

# Jose M Guisan

## List of Publications by Year in descending order

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457  
papers

24,239  
citations

9786

73  
h-index

13379

130  
g-index

463  
all docs

463  
docs citations

463  
times ranked

11806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of enzyme activity, stability and selectivity via immobilization techniques. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1451-1463.	3.2	2,864
2	A single step purification, immobilization, and hyperactivation of lipases via interfacial adsorption on strongly hydrophobic supports. <i>Biotechnology and Bioengineering</i> , 1998, 58, 486-493.	3.3	469
3	Immobilization of lipases by selective adsorption on hydrophobic supports. <i>Chemistry and Physics of Lipids</i> , 1998, 93, 185-197.	3.2	441
4	Interfacial adsorption of lipases on very hydrophobic support (octadecylâ€“Sepabeads): immobilization, hyperactivation and stabilization of the open form of lipases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 279-286.	1.8	384
5	Different mechanisms of protein immobilization on glutaraldehyde activated supports: Effect of support activation and immobilization conditions. <i>Enzyme and Microbial Technology</i> , 2006, 39, 877-882.	3.2	361
6	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.	3.2	347
7	Increase in conformational stability of enzymes immobilized on epoxy-activated supports by favoring additional multipoint covalent attachment†. <i>Enzyme and Microbial Technology</i> , 2000, 26, 509-515.	3.2	316
8	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
9	Immobilization of enzymes on heterofunctional epoxy supports. <i>Nature Protocols</i> , 2007, 2, 1022-1033.	12.0	269
10	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
11	Enzyme stabilization by glutaraldehyde crosslinking of adsorbed proteins on aminated supports. <i>Journal of Biotechnology</i> , 2005, 119, 70-75.	3.8	259
12	Some special features of glyoxyl supports to immobilize proteins. <i>Enzyme and Microbial Technology</i> , 2005, 37, 456-462.	3.2	257
13	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
14	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
15	Reversible enzyme immobilization via a very strong and nondistorting ionic adsorption on support-polyethylenimine composites. , 2000, 68, 98-105.		225
16	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
17	Effect of the support and experimental conditions in the intensity of the multipoint covalent attachment of proteins on glyoxyl-agarose supports: Correlation between enzymeâ€“support linkages and thermal stability. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1160-1166.	3.2	200
18	Activation of Bacterial Thermoalkalophilic Lipases Is Spurred by Dramatic Structural Rearrangements. <i>Journal of Biological Chemistry</i> , 2009, 284, 4365-4372.	3.4	196

#	ARTICLE	IF	CITATIONS
19	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
20	Advances in the design of new epoxy supports for enzyme immobilization—stabilization. <i>Biochemical Society Transactions</i> , 2007, 35, 1593-1601.	3.4	188
21	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
22	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
23	Strategies for enzyme stabilization by intramolecular crosslinking with bifunctional reagents. <i>Enzyme and Microbial Technology</i> , 1995, 17, 517-523.	3.2	145
24	Immobilization-stabilization of Penicillin G acylase from <i>Escherichia coli</i> . <i>Applied Biochemistry and Biotechnology</i> , 1990, 26, 181-195.	2.9	141
25	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
26	Taking Advantage of Unspecific Interactions to Produce Highly Active Magnetic Nanoparticle—Antibody Conjugates. <i>ACS Nano</i> , 2011, 5, 4521-4528.	14.6	133
27	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
28	Modulation of the enantioselectivity of <i>Candida antarctica</i> B lipase via conformational engineering. Kinetic resolution of ( $\pm$ )-1-hydroxy-phenylacetic acid derivatives. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 1337-1345.	1.8	124
29	Rational Co-immobilization of Bi-Enzyme Cascades on Porous Supports and their Applications in Bio-Redox Reactions with In-Situ Recycling of Soluble Cofactors. <i>ChemCatChem</i> , 2012, 4, 1279-1288.	3.7	123
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	Immobilization of Peroxidase Glycoprotein on Gold Electrodes Modified with Mixed Epoxy-Boronic Acid Monolayers. <i>Journal of the American Chemical Society</i> , 2002, 124, 12845-12853.	13.7	111
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	Immobilization-stabilization of $\beta$ -chymotrypsin by covalent attachment to aldehyde-agarose gels. <i>Biotechnology and Bioengineering</i> , 1991, 38, 1144-1152.	3.3	101
46	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
47	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
48	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
49	Solid-Phase Handling of Hydrophobins: Immobilized Hydrophobins as a New Tool To Study Lipases. <i>Biomacromolecules</i> , 2003, 4, 204-210.	5.4	96
50	Co-aggregation of Enzymes and Polyethyleneimine: A Simple Method To Prepare Stable and Immobilized Derivatives of Glutaryl Acylase. <i>Biomacromolecules</i> , 2005, 6, 1839-1842.	5.4	96
51	Cross-Linked Aggregates of Multimeric Enzymes: A Simple and Efficient Methodology To Stabilize Their Quaternary Structure. <i>Biomacromolecules</i> , 2004, 5, 814-817.	5.4	95
52	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
53	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
54	Improvement of Enzyme Properties with a Two-Step Immobilization Process on Novel Heterofunctional Supports. <i>Biomacromolecules</i> , 2010, 11, 3112-3117.	5.4	93

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55	Immobilization and stabilization of the lipase from <i>Thermomyces lanuginosus</i> : Critical role of chemical amination. <i>Process Biochemistry</i> , 2009, 44, 963-968.	3.7	92
56	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
57	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
58	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
59	Oriented immobilization of antibodies onto sensing platforms - A critical review. <i>Analytica Chimica Acta</i> , 2022, 1189, 338907.	5.4	88
60	Preparation of a Stable Biocatalyst of Bovine Liver Catalase Using Immobilization and Postimmobilization Techniques. <i>Biotechnology Progress</i> , 2003, 19, 763-767.	2.6	87
61	Preparation of inert magnetic nano-particles for the directed immobilization of antibodies. <i>Biosensors and Bioelectronics</i> , 2005, 20, 1380-1387.	10.1	86
62	Improvement of the stability of alcohol dehydrogenase by covalent immobilization on glyoxyl-agarose. <i>Journal of Biotechnology</i> , 2006, 125, 85-94.	3.8	86
63	Enzyme reaction engineering: Synthesis of antibiotics catalysed by stabilized penicillin G acylase in the presence of organic cosolvents. <i>Enzyme and Microbial Technology</i> , 1991, 13, 898-905.	3.2	84
64	Novel Bifunctional Epoxy/Thiol-Reactive Support to Immobilize Thiol Containing Proteins by the Epoxy Chemistry. <i>Biomacromolecules</i> , 2003, 4, 1495-1501.	5.4	84
65	Reversible and strong immobilization of proteins by ionic exchange on supports coated with sulfate-dextran. <i>Biotechnology Progress</i> , 2004, 20, 1134-1139.	2.6	82
66	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.	3.3	81
67	Reversible immobilization of a thermophilic $\beta$ -galactosidase via ionic adsorption on PEI-coated Sepabeads. <i>Enzyme and Microbial Technology</i> , 2003, 32, 369-374.	3.2	80
68	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
69	Optimization of the Production of Enzymatic Biodiesel from Residual Babassu Oil ( <i>Orbignya sp.</i> ) via RSM. <i>Catalysts</i> , 2020, 10, 414.	3.5	79
70	One-Step Purification, Covalent Immobilization, and Additional Stabilization of a Thermophilic Poly-His-Tagged $\beta$ -Galactosidase from <i>Thermus</i> sp. Strain T2 by using Novel Heterofunctional Chelate-Epoxy Sepabeads. <i>Biomacromolecules</i> , 2003, 4, 107-113.	5.4	78
71	Preparation of a very stable immobilized biocatalyst of glucose oxidase from <i>Aspergillus niger</i> . <i>Journal of Biotechnology</i> , 2006, 121, 284-289.	3.8	78
72	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

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73	Biotransformations Catalyzed by Multimeric Enzymes:Â Stabilization of Tetrameric Ampicillin Acylase Permits the Optimization of Ampicillin Synthesis under Dissociation Conditions. <i>Biomacromolecules</i> , 2001, 2, 95-104.	5.4	76
74	Affinity chromatography of polyhistidine tagged enzymes. <i>Journal of Chromatography A</i> , 2001, 915, 97-106.	3.7	75
75	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
76	Stabilization of a Formate Dehydrogenase by Covalent Immobilization on Highly Activated Glyoxyl-Agarose Supports. <i>Biomacromolecules</i> , 2006, 7, 669-673.	5.4	75
77	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
78	A Novel Halophilic Lipase, LipBL, Showing High Efficiency in the Production of Eicosapentaenoic Acid (EPA). <i>PLoS ONE</i> , 2011, 6, e23325.	2.5	75
79	Use of dextrans as long and hydrophilic spacer arms to improve the performance of immobilized proteins acting on macromolecules. , 1998, 60, 518-523.		74
80	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
81	Stabilization of heterodimeric enzyme by multipoint covalent immobilization: Penicillin G acylase from <i>Kluyvera citrophila</i> . <i>Biotechnology and Bioengineering</i> , 1993, 42, 455-464.	3.3	73
82	Immobilization/stabilization of lipase from <i>Candida rugosa</i> . <i>Applied Biochemistry and Biotechnology</i> , 1988, 19, 163-175.	2.9	71
83	Ion exchange using poorly activated supports, an easy way for purification of large proteins. <i>Journal of Chromatography A</i> , 2004, 1034, 155-159.	3.7	70
84	Two step ethanolysis: A simple and efficient way to improve the enzymatic biodiesel synthesis catalyzed by an immobilizedâ€“stabilized lipase from <i>Thermomyces lanuginosus</i> . <i>Process Biochemistry</i> , 2010, 45, 1268-1273.	3.7	70
85	Evaluation of different enzymes as catalysts for the production of $\beta$ -lactam antibiotics following a kinetically controlled strategy. <i>Enzyme and Microbial Technology</i> , 1999, 25, 336-343.	3.2	69
86	Determination of protein-protein interactions through aldehyde-dextran intermolecular cross-linking. <i>Proteomics</i> , 2004, 4, 2602-2607.	2.2	69
87	Preparation of a robust biocatalyst of d-amino acid oxidase on sepabeads supports using the glutaraldehyde crosslinking method. <i>Enzyme and Microbial Technology</i> , 2005, 37, 750-756.	3.2	69
88	Synthesis of antibiotics (cephaloglycin) catalyzed by penicillin G acylase: Evaluation and optimization of different synthetic approaches. <i>Enzyme and Microbial Technology</i> , 1996, 19, 9-14.	3.2	68
89	Prevention of interfacial inactivation of enzymes by coating the enzyme surface with dextran-aldehyde. <i>Journal of Biotechnology</i> , 2004, 110, 201-207.	3.8	68
90	Purification, Immobilization, and Stabilization of a Lipase from <i>Bacillus thermocatenuatus</i> by Interfacial Adsorption on Hydrophobic Supports. <i>Biotechnology Progress</i> , 2008, 20, 630-635.	2.6	68

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91	Hydrolysis of Proteins by Immobilized-Stabilized Alcalase-Glyoxyl Agarose. <i>Biotechnology Progress</i> , 2003, 19, 352-360.	2.6	67
92	Modulation of Immobilized Lipase Enantioselectivity via Chemical Amination. <i>Advanced Synthesis and Catalysis</i> , 2007, 349, 1119-1127.	4.3	66
93	Stabilization of different alcohol oxidases via immobilization and post immobilization techniques. <i>Enzyme and Microbial Technology</i> , 2007, 40, 278-284.	3.2	66
94	Oxidation of phenolic compounds catalyzed by immobilized multi-enzyme systems with integrated hydrogen peroxide production. <i>Green Chemistry</i> , 2014, 16, 303-311.	9.0	66
95	Selective adsorption of poly-His tagged glutaryl acylase on tailor-made metal chelate supports. <i>Journal of Chromatography A</i> , 1999, 848, 61-70.	3.7	65
96	Detecting minimal traces of DNA using DNA covalently attached to superparamagnetic nanoparticles and direct PCR-ELISA. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1574-1580.	10.1	65
97	Evaluation of different immobilization strategies to prepare an industrial biocatalyst of formate dehydrogenase from <i>Candida boidinii</i> . <i>Enzyme and Microbial Technology</i> , 2007, 40, 540-546.	3.2	65
98	Immobilization of <i>Bacillus circulans</i> Î <sup>2</sup> -galactosidase and its application in the synthesis of galacto-oligosaccharides under repeated-batch operation. <i>Biochemical Engineering Journal</i> , 2013, 77, 41-48.	3.6	65
99	Effect of lipase-lipase interactions in the activity, stability and specificity of a lipase from <i>Alcaligenes</i> sp.. <i>Enzyme and Microbial Technology</i> , 2006, 39, 259-264.	3.2	64
100	Use of Physicochemical Tools to Determine the Choice of Optimal Enzyme: Stabilization of -Amino Acid Oxidase. <i>Biotechnology Progress</i> , 2003, 19, 784-788.	2.6	63
101	Synthesis of enantiomerically pure glycidol via a fully enantioselective lipase-catalyzed resolution. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 869-874.	1.8	63
102	Preparation of artificial hyper-hydrophilic micro-environments (polymeric salts) surrounding enzyme molecules. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 295-303.	1.8	62
103	Preparation of new lipases derivatives with high activity-stability in anhydrous media: adsorption on hydrophobic supports plus hydrophilization with polyethylenimine. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 817-824.	1.8	61
104	Regio-selective deprotection of peracetylated sugars via lipase hydrolysis. <i>Tetrahedron</i> , 2003, 59, 5705-5711.	1.9	61
105	Modulation of the distribution of small proteins within porous matrixes by smart-control of the immobilization rate. <i>Journal of Biotechnology</i> , 2011, 155, 412-420.	3.8	61
106	Influence of the enzyme derivative preparation and substrate structure on the enantioselectivity of penicillin G acylase. <i>Enzyme and Microbial Technology</i> , 2002, 31, 88-93.	3.2	59
107	Immobilization and stabilization of glutaryl acylase on aminated sephabeads supports by the glutaraldehyde crosslinking method. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 35, 57-61.	1.8	59
108	Stabilization of enzymes (d-amino acid oxidase) against hydrogen peroxide via immobilization and post-immobilization techniques. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 1999, 7, 173-179.	1.8	58

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109	Glyoxyl agarose as a new chromatographic matrix. <i>Enzyme and Microbial Technology</i> , 2006, 38, 960-966.	3.2	56
110	Heterofunctional supports for the one-step purification, immobilization and stabilization of large multimeric enzymes: Amino-glyoxyl versus amino-epoxy supports. <i>Process Biochemistry</i> , 2010, 45, 1692-1698.	3.7	56
111	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
112	A criterion for the selection of monophasic solvents for enzymatic synthesis. <i>Enzyme and Microbial Technology</i> , 1998, 23, 64-69.	3.2	55
113	Glutaraldehyde modification of lipases adsorbed on aminated supports: A simple way to improve their behaviour as enantioselective biocatalyst. <i>Enzyme and Microbial Technology</i> , 2007, 40, 704-707.	3.2	55
114	Promotion of multipoint covalent immobilization through different regions of genetically modified penicillin G acylase from <i>E. coli</i> . <i>Process Biochemistry</i> , 2010, 45, 390-398.	3.7	55
115	Additional stabilization of penicillin G acylase-agarose derivatives by controlled chemical modification with formaldehyde. <i>Enzyme and Microbial Technology</i> , 1992, 14, 489-495.	3.2	54
116	One-Pot Chemoenzymatic Synthesis of 3-Functionalized Cephalosporines (Cefazolin) by Three Consecutive Biotransformations in Fully Aqueous Medium. <i>Journal of Organic Chemistry</i> , 1997, 62, 9099-9106.	3.2	54
117	Electrostatic and covalent immobilisation of enzymes on ITQ-6 delaminated zeolitic materials. <i>Chemical Communications</i> , 2001, , 419-420.	4.1	54
118	Immobilization and Stabilization of Recombinant Multimeric Uridine and Purine Nucleoside Phosphorylases from <i>Bacillus subtilis</i> . <i>Biomacromolecules</i> , 2004, 5, 2195-2200.	5.4	54
119	Improvement of the enantioselectivity of lipase (fraction B) from <i>Candida antarctica</i> via adsorption on polyethylenimine-agarose under different experimental conditions. <i>Enzyme and Microbial Technology</i> , 2006, 39, 167-171.	3.2	54
120	Carrier-Free Immobilization of Lipase from <i>Candida rugosa</i> with Polyethyleneimines by Carboxyl-Activated Cross-Linking. <i>Biomacromolecules</i> , 2014, 15, 1896-1903.	5.4	54
121	Improved catalytic properties of <i>Candida antarctica</i> lipase B multi-attached on tailor-made hydrophobic silica containing octyl and multifunctional amino-glutaraldehyde spacer arms. <i>Process Biochemistry</i> , 2016, 51, 2055-2066.	3.7	54
122	Purification and stabilization of a glutamate dehydrogenase from <i>Thermus thermophilus</i> via oriented multisubunit plus multipoint covalent immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 58, 158-163.	1.8	53
123	Regioselective monodeprotection of peracetylated carbohydrates. <i>Nature Protocols</i> , 2012, 7, 1783-1796.	12.0	53
124	Advantages of the Pre-Immobilization of Enzymes on Porous Supports for Their Entrapment in Sol-Gels. <i>Biomacromolecules</i> , 2005, 6, 1027-1030.	5.4	51
125	Enhancement of Novozym-435 catalytic properties by physical or chemical modification. <i>Process Biochemistry</i> , 2009, 44, 226-231.	3.7	51
126	Design of an immobilized preparation of catalase from <i>Thermus thermophilus</i> to be used in a wide range of conditions. <i>Enzyme and Microbial Technology</i> , 2003, 33, 278-285.	3.2	50



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127	Design of New Immobilized-Stabilized Carboxypeptidase A Derivative for Production of Aromatic Free Hydrolysates of Proteins. <i>Biotechnology Progress</i> , 2003, 19, 565-574.	2.6	50
128	One-step purification and characterization of an intracellular $\beta$ -glucosidase from <i>Metschnikowia pulcherrima</i> . <i>Biotechnology Letters</i> , 2008, 30, 1469-1475.	2.2	50
129	Covalent Immobilization of Antibodies on Finally Inert Support Surfaces through their Surface Regions Having the Highest Densities in Carboxyl Groups. <i>Biomacromolecules</i> , 2008, 9, 2230-2236.	5.4	50
130	Biocatalyst engineering exerts a dramatic effect on selectivity of hydrolysis catalyzed by immobilized lipases in aqueous medium. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2001, 11, 649-656.	1.8	49
131	Selective oxidation: stabilisation by multipoint attachment of ferredoxin NADP+ reductase, an interesting cofactor recycling enzyme. <i>Journal of Molecular Catalysis A</i> , 1995, 98, 161-169.	4.8	48
132	Optimization of an industrial biocatalyst of glutaryl acylase: Stabilization of the enzyme by multipoint covalent attachment onto new amino-epoxy Sepabeads. <i>Journal of Biotechnology</i> , 2004, 111, 219-227.	3.8	48
133	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.	3.3	48
134	Purification and very strong reversible immobilization of large proteins on anionic exchangers by controlling the support and the immobilization conditions. <i>Enzyme and Microbial Technology</i> , 2006, 39, 909-915.	3.2	48
135	Immobilization and stabilization of an endoxylanase from <i>Bacillus subtilis</i> (XynA) for xylooligosaccharides (XOs) production. <i>Catalysis Today</i> , 2016, 259, 130-139.	4.4	48
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