advances, 2019, 37, 746-770.	11.7	409
15	Novozym 435: the "perfect" lipase immobilized biocatalyst?. Catalysis Science and Technology, 2019, 9, 2380-2420.	4.1	393
16	Interfacial adsorption of lipases on very hydrophobic support (octadecyl-Sepabeads): immobilization, hyperactivation and stabilization of the open form of lipases. Journal of Molecular Catalysis B: Enzymatic, 2002, 19-20, 279-286.	1.8	384
17	Different mechanisms of protein immobilization on glutaraldehyde activated supports: Effect of support activation and immobilization conditions. Enzyme and Microbial Technology, 2006, 39, 877-882.	3.2	361
18	Glyoxyl agarose: A fully inert and hydrophilic support for immobilization and high stabilization of proteins. Enzyme and Microbial Technology, 2006, 39, 274-280.	3.2	347

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19	Coupling Chemical Modification and Immobilization to Improve the Catalytic Performance of Enzymes. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 2216-2238.	4.3	329
20	Parameters necessary to define an immobilized enzyme preparation. <i>Process Biochemistry</i> , 2020, 90, 66-80.	3.7	306
21	Enhancing the functional properties of thermophilic enzymes by chemical modification and immobilization. <i>Enzyme and Microbial Technology</i> , 2011, 49, 326-346.	3.2	295
22	Multifunctional Epoxy Supports: A New Tool To Improve the Covalent Immobilization of Proteins. The Promotion of Physical Adsorptions of Proteins on the Supports before Their Covalent Linkage. <i>Biomacromolecules</i> , 2000, 1, 739-745.	5.4	281
23	Stabilization of enzymes via immobilization: Multipoint covalent attachment and other stabilization strategies. <i>Biotechnology Advances</i> , 2021, 52, 107821.	11.7	280
24	Immobilization of enzymes on heterofunctional epoxy supports. <i>Nature Protocols</i> , 2007, 2, 1022-1033.	12.0	269
25	Nanomaterials for biocatalyst immobilization – state of the art and future trends. <i>RSC Advances</i> , 2016, 6, 104675-104692.	3.6	267
26	Epoxy Sepabeads: A Novel Epoxy Support for Stabilization of Industrial Enzymes via Very Intense Multipoint Covalent Attachment. <i>Biotechnology Progress</i> , 2002, 18, 629-634.	2.6	259
27	Enzyme stabilization by glutaraldehyde crosslinking of adsorbed proteins on aminated supports. <i>Journal of Biotechnology</i> , 2005, 119, 70-75.	3.8	259
28	Some special features of glyoxyl supports to immobilize proteins. <i>Enzyme and Microbial Technology</i> , 2005, 37, 456-462.	3.2	257
29	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
30	Preparation of activated supports containing low pK amino groups. A new tool for protein immobilization via the carboxyl coupling method. <i>Enzyme and Microbial Technology</i> , 1993, 15, 546-550.	3.2	240
31	Epoxy-Amino Groups: A New Tool for Improved Immobilization of Proteins by the Epoxy Method. <i>Biomacromolecules</i> , 2003, 4, 772-777.	5.4	234
32	Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7461-7490.	5.8	228
33	Agarose and Its Derivatives as Supports for Enzyme Immobilization. <i>Molecules</i> , 2016, 21, 1577.	3.8	227
34	Reversible enzyme immobilization via a very strong and nondistorting ionic adsorption on support-polyethylenimine composites. , 2000, 68, 98-105.		225
35	Lipase from <i>Rhizomucor miehei</i> as a biocatalyst in fats and oils modification. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 66, 15-32.	1.8	225
36	General Trend of Lipase to Self-Assemble Giving Bimolecular Aggregates Greatly Modifies the Enzyme Functionality. <i>Biomacromolecules</i> , 2003, 4, 1-6.	5.4	212

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37	Effect of the support and experimental conditions in the intensity of the multipoint covalent attachment of proteins on glyoxyl-agarose supports: Correlation between enzyme's support linkages and thermal stability. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1160-1166.	3.2	200
38	Activation of Bacterial Thermoalkalophilic Lipases Is Spurred by Dramatic Structural Rearrangements. <i>Journal of Biological Chemistry</i> , 2009, 284, 4365-4372.	3.4	196
39	Interfacially activated lipases against hydrophobic supports: Effect of the support nature on the biocatalytic properties. <i>Process Biochemistry</i> , 2008, 43, 1061-1067.	3.7	191
40	Advances in the design of new epoxy supports for enzyme immobilization's stabilization. <i>Biochemical Society Transactions</i> , 2007, 35, 1593-1601.	3.4	188
41	Versatility of glutaraldehyde to immobilize lipases: Effect of the immobilization protocol on the properties of lipase B from <i>Candida antarctica</i> . <i>Process Biochemistry</i> , 2012, 47, 1220-1227.	3.7	188
42	Chemical Modification in the Design of Immobilized Enzyme Biocatalysts: Drawbacks and Opportunities. <i>Chemical Record</i> , 2016, 16, 1436-1455.	5.8	183
43	Biotechnological Applications of Proteases in Food Technology. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2018, 17, 412-436.	11.7	183
44	Is enzyme immobilization a mature discipline? Some critical considerations to capitalize on the benefits of immobilization. <i>Chemical Society Reviews</i> , 2022, 51, 6251-6290.	38.1	183
45	Chitosan crosslinked with genipin as support matrix for application in food process: Support characterization and $\beta$ -D-galactosidase immobilization. <i>Carbohydrate Polymers</i> , 2016, 137, 184-190.	10.2	181
46	Effect of protein load on stability of immobilized enzymes. <i>Enzyme and Microbial Technology</i> , 2017, 98, 18-25.	3.2	176
47	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.	3.2	160
48	Use of Alcalase in the production of bioactive peptides: A review. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2143-2196.	7.5	160
49	Novozym 435 displays very different selectivity compared to lipase from <i>Candida antarctica</i> B adsorbed on other hydrophobic supports. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 57, 171-176.	1.8	159
50	Enzyme co-immobilization: Always the biocatalyst designers' choice or not?. <i>Biotechnology Advances</i> , 2021, 51, 107584.	11.7	152
51	Antimicrobial Peptides: Promising Compounds Against Pathogenic Microorganisms. <i>Current Medicinal Chemistry</i> , 2014, 21, 2299-2321.	2.4	146
52	Strategies for enzyme stabilization by intramolecular crosslinking with bifunctional reagents. <i>Enzyme and Microbial Technology</i> , 1995, 17, 517-523.	3.2	145
53	Immobilization-stabilization of Penicillin G acylase from <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 1990, 26, 181-195.	2.9	141
54	Enzymatic reactors for biodiesel synthesis: Present status and future prospects. <i>Biotechnology Advances</i> , 2015, 33, 511-525.	11.7	141

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55	Inactivation of immobilized trypsin under dissimilar conditions produces trypsin molecules with different structures. <i>RSC Advances</i> , 2016, 6, 27329-27334.	3.6	139
56	The coimmobilization of d-amino acid oxidase and catalase enables the quantitative transformation of d-amino acids (d-phenylalanine) into $\alpha$ -keto acids (phenylpyruvic acid). <i>Enzyme and Microbial Technology</i> , 1998, 23, 28-33.	3.2	137
57	Hydrogen Peroxide in Biocatalysis. A Dangerous Liaison. <i>Current Organic Chemistry</i> , 2012, 16, 2652-2672.	1.6	133
58	Effect of the Support Size on the Properties of $\beta$ -Galactosidase Immobilized on Chitosan: Advantages and Disadvantages of Macro and Nanoparticles. <i>Biomacromolecules</i> , 2012, 13, 2456-2464.	5.4	131
59	Encapsulation of crosslinked penicillin G acylase aggregates in lentikats: Evaluation of a novel biocatalyst in organic media. <i>Biotechnology and Bioengineering</i> , 2004, 86, 558-562.	3.3	130
60	Improved performance of lipases immobilized on heterofunctional octyl-glyoxyl agarose beads. <i>RSC Advances</i> , 2015, 5, 11212-11222.	3.6	129
61	Modulation of the enantioselectivity of <i>Candida antarctica</i> B lipase via conformational engineering. Kinetic resolution of $(R,S)$ -hydroxy-phenylacetic acid derivatives. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 1337-1345.	1.8	124
62	Use of immobilized lipases for lipase purification via specific lipase-lipase interactions. <i>Journal of Chromatography A</i> , 2004, 1038, 267-273.	3.7	121
63	Glutaraldehyde Cross-Linking of Lipases Adsorbed on Aminated Supports in the Presence of Detergents Leads to Improved Performance. <i>Biomacromolecules</i> , 2006, 7, 2610-2615.	5.4	121
64	Co-Aggregation of Penicillin G Acylase and Polyionic Polymers: An Easy Methodology To Prepare Enzyme Biocatalysts Stable in Organic Media. <i>Biomacromolecules</i> , 2004, 5, 852-857.	5.4	120
65	Stabilization of multimeric enzymes via immobilization and post-immobilization techniques. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999, 7, 181-189.	1.8	119
66	Self-assembly of <i>Pseudomonas fluorescens</i> lipase into bimolecular aggregates dramatically affects functional properties. <i>Biotechnology and Bioengineering</i> , 2003, 82, 232-237.	3.3	119
67	Evaluation of different lipase biocatalysts in the production of biodiesel from used cooking oil: Critical role of the immobilization support. <i>Fuel</i> , 2017, 200, 1-10.	6.4	118
68	Amination of enzymes to improve biocatalyst performance: coupling genetic modification and physicochemical tools. <i>RSC Advances</i> , 2014, 4, 38350-38374.	3.6	117
69	Effect of immobilization rate and enzyme crowding on enzyme stability under different conditions. The case of lipase from <i>Thermomyces lanuginosus</i> immobilized on octyl agarose beads. <i>Process Biochemistry</i> , 2017, 56, 117-123.	3.7	115
70	Improved stabilization of chemically aminated enzymes via multipoint covalent attachment on glyoxyl supports. <i>Journal of Biotechnology</i> , 2005, 116, 1-10.	3.8	114
71	CLEAs of lipases and poly-ionic polymers: A simple way of preparing stable biocatalysts with improved properties. <i>Enzyme and Microbial Technology</i> , 2006, 39, 750-755.	3.2	114
72	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.	3.2	113

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73	Improved production of biolubricants from soybean oil and different polyols via esterification reaction catalyzed by immobilized lipase from <i>Candida rugosa</i> . <i>Fuel</i> , 2018, 215, 705-713.	6.4	113
74	Stabilization of Penicillin G Acylase from <i>Escherichia coli</i> : Site-Directed Mutagenesis of the Protein Surface To Increase Multipoint Covalent Attachment. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1249-1251.	3.1	111
75	Coating of Soluble and Immobilized Enzymes with Ionic Polymers: Full Stabilization of the Quaternary Structure of Multimeric Enzymes. <i>Biomacromolecules</i> , 2009, 10, 742-747.	5.4	111
76	The immobilization of a thermophilic $\beta$ -galactosidase on Sepabeads supports decreases product inhibition. <i>Enzyme and Microbial Technology</i> , 2003, 33, 199-205.	3.2	110
77	Lipase-lipase interactions as a new tool to immobilize and modulate the lipase properties. <i>Enzyme and Microbial Technology</i> , 2005, 36, 447-454.	3.2	110
78	Specificity enhancement towards hydrophobic substrates by immobilization of lipases by interfacial activation on hydrophobic supports. <i>Enzyme and Microbial Technology</i> , 2007, 41, 565-569.	3.2	109
79	Use of Enzymes in the Production of Semi-Synthetic Penicillins and Cephalosporins: Drawbacks and Perspectives. <i>Current Medicinal Chemistry</i> , 2010, 17, 3855-3873.	2.4	109
80	Dextran aldehyde coating of glucose oxidase immobilized on magnetic nanoparticles prevents its inactivation by gas bubbles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 32, 97-101.	1.8	106
81	Relevance of substrates and products on the desorption of lipases physically adsorbed on hydrophobic supports. <i>Enzyme and Microbial Technology</i> , 2017, 96, 30-35.	3.2	106
82	Ultrasound-assisted butyl acetate synthesis catalyzed by Novozym 435: Enhanced activity and operational stability. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 1155-1160.	8.2	105
83	Characterization of supports activated with divinyl sulfone as a tool to immobilize and stabilize enzymes via multipoint covalent attachment. Application to chymotrypsin. <i>RSC Advances</i> , 2015, 5, 20639-20649.	3.6	104
84	Kinetic resolution of drug intermediates catalyzed by lipase B from <i>Candida antarctica</i> immobilized on Immobead <sup>®</sup> 350. <i>Biotechnology Progress</i> , 2018, 34, 878-889.	2.6	104
85	One-step purification, covalent immobilization, and additional stabilization of poly-His-tagged proteins using novel heterofunctional chelate-epoxy supports. <i>Biotechnology and Bioengineering</i> , 2001, 76, 269-276.	3.3	103
86	Chitosan activated with divinyl sulfone: a new heterofunctional support for enzyme immobilization. Application in the immobilization of lipase B from <i>Candida antarctica</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 130, 798-809.	7.5	103
87	Effects of the combined use of <i>Thermomyces lanuginosus</i> and <i>Rhizomucor miehei</i> lipases for the transesterification and hydrolysis of soybean oil. <i>Process Biochemistry</i> , 2011, 46, 682-688.	3.7	102
88	The combined use of ultrasound and molecular sieves improves the synthesis of ethyl butyrate catalyzed by immobilized <i>Thermomyces lanuginosus</i> lipase. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 89-94.	8.2	102
89	Solid-Phase Chemical Amination of a Lipase from <i>Bacillus thermocatenulatus</i> To Improve Its Stabilization via Covalent Immobilization on Highly Activated Glyoxyl-agarose. <i>Biomacromolecules</i> , 2008, 9, 2553-2561.	5.4	98
90	Modulation of penicillin acylase properties via immobilization techniques: one-pot chemoenzymatic synthesis of cephamandole from cephalosporin C. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001, 11, 2429-2432.	2.2	97

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91	Facile synthesis of artificial enzyme nano-environments via solid-phase chemistry of immobilized derivatives: Dramatic stabilization of penicillin acylase versus organic solvents. <i>Enzyme and Microbial Technology</i> , 1999, 24, 96-103.	3.2	96
92	Solid-Phase Handling of Hydrophobins:Â Immobilized Hydrophobins as a New Tool To Study Lipases. <i>Biomacromolecules</i> , 2003, 4, 204-210.	5.4	96
93	Co-aggregation of Enzymes and Polyethyleneimine:Â A Simple Method To Prepare Stable and Immobilized Derivatives of Glutaryl Acylase. <i>Biomacromolecules</i> , 2005, 6, 1839-1842.	5.4	96
94	Cross-Linked Aggregates of Multimeric Enzymes:Â A Simple and Efficient Methodology To Stabilize Their Quaternary Structure. <i>Biomacromolecules</i> , 2004, 5, 814-817.	5.4	95
95	Modulation of lipase properties in macro-aqueous systems by controlled enzyme immobilization: enantioselective hydrolysis of a chiral ester by immobilized <i>Pseudomonas</i> lipase. <i>Enzyme and Microbial Technology</i> , 2001, 28, 389-396.	3.2	94
96	Improved production of butyl butyrate with lipase from <i>Thermomyces lanuginosus</i> immobilized on styreneâ€divinylbenzene beads. <i>Bioresource Technology</i> , 2013, 134, 417-422.	9.6	94
97	Effect of chemical modification of Novozym 435 on its performance in the alcoholysis of camelina oil. <i>Biochemical Engineering Journal</i> , 2016, 111, 75-86.	3.6	94
98	Comparison of acid, basic and enzymatic catalysis on the production of biodiesel after RSM optimization. <i>Renewable Energy</i> , 2019, 135, 1-9.	8.9	94
99	Structural and Functional Stabilization of L-Asparaginase via Multisubunit Immobilization onto Highly Activated Supports. <i>Biotechnology Progress</i> , 2001, 17, 537-542.	2.6	93
100	Bovine trypsin immobilization on agarose activated with divinylsulfone: Improved activity and stability via multipoint covalent attachment. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 117, 38-44.	1.8	93
101	Development of simple protocols to solve the problems of enzyme coimmobilization. Application to coimmobilize a lipase and a Î²-galactosidase. <i>RSC Advances</i> , 2016, 6, 61707-61715.	3.6	93
102	Evaluation of divinylsulfone activated agarose to immobilize lipases and to tune their catalytic properties. <i>Process Biochemistry</i> , 2015, 50, 918-927.	3.7	91
103	Immobilization of lactase from <i>Kluyveromyces lactis</i> greatly reduces the inhibition promoted by glucose. full hydrolysis of lactose in milk. <i>Biotechnology Progress</i> , 2004, 20, 1259-1262.	2.6	90
104	Stabilization of enzymes by multipoint immobilization of thiolated proteins on new epoxy-thiol supports. <i>Biotechnology and Bioengineering</i> , 2005, 90, 597-605.	3.3	90
105	High stability of immobilized Î²-d-galactosidase for lactose hydrolysis and galactooligosaccharides synthesis. <i>Carbohydrate Polymers</i> , 2013, 95, 465-470.	10.2	90
106	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
107	Easy stabilization of interfacially activated lipases using heterofunctional divinyl sulfone activated-octyl agarose beads. Modulation of the immobilized enzymes by altering their nanoenvironment. <i>Process Biochemistry</i> , 2016, 51, 865-874.	3.7	88
108	Comparison of the immobilization of lipase from <i>Pseudomonas fluorescens</i> on divinylsulfone or p-benzoquinone activated support. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 936-945.	7.5	88



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109	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. Renewable Energy, 2021, 164, 1566-1587.	8.9	88
110	Preparation of a Stable Biocatalyst of Bovine Liver Catalase Using Immobilization and Postimmobilization Techniques. Biotechnology Progress, 2003, 19, 763-767.	2.6	87
111	Preparation of inert magnetic nano-particles for the directed immobilization of antibodies. Biosensors and Bioelectronics, 2005, 20, 1380-1387.	10.1	86
112	Improvement of the stability of alcohol dehydrogenase by covalent immobilization on glyoxyl-agarose. Journal of Biotechnology, 2006, 125, 85-94.	3.8	86
113	Immobilization of Lipase A from Candida antarctica onto Chitosan-Coated Magnetic Nanoparticles. International Journal of Molecular Sciences, 2019, 20, 4018.	4.1	86
114	Enzyme reaction engineering: Synthesis of antibiotics catalysed by stabilized penicillin G acylase in the presence of organic cosolvents. Enzyme and Microbial Technology, 1991, 13, 898-905.	3.2	84
115	Novel Bifunctional Epoxy/Thiol-Reactive Support to Immobilize Thiol Containing Proteins by the Epoxy Chemistry. Biomacromolecules, 2003, 4, 1495-1501.	5.4	84
116	Immobilization of lipases via interfacial activation on hydrophobic supports: Production of biocatalysts libraries by altering the immobilization conditions. Catalysis Today, 2021, 362, 130-140.	4.4	83
117	Reversible and strong immobilization of proteins by ionic exchange on supports coated with sulfate-dextran. Biotechnology Progress, 2004, 20, 1134-1139.	2.6	82
118	Improved catalytic properties of immobilized lipases by the presence of very low concentrations of detergents in the reaction medium. Biotechnology and Bioengineering, 2007, 97, 242-250.	3.3	81
119	Accurel MP 1000 as a support for the immobilization of lipase from Burkholderia cepacia : Application to the kinetic resolution of myo -inositol derivatives. Process Biochemistry, 2015, 50, 1557-1564.	3.7	81
120	Reversible immobilization of a thermophilic $\beta$ -galactosidase via ionic adsorption on PEI-coated Sepabeads. Enzyme and Microbial Technology, 2003, 32, 369-374.	3.2	80
121	Enzyme production of $\alpha$ -gluconic acid and glucose oxidase: successful tales of cascade reactions. Catalysis Science and Technology, 2020, 10, 5740-5771.	4.1	80
122	Use of aqueous two-phase systems for in situ extraction of water soluble antibiotics during their synthesis by enzymes immobilized on porous supports. , 1998, 59, 73-79.		79
123	Stabilizing effects of cations on lipases depend on the immobilization protocol. RSC Advances, 2015, 5, 83868-83875.	3.6	79
124	Design of a lipase-nano particle biocatalysts and its use in the kinetic resolution of medicament precursors. Biochemical Engineering Journal, 2017, 125, 104-115.	3.6	79
125	One-Step Purification, Covalent Immobilization, and Additional Stabilization of a Thermophilic Poly-His-Tagged $\beta$ -Galactosidase from Thermus sp. Strain T2 by using Novel Heterofunctional Chelate-Epoxy Sepabeads. Biomacromolecules, 2003, 4, 107-113.	5.4	78
126	Preparation of a very stable immobilized biocatalyst of glucose oxidase from Aspergillus niger. Journal of Biotechnology, 2006, 121, 284-289.	3.8	78



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127	Biotechnological relevance of the lipase A from <i>Candida antarctica</i> . <i>Catalysis Today</i> , 2021, 362, 141-154.	4.4	78
128	A Novel Heterofunctional Epoxy-Amino Sepabeads for a New Enzyme Immobilization Protocol: Immobilization-Stabilization of $\beta$ -Galactosidase from <i>Aspergillus oryzae</i> . <i>Biotechnology Progress</i> , 2003, 19, 1056-1060.	2.6	77
129	Combi-lipase for heterogeneous substrates: a new approach for hydrolysis of soybean oil using mixtures of biocatalysts. <i>RSC Advances</i> , 2014, 4, 6863-6868.	3.6	77
130	Stabilization of dimeric $\beta$ -glucosidase from <i>Aspergillus niger</i> via glutaraldehyde immobilization under different conditions. <i>Enzyme and Microbial Technology</i> , 2018, 110, 38-45.	3.2	77
131	Effects of Enzyme Loading and Immobilization Conditions on the Catalytic Features of Lipase From <i>Pseudomonas fluorescens</i> Immobilized on Octyl-Agarose Beads. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 36.	4.1	77
132	Biotransformations Catalyzed by Multimeric Enzymes: A Stabilization of Tetrameric Ampicillin Acylase Permits the Optimization of Ampicillin Synthesis under Dissociation Conditions. <i>Biomacromolecules</i> , 2001, 2, 95-104.	5.4	76
133	Design of a core-shell support to improve lipase features by immobilization. <i>RSC Advances</i> , 2016, 6, 62814-62824.	3.6	76
134	Affinity chromatography of polyhistidine tagged enzymes. <i>Journal of Chromatography A</i> , 2001, 915, 97-106.	3.7	75
135	Reversible Immobilization of Invertase on Sepabeads Coated with Polyethyleneimine: Optimization of the Biocatalyst's Stability. <i>Biotechnology Progress</i> , 2002, 18, 1221-1226.	2.6	75
136	Stabilization of a Formate Dehydrogenase by Covalent Immobilization on Highly Activated Glyoxyl-Agarose Supports. <i>Biomacromolecules</i> , 2006, 7, 669-673.	5.4	75
137	Improvement of the functional properties of a thermostable lipase from <i>alcaligenes</i> sp. via strong adsorption on hydrophobic supports. <i>Enzyme and Microbial Technology</i> , 2006, 38, 975-980.	3.2	75
138	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
139	Tuning the catalytic properties of lipases immobilized on divinylsulfone activated agarose by altering its nanoenvironment. <i>Enzyme and Microbial Technology</i> , 2015, 77, 1-7.	3.2	75
140	Optimization of ethyl ester production from olive and palm oils using mixtures of immobilized lipases. <i>Applied Catalysis A: General</i> , 2015, 490, 50-56.	4.3	75
141	Operational stabilities of different chemical derivatives of Novozym 435 in an alcoholysis reaction. <i>Enzyme and Microbial Technology</i> , 2016, 90, 35-44.	3.2	75
142	Use of dextrans as long and hydrophilic spacer arms to improve the performance of immobilized proteins acting on macromolecules. , 1998, 60, 518-523.		74
143	The presence of methanol exerts a strong and complex modulation of the synthesis of different antibiotics by immobilized penicillin G acylase. <i>Enzyme and Microbial Technology</i> , 1998, 23, 305-310.	3.2	74
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