Jose M Guisan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

456 papers	21,306 citations	70 h-index	122 g-index
463 ext. papers	22,474 ext. citations	4.4 avg, IF	6.57 L-index

#	Paper	IF	Citations
456	Oriented immobilization of antibodies onto sensing platforms - A critical review. *Analytica Chimica Acta*, **2022**, 1189, 338907	6.5	4
455	Enzyme Immobilization Strategies for the design of robust and efficient biocatalysts. *Current Opinion in Green and Sustainable Chemistry*, **2022**, 100593	7.8	1
454	Omega-3 production by fish oil hydrolysis using a lipase from BRM58833 immobilized and stabilized by post-immobilization techniques.. *Biochemistry and Biophysics Reports*, **2022**, 29, 101193	2.1	
453	Dextran-coated nanoparticles as immunosensing platforms: Consideration of polyaldehyde density, nanoparticle size and functionality. *Talanta*, **2022**, 123549	6.1	
452	Capture of enzyme aggregates by covalent immobilization on solid supports. Relevant stabilization of enzymes by aggregation. *Journal of Biotechnology*, **2021**, 325, 138-144	3	5
451	Stabilization of Lecitase Ultra by Immobilization and Fixation of Bimolecular Aggregates. Release of Omega-3 Fatty Acids by Enzymatic Hydrolysis of Krill Oil. *Catalysts*, **2021**, 11, 1067	3.9	0
450	Optimization of theoretical maximal quantity of cells to immobilize on solid supports in the rational design of immobilized derivatives strategy. *World Journal of Microbiology and Biotechnology*, **2021**, 37, 9	4.3	
449	Sugarcane Bagasse Saccharification by Enzymatic Hydrolysis Using Endocellulase and Eglucosidase Immobilized on Different Supports. *Catalysts*, **2021**, 11, 340	3.9	6
448	Oriented immobilization of antibodies through different surface regions containing amino groups: Selective immobilization through the bottom of the Fc region. *International Journal of Biological Macromolecules*, **2021**, 177, 19-28	7.7	7
447	Modeling and Experimental Validation of Algorithms for Maximum Quantity of Protein to be Immobilized on Solid Supports by Electrostatic Adsorption in the Strategy of Rational Design of Immobilized Derivatives. *Protein Journal*, **2021**, 40, 576-588	3.7	
446	Self-sufficient asymmetric reduction of Eketoesters catalysed by a novel and robust thermophilic alcohol dehydrogenase co-immobilised with NADH. *Catalysis Science and Technology*, **2021**, 11, 3217-3230	5.4	5
445	Functionalization of Porous Cellulose with Glyoxyl Groups as a Carrier for Enzyme Immobilization and Stabilization. *Biomacromolecules*, **2021**, 22, 927-937	6.7	6
444	Production of new nanobiocatalysts via immobilization of lipase B from C. antarctica on polyurethane nanosupports for application on food and pharmaceutical industries. *International Journal of Biological Macromolecules*, **2020**, 165, 2957-2963	7.7	9
443	Co-Immobilization and Co-Localization of Oxidases and Catalases: Catalase from Bordetella Pertussis Fused with the Zbasic Domain. *Catalysts*, **2020**, 10, 810	3.9	4
442	Stabilization of Glycosylated EGlucosidase by Intramolecular Crosslinking Between Oxidized Glycosidic Chains and Lysine Residues. *Applied Biochemistry and Biotechnology*, **2020**, 192, 325-337	3.1	3
441	High Stabilization of Enzymes Immobilized on Rigid Hydrophobic Glyoxyl-Supports: Generation of Hydrophilic Environments on Support Surfaces. *Catalysts*, **2020**, 10, 676	3.9	7
440	Ethyl esters production catalyzed by immobilized lipases is influenced by n-hexane and ter-amyl alcohol as organic solvents. *Bioprocess and Biosystems Engineering*, **2020**, 43, 2107-2115	3.7	2

439	High stabilization of immobilized Rhizomucor miehei lipase by additional coating with hydrophilic crosslinked polymers: Poly-allylamine/Aldehyde□dextran. *Process Biochemistry*, **2020**, 92, 156-163	4.7	10
438	Fine Modulation of the Catalytic Properties of Lipase Driven by Different Immobilization Strategies for the Selective Hydrolysis of Fish Oil. *Molecules*, **2020**, 25,	4.7	7
437	Coimmobilization and colocalization of a glycosyltransferase and a sucrose synthase greatly improves the recycling of UDP-glucose: Glycosylation of resveratrol 3-O-□D-glucoside. *International Journal of Biological Macromolecules*, **2020**, 157, 510-521	7.7	15
436	Optimization of the Production of Enzymatic Biodiesel from Residual Babassu Oil (Orbignya sp.) via RSM. *Catalysts*, **2020**, 10, 414	3.9	27
435	A mild intensity of the enzyme-support multi-point attachment promotes the optimal stabilization of mesophilic multimeric enzymes: Amine oxidase from Pisum sativum. *Journal of Biotechnology*, **2020**, 318, 39-44	3	10
434	The Science of Enzyme Immobilization. *Methods in Molecular Biology*, **2020**, 2100, 1-26	1.4	16
433	Stabilization of Multimeric Enzymes via Immobilization and Further Cross-Linking with Aldehyde-Dextran. *Methods in Molecular Biology*, **2020**, 2100, 175-187	1.4	5
432	Co-Immobilization and Co-Localization of Multi-Enzyme Systems on Porous Materials. *Methods in Molecular Biology*, **2020**, 2100, 297-308	1.4	3
431	One-Point Covalent Immobilization of Enzymes on Glyoxyl Agarose with Minimal Physico-Chemical Modification: Immobilized "Native Enzymes". *Methods in Molecular Biology*, **2020**, 2100, 83-92	1.4	3
430	Multi-Point Covalent Immobilization of Enzymes on Glyoxyl Agarose with Minimal Physico-Chemical Modification: Stabilization of Industrial Enzymes. *Methods in Molecular Biology*, **2020**, 2100, 93-107	1.4	6
429	Multi-Point Covalent Immobilization of Enzymes on Supports Activated with Epoxy Groups: Stabilization of Industrial Enzymes. *Methods in Molecular Biology*, **2020**, 2100, 109-117	1.4	6
428	Immobilization of Enzymes on Supports Activated with Glutaraldehyde: A Very Simple Immobilization Protocol. *Methods in Molecular Biology*, **2020**, 2100, 119-127	1.4	2
427	Immobilization of Lipases by Adsorption on Hydrophobic Supports: Modulation of Enzyme Properties in Biotransformations in Anhydrous Media. *Methods in Molecular Biology*, **2020**, 2100, 143-158	1.4	9
426	Intraparticle pH Sensing Within Immobilized Enzymes: Immobilized Yellow Fluorescent Protein as Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Particles. *Methods in Molecular Biology*, **2020**, 2100, 319-333	1.4	
425	Very Strong but Reversible Immobilization of Enzymes on Supports Coated with Ionic Polymers. *Methods in Molecular Biology*, **2020**, 2100, 129-141	1.4	1
424	Immobilization of Enzymes on Hetero-Functional Supports: Physical Adsorption Plus Additional Covalent Immobilization. *Methods in Molecular Biology*, **2020**, 2100, 159-174	1.4	3
423	Functional Characterization and Structural Analysis of NADH Oxidase Mutants from HB27: Role of Residues 166, 174, and 194 in the Catalytic Properties and Thermostability. *Microorganisms*, **2019**, 7,	4.8	2
422	Disulfide Engineered Lipase to Enhance the Catalytic Activity: A Structure-Based Approach on BTL2. *International Journal of Molecular Sciences*, **2019**, 20,	6.1	7

421	Screening and Immobilization of Interfacial Esterases from Marine Invertebrates as Promising Biocatalyst Derivatives. *Applied Biochemistry and Biotechnology*, **2019**, 189, 903-918	3.1	2
420	Synthesis of omega-3 ethyl esters from chia oil catalyzed by polyethylene glycol-modified lipases with improved stability. *Food Chemistry*, **2019**, 271, 433-439	8.3	14
419	Biocatalyst engineering of Thermomyces Lanuginosus lipase adsorbed on hydrophobic supports: Modulation of enzyme properties for ethanolysis of oil in solvent-free systems. *Journal of Biotechnology*, **2019**, 289, 126-134	3	30
418	Thermotolerant lipase from Penicillium sp. section Gracilenta CBMAI 1583: Effect of carbon sources on enzyme production, biochemical properties of crude and purified enzyme and substrate specificity. *Biocatalysis and Agricultural Biotechnology*, **2019**, 17, 15-24	4.1	12
417	One-step Synthesis of □-Keto Acids from Racemic Amino Acids by A Versatile Immobilized Multienzyme Cell-free System. *ChemCatChem*, **2018**, 10, 3002-3011	5.1	19
416	Development of a high efficient biocatalyst by oriented covalent immobilization of a novel recombinant 2PN-deoxyribosyltransferase from Lactobacillus animalis. *Journal of Biotechnology*, **2018**, 270, 39-43	3	11
415	Biobased, Internally pH-Sensitive Materials: Immobilized Yellow Fluorescent Protein as an Optical Sensor for Spatiotemporal Mapping of pH Inside Porous Matrices. *ACS Applied Materials & Interfaces*, **2018**, 10, 6858-6868	9.4	14
414	Co-immobilization of lipases and □d -galactosidase onto magnetic nanoparticle supports: Biochemical characterization. *Molecular Catalysis*, **2018**, 453, 12-21	3.3	17
413	Preparation of a robust immobilized biocatalyst of □1,4-endoxylanase by surface coating with polymers for production of xylooligosaccharides from different xylan sources. *New Biotechnology*, **2018**, 44, 50-58	6.3	13
412	Sequential hydrolysis of commercial casein hydrolysate by immobilized trypsin and thermolysin to produce bioactive phosphopeptides. *Biocatalysis and Biotransformation*, **2018**, 36, 159-171	2.4	14
411	Immobilization and stabilization of commercial □1,4-endoxylanase Depol□33MDP by multipoint covalent attachment for xylan hydrolysis: Production of prebiotics (xylo-oligosaccharides). *Biocatalysis and Biotransformation*, **2018**, 36, 141-150	2.4	13
410	Enzymatic transesterification in a solvent-free system: synthesis of sn-2 docosahexaenoyl monoacylglycerol. *Biocatalysis and Biotransformation*, **2018**, 36, 265-270	2.4	8
409	Highly improved enzymatic peptide synthesis by using biphasic reactors. *Biocatalysis and Biotransformation*, **2018**, 36, 271-278	2.4	3
408	Multiplex environmental pollutant analysis using an array biosensor coated with chimeric hapten-dextran-lipase constructs. *Sensors and Actuators B: Chemical*, **2018**, 257, 256-262	8.3	10
407	Covalent immobilization-stabilization of □1,4-endoxylanases from Trichoderma reesei : Production of xylooligosaccharides. *Process Biochemistry*, **2018**, 64, 170-176	4.7	18
406	Designing continuous flow reaction of xylan hydrolysis for xylooligosaccharides production in packed-bed reactors using xylanase immobilized on methacrylic polymer-based supports. *Bioresource Technology*, **2018**, 266, 249-258	11	27
405	Stabilization of Immobilized Lipases by Intense Intramolecular Cross-Linking of Their Surfaces by Using Aldehyde-Dextran Polymers. *International Journal of Molecular Sciences*, **2018**, 19,	6.1	23
404	Co-localization of oxidase and catalase inside a porous support to improve the elimination of hydrogen peroxide: Oxidation of biogenic amines by amino oxidase from Pisum sativum. *Enzyme and Microbial Technology*, **2018**, 115, 73-80	3.7	17

403	Stabilization of Enzymes by Multipoint Covalent Attachment on Aldehyde-Supports: 2-Picoline Borane as an Alternative Reducing Agent. *Catalysts*, **2018**, 8, 333	3.9	27
402	Influence of different immobilization techniques to improve the enantioselectivity of lipase from Geotrichum candidum applied on the resolution of mandelic acid. *Molecular Catalysis*, **2018**, 458, 89-96	3.3	4
401	Immobilization Effects on the Catalytic Properties of Two Fusarium Verticillioides Lipases: Stability, Hydrolysis, Transesterification and Enantioselectivity Improvement. *Catalysts*, **2018**, 8, 84	3.9	16
400	Stabilization of multimeric sucrose synthase from Acidithiobacillus caldus via immobilization and post-immobilization techniques for synthesis of UDP-glucose. *Applied Microbiology and Biotechnology*, **2018**, 102, 773-787	5.6	21
399	Production of Omegas-6 and 9 from the Hydrolysis of A□□and Buriti Oils by Lipase Immobilized on a Hydrophobic Support. *Molecules*, **2018**, 23,	4.7	10
398	Modulation of the regioselectivity of Thermomyces lanuginosus lipase via biocatalyst engineering for the Ethanolysis of oil in fully anhydrous medium. *BMC Biotechnology*, **2017**, 17, 88	3.4	27
397	Immobilization-stabilization of a complex multimeric sucrose synthase from Nitrosomonas europaea. Synthesis of UDP-glucose. *Enzyme and Microbial Technology*, **2017**, 105, 51-58	3.7	14
396	Immobilization and Stabilization of Beta-Xylosidases from Penicillium janczewskii. *Applied Biochemistry and Biotechnology*, **2017**, 182, 349-366	3.1	6
395	Immobilization of Lipase from Penicillium sp. Section Gracilenta (CBMAI 1583) on Different Hydrophobic Supports: Modulation of Functional Properties. *Molecules*, **2017**, 22,	4.7	13
394	Different Covalent Immobilizations Modulate Lipase Activities of Hypocrea pseudokoningii. *Molecules*, **2017**, 22,	4.7	5
393	Production of omega-3 polyunsaturated fatty acids through hydrolysis of fish oil by Candida rugosa lipase immobilized and stabilized on different supports. *Biocatalysis and Biotransformation*, **2017**, 35, 63-73	2.4	13
392	Rational design and synthesis of affinity matrices based on proteases immobilized onto cellulose membranes. *Preparative Biochemistry and Biotechnology*, **2017**, 47, 745-753	2.4	2
391	Solid-phase amination of Geotrichum candidum lipase: ionic immobilization, stabilization and fish oil hydrolysis for the production of Omega-3 polyunsaturated fatty acids. *European Food Research and Technology*, **2017**, 243, 1375-1384	3.3	7
390	Biosynthesis of an antiviral compound using a stabilized phosphopentomutase by multipoint covalent immobilization. *Journal of Biotechnology*, **2017**, 249, 34-41	3	10
389	Critical Role of Different Immobilized Biocatalysts of a Given Lipase in the Selective Ethanolysis of Sardine Oil. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 117-122	5.5	14
388	□xylosidase from Selenomonas ruminantium: Immobilization, stabilization, and application for xylooligosaccharide hydrolysis. *Biocatalysis and Biotransformation*, **2016**, 34, 161-171	2.4	7
387	Improved catalytic properties of Candida antarctica lipase B multi-attached on tailor-made hydrophobic silica containing octyl and multifunctional amino- glutaraldehyde spacer arms. *Process Biochemistry*, **2016**, 51, 2055-2066	4.7	42
386	Oriented Attachment of Recombinant Proteins to Agarose-Coated Magnetic Nanoparticles by Means of a □Trefoil Lectin Domain. *Bioconjugate Chemistry*, **2016**, 27, 2734-2743	6.1	1

385	Fabrication of heterogeneous biocatalyst tethering artificial prosthetic groups to obtain omega-3-fatty acids by selective hydrolysis of fish oils. *RSC Advances*, **2016**, 6, 97659-97663	3.6	1
384	Enhanced stability of l -lactate dehydrogenase through immobilization engineering. *Process Biochemistry*, **2016**, 51, 1248-1255	4.7	14
383	Improving enantioselectivity of lipase from Candida rugosa by carrier-bound and carrier-free immobilization. *Journal of Molecular Catalysis B: Enzymatic*, **2016**, 130, 32-39		15
382	Synthesis of sn-2 docosahexaenoyl monoacylglycerol by mild enzymatic transesterification of docosahexaenoic acid ethyl ester and glycerol in a solvent-free system. *Cogent Food and Agriculture* , **2016**, 2,	1.7	2
381	Two-Photon Fluorescence Anisotropy Imaging to Elucidate the Dynamics and the Stability of Immobilized Proteins. *Journal of Physical Chemistry B*, **2016**, 120, 485-91	3.3	12
380	Immobilization and stabilization of an endoxylanase from Bacillus subtilis (XynA) for xylooligosaccharides (XOs) production. *Catalysis Today*, **2016**, 259, 130-139	5.2	34
379	Co-immobilization and stabilization of xylanase, β-xylosidase and α-l-arabinofuranosidase from Penicillium janczewskii for arabinoxylan hydrolysis. *Process Biochemistry*, **2016**, 51, 614-623	4.7	10
378	Stabilization by multipoint covalent attachment of a biocatalyst with polygalacturonase activity used for juice clarification. *Food Chemistry*, **2016**, 208, 252-7	8.3	16
377	Hydrolysis and oxidation of racemic esters into prochiral ketones catalyzed by a consortium of immobilized enzymes. *Biochemical Engineering Journal*, **2016**, 112, 136-142	4.2	6
376	Hydrophobic adsorption in ionic medium improves the catalytic properties of lipases applied in the triacylglycerol hydrolysis by synergism. *Bioprocess and Biosystems Engineering*, **2016**, 39, 1933-1943	3.7	14
375	Intense PEGylation of Enzyme Surfaces: Relevant Stabilizing Effects. *Methods in Enzymology*, **2016**, 571, 55-72	1.6	25
374	Stabilization of βGal-3 ATCC 31382 on agarose gels: synthesis of β(1-3) galactosides under sustainable conditions. *RSC Advances*, **2016**, 6, 79554-79562	3.6	2
373	Xylanase and βxylosidase from Penicillium janczewskii : Purification, characterization and hydrolysis of substrates. *Electronic Journal of Biotechnology*, **2016**, 23, 54-62	3.1	29
372	Optimizing the biological activity of Fab fragments by controlling their molecular orientation and spatial distribution across porous hydrogels. *Process Biochemistry*, **2015**, 50, 1565-1571	4.7	4
371	Immobilizing Systems Biocatalysis for the Selective Oxidation of Glycerol Coupled to In Situ Cofactor Recycling and Hydrogen Peroxide Elimination. *ChemCatChem*, **2015**, 7, 1939-1947	5.1	19
370	Enzymatic synthesis of triacylglycerols of docosahexaenoic acid: Transesterification of its ethyl esters with glycerol. *Food Chemistry*, **2015**, 187, 225-9	8.3	25
369	Dramatic hyperactivation of lipase of Thermomyces lanuginosa by a cationic surfactant: Fixation of the hyperactivated form by adsorption on sulfopropyl-sepharose. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 122, 199-203		9
368	Stabilization of the lipase of Hypocrea pseudokoningii by multipoint covalent immobilization after chemical modification and application of the biocatalyst in oil hydrolysis. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 121, 82-89		20

367	Synthesis and modification of polyurethane for immobilization of Thermomyces lanuginosus (TLL) lipase for ethanolysis of fish oil in solvent free system. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 122, 163-169		23
366	Modulation of the activity and selectivity of the immobilized lipases by surfactants and solvents. *Biochemical Engineering Journal*, **2015**, 93, 274-280	4.2	41
365	Preparation of an Immobilized Lipase-Palladium Artificial Metalloenzyme as Catalyst in the Heck Reaction: Role of the Solid Phase. *Advanced Synthesis and Catalysis*, **2015**, 357, 2687-2696	5.5	30
364	Improving Properties of a Novel Galactosidase from Lactobacillus plantarum by Covalent Immobilization. *Molecules*, **2015**, 20, 7874-89	4.7	13
363	Improving the thermostability and optimal temperature of a lipase from the hyperthermophilic archaeon Pyrococcus furiosus by covalent immobilization. *BioMed Research International*, **2015**, 2015, 250532	2.9	15
362	Immobilized lipase from Hypocrea pseudokoningii on hydrophobic and ionic supports: Determination of thermal and organic solvent stabilities for applications in the oleochemical industry. *Process Biochemistry*, **2015**, 50, 561-570	4.7	20
361	Immobilizing Systems Biocatalysis for the Selective Oxidation of Glycerol Coupled to In Situ Cofactor Recycling and Hydrogen Peroxide Elimination. *ChemCatChem*, **2015**, 7, 1884-1884	5.1	
360	Immobilization of Proteins on Glyoxyl Activated Supports: Dramatic Stabilization of Enzymes by Multipoint Covalent Attachment on Pre-Existing Supports. *Current Organic Chemistry*, **2015**, 19, 1-1	1.6	23
359	Useful oriented immobilization of antibodies on chimeric magnetic particles: direct correlation of biomacromolecule orientation with biological activity by AFM studies. *Langmuir*, **2014**, 30, 15022-30	3.9	11
358	Selective Ethanolysis of Fish Oil Catalyzed by Immobilized Lipases. *JAOCS, Journal of the American Oil Chemistsl Society*, **2014**, 91, 63-69	1.8	32
357	Novel support for enzyme immobilization prepared by chemical activation with cysteine and glutaraldehyde. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 102, 218-224		32
356	Immobilization and high stability of an extracellular glucosidase from Aspergillus japonicus by ionic interactions. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 104, 95-100		20
355	Improved purification and enzymatic properties of a mixture of Sticholysin I and II: isotoxins with hemolytic and phospholipase A(2) activities from the sea anemone Stichodactyla helianthus. *Protein Expression and Purification*, **2014**, 95, 57-66	2	5
354	Carrier-free immobilization of lipase from Candida rugosa with polyethyleneimines by carboxyl-activated cross-linking. *Biomacromolecules*, **2014**, 15, 1896-903	6.7	47
353	Oxidation of phenolic compounds catalyzed by immobilized multi-enzyme systems with integrated hydrogen peroxide production. *Green Chemistry*, **2014**, 16, 303-311	9.9	52
352	Purification and improvement of the functional properties of Rhizopus oryzae lipase using immobilization techniques. *Journal of Molecular Catalysis B: Enzymatic*, **2014**, 110, 111-116		6
351	Optical Control of Enzyme Enantioselectivity in Solid Phase. *ACS Catalysis*, **2014**, 4, 1004-1009	12.9	16
350	Site-directing an intense multipoint covalent attachment (MCA) of mutants of the Geobacillus thermocatenulatus lipase 2 (BTL2): Genetic and chemical amination plus immobilization on a tailor-made support. *Process Biochemistry*, **2014**, 49, 1324-1331	4.7	15

349	Selective oxidation of glycerol to 1,3-dihydroxyacetone by covalently immobilized glycerol dehydrogenases with higher stability and lower product inhibition. *Bioresource Technology*, **2014**, 170, 445-453	11	42
348	New opportunities for immobilization of enzymes. *Methods in Molecular Biology*, **2013**, 1051, 1-13	1.4	22
347	Stabilization of enzymes by multipoint covalent immobilization on supports activated with glyoxyl groups. *Methods in Molecular Biology*, **2013**, 1051, 59-71	1.4	29
346	Synthesis of ascorbyl oleate by transesterification of olive oil with ascorbic acid in polar organic media catalyzed by immobilized lipases. *Chemistry and Physics of Lipids*, **2013**, 174, 48-54	3.6	24
345	Immobilization and biochemical properties of a β-xylosidase activated by glucose/xylose from Aspergillus niger USP-67 with transxylosylation activity. *Journal of Molecular Catalysis B: Enzymatic*, **2013**, 89, 93-101		22
344	Continuous production of xylooligosaccharides in a packed bed reactor with immobilized-stabilized biocatalysts of xylanase from Aspergillus versicolor. *Journal of Molecular Catalysis B: Enzymatic*, **2013**, 98, 8-14		27
343	Co-immobilization of fungal endo-xylanase and β-L-arabinofuranosidase in glyoxyl agarose for improved hydrolysis of arabinoxylan. *Journal of Biochemistry*, **2013**, 154, 275-80	3.1	11
342	Production of hesperetin using a covalently multipoint immobilized diglycosidase from Acremonium sp. DSM24697. *Journal of Molecular Microbiology and Biotechnology*, **2013**, 23, 410-7	0.7	7
341	Improving lipase activity by immobilization and post-immobilization strategies. *Methods in Molecular Biology*, **2013**, 1051, 255-73	1.4	8
340	Immobilization and stabilization of a bimolecular aggregate of the lipase from Pseudomonas fluorescens by multipoint covalent attachment. *Process Biochemistry*, **2013**, 48, 118-123	4.7	26
339	Characterization of a tannase from Emericella nidulans immobilized on ionic and covalent supports for propyl gallate synthesis. *Biotechnology Letters*, **2013**, 35, 591-8	2.9	11
338	Preparation of lipase-coated, stabilized, hydrophobic magnetic particles for reversible conjugation of biomacromolecules. *Biomacromolecules*, **2013**, 14, 602-7	6.7	20
337	Immobilization of Bacillus circulans β-galactosidase and its application in the synthesis of galacto-oligosaccharides under repeated-batch operation. *Biochemical Engineering Journal*, **2013**, 77, 41-48	4.2	61
336	Production of xylo-oligosaccharides by immobilized-stabilized derivatives of endo-xylanase from Streptomyces halstedii. *Process Biochemistry*, **2013**, 48, 478-483	4.7	26
335	Dextran-lipase conjugates as tools for low molecular weight ligand immobilization in microarray development. *Analytical Chemistry*, **2013**, 85, 7060-8	7.7	9
334	Immobilisation and stabilisation of β-galactosidase from Kluyveromyces lactis using a glyoxyl support. *International Dairy Journal*, **2013**, 28, 76-82	3.5	15
333	Changes on enantioselectivity of a genetically modified thermophilic lipase by site-directed oriented immobilization. *Journal of Molecular Catalysis B: Enzymatic*, **2013**, 87, 121-127		19
332	Tips for the functionalization of nanoparticles with antibodies. *Methods in Molecular Biology*, **2013**, 1051, 149-63	1.4	12

331	Oxidation of phenyl compounds using strongly stable immobilized-stabilized laccase from Trametes versicolor. *Process Biochemistry*, **2013**, 48, 1174-1180	4.7	31
330	Engineering the substrate specificity of a thermophilic penicillin acylase from thermus thermophilus. *Applied and Environmental Microbiology*, **2013**, 79, 1555-62	4.6	11
329	Glutaraldehyde-mediated protein immobilization. *Methods in Molecular Biology*, **2013**, 1051, 33-41	1.4	17
328	Immobilization of enzymes on monofunctional and heterofunctional epoxy-activated supports. *Methods in Molecular Biology*, **2013**, 1051, 43-57	1.4	9
327	Oriented covalent immobilization of enzymes on heterofunctional-glyoxyl supports. *Methods in Molecular Biology*, **2013**, 1051, 73-88	1.4	8
326	Partial purification, immobilization and preliminary biochemical characterization of lipases from Rhizomucor pusillus. *Advances in Enzyme Research*, **2013**, 01, 79-90	0.6	3
325	Novel enzyme-polymer conjugates for biotechnological applications. *PeerJ*, **2013**, 1, e27	3.1	11
324	Regioselective monodeprotection of peracetylated carbohydrates. *Nature Protocols*, **2012**, 7, 1783-96	18.1	45
323	Tailor-made design of penicillin G acylase surface enables its site-directed immobilization and stabilization onto commercial mono-functional epoxy supports. *Process Biochemistry*, **2012**, 47, 2538-2541	4.7	21
322	Improvement of fungal arabinofuranosidase thermal stability by reversible immobilization. *Process Biochemistry*, **2012**, 47, 2411-2417	4.7	10
321	Oriented covalent immobilization of antibodies onto heterofunctional agarose supports: a highly efficient immuno-affinity chromatography platform. *Journal of Chromatography A*, **2012**, 1262, 56-63	4.3	28
320	Rational Co-Immobilization of Bi-Enzyme Cascades on Porous Supports and their Applications in Bio-Redox Reactions with In Situ Recycling of Soluble Cofactors. *ChemCatChem*, **2012**, 4, 1279-1288	5.1	96
319	Characterization and further stabilization of a new anti-prelog specific alcohol dehydrogenase from Thermus thermophilus HB27 for asymmetric reduction of carbonyl compounds. *Bioresource Technology*, **2012**, 103, 343-50	11	36
318	Reactivation of penicillin acylase biocatalysts: Effect of the intensity of enzyme–support attachment and enzyme load. *Journal of Molecular Catalysis B: Enzymatic*, **2012**, 74, 224-229		33
317	Immobilization of a recombinant endo-1,5-arabinanase secreted by Aspergillus nidulans strain A773. *Journal of Molecular Catalysis B: Enzymatic*, **2012**,		1
316	Influence of different immobilization techniques for Candida cylindracea lipase on its stability and fish oil hydrolysis. *Journal of Molecular Catalysis B: Enzymatic*, **2012**, 78, 111-118		51
315	Stabilization of a highly active but unstable alcohol dehydrogenase from yeast using immobilization and post-immobilization techniques. *Process Biochemistry*, **2012**, 47, 679-686	4.7	36
314	Modulation of the Selectivity of Immobilized Lipases by Chemical and Physical Modifications: Release of Omega-3 Fatty Acids from Fish Oil. *JAOCS, Journal of the American Oil Chemistsl Society*, **2012**, 89, 97-102	1.8	29

313	Semisynthetic peptide-lipase conjugates for improved biotransformations. *Chemical Communications*, **2012**, 48, 9053-5	5.7	26
312	Altering the interfacial activation mechanism of a lipase by solid-phase selective chemical modification. *Biochemistry*, **2012**, 51, 7028-36	3.1	17
311	Different strategies for hyperactivation of lipase biocatalysts. *Methods in Molecular Biology*, **2012**, 861, 329-41	1.4	7
310	Glucosidase immobilized and stabilized on agarose matrix functionalized with distinct reactive groups. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 69, 47-53		30
309	Medium engineering on modified Geobacillus thermocatenulatus lipase to prepare highly active catalysts. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 70, 144-148		18
308	Enzyme Surface Glycosylation in the Solid Phase: Improved Activity and Selectivity of Candida Antarctica Lipase B. *ChemCatChem*, **2011**, 3, 1902-1910	5.1	26
307	trans,trans-2,4-Hexadiene incorporation on enzymes for site-specific immobilization and fluorescent labeling. *Organic and Biomolecular Chemistry*, **2011**, 9, 5535-40	3.8	18
306	Kinetically controlled synthesis of monoglyceryl esters from chiral and prochiral acids methyl esters catalyzed by immobilized Rhizomucor miehei lipase. *Bioresource Technology*, **2011**, 102, 507-12	11	23
305	Cross-Linking of Lipases Adsorbed on Hydrophobic Supports: Highly Selective Hydrolysis of Fish Oil Catalyzed by RML. *JAOCS, Journal of the American Oil Chemistsl Society*, **2011**, 88, 801-807	1.8	42
304	Hydrolysis of Fish Oil by Lipases Immobilized Inside Porous Supports. *JAOCS, Journal of the American Oil Chemistsl Society*, **2011**, 88, 819-826	1.8	28
303	Release of Omega-3 Fatty Acids by the Hydrolysis of Fish Oil Catalyzed by Lipases Immobilized on Hydrophobic Supports. *JAOCS, Journal of the American Oil Chemistsl Society*, **2011**, 88, 1173-1178	1.8	34
302	New biotechnological perspectives of a NADH oxidase variant from Thermus thermophilus HB27 as NAD+-recycling enzyme. *BMC Biotechnology*, **2011**, 11, 101	3.4	35
301	Regioselective Deprotection of Peracetylated Disaccharides at the Primary Position Catalyzed by Immobilized Acetyl Xylan Esterase from Bacillus pumilus. *European Journal of Organic Chemistry*, **2011**, 2011, 6181-6185	3.1	12
300	Protein hydrolysis by immobilized and stabilized trypsin. *Biotechnology Progress*, **2011**, 27, 677-83	2.8	15
299	Purification, immobilization, and characterization of a specific lipase from Staphylococcus warneri EX17 by enzyme fractionating via adsorption on different hydrophobic supports. *Biotechnology Progress*, **2011**, 27, 717-23	2.8	10
298	Hydrolysis of fish oil by hyperactivated Rhizomucor miehei lipase immobilized by multipoint anion exchange. *Biotechnology Progress*, **2011**, 27, 961-8	2.8	20
297	Reactivation of a thermostable lipase by solid phase unfolding/refolding effect of cysteine residues on refolding efficiency. *Enzyme and Microbial Technology*, **2011**, 49, 388-94	3.7	10
296	Full enzymatic hydrolysis of commercial sucrose laurate by immobilized-stabilized derivatives of lipase from Thermomyces lanuginosa. *Colloids and Surfaces B: Biointerfaces*, **2011**, 84, 556-60	5.8	7

295	Synthesis of propyl gallate by transesterification of tannic acid in aqueous media catalysed by immobilised derivatives of tannase from Lactobacillus plantarum. *Food Chemistry*, **2011**, 128, 214-7	8.3	24
294	Immobilization–stabilization of glucoamylase: Chemical modification of the enzyme surface followed by covalent attachment on highly activated glyoxyl-agarose supports. *Process Biochemistry*, **2011**, 46, 409-412	4.7	27
293	Oriented irreversible immobilization of a glycosylated Candida antarctica B lipase on heterofunctional organoborane-aldehyde support. *Catalysis Science and Technology*, **2011**, 1, 260	5.4	15
292	Glyoxyl-disulfide agarose: a tailor-made support for site-directed rigidification of proteins. *Biomacromolecules*, **2011**, 12, 1800-9	6.7	38
291	A novel halophilic lipase, LipBL, showing high efficiency in the production of eicosapentaenoic acid (EPA). *PLoS ONE*, **2011**, 6, e23325	3.6	63
290	Taking advantage of unspecific interactions to produce highly active magnetic nanoparticle-antibody conjugates. *ACS Nano*, **2011**, 5, 4521-8	16.4	114
289	Modulation of the distribution of small proteins within porous matrixes by smart-control of the immobilization rate. *Journal of Biotechnology*, **2011**, 155, 412-20	3	48
288	Improvement of enzyme properties with a two-step immobilizaton process on novel heterofunctional supports. *Biomacromolecules*, **2010**, 11, 3112-7	6.7	81
287	Highly enantioselective biocatalysts by coating immobilized lipases with polyethyleneimine. *Catalysis Communications*, **2010**, 11, 964-967	3.1	29
286	Hydrolysis of tannic acid catalyzed by immobilized-stabilized derivatives of Tannase from Lactobacillus plantarum. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 6403-9	5.5	28
285	Effect of ionic liquids as additives in the catalytic properties of different immobilized preparations of Rhizomucor miehei lipase in the hydrolysis of peracetylated lactal. *Green Chemistry*, **2010**, 12, 1365	9.9	15
284	Complete reactivation of immobilized derivatives of a trimeric glutamate dehydrogenase from Thermus thermophillus. *Process Biochemistry*, **2010**, 45, 107-113	4.7	21
283	Promotion of multipoint covalent immobilization through different regions of genetically modified penicillin G acylase from E. coli. *Process Biochemistry*, **2010**, 45, 390-398	4.7	47
282	Enhanced activity of an immobilized lipase promoted by site-directed chemical modification with polymers. *Process Biochemistry*, **2010**, 45, 534-541	4.7	38
281	Two step ethanolysis: A simple and efficient way to improve the enzymatic biodiesel synthesis catalyzed by an immobilized–stabilized lipase from Thermomyces lanuginosus. *Process Biochemistry* , **2010**, 45, 1268-1273	4.7	62
280	Heterofunctional supports for the one-step purification, immobilization and stabilization of large multimeric enzymes: Amino-glyoxyl versus amino-epoxy supports. *Process Biochemistry*, **2010**, 45, 1692-1698	4.7	47
279	Single-step purification of different lipases from Staphylococcus warneri. *Journal of Chromatography A*, **2010**, 1217, 473-8	4.3	21
278	Selective adsorption of small proteins on large-pore anion exchangers coated with medium size proteins. *Colloids and Surfaces B: Biointerfaces*, **2010**, 78, 140-5	5.8	13

277	Activation of bacterial thermoalkalophilic lipases is spurred by dramatic structural rearrangements. *Journal of Biological Chemistry*, **2009**, 284, 4365-72	5	163
276	Different derivatives of a lipase display different regioselectivity in the monohydrolysis of per-O-acetylated 1-O-substituted-β-galactopyranosides. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 58, 36-40		17
275	Purification and stabilization of a glutamate dehygrogenase from Thermus thermophilus via oriented multisubunit plus multipoint covalent immobilization. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 58, 158-163		49
274	Modulation of a lipase from Staphylococcus warneri EX17 using immobilization techniques. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 60, 125-132		18
273	Lipase-Catalyzed Regioselective One-Step Synthesis of Penta-O-acetyl-3-hydroxylactal. *European Journal of Organic Chemistry*, **2009**, 2009, 3327-3329	3.1	10
272	Simple strategy of reactivation of a partially inactivated penicillin g acylase biocatalyst in organic solvent and its impact on the synthesis of beta-lactam antibiotics. *Biotechnology and Bioengineering* , **2009**, 103, 472-9	4.7	16
271	Purification, immobilization and stabilization of a highly enantioselective alcohol dehydrogenase from Thermus thermophilus HB27 cloned in E. coli. *Process Biochemistry*, **2009**, 44, 1004-1012	4.7	26
270	Separation and immobilization of lipase from Penicillium simplicissimum by selective adsorption on hydrophobic supports. *Applied Biochemistry and Biotechnology*, **2009**, 156, 133-45	3.1	24
269	Novozym 435 displays very different selectivity compared to lipase from Candida antarctica B adsorbed on other hydrophobic supports. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 57, 171-176		145
268	Comparison of reversible and irreversible immobilization methods of cellobiase on agarose matrix. *New Biotechnology*, **2009**, 25, S169	6.3	
267	Positive effects of the multipoint covalent immobilization in the reactivation of partially inactivated derivatives of lipase from Thermomyces lanuginosus. *Enzyme and Microbial Technology*, **2009**, 44, 386-393	3.7	29
266	The presence of thiolated compounds allows the immobilization of enzymes on glyoxyl agarose at mild pH values: New strategies of stabilization by multipoint covalent attachment. *Enzyme and Microbial Technology*, **2009**, 45, 477-483	3.7	41
265	Improved reactivation of immobilized-stabilized lipase from Thermomyces lanuginosus by its coating with highly hydrophilic polymers. *Journal of Biotechnology*, **2009**, 144, 113-9	3	25
264	Enhancement of Novozym-435 catalytic properties by physical or chemical modification. *Process Biochemistry*, **2009**, 44, 226-231	4.7	43
263	Immobilization of antibodies through the surface regions having the highest density in lysine groups on finally inert support surfaces. *Process Biochemistry*, **2009**, 44, 365-368	4.7	13
262	Reactivation of covalently immobilized lipase from Thermomyces lanuginosus. *Process Biochemistry* , **2009**, 44, 641-646	4.7	30
261	The co-operative effect of physical and covalent protein adsorption on heterofunctional supports. *Process Biochemistry*, **2009**, 44, 757-763	4.7	37
260	Immobilization–stabilization of the lipase from Thermomyces lanuginosus: Critical role of chemical amination. *Process Biochemistry*, **2009**, 44, 963-968	4.7	86

259	Chemo-biocatalytic regioselective one-pot synthesis of different deprotected monosaccharides. *Catalysis Today*, **2009**, 140, 11-18	5.2	30
258	The adsorption of multimeric enzymes on very lowly activated supports involves more enzyme subunits: Stabilization of a glutamate dehydrogenase from Thermus thermophilus by immobilization on heterofunctional supports. *Enzyme and Microbial Technology*, **2009**, 44, 139-144	3.7	38
257	Coating of soluble and immobilized enzymes with ionic polymers: full stabilization of the quaternary structure of multimeric enzymes. *Biomacromolecules*, **2009**, 10, 742-7	6.7	98
256	Stabilization of the quaternary structure of a hexameric alpha-galactosidase from Thermus sp. T2 by immobilization and post-immobilization techniques. *Process Biochemistry*, **2008**, 43, 193-198	4.7	26
255	Interfacially activated lipases against hydrophobic supports: Effect of the support nature on the biocatalytic properties. *Process Biochemistry*, **2008**, 43, 1061-1067	4.7	164
254	Immobilization-stabilization of a new recombinant glutamate dehydrogenase from Thermus thermophilus. *Applied Microbiology and Biotechnology*, **2008**, 80, 49-58	5.6	40
253	Immobilization of Yarrowia lipolytica lipase--a comparison of stability of physical adsorption and covalent attachment techniques. *Applied Biochemistry and Biotechnology*, **2008**, 146, 49-56	3.1	36
252	One-step purification and characterization of an intracellular beta-glucosidase from Metschnikowia pulcherrima. *Biotechnology Letters*, **2008**, 30, 1469-75	2.9	37
251	Influence of mass transfer limitations on the enzymatic synthesis of beta-lactam antibiotics catalyzed by penicillin G acylase immobilized on glioxil-agarose. *Bioprocess and Biosystems Engineering*, **2008**, 31, 411-8	3.7	15
250	Crystallization and preliminary X-ray diffraction studies of the BTL2 lipase from the extremophilic microorganism Bacillus thermocatenulatus. *Acta Crystallographica Section F: Structural Biology Communications*, **2008**, 64, 1043-5		7
249	Reversible immobilization of a hexameric β-galactosidase from Thermus sp. strain T2 on polymeric ionic exchangers. *Process Biochemistry*, **2008**, 43, 1142-1146	4.7	24
248	Immobilization of the acylase from Escherichia coli on glyoxyl-agarose gives efficient catalyst for the synthesis of cephalosporins. *Enzyme and Microbial Technology*, **2008**, 42, 121-9	3.7	26
247	Asymmetric hydrolysis of dimethyl 3-phenylglutarate catalyzed by Lecitase Ultra® . *Enzyme and Microbial Technology*, **2008**, 43, 531-536	3.7	18
246	Preparation of linear oligosaccharides by a simple monoprotective chemo-enzymatic approach. *Tetrahedron*, **2008**, 64, 9286-9292	2.3	21
245	Regioselective monohydrolysis of per-O-acetylated-1-substituted-β-glucopyranosides catalyzed by immobilized lipases. *Tetrahedron*, **2008**, 64, 10721-10727	2.3	19
244	Immobilization–stabilization of an β-galactosidase from Thermus sp. strain T2 by covalent immobilization on highly activated supports: Selection of the optimal immobilization strategy. *Enzyme and Microbial Technology*, **2008**, 42, 265-271	3.7	28
243	Polyethyleneimine (PEI) functionalized ceramic monoliths as enzyme carriers: Preparation and performance. *Journal of Molecular Catalysis B: Enzymatic*, **2008**, 50, 20-27		42
242	A chemo-biocatalytic approach in the synthesis of β-O-naphtylmethyl-N-peracetylated lactosamine. *Journal of Molecular Catalysis B: Enzymatic*, **2008**, 52-53, 106-112		14

241	Lecitase® ultra as regioselective biocatalyst in the hydrolysis of fully protected carbohydrates. *Journal of Molecular Catalysis B: Enzymatic*, **2008**, 51, 110-117		42
240	Preparation of an immobilized-stabilized catalase derivative from Aspergillus niger having its multimeric structure stabilized: The effect of Zn2+ on enzyme stability. *Journal of Molecular Catalysis B: Enzymatic*, **2008**, 55, 142-145		13
239	Covalent immobilization of antibodies on finally inert support surfaces through their surface regions having the highest densities in carboxyl groups. *Biomacromolecules*, **2008**, 9, 2230-6	6.7	41
238	Study Cases of Enzymatic Processes **2008**, 253-378		3
237	Solid-phase chemical amination of a lipase from Bacillus thermocatenulatus to improve its stabilization via covalent immobilization on highly activated glyoxyl-agarose. *Biomacromolecules*, **2008**, 9, 2553-61	6.7	87
236	Oriented covalent immobilization of antibodies on physically inert and hydrophilic support surfaces through their glycosidic chains. *Biomacromolecules*, **2008**, 9, 719-23	6.7	18
235	Stabilization of an Amylase from Neurospora crassa by Immobilization on Highly Activated Supports. *Food Biotechnology*, **2008**, 22, 262-275	2.1	3
234	Heterogeneous Enzyme Kinetics **2008**, 155-203		13
233	Production of a Thermoresistant Alpha-galactosidase from Thermus sp. Strain T2 for Food Processing. *Food Biotechnology*, **2007**, 21, 91-103	2.1	11
232	Genetic modification of the penicillin G acylase surface to improve its reversible immobilization on ionic exchangers. *Applied and Environmental Microbiology*, **2007**, 73, 312-9	4.6	37
231	Partial purification and immobilization/stabilization on highly activated glyoxyl-agarose supports of different proteases from flavourzyme. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 6503-8	5.5	7
230	Mixed ion exchange supports as useful ion exchangers for protein purification: purification of penicillin G acylase from Escherichia coli. *Biomacromolecules*, **2007**, 8, 703-7	6.7	36
229	Optical fibre biosensors using enzymatic transducers to monitor glucose. *Measurement Science and Technology*, **2007**, 18, 3177-3186	1.9	22
228	Advances in the design of new epoxy supports for enzyme immobilization-stabilization. *Biochemical Society Transactions*, **2007**, 35, 1593-601	5	165
227	Improved catalytic properties of immobilized lipases by the presence of very low concentrations of detergents in the reaction medium. *Biotechnology and Bioengineering*, **2007**, 97, 242-50	4.7	78
226	Improved Stabilization of Genetically Modified Penicillin G Acylase in the Presence of Organic Cosolvents by Co- Immobilization of the Enzyme with Polyethyleneimine. *Advanced Synthesis and Catalysis*, **2007**, 349, 459-464	5.5	29
225	Modulation of Immobilized Lipase Enantioselectivity via Chemical Amination. *Advanced Synthesis and Catalysis*, **2007**, 349, 1119-1127	5.5	59
224	Regioselective Hydrolysis of Different Peracetylated Monosaccharides by Immobilized Lipases from Different Sources. Key Role of The Immobilization. *Advanced Synthesis and Catalysis*, **2007**, 349, 1969-1976	5.5	40

223	Preparation of a very stable immobilized Solanum tuberosum epoxide hydrolase. *Tetrahedron: Asymmetry*, **2007**, 18, 1233-1238		18
222	Modulation of the catalytic properties of multimeric β-galactosidase from E. coli by using different immobilization protocols. *Enzyme and Microbial Technology*, **2007**, 40, 310-315	3.7	36
221	Selective adsorption of large proteins on highly activated IMAC supports in the presence of high imidazole concentrations: Purification, reversible immobilization and stabilization of thermophilic β- and α-galactosidases. *Enzyme and Microbial Technology*, **2007**, 40, 242-248	3.7	28
220	Stabilization of different alcohol oxidases via immobilization and post immobilization techniques. *Enzyme and Microbial Technology*, **2007**, 40, 278-284	3.7	62
219	Evaluation of different immobilization strategies to prepare an industrial biocatalyst of formate dehydrogenase from Candida boidinii. *Enzyme and Microbial Technology*, **2007**, 40, 540-546	3.7	54
218	Glutaraldehyde modification of lipases adsorbed on aminated supports: A simple way to improve their behaviour as enantioselective biocatalyst. *Enzyme and Microbial Technology*, **2007**, 40, 704-707	3.7	52
217	Effect of the support and experimental conditions in the intensity of the multipoint covalent attachment of proteins on glyoxyl-agarose supports: Correlation between enzyme-support linkages and thermal stability. *Enzyme and Microbial Technology*, **2007**, 40, 1160-1166	3.7	175
216	Partial and enantioselective hydrolysis of diethyl phenylmalonate by immobilized preparations of lipase from Thermomyces lanuginose. *Enzyme and Microbial Technology*, **2007**, 40, 1280-1285	3.7	27
215	Improvement of enzyme activity, stability and selectivity via immobilization techniques. *Enzyme and Microbial Technology*, **2007**, 40, 1451-1463	3.7	2476
214	Asymmetric hydrolysis of dimethyl phenylmalonate by immobilized penicillin G acylase from E. coli. *Enzyme and Microbial Technology*, **2007**, 40, 997-1000	3.7	8
213	Specificity enhancement towards hydrophobic substrates by immobilization of lipases by interfacial activation on hydrophobic supports. *Enzyme and Microbial Technology*, **2007**, 41, 565-569	3.7	98
212	Solid phase proteomics: dramatic reinforcement of very weak protein-protein interactions. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2007**, 849, 243-50	3.1	21
211	Immobilization of enzymes on heterofunctional epoxy supports. *Nature Protocols*, **2007**, 2, 1022-33	18.1	228
210	Effect of the immobilization protocol in the activity, stability, and enantioslectivity of Lecitase® Ultra. *Journal of Molecular Catalysis B: Enzymatic*, **2007**, 47, 99-104		40
209	Screening of lipases for regioselective hydrolysis of peracetylated β-monosaccharides. *Journal of Molecular Catalysis B: Enzymatic*, **2007**, 49, 12-17		12
208	Enzymatic synthesis of cephalosporins. The immobilized acylase from Arthrobacter viscosus: a new useful biocatalyst. *Applied Microbiology and Biotechnology*, **2007**, 77, 579-87	5.6	17
207	Immobilization of Yarrowia lipolytica Lipase: A Comparison of Stability of Physical Adsorption and Covalent Attachment Techniques **2007**, 169-176		2
206	Simple purification of immunoglobulins from whey proteins concentrate. *Biotechnology Progress*, **2006**, 22, 590-4	2.8	16

205	Immobilization and stabilization of a cyclodextrin glycosyltransferase by covalent attachment on highly activated glyoxyl-agarose supports. *Biotechnology Progress*, **2006**, 22, 1140-5	2.8	33
204	Unusual enzymatic resolution of (±)-glycidyl-butyrate for the production of (S)-glycidyl derivatives. *Enzyme and Microbial Technology*, **2006**, 38, 429-435	3.7	17
203	Glyoxyl agarose: A fully inert and hydrophilic support for immobilization and high stabilization of proteins. *Enzyme and Microbial Technology*, **2006**, 39, 274-280	3.7	320
202	Use of polyvalent cations to improve the adsorption strength between adsorbed enzymes and supports coated with dextran sulfate. *Enzyme and Microbial Technology*, **2006**, 39, 332-336	3.7	5
201	Supports coated with PEI as a new tool in chromatography. *Enzyme and Microbial Technology*, **2006**, 39, 711-716	3.7	20
200	CLEAs of lipases and poly-ionic polymers: A simple way of preparing stable biocatalysts with improved properties. *Enzyme and Microbial Technology*, **2006**, 39, 750-755	3.7	103
199	Purification and identification of different lipases contained in PPL commercial extracts: A minor contaminant is the main responsible of most esterasic activity. *Enzyme and Microbial Technology*, **2006**, 39, 817-823	3.7	34
198	Purification and very strong reversible immobilization of large proteins on anionic exchangers by controlling the support and the immobilization conditions. *Enzyme and Microbial Technology*, **2006**, 39, 909-915	3.7	46
197	Improvement of the enantioselectivity of lipase (fraction B) from Candida antarctica via adsorpiton on polyethylenimine-agarose under different experimental conditions. *Enzyme and Microbial Technology*, **2006**, 39, 167-171	3.7	49
196	Detecting minimal traces of DNA using DNA covalently attached to superparamagnetic nanoparticles and direct PCR-ELISA. *Biosensors and Bioelectronics*, **2006**, 21, 1574-80	11.6	57
195	Improvement of the functional properties of a thermostable lipase from alcaligenes sp. via strong adsorption on hydrophobic supports. *Enzyme and Microbial Technology*, **2006**, 38, 975-980	3.7	71
194	Glyoxyl agarose as a new chromatographic matrix. *Enzyme and Microbial Technology*, **2006**, 38, 960-966	3.7	47
193	Effect of lipase□lipase interactions in the activity, stability and specificity of a lipase from Alcaligenes sp.. *Enzyme and Microbial Technology*, **2006**, 39, 259-264	3.7	57
192	Different mechanisms of protein immobilization on glutaraldehyde activated supports: Effect of support activation and immobilization conditions. *Enzyme and Microbial Technology*, **2006**, 39, 877-882	3.7	319
191	Glutaraldehyde in Protein Immobilization. *Methods in Biotechnology*, **2006**, 57-64		11
190	Crosslinked penicillin acylase aggregates for synthesis of beta-lactam antibiotics in organic medium. *Applied Biochemistry and Biotechnology*, **2006**, 133, 189-202	3.1	43
189	Preparation of a very stable immobilized biocatalyst of glucose oxidase from Aspergillus niger. *Journal of Biotechnology*, **2006**, 121, 284-9	3	70
188	Improvement of the stability of alcohol dehydrogenase by covalent immobilization on glyoxyl-agarose. *Journal of Biotechnology*, **2006**, 125, 85-94	3	76

187	Adsorption behavior of bovine serum albumin on lowly activated anionic exchangers suggests a new strategy for solid-phase proteomics. *Biomacromolecules*, **2006**, 7, 1357-61	6.7	15
186	Purification, Immobilization, Hyperactivation, and Stabilization of Lipases by Selective Adsorption on Hydrophobic Supports. *Methods in Biotechnology*, **2006**, 143-152		3
185	Detection of polyclonal antibody against any area of the protein-antigen using immobilized protein-antigens: the critical role of the immobilization protocol. *Biomacromolecules*, **2006**, 7, 540-4	6.7	21
184	Very Strong But Reversible Immobilization of Enzymes on Supports Coated With Ionic Polymers. *Methods in Biotechnology*, **2006**, 205-216		6
183	Immobilization of Enzymes as the 21st Century Begins. *Methods in Biotechnology*, **2006**, 1-13		25
182	One-Step Purification, Immobilization, and Stabilization of Poly-Histidine-Tagged Enzymes Using Metal Chelate-Epoxy Supports. *Methods in Biotechnology*, **2006**, 117-128		2
181	Stabilization of Multimeric Enzymes Via Immobilization and Further Cross-Linking With Aldehyde-Dextran. *Methods in Biotechnology*, **2006**, 129-141		4
180	Stabilization of a formate dehydrogenase by covalent immobilization on highly activated glyoxyl-agarose supports. *Biomacromolecules*, **2006**, 7, 669-73	6.7	68
179	Glutaraldehyde cross-linking of lipases adsorbed on aminated supports in the presence of detergents leads to improved performance. *Biomacromolecules*, **2006**, 7, 2610-5	6.7	113
178	Chemical modification of protein surfaces to improve their reversible enzyme immobilization on ionic exchangers. *Biomacromolecules*, **2006**, 7, 3052-8	6.7	42
177	Immobilization and Stabilization of Proteins by Multipoint Covalent Attachment on Novel Amino-Epoxy-Sepabeads . *Methods in Biotechnology*, **2006**, 153-162		1
176	Improved Stabilization of Chemically Aminated Enzymes Via Multipoint Covalent Attachment on Glyoxyl Supports. *Methods in Biotechnology*, **2006**, 163-173		2
175	Improved stabilization of chemically aminated enzymes via multipoint covalent attachment on glyoxyl supports. *Journal of Biotechnology*, **2005**, 116, 1-10	3	102
174	Enzyme stabilization by glutaraldehyde crosslinking of adsorbed proteins on aminated supports. *Journal of Biotechnology*, **2005**, 119, 70-5	3	231
173	Stabilization of enzymes by multipoint attachment via reversible immobilization on phenylboronic activated supports. *Journal of Biotechnology*, **2005**, 120, 396-401	3	13
172	Advantages of the pre-immobilization of enzymes on porous supports for their entrapment in sol-gels. *Biomacromolecules*, **2005**, 6, 1027-30	6.7	47
171	Co-aggregation of enzymes and polyethyleneimine: a simple method to prepare stable and immobilized derivatives of glutaryl acylase. *Biomacromolecules*, **2005**, 6, 1839-42	6.7	88
170	Preparation of an Industrial Biocatalyst of Penicillin G Acylase on Sepabeads **2005**, 273-288		

169	Lipase–lipase interactions as a new tool to immobilize and modulate the lipase properties. *Enzyme and Microbial Technology*, **2005**, 36, 447-454	3.7	95
168	Aldehyde–dextran–protein conjugates to immobilize amino-haptens: avoiding cross-reactions in the immunodetection. *Enzyme and Microbial Technology*, **2005**, 36, 510-513	3.7	8
167	Penicillin G acylase catalyzed acylation of 7-ACA in aqueous two-phase systems using kinetically and thermodynamically controlled strategies: improved enzymatic synthesis of 7-[(1-hydroxy-1-phenyl)-acetamido]-3-acetoxymethyl-Δ-cephem-4-carboxylic acid. *Enzyme and Microbial Technology*, **2005**, 36, 672-679	3.7	24
166	Increasing the binding strength of proteins to PEI coated supports by immobilizing at high ionic strength. *Enzyme and Microbial Technology*, **2005**, 37, 295-299	3.7	33
165	Synthesis of enantiomerically pure glycidol via a fully enantioselective lipase-catalyzed resolution. *Tetrahedron: Asymmetry*, **2005**, 16, 869-874		59
164	Preparation of inert magnetic nano-particles for the directed immobilization of antibodies. *Biosensors and Bioelectronics*, **2005**, 20, 1380-7	11.6	75
163	Some special features of glyoxyl supports to immobilize proteins. *Enzyme and Microbial Technology*, **2005**, 37, 456-462	3.7	241
162	Preparation of a robust biocatalyst of d-amino acid oxidase on sepabeads supports using the glutaraldehyde crosslinking method. *Enzyme and Microbial Technology*, **2005**, 37, 750-756	3.7	63
161	Optimization of the modification of carrier proteins with aminated haptens. *Journal of Immunological Methods*, **2005**, 307, 144-9	2.4	23
160	Dextran aldehyde coating of glucose oxidase immobilized on magnetic nanoparticles prevents its inactivation by gas bubbles. *Journal of Molecular Catalysis B: Enzymatic*, **2005**, 32, 97-101		93
159	Immobilization and stabilization of glutaryl acylase on aminated sepabeads supports by the glutaraldehyde crosslinking method. *Journal of Molecular Catalysis B: Enzymatic*, **2005**, 35, 57-61		54
158	Stabilization of enzymes by multipoint immobilization of thiolated proteins on new epoxy-thiol supports. *Biotechnology and Bioengineering*, **2005**, 90, 597-605	4.7	89
157	Purification of different lipases from Aspergillus niger by using a highly selective adsorption on hydrophobic supports. *Biotechnology and Bioengineering*, **2005**, 92, 773-9	4.7	44
156	Purification, stabilization, and concentration of very weak protein-protein complexes: Shifting the association equilibrium via complex selective adsorption on lowly activated supports. *Proteomics*, **2005**, 5, 4062-9	4.1	22
155	Stabilization of a multimeric beta-galactosidase from Thermus sp. strain T2 by immobilization on novel heterofunctional epoxy supports plus aldehyde-dextran cross-linking. *Biotechnology Progress*, **2004**, 20, 388-92	2.8	42
154	New cationic exchanger support for reversible immobilization of proteins. *Biotechnology Progress*, **2004**, 20, 284-8	2.8	36
153	Reversible immobilization of glutaryl acylase on sepabeads coated with polyethyleneimine. *Biotechnology Progress*, **2004**, 20, 533-6	2.8	22
152	Thermodynamically controlled synthesis of amide bonds catalyzed by highly organic solvent-resistant penicillin acylase derivatives. *Biotechnology Progress*, **2004**, 20, 117-21	2.8	11

151	Purification, immobilization, and stabilization of a lipase from Bacillus thermocatenulatus by interfacial adsorption on hydrophobic supports. *Biotechnology Progress*, **2004**, 20, 630-5	2.8	65
150	Stabilization of penicillin G acylase from Escherichia coli: site-directed mutagenesis of the protein surface to increase multipoint covalent attachment. *Applied and Environmental Microbiology*, **2004**, 70, 1249-51	4.6	92
149	Thermus thermophilus as a cell factory for the production of a thermophilic Mn-dependent catalase which fails to be synthesized in an active form in Escherichia coli. *Applied and Environmental Microbiology*, **2004**, 70, 3839-44	4.6	39
148	Use of an antisense RNA strategy to investigate the functional significance of Mn-catalase in the extreme thermophile Thermus thermophilus. *Journal of Bacteriology*, **2004**, 186, 7804-6	3.4	10
147	Enantioselective synthesis of phenylacetamides in the presence of high organic cosolvent concentrations catalyzed by stabilized penicillin G acylase. Effect of the acyl donor. *Biotechnology Progress*, **2004**, 20, 984-8	2.8	12
146	Different properties of the lipases contained in porcine pancreatic lipase extracts as enantioselective biocatalysts. *Biotechnology Progress*, **2004**, 20, 825-9	2.8	37
145	A simple strategy for the purification of large thermophilic proteins overexpressed in mesophilic microorganisms: application to multimeric enzymes from Thermus sp. strain T2 expressed in Escherichia coli. *Biotechnology Progress*, **2004**, 20, 1507-11	2.8	17
144	Reversible immobilization of glucoamylase by ionic adsorption on sepabeads coated with polyethyleneimine. *Biotechnology Progress*, **2004**, 20, 1297-300	2.8	41
143	Reversible and strong immobilization of proteins by ionic exchange on supports coated with sulfate-dextran. *Biotechnology Progress*, **2004**, 20, 1134-9	2.8	74
142	Immobilization of lactase from Kluyveromyces lactis greatly reduces the inhibition promoted by glucose. full hydrolysis of lactose in milk. *Biotechnology Progress*, **2004**, 20, 1259-62	2.8	79
141	Purification of a catalase from Thermus thermophilus via IMAC chromatography: effect of the support. *Biotechnology Progress*, **2004**, 20, 1578-82	2.8	8
140	Use of immobilized lipases for lipase purification via specific lipase-lipase interactions. *Journal of Chromatography A*, **2004**, 1038, 267-73	4.3	105
139	Determination of protein-protein interactions through aldehyde-dextran intermolecular cross-linking. *Proteomics*, **2004**, 4, 2602-7	4.1	63
138	Encapsulation of crosslinked penicillin G acylase aggregates in lentikats: evaluation of a novel biocatalyst in organic media. *Biotechnology and Bioengineering*, **2004**, 86, 558-62	4.7	113
137	Ion exchange using poorly activated supports, an easy way for purification of large proteins. *Journal of Chromatography A*, **2004**, 1034, 155-9	4.3	62
136	Detection and purification of two antibody-antigen complexes via selective adsorption on lowly activated anion exchangers. *Journal of Chromatography A*, **2004**, 1059, 89-94	4.3	19
135	Enzymatic resolution of (–)-glycidyl butyrate in aqueous media. Strong modulation of the properties of the lipase from Rhizopus oryzae via immobilization techniques. *Tetrahedron: Asymmetry*, **2004**, 15, 1157-1161		40
134	Resolution of paroxetine precursor using different lipases: Influence of the reaction conditions on the enantioselectivity of lipases. *Enzyme and Microbial Technology*, **2004**, 34, 264-269	3.7	14

133	Selective and mild adsorption of large proteins on lowly activated immobilized metal ion affinity chromatography matrices. Purification of multimeric thermophilic enzymes overexpressed in Escherichia coli. *Journal of Chromatography A*, **2004**, 1055, 93-8	4.3	23
132	Improving the activity of lipases from thermophilic organisms at mesophilic temperatures for biotechnology applications. *Biomacromolecules*, **2004**, 5, 249-54	6.7	26
131	Immobilization of rennet from Mucor miehei via its sugar chain. Its use in milk coagulation. *Biomacromolecules*, **2004**, 5, 2029-33	6.7	20
130	Cross-linked aggregates of multimeric enzymes: a simple and efficient methodology to stabilize their quaternary structure. *Biomacromolecules*, **2004**, 5, 814-7	6.7	90
129	Co-aggregation of penicillin g acylase and polyionic polymers: an easy methodology to prepare enzyme biocatalysts stable in organic media. *Biomacromolecules*, **2004**, 5, 852-7	6.7	112
128	Directed covalent immobilization of aminated DNA probes on aminated plates. *Biomacromolecules*, **2004**, 5, 883-8	6.7	27
127	Immobilization and stabilization of recombinant multimeric uridine and purine nucleoside phosphorylases from Bacillus subtilis. *Biomacromolecules*, **2004**, 5, 2195-200	6.7	47
126	Prevention of interfacial inactivation of enzymes by coating the enzyme surface with dextran-aldehyde. *Journal of Biotechnology*, **2004**, 110, 201-7	3	64
125	Optimization of an industrial biocatalyst of glutaryl acylase: stabilization of the enzyme by multipoint covalent attachment onto new amino-epoxy Sepabeads. *Journal of Biotechnology*, **2004**, 111, 219-27	3	42
124	Enzymatic transformations. Immobilized A. niger epoxide hydrolase as a novel biocatalytic tool for repeated-batch hydrolytic kinetic resolution of epoxides. *Organic and Biomolecular Chemistry*, **2003**, 1, 2739-43	3.8	34
123	Overproduction of Thermus sp. Strain T2 beta-galactosidase in Escherichia coli and preparation by using tailor-made metal chelate supports. *Applied and Environmental Microbiology*, **2003**, 69, 1967-72	4.6	37
122	Inhibitory effects in the side reactions occurring during the enzymic synthesis of amoxicillin: p-hydroxyphenylglycine methyl ester and amoxicillin hydrolysis. *Biotechnology and Applied Biochemistry*, **2003**, 38, 77-85	2.7	12
121	Epoxy-amino groups: a new tool for improved immobilization of proteins by the epoxy method. *Biomacromolecules*, **2003**, 4, 772-7	6.7	209
120	Modulation of Mucor miehei lipase properties via directed immobilization on different hetero-functional epoxy resins. *Journal of Molecular Catalysis B: Enzymatic*, **2003**, 21, 201-210		85
119	Self-assembly of Pseudomonas fluorescens lipase into bimolecular aggregates dramatically affects functional properties. *Biotechnology and Bioengineering*, **2003**, 82, 232-7	4.7	101
118	Evaluation of the lipase from Bacillus thermocatenulatus as an enantioselective biocatalyst. *Tetrahedron: Asymmetry*, **2003**, 14, 3679-3687		38
117	Regio-selective deprotection of peracetylated sugars via lipase hydrolysis. *Tetrahedron*, **2003**, 59, 5705-5711	2.3	54
116	Reversible immobilization of a thermophilic β-galactosidase via ionic adsorption on PEI-coated Sepabeads. *Enzyme and Microbial Technology*, **2003**, 32, 369-374	3.7	77

115	Covalent immobilisation of manganese peroxidases (MnP) from Phanerochaete chrysosporium and Bjerkandera sp. BOS55. *Enzyme and Microbial Technology*, **2003**, 32, 769-775	3.7	37
114	The immobilization of a thermophilic β-galactosidase on Sepabeads supports decreases product inhibition. *Enzyme and Microbial Technology*, **2003**, 33, 199-205	3.7	97
113	Design of an immobilized preparation of catalase from Thermus thermophilus to be used in a wide range of conditions.: Structural stabilization of a multimeric enzyme. *Enzyme and Microbial Technology*, **2003**, 33, 278-285	3.7	49
112	Resolution of (±)-5-substituted-6-(5-chloropyridin-2-yl)-7-oxo-5,6-dihydropyrrolo[3,4b]pyrazine derivatives-precursors of (S)-(+)-Zopiclone, catalyzed by immobilized Candida antarctica B lipase in aqueous media. *Tetrahedron: Asymmetry*, **2003**, 14, 429-438		23
111	Hydrolysis of proteins by immobilized-stabilized alcalase-glyoxyl agarose. *Biotechnology Progress*, **2003**, 19, 352-60	2.8	58
110	Design of new immobilized-stabilized carboxypeptidase a derivative for production of aromatic free hydrolysates of proteins. *Biotechnology Progress*, **2003**, 19, 565-74	2.8	47
109	Use of physicochemical tools to determine the choice of optimal enzyme: stabilization of D-amino acid oxidase. *Biotechnology Progress*, **2003**, 19, 784-8	2.8	53
108	A novel heterofunctional epoxy-amino sepabeads for a new enzyme immobilization protocol: immobilization-stabilization of beta-galactosidase from Aspergillus oryzae. *Biotechnology Progress*, **2003**, 19, 1056-60	2.8	74
107	Preparation of a stable biocatalyst of bovine liver catalase using immobilization and postimmobilization techniques. *Biotechnology Progress*, **2003**, 19, 763-7	2.8	74
106	Improving the industrial production of 6-APA: enzymatic hydrolysis of penicillin G in the presence of organic solvents. *Biotechnology Progress*, **2003**, 19, 1639-42	2.8	34
105	General trend of lipase to self-assemble giving bimolecular aggregates greatly modifies the enzyme functionality. *Biomacromolecules*, **2003**, 4, 1-6	6.7	194
104	Novel bifunctional epoxy/thiol-reactive support to immobilize thiol containing proteins by the epoxy chemistry. *Biomacromolecules*, **2003**, 4, 1495-501	6.7	81
103	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, 107-13	6.7	75
102	Solid-phase handling of hydrophobins: immobilized hydrophobins as a new tool to study lipases. *Biomacromolecules*, **2003**, 4, 204-10	6.7	84
101	Immobilization of peroxidase glycoprotein on gold electrodes modified with mixed epoxy-boronic Acid monolayers. *Journal of the American Chemical Society*, **2002**, 124, 12845-53	16	103
100	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		355
99	Preparation of artificial hyper-hydrophilic micro-environments (polymeric salts) surrounding enzyme molecules. *Journal of Molecular Catalysis B: Enzymatic*, **2002**, 19-20, 295-303		56
98	Enzymatic synthesis of amoxicillin: avoiding limitations of the mechanistic approach for reaction kinetics. *Biotechnology and Bioengineering*, **2002**, 80, 622-31	4.7	26

97	Modulation of the enantioselectivity of Candida antarctica B lipase via conformational engineering. Kinetic resolution of (±)-α-hydroxy-phenylacetic acid derivatives. *Tetrahedron: Asymmetry*, **2002**, 13, 1337-1345		111
96	Enzymatic resolution of (±)-trans-4-(4?-fluorophenyl)-6-oxo-piperidin-3-ethyl carboxylate, an intermediate in the synthesis of (-)-Paroxetine. *Tetrahedron: Asymmetry*, **2002**, 13, 2375-2381		35
95	Enzymatic production of (3S,4R)-(-)-4-(4?-fluorophenyl)-6-oxo-piperidin-3-carboxylic acid using a commercial preparation from Candida antarctica A: the role of a contaminant esterase. *Tetrahedron: Asymmetry*, **2002**, 13, 2653-2659		39
94	Modification of the activities of two different lipases from Candida rugosa with dextrans. *Enzyme and Microbial Technology*, **2002**, 30, 30-40	3.7	35
93	Influence of the enzyme derivative preparation and substrate structure on the enantioselectivity of penicillin G acylase. *Enzyme and Microbial Technology*, **2002**, 31, 88-93	3.7	56
92	The role of 6-aminopenicillanic acid on the kinetics of amoxicillin enzymatic synthesis catalyzed by penicillin G acylase immobilized onto glyoxyl-agarose. *Enzyme and Microbial Technology*, **2002**, 31, 464-471	3.7	18
91	Modulation of the enantioselectivity of lipases via controlled immobilization and medium engineering: hydrolytic resolution of mandelic acid esters. *Enzyme and Microbial Technology*, **2002**, 31, 775-783	3.7	150
90	Stabilization-immobilization of carboxypeptidase A to aldehyde-agarose gels. *Enzyme and Microbial Technology*, **2002**, 31, 711-718	3.7	35
89	Epoxy sepabeads: a novel epoxy support for stabilization of industrial enzymes via very intense multipoint covalent attachment. *Biotechnology Progress*, **2002**, 18, 629-34	2.8	231
88	Reversible immobilization of invertase on Sepabeads coated with polyethyleneimine: optimization of the biocatalyst's stability. *Biotechnology Progress*, **2002**, 18, 1221-6	2.8	70
87	Regioselective enzymatic hydrolysis of acetylated pyranoses and pyranosides using immobilised lipases. An easy chemoenzymatic synthesis of alpha- and beta-D-glucopyranose acetates bearing a free secondary C-4 hydroxyl group. *Carbohydrate Research*, **2002**, 337, 1615-21	2.8	33
86	Biotransformations catalyzed by multimeric enzymes: stabilization of tetrameric ampicillin acylase permits the optimization of ampicillin synthesis under dissociation conditions. *Biomacromolecules*, **2001**, 2, 95-104	6.7	73
85	Modulation of lipase properties in macro-aqueous systems by controlled enzyme immobilization: enantioselective hydrolysis of a chiral ester by immobilized Pseudomonas lipase. *Enzyme and Microbial Technology*, **2001**, 28, 389-396	3.7	80
84	Coimmobilization of L-asparaginase and glutamate dehydrogenase onto highly activated supports. *Enzyme and Microbial Technology*, **2001**, 28, 696-704	3.7	31
83	Modulation of penicillin acylase properties via immobilization techniques: one-pot chemoenzymatic synthesis of Cephamandole from Cephalosporin C. *Bioorganic and Medicinal Chemistry Letters*, **2001**, 11, 2429-32	2.8	89
82	One-step purification, covalent immobilization, and additional stabilization of poly-His-tagged proteins using novel heterofunctional chelate-epoxy supports. *Biotechnology and Bioengineering*, **2001**, 76, 269-76	4.7	90
81	Affinity chromatography of polyhistidine tagged enzymes. New dextran-coated immobilized metal ion affinity chromatography matrices for prevention of undesired multipoint adsorptions. *Journal of Chromatography A*, **2001**, 915, 97-106	4.3	68
80	Structural and functional stabilization of L-asparaginase via multisubunit immobilization onto highly activated supports. *Biotechnology Progress*, **2001**, 17, 537-42	2.8	80

79	Preparation of new lipases derivatives with high activity/stability in anhydrous media: adsorption on hydrophobic supports plus hydrophilization with polyethylenimine. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 11, 817-824		59
78	Stabilization of a tetrameric enzyme (-amino acid ester hydrolase from Acetobacter turbidans) enables a very improved performance of ampicillin synthesis. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 11, 633-638		17
77	Biocatalyst engineering exerts a dramatic effect on selectivity of hydrolysis catalyzed by immobilized lipases in aqueous medium. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 11, 649-656		48
76	Enantioselective enzymatic hydrolysis of racemic glycidyl esters by using immobilized porcine pancreas lipase with improved catalytic properties. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 11, 757-763		20
75	Stabilization of Immobilized Enzymes Against Water-Soluble Organic Cosolvents and Generation of Hyper-Hydrophilic Micro-Environments Surrounding Enzyme Molecules. *Biocatalysis and Biotransformation*, **2001**, 19, 489-503	2.4	38
74	Electrostatic and covalent immobilisation of enzymes on ITQ-6 delaminated zeolitic materials. *Chemical Communications*, **2001**, 419-420	5.7	47
73	Reversible enzyme immobilization via a very strong and nondistorting ionic adsorption on support-polyethylenimine composites. *Biotechnology and Bioengineering*, **2000**, 68, 98-105	4.7	204
72	Immobilization of functionally unstable catechol-2,3-dioxygenase greatly improves operational stability. *Enzyme and Microbial Technology*, **2000**, 26, 568-573	3.7	37
71	Increase in conformational stability of enzymes immobilized on epoxy-activated supports by favoring additional multipoint covalent attachment*. *Enzyme and Microbial Technology*, **2000**, 26, 509-515	3.7	292
70	Essential role of the concentration of immobilized ligands in affinity chromatography: purification of guanidinobenzoatase on an ionized ligand. *Biomedical Applications*, **2000**, 740, 211-8		18
69	Stabilization of a glucosidase from Aspergillus niger by binding to an amine agarose gel. *Journal of Molecular Catalysis B: Enzymatic*, **2000**, 11, 63-69		15
68	A kinetic study of synthesis of amoxicillin using penicillin G acylase immobilized on agarose. *Applied Biochemistry and Biotechnology*, **2000**, 84-86, 931-45	3.1	23
67	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. *Biomacromolecules*, **2000**, 1, 739-45	6.7	261
66	Interaction of the antitumor drug 9-aminoacridine with guanidinobenzoatase studied by spectroscopic methods: a possible tumor marker probe based on the fluorescence exciplex emission. *Biochemistry*, **2000**, 39, 10557-65	3.1	37
65	Engineering of Enzymes via Immobili-zation and Post-Immobilization Techniques: Preparation of Enzyme Derivatives with Improved Stability in Organic Media **2000**, 36-51		5
64	Influence of activation on the multipoint immobilization of penicillin G acylase on macroporous silica. *Brazilian Journal of Chemical Engineering*, **1999**, 16, 141-148	1.6	16
63	A controlled fed-batch cultivation for the production of new crude lipases from Candida rugosa with improved properties in fine chemistry. *Journal of Biotechnology*, **1999**, 69, 169-182	3	30
62	Facile synthesis of artificial enzyme nano-environments via solid-phase chemistry of immobilized derivatives: Dramatic stabilization of penicillin acylase versus organic solvents. *Enzyme and Microbial Technology*, **1999**, 24, 96-103	3.7	90

61	Engineering the D-amino acid oxidase from Trigonopsis variabilis to facilitate its overproduction in Escherichia coli and its downstream processing by tailor-made metal chelate supports. *Enzyme and Microbial Technology*, **1999**, 25, 88-95	3.7	30
60	Evaluation of different enzymes as catalysts for the production of β-lactam antibiotics following a kinetically controlled strategy. *Enzyme and Microbial Technology*, **1999**, 25, 336-343	3.7	67
59	Regioselective hydrolysis of peracetylated alpha-D-glycopyranose catalyzed by immobilized lipases in aqueous medium. A facile preparation of useful intermediates for oligosaccharide synthesis. *Bioorganic and Medicinal Chemistry Letters*, **1999**, 9, 633-6	2.8	17
58	Affinity chromatography of plasma proteins (guanidinobenzoatase): use of mimetic matrices and mimetic soluble ligands to prevent the binding of albumin on target affinity matrices. *Biomedical Applications*, **1999**, 732, 165-72		6
57	Selective adsorption of poly-His tagged glutaryl acylase on tailor-made metal chelate supports. *Journal of Chromatography A*, **1999**, 848, 61-70	4.3	63
56	Stabilization of multimeric enzymes via immobilization and post-immobilization techniques. *Journal of Molecular Catalysis B: Enzymatic*, **1999**, 7, 181-189		109
55	Stabilization of enzymes (d-amino acid oxidase) against hydrogen peroxide via immobilization and post-immobilization techniques. *Journal of Molecular Catalysis B: Enzymatic*, **1999**, 7, 173-179		48
54	The coimmobilization of d-amino acid oxidase and catalase enables the quantitative transformation of d-amino acids (d-phenylalanine) into α-keto acids (phenylpyruvic acid). *Enzyme and Microbial Technology*, **1998**, 23, 28-33	3.7	123
53	Degradation and denaturation of stable enzymes. *Progress in Biotechnology*, **1998**, 349-352		1
52	Stabilization of immobilized enzymes against organic solvents: Complete hydrophylization of enzymes environments by solidphase chemistry with poly-functional macromolecules.. *Progress in Biotechnology*, **1998**, 405-410		1
51	Immobilization of lipases by selective adsorption on hydrophobic supports. *Chemistry and Physics of Lipids*, **1998**, 93, 185-97	3.6	400
50	Cloning, expression and immobilization of glutamate racemase from Lactobacillus fermenti for the production of D-glutamate from L-glutamate. *Biotechnology Letters*, **1998**, 20, 57-61	2.9	3
49	Interfacial affinity chromatography of lipases: separation of different fractions by selective adsorption on supports activated with hydrophobic groups. *BBA - Proteins and Proteomics*, **1998**, 1388, 337-48		34
48	A single step purification, immobilization, and hyperactivation of lipases via interfacial adsorption on strongly hydrophobic supports. *Biotechnology and Bioengineering*, **1998**, 58, 486-93	4.7	435
47	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		63
46	Use of dextrans as long and hydrophilic spacer arms to improve the performance of immobilized proteins acting on macromolecules. *Biotechnology and Bioengineering*, **1998**, 60, 518-23	4.7	70
45	A criterion for the selection of monophasic solvents for enzymatic synthesis. *Enzyme and Microbial Technology*, **1998**, 23, 64-69	3.7	51
44	The presence of methanol exerts a strong and complex modulation of the synthesis of different antibiotics by immobilized penicillin G acylase. *Enzyme and Microbial Technology*, **1998**, 23, 305-310	3.7	67

43	Modulation of the properties of penicillin G acylase by acyl donor substrates during n-protection of amino compounds. *Enzyme and Microbial Technology*, **1998**, 22, 583-587	3.7	27
42	A single step purification, immobilization, and hyperactivation of lipases via interfacial adsorption on strongly hydrophobic supports **1998**, 58, 486		1
41	A single step purification, immobilization, and hyperactivation of lipases via interfacial adsorption on strongly hydrophobic supports **1998**, 58, 486		7
40	Immobilization-Stabilization of Thermolysin Onto Activated Agarose Gels. *Biocatalysis and Biotransformation*, **1997**, 15, 159-173	2.4	23
39	One-Pot Chemoenzymatic Synthesis of 3-Functionalized Cephalosporines (Cefazolin) by Three Consecutive Biotransformations in Fully Aqueous Medium. *Journal of Organic Chemistry*, **1997**, 62, 9099-9106	4.1	51
38	Reactivation strategies by unfolding/refolding of chymotrypsin derivatives after inactivation by organic solvents. *BBA - Proteins and Proteomics*, **1997**, 1339, 167-75		21
37	Synthesis of antibiotics (cephaloglycin) catalyzed by penicillin G acylase: Evaluation and optimization of different synthetic approaches. *Enzyme and Microbial Technology*, **1996**, 19, 9-14	3.7	62
36	Utilization of Unfolding/Refolding Strategies for Reactivation of Immobilized Derivatives of Lipases after Inactivation by Organic Solvents **1996**, 257-271		2
35	Dynamic reaction design of enzymic biotransformations in organic media: equilibrium-controlled synthesis of antibiotics by penicillin G acylase. *Biotechnology and Applied Biochemistry*, **1996**, 24, 139-43	2.7	42
34	The use of stabilised penicillin acylase derivatives improves the design of kinetically controlled synthesis. *Journal of Molecular Catalysis A*, **1995**, 101, 91-97		33
33	Strategies for enzyme stabilization by intramolecular crosslinking with bifunctional reagents. *Enzyme and Microbial Technology*, **1995**, 17, 517-523	3.7	134
32	Modification of Enzyme Properties by the use of Inhibitors During Their Stabilisation by Multipoint Covalent Attachment. *Biocatalysis and Biotransformation*, **1995**, 12, 67-76	2.4	27
31	Design of novel biocatalysts by "bioimprinting" during unfolding-refolding of fully dispersed covalently immobilized enzymes. *Annals of the New York Academy of Sciences*, **1995**, 750, 349-56	6.3	2
30	Resolution of Racemic Mixtures through Stereospecific Kinetically Controlled Synthesis Catalyzed by Penicillin G Acylase Derivatives. *Annals of the New York Academy of Sciences*, **1995**, 750, 425-428	6.3	4
29	Selective oxidation: stabilisation by multipoint attachment of ferredoxin NADP+ reductase, an interesting cofactor recycling enzyme. *Journal of Molecular Catalysis A*, **1995**, 98, 161-169		47
28	Proteolytic degradation of the RGD-binding and non-RGD-binding conformers of human platelet integrin glycoprotein IIb/IIIa: clues for identification of regions involved in the receptor-3 activation. *Biochemical Journal*, **1994**, 298 (Pt 1), 1-7	3.7	26
27	Enzyme Stabilization by Multipoint Covalent Attachment to Activated Pre-Existing Supports. *Studies in Organic Chemistry*, **1993**, 47, 55-62		22
26	Stabilization of heterodimeric enzyme by multipoint covalent immobilization: Penicillin G acylase from Kluyvera citrophila. *Biotechnology and Bioengineering*, **1993**, 42, 455-64	4.7	68

25	Resolution of racemic mixtures by synthesis reactions catalyzed by immobilized derivatives of the enzyme penicillin G acylase. *Journal of Molecular Catalysis*, **1993**, 84, 365-371		16
24	Syntheses of pharmaceutical oligosaccharides catalyzed by immobilized-stabilized derivatives of different β-galactosidases. *Journal of Molecular Catalysis*, **1993**, 84, 373-379		8
23	Preparation of activated supports containing low pK amino groups. A new tool for protein immobilization via the carboxyl coupling method. *Enzyme and Microbial Technology*, **1993**, 15, 546-50	3.7	215
22	Stabilization of Micrococcal Endonuclease by Immobilization on Agarose Gels Highly Activated with CNBr. *Biocatalysis*, **1993**, 8, 81-89		1
21	Effect of thermodynamic water activity on amino-acid ester synthesis catalyzed by agarose-chymotrypsin in 3-pentanone. *Biochimica Et Biophysica Acta - General Subjects*, **1992**, 1156, 67-70	3.9	9
20	Penicillin G acylase fromKluyvera citrophila new choice as industrial enzyme. *Biotechnology Letters*, **1992**, 14, 285-290	2.9	21
19	Additional stabilization of penicillin G acylase-agarose derivatives by controlled chemical modification with formaldehyde. *Enzyme and Microbial Technology*, **1992**, 14, 489-95	3.7	49
18	Peptide synthesis by stabilized trypsin: Industrial kinetic studies under extreme experimental conditions. *Journal of Molecular Catalysis*, **1992**, 73, 97-113		3
17	The equilibrium and kinetics of N-acetyl-tryptophan phenylethyl ester synthesis by agarose-chymotrypsin in organic media. *Biotechnology and Bioengineering*, **1992**, 40, 1092-6	4.7	10
16	Immobilization-stabilization of alpha-chymotrypsin by covalent attachment to aldehyde-agarose gels. *Biotechnology and Bioengineering*, **1991**, 38, 1144-52	4.7	89
15	Enzyme reaction engineering: design of peptide synthesis by stabilized trypsin. *Enzyme and Microbial Technology*, **1991**, 13, 573-83	3.7	17
14	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	3.7	78
13	Stabilizing effect of penicillin G sulfoxide, a competitive inhibitor of penicillin G acylase: its practical applications. *Enzyme and Microbial Technology*, **1991**, 13, 210-4	3.7	30
12	Equilibrium controlled synthesis of cephalothin in water-cosolvent systems by stabilized penicillin G acylase. *Applied Biochemistry and Biotechnology*, **1991**, 27, 277-290	3.1	42
11	Immobilization-stabilization of proteases as a tool to improve the industrial design of peptide synthesis. *Biomedica Biochimica Acta*, **1991**, 50, S110-3		1
10	Immobilization-stabilization of penicillin G acylase from Escherichia coli. *Applied Biochemistry and Biotechnology*, **1990**, 26, 181-95	3.1	133
9	Organic reactions catalyzed by insolubilized enzymes. *Journal of Molecular Catalysis*, **1990**, 62, 353-367		8
8	Organic reactions catalyzed by insolubilized enzymes; i-peptide synthesis catalyzed by insolubilized α-chymotrypsin. *Journal of Molecular Catalysis*, **1990**, 62, 93-105		15

7	Immobilization-Stabilization of Penicillin G Acylase. *Annals of the New York Academy of Sciences*, **1990**, 613, 552-558	6.3	8
6	Immobilization/stabilization of lipase from Candida rugosa. *Applied Biochemistry and Biotechnology*, **1988**, 19, 163-75	3.1	66
5	Stabilization of trypsin by multiple-point attachment to aldehyde-agarose gels. *Annals of the New York Academy of Sciences*, **1987**, 501, 67-72	6.3	19
4	Mixed enzymic reaction--internal diffusion kinetics of nonuniformly distributed immobilized enzymes. The system agarose-micrococcal endonuclease. *Applied Biochemistry and Biotechnology*, **1987**, 14, 49-72	3.1	9
3	Determination of intrinsic properties of immobilized enzymes : 1. Kinetic studies on sepharose-staphylococcal nuclease in the absence of diffusional limitations. *Applied Biochemistry and Biotechnology*, **1981**, 6, 25-36	3.1	14
2	Determination of intrinsic properties of immobilized enzymes : 2. Kinetic studies on sepharose-staphylococcal nuclease in the presence of diffusional limitations. *Applied Biochemistry and Biotechnology*, **1981**, 6, 37-51	3.1	15
1	Immobilized Enzymes1		