Roberto Fernandez-Lafuente

List of Publications by Year in Descending Order

531 papers	34,148 citations	86 h-index	158 g-index
552 ext. papers	37,835 ext. citations	5.1 avg, IF	7.69 L-index

#	Paper	IF	Citations
531	Production of Jet Biofuels by Catalytic Hydroprocessing of Esters and Fatty Acids: A Review. *Catalysts*, **2022**, 12, 237	3.9	0
530	Preparation of a Six-Enzyme Multilayer Combi-Biocatalyst: Reuse of the Most Stable Enzymes after Inactivation of the Least Stable One. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 3920-3934	8.2	2
529	Coimmobilization of lipases exhibiting three very different stability ranges. Reuse of the active enzymes and selective discarding of the inactivated ones.. *International Journal of Biological Macromolecules*, **2022**,	7.7	3
528	Chemical amination of immobilized enzymes for enzyme coimmobilization: Reuse of the most stable immobilized and modified enzyme.. *International Journal of Biological Macromolecules*, **2022**,	7.7	2
527	Decyl esters production from soybean-based oils catalyzed by lipase immobilized on differently functionalized rice husk silica and their characterization as potential biolubricants.. *Enzyme and Microbial Technology*, **2022**, 157, 110019	3.7	0
526	Design of a sustainable process for enzymatic production of ethylene glycol diesters via hydroesterification of used soybean cooking oil. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107062	6.7	2
525	Immobilization of xylanase on differently functionalized silica gel supports for orange juice clarification. *Process Biochemistry*, **2022**, 113, 270-280	4.7	1
524	Phenolic compounds in mango fruit: a review. *Journal of Food Measurement and Characterization*, **2022**, 16, 619	2.7	0
523	Design of Artificial Enzymes Bearing Several Active Centers: New Trends, Opportunities and Problems. *International Journal of Molecular Sciences*, **2022**, 23, 5304	6.1	0
522	Stabilization of immobilized lipases by treatment with metallic phosphate salts. *International Journal of Biological Macromolecules*, **2022**, 213, 43-54	7.7	0
521	Enzyme co-immobilization: Always the biocatalyst designers' choice or not?. *Biotechnology Advances*, **2021**, 51, 107584	17.3	50
520	Immobilization of lipases via interfacial activation on hydrophobic supports: Production of biocatalysts libraries by altering the immobilization conditions. *Catalysis Today*, **2021**, 362, 130-140	5.2	31
519	Biotechnological relevance of the lipase A from Candida antarctica. *Catalysis Today*, **2021**, 362, 141-154	5.2	29
518	Enzymatic synthesis of biolubricants from by-product of soybean oil processing catalyzed by different biocatalysts of Candida rugosa lipase. *Catalysis Today*, **2021**, 362, 122-129	5.2	14
517	Optimization of simultaneous saccharification and isomerization of dextrin to high fructose syrup using a mixture of immobilized amyloglucosidase and glucose isomerase. *Catalysis Today*, **2021**, 362, 175-183	5.2	7
516	Enzymatic clarification of orange juice in continuous bed reactors: Fluidized-bed versus packed-bed reactor. *Catalysis Today*, **2021**, 362, 184-191	5.2	5
515	Magnetic micro-macro biocatalysts applied to industrial bioprocesses. *Bioresource Technology*, **2021**, 322, 124547	11	10

514	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. *Renewable Energy*, **2021**, 164, 1566-1587	8	35
513	Immobilization of Eversa Transform via CLEA Technology Converts It in a Suitable Biocatalyst for Biolubricant Production Using Waste Cooking Oil. *Molecules*, **2021**, 26,	4.7	13
512	Aqueous Extraction of Seed Oil from Mamey Sapote (Pouteria sapota) after Viscozyme L Treatment. *Catalysts*, **2021**, 11, 748	3.9	2
511	Lipozyme 435-Mediated Synthesis of Xylose Oleate in Methyl Ethyl Ketone. *Molecules*, **2021**, 26,	4.7	2
510	Bioactive peptides from fisheries residues: A review of use of papain in proteolysis reactions. *International Journal of Biological Macromolecules*, **2021**, 184, 415-428	7.7	8
509	Solvent-free esterifications mediated by immobilized lipases: a review from thermodynamic and kinetic perspectives. *Catalysis Science and Technology*, **2021**, 11, 5696-5711	5.4	12
508	Effect of Concentrated Salts Solutions on the Stability of Immobilized Enzymes: Influence of Inactivation Conditions and Immobilization Protocol. *Molecules*, **2021**, 26,	4.7	4
507	Effect of amine length in the interference of the multipoint covalent immobilization of enzymes on glyoxyl agarose beads. *Journal of Biotechnology*, **2021**, 329, 128-142	3	7
506	Positive effect of glycerol on the stability of immobilized enzymes: Is it a universal fact?. *Process Biochemistry*, **2021**, 102, 108-121	4.7	5
505	Modulation of the Biocatalytic Properties of a Novel Lipase from Psychrophilic sp. (USBA-GBX-513) by Different Immobilization Strategies. *Molecules*, **2021**, 26,	4.7	2
504	Modified silicates and carbon nanotubes for immobilization of lipase from Rhizomucor miehei: Effect of support and immobilization technique on the catalytic performance of the immobilized biocatalysts. *Enzyme and Microbial Technology*, **2021**, 144, 109739	3.7	10
503	Immobilization of the Peroxygenase from Agrocybe aegerita. The Effect of the Immobilization pH on the Features of an Ionically Exchanged Dimeric Peroxygenase. *Catalysts*, **2021**, 11, 560	3.9	4
502	Synthesis of lipase/silica biocatalysts through the immobilization of CALB on porous SBA-15 and their application on the resolution of pharmaceutical derivatives and on nutraceutical enrichment of natural oil. *Molecular Catalysis*, **2021**, 505, 111529	3.3	2
501	The □galactosidase immobilization protocol determines its performance as catalysts in the kinetically controlled synthesis of lactulose. *International Journal of Biological Macromolecules*, **2021**, 176, 468-478	7.7	5
500	Effect of Tris Buffer in the Intensity of the Multipoint Covalent Immobilization of Enzymes in Glyoxyl-Agarose Beads. *Applied Biochemistry and Biotechnology*, **2021**, 193, 2843-2857	3.1	2
499	Advantages of Supports Activated with Divinyl Sulfone in Enzyme Coimmobilization: Possibility of Multipoint Covalent Immobilization of the Most Stable Enzyme and Immobilization via Ion Exchange of the Least Stable Enzyme. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 7508-7518	8.2	8
498	Performance of Liquid Eversa on Fatty Acid Ethyl Esters Production by Simultaneous Esterification/Transesterification of Low-to-High Acidity Feedstocks. *Catalysts*, **2021**, 11, 1486	3.9	0
497	Simplified Method to Optimize Enzymatic Esters Syntheses in Solvent-Free Systems: Validation Using Literature and Experimental Data. *Catalysts*, **2021**, 11, 1357	3.9	1

496	The combination of covalent and ionic exchange immobilizations enables the coimmobilization on vinyl sulfone activated supports and the reuse of the most stable immobilized enzyme.. *International Journal of Biological Macromolecules*, **2021**, 199, 51-51	7.7	3
495	Eco-friendly production of trimethylolpropane triesters from refined and used soybean cooking oils using an immobilized low-cost lipase (Eversa> Transform 2.0) as heterogeneous catalyst. *Biomass and Bioenergy*, **2021**, 155, 106302	5.3	6
494	Aqueous enzymatic extraction of Ricinus communis seeds oil using Viscozyme L. *Industrial Crops and Products*, **2021**, 170, 113811	5.8	4
493	Immobilization of papain: A review. *International Journal of Biological Macromolecules*, **2021**, 188, 94-113	7.7	4
492	Application of Rhizomucor miehei lipase-displaying Pichia pastoris whole cell for biodiesel production using agro-industrial residuals as substrate. *International Journal of Biological Macromolecules*, **2021**, 189, 734-743	7.7	4
491	Stabilization of enzymes via immobilization: Multipoint covalent attachment and other stabilization strategies. *Biotechnology Advances*, **2021**, 52, 107821	17.3	31
490	Galactosidase from Kluyveromyces lactis: Characterization, production, immobilization and applications - A review. *International Journal of Biological Macromolecules*, **2021**, 191, 881-898	7.7	3
489	Enzyme-support interactions and inactivation conditions determine Thermomyces lanuginosus lipase inactivation pathways: Functional and florescence studies. *International Journal of Biological Macromolecules*, **2021**, 191, 79-91	7.7	5
488	Stabilization and operational selectivity alteration of Lipozyme 435 by its coating with polyethyleneimine: Comparison of the biocatalyst performance in the synthesis of xylose fatty esters. *International Journal of Biological Macromolecules*, **2021**, 192, 665-674	7.7	1
487	Prolongation of secondary drying step of phospholipid lyophilization greatly improves acidolysis reactions catalyzed by immobilized lecitase ultra. *Enzyme and Microbial Technology*, **2020**, 132, 109388	3.7	2
486	Pectin lyase immobilization using the glutaraldehyde chemistry increases the enzyme operation range. *Enzyme and Microbial Technology*, **2020**, 132, 109397	3.7	39
485	Modulating the properties of the lipase from Thermomyces lanuginosus immobilized on octyl agarose beads by altering the immobilization conditions. *Enzyme and Microbial Technology*, **2020**, 133, 109461	3.7	24
484	Enzymatic synthesis of neopentyl glycol-bases biolubricants using biodiesel from soybean and castor bean as raw materials. *Renewable Energy*, **2020**, 148, 689-696	8	19
483	Coimmobilization of different lipases: Simple layer by layer enzyme spatial ordering. *International Journal of Biological Macromolecules*, **2020**, 145, 856-864	7.7	22
482	Parameters necessary to define an immobilized enzyme preparation. *Process Biochemistry*, **2020**, 90, 66-80	4.7	150
481	Use of glyoxyl-agarose immobilized ficin extract in milk coagulation: Unexpected importance of the ficin loading on the biocatalysts. *International Journal of Biological Macromolecules*, **2020**, 144, 419-426	7.7	15
480	Use of Alcalase in the production of bioactive peptides: A review. *International Journal of Biological Macromolecules*, **2020**, 165, 2143-2196	7.7	39
479	Enzyme production of D-gluconic acid and glucose oxidase: successful tales of cascade reactions. *Catalysis Science and Technology*, **2020**, 10, 5740-5771	5.4	22

478	Multi-Combilipases: Co-Immobilizing Lipases with Very Different Stabilities Combining Immobilization via Interfacial Activation and Ion Exchange. The Reuse of the Most Stable Co-Immobilized Enzymes after Inactivation of the Least Stable Ones. *Catalysts*, **2020**, 10, 1207	3.9	10
477	Enzyme-Coated Micro-Crystals: An Almost Forgotten but Very Simple and Elegant Immobilization Strategy. *Catalysts*, **2020**, 10, 891	3.9	14
476	Chemoenzymatic Synthesis of the New 3-((2,3-Diacetoxypropanoyl)oxy)propane-1,2-diyl Diacetate Using Immobilized Lipase B from and Pyridinium Chlorochromate as an Oxidizing Agent. *International Journal of Molecular Sciences*, **2020**, 21,	6.1	1
475	Composites of Crosslinked Aggregates of Eversa Transform and Magnetic Nanoparticles. Performance in the Ethanolysis of Soybean Oil. *Catalysts*, **2020**, 10, 817	3.9	6
474	Ficin: A protease extract with relevance in biotechnology and biocatalysis. *International Journal of Biological Macromolecules*, **2020**, 162, 394-404	7.7	20
473	One Pot Use of Combilipases for Full Modification of Oils and Fats: Multifunctional and Heterogeneous Substrates. *Catalysts*, **2020**, 10, 605	3.9	34
472	Effects of Enzyme Loading and Immobilization Conditions on the Catalytic Features of Lipase From Immobilized on Octyl-Agarose Beads. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 36	5.6	38
471	Sustainable Enzymatic Synthesis of a Solketal Ester Process Optimization and Evaluation of Its Antimicrobial Activity. *Catalysts*, **2020**, 10, 218	3.9	10
470	Immobilized Biocatalysts of Eversa Transform 2.0 and Lipase from Thermomyces Lanuginosus: Comparison of Some Properties and Performance in Biodiesel Production. *Catalysts*, **2020**, 10, 738	3.9	14
469	Improved immobilization of lipase from Thermomyces lanuginosus on a new chitosan-based heterofunctional support: Mixed ion exchange plus hydrophobic interactions. *International Journal of Biological Macromolecules*, **2020**, 163, 550-561	7.7	24
468	Use of polyethylenimine to produce immobilized lipase multilayers biocatalysts with very high volumetric activity using octyl-agarose beads: Avoiding enzyme release during multilayer production. *Enzyme and Microbial Technology*, **2020**, 137, 109535	3.7	12
467	Immobilization and stabilization of d-hydantoinase from Vigna angularis and its use in the production of N-carbamoyl-d-phenylglycine. Improvement of the reaction yield by allowing chemical racemization of the substrate. *Process Biochemistry*, **2020**, 95, 251-259	4.7	4
466	Influence of phosphate anions on the stability of immobilized enzymes. Effect of enzyme nature, immobilization protocol and inactivation conditions. *Process Biochemistry*, **2020**, 95, 288-296	4.7	23
465	Production and characterization of biodiesel from oil of fish waste by enzymatic catalysis. *Renewable Energy*, **2020**, 153, 1346-1354	8	32
464	Glyoxyl-Activated Agarose as Support for Covalently Link Novo-Pro D: Biocatalysts Performance in the Hydrolysis of Casein. *Catalysts*, **2020**, 10, 466	3.9	7
463	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
462	Very Strong but Reversible Immobilization of Enzymes on Supports Coated with Ionic Polymers. *Methods in Molecular Biology*, **2020**, 2100, 129-141	1.4	1
461	Structural differences of commercial and recombinant lipase B from Candida antarctica: An important implication on enzymes thermostability. *International Journal of Biological Macromolecules*, **2019**, 140, 761-770	7.7	12

460	Recovery of starch from cassava bagasse for cyclodextrin production by sequential treatment with □-amylase and cyclodextrin glycosyltransferase. *Biocatalysis and Agricultural Biotechnology*, **2019**, 22, 101411	4.1	3
459	Modulation of Lecitase properties via immobilization on differently activated Immobead-350: Stabilization and inversion of enantiospecificity. *Process Biochemistry*, **2019**, 87, 128-137	4.7	18
458	Immobilization of pectinase on chitosan-magnetic particles: Influence of particle preparation protocol on enzyme properties for fruit juice clarification. *Biotechnology Reports (Amsterdam, Netherlands)*, **2019**, 24, e00373	5.2	20
457	Physico-chemical properties, kinetic parameters, and glucose inhibition of several beta-glucosidases for industrial applications. *Process Biochemistry*, **2019**, 78, 82-90	4.7	8
456	Comparison of the immobilization of lipase from Pseudomonas fluorescens on divinylsulfone or p-benzoquinone activated support. *International Journal of Biological Macromolecules*, **2019**, 134, 936-945	7.7	53
455	Immobilization of lipase from Pseudomonas fluorescens on glyoxyl-octyl-agarose beads: Improved stability and reusability. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2019**, 1867, 741-747	3.8	29
454	Rapid and high yield production of phospholipids enriched in CLA via acidolysis: The critical role of the enzyme immobilization protocol. *Food Chemistry*, **2019**, 296, 123-131	8.3	11
453	Reuse of Lipase from Pseudomonas fluorescens via Its Step-by-Step Coimmobilization on Glyoxyl-Octyl Agarose Beads with Least Stable Lipases. *Catalysts*, **2019**, 9, 487	3.9	24
452	Influence of reaction parameters in the polymerization between genipin and chitosan for enzyme immobilization. *Process Biochemistry*, **2019**, 84, 73-80	4.7	21
451	Lecitase ultra: A phospholipase with great potential in biocatalysis. *Molecular Catalysis*, **2019**, 473, 110405	3.3	20
450	Amination of ficin extract to improve its immobilization on glyoxyl-agarose: Improved stability and activity versus casein. *International Journal of Biological Macromolecules*, **2019**, 133, 412-419	7.7	15
449	Improved features of a highly stable protease from Penaeus vannamei by immobilization on glutaraldehyde activated graphene oxide nanosheets. *International Journal of Biological Macromolecules*, **2019**, 130, 564-572	7.7	20
448	Understanding the degree of estolide enzymatic polymerization and the effects on its lubricant properties. *Fuel*, **2019**, 245, 286-293	7	4
447	New applications of glyoxyl-octyl agarose in lipases co-immobilization: Strategies to reuse the most stable lipase. *International Journal of Biological Macromolecules*, **2019**, 131, 989-997	7.7	53
446	Production and optimization of isopropyl palmitate via biocatalytic route using home-made enzymatic catalysts. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 389-397	3.4	11
445	Production of lipases in cottonseed meal and application of the fermented solid as biocatalyst in esterification and transesterification reactions. *Renewable Energy*, **2019**, 130, 574-581	8	42
444	Immobilization of Lipase A from onto Chitosan-Coated Magnetic Nanoparticles. *International Journal of Molecular Sciences*, **2019**, 20,	6.1	45
443	Combi-CLEAs of Glucose Oxidase and Catalase for Conversion of Glucose to Gluconic Acid Eliminating the Hydrogen Peroxide to Maintain Enzyme Activity in a Bubble Column Reactor. *Catalysts*, **2019**, 9, 657	3.9	17

442	Preparation of immobilized/stabilized biocatalysts of β-glucosidases from different sources: Importance of the support active groups and the immobilization protocol. *Biotechnology Progress*, **2019**, 35, e2890	2.8	2
441	Optimized immobilization of polygalacturonase from Aspergillus niger following different protocols: Improved stability and activity under drastic conditions. *International Journal of Biological Macromolecules*, **2019**, 138, 234-243	7.7	29
440	Increasing the Enzyme Loading Capacity of Porous Supports by a Layer-by-Layer Immobilization Strategy Using PEI as Glue. *Catalysts*, **2019**, 9, 576	3.9	18
439	Tuning dimeric formate dehydrogenases reduction/oxidation activities by immobilization. *Process Biochemistry*, **2019**, 85, 97-105	4.7	13
438	Dextran Aldehyde in Biocatalysis: More Than a Mere Immobilization System. *Catalysts*, **2019**, 9, 622	3.9	20
437	Stability/activity features of the main enzyme components of rohapect 10L. *Biotechnology Progress*, **2019**, 35, e2877	2.8	8
436	Further stabilization of lipase from Pseudomonas fluorescens immobilized on octyl coated nanoparticles via chemical modification with bifunctional agents. *International Journal of Biological Macromolecules*, **2019**, 141, 313-324	7.7	30
435	Immobilization of lipases on hydrophobic supports: immobilization mechanism, advantages, problems, and solutions. *Biotechnology Advances*, **2019**, 37, 746-770	17.3	239
434	Novozym 435: the "perfect" lipase immobilized biocatalyst?. *Catalysis Science and Technology*, **2019**, 9, 2380-2420	5.4	215
433	Chitosan activated with divinyl sulfone: a new heterofunctional support for enzyme immobilization. Application in the immobilization of lipase B from Candida antarctica. *International Journal of Biological Macromolecules*, **2019**, 130, 798-809	7.7	73
432	Preparation of Crosslinked Enzyme Aggregates of a Thermostable Cyclodextrin Glucosyltransferase from Thermoanaerobacter sp. Critical Effect of the Crosslinking Agent. *Catalysts*, **2019**, 9, 120	3.9	17
431	Immobilization and stabilization of different β-glucosidases using the glutaraldehyde chemistry: Optimal protocol depends on the enzyme. *International Journal of Biological Macromolecules*, **2019**, 129, 672-678	7.7	45
430	Ethyl Butyrate Synthesis Catalyzed by Lipases A and B from Immobilized onto Magnetic Nanoparticles. Improvement of Biocatalysts' Performance under Ultrasonic Irradiation. *International Journal of Molecular Sciences*, **2019**, 20,	6.1	25
429	Improving the Yields and Reaction Rate in the Ethanolysis of Soybean Oil by Using Mixtures of Lipase CLEAs. *Molecules*, **2019**, 24,	4.7	20
428	Genipin as An Emergent Tool in the Design of Biocatalysts: Mechanism of Reaction and Applications. *Catalysts*, **2019**, 9, 1035	3.9	25
427	Multipurpose fixed-bed bioreactor to simplify lipase production by solid-state fermentation and application in biocatalysis. *Biochemical Engineering Journal*, **2019**, 144, 1-7	4.2	15
426	Cooperativity of covalent attachment and ion exchange on alcalase immobilization using glutaraldehyde chemistry: Enzyme stabilization and improved proteolytic activity. *Biotechnology Progress*, **2019**, 35, e2768	2.8	12
425	Immobilization on octyl-agarose beads and some catalytic features of commercial preparations of lipase a from Candida antarctica (Novocor ADL): Comparison with immobilized lipase B from Candida antarctica. *Biotechnology Progress*, **2019**, 35, e2735	2.8	30

424	Effects of Reaction Operation Policies on Properties of Core‐Shell Polymer Supports Used for Preparation of Highly Active Biocatalysts. *Macromolecular Reaction Engineering*, **2019**, 13, 1800055	1.5	4
423	Comparison of acid, basic and enzymatic catalysis on the production of biodiesel after RSM optimization. *Renewable Energy*, **2019**, 135, 1-9	8	59
422	ULTRASOUND-ASSISTED TRANSESTERIFICATION OF SOYBEAN OIL USING COMBI-LIPASE BIOCATALYSTS. *Brazilian Journal of Chemical Engineering*, **2019**, 36, 995-1005	1.6	12
421	STABILIZATION STUDY OF TETRAMERIC Kluyveromyces lactis β-GALACTOSIDASE BY IMMOBILIZATION ON IMMOBEAD: THERMAL, PHYSICO-CHEMICAL, TEXTURAL AND CATALYTIC PROPERTIES. *Brazilian Journal of Chemical Engineering*, **2019**, 36, 1403-1417	1.6	4
420	Enzymatic esterification of palm fatty-acid distillate for the production of polyol esters with biolubricant properties. *Industrial Crops and Products*, **2018**, 116, 90-96	5.8	47
419	Transesterification of Waste Frying Oil and Soybean Oil by Combi-lipases Under Ultrasound-Assisted Reactions. *Applied Biochemistry and Biotechnology*, **2018**, 186, 576-589	3.1	50
418	Magnetic biocatalysts of pectinase and cellulase: Synthesis and characterization of two preparations for application in grape juice clarification. *International Journal of Biological Macromolecules*, **2018**, 115, 35-44	7.7	38
417	Different strategies to immobilize lipase from Geotrichum candidum: Kinetic and thermodynamic studies. *Process Biochemistry*, **2018**, 67, 55-63	4.7	38
416	Biotechnological Applications of Proteases in Food Technology. *Comprehensive Reviews in Food Science and Food Safety*, **2018**, 17, 412-436	15.8	105
415	Lipase Regioselective O-Acetylations of a myo-Inositol Derivative: Efficient Desymmetrization of 1,3-Di-O-benzyl-myo-inositol. *European Journal of Organic Chemistry*, **2018**, 2018, 386-391	3.1	8
414	Stabilization of dimeric β-glucosidase from Aspergillus niger via glutaraldehyde immobilization under different conditions. *Enzyme and Microbial Technology*, **2018**, 110, 38-45	3.7	55
413	Improved production of biolubricants from soybean oil and different polyols via esterification reaction catalyzed by immobilized lipase from Candida rugosa. *Fuel*, **2018**, 215, 705-713	7	77
412	Enzymatic synthesis of ethyl esters from waste oil using mixtures of lipases in a plug-flow packed-bed continuous reactor. *Biotechnology Progress*, **2018**, 34, 952-959	2.8	28
411	Modification of Immobead 150 support for protein immobilization: Effects on the properties of immobilized Aspergillus oryzae β-galactosidase. *Biotechnology Progress*, **2018**, 34, 934-943	2.8	8
410	1,3-Regiospecific ethanolysis of soybean oil catalyzed by crosslinked porcine pancreas lipase aggregates. *Biotechnology Progress*, **2018**, 34, 910-920	2.8	18
409	Kinetic resolution of drug intermediates catalyzed by lipase B from Candida antarctica immobilized on immobead-350. *Biotechnology Progress*, **2018**, 34, 878-889	2.8	74
408	Optimization of the coating of octyl-CALB with ionic polymers to improve stability and decrease enzyme leakage. *Biocatalysis and Biotransformation*, **2018**, 36, 47-56	2.4	31
407	A new heterofunctional amino-vinyl sulfone support to immobilize enzymes: Application to the stabilization of β-galactosidase from A spergillus oryzae. *Process Biochemistry*, **2018**, 64, 200-205	4.7	24

406	Selective synthesis of partial glycerides of conjugated linoleic acids via modulation of the catalytic properties of lipases by immobilization on different supports. *Food Chemistry*, **2018**, 245, 39-46	8.3	17
405	Kinetic characterization of carbonic anhydrase immobilized on magnetic nanoparticles as biocatalyst for CO2 capture. *Biochemical Engineering Journal*, **2018**, 138, 1-11	4.2	17
404	Preparation and characterization of cross-linked enzyme aggregates of dextransucrase from Leuconostoc mesenteroides B-512F. *Process Biochemistry*, **2018**, 71, 101-108	4.7	7
403	Immobilization/Stabilization of Ficin Extract on Glutaraldehyde-Activated Agarose Beads. Variables That Control the Final Stability and Activity in Protein Hydrolyses. *Catalysts*, **2018**, 8, 149	3.9	48
402	Maltose Production Using Starch from Cassava Bagasse Catalyzed by Cross-Linked Amylase Aggregates. *Catalysts*, **2018**, 8, 170	3.9	22
401	Bioprocess development for biolubricant production using microbial oil derived via fermentation from confectionery industry wastes. *Bioresource Technology*, **2018**, 267, 311-318	11	41
400	Performance of Different Immobilized Lipases in the Syntheses of Short- and Long-Chain Carboxylic Acid Esters by Esterification Reactions in Organic Media. *Molecules*, **2018**, 23,	4.7	20
399	Solid phase chemical modification of agarose glyoxyl-ficin: Improving activity and stability properties by amination and modification with glutaraldehyde. *Process Biochemistry*, **2018**, 73, 109-116	4.7	17
398	Immobilization of galactosidase in glutaraldehyde-chitosan and its application to the synthesis of lactulose using cheese whey as feedstock. *Process Biochemistry*, **2018**, 73, 65-73	4.7	26
397	Pilot-scale development of core shell polymer supports for the immobilization of recombinant lipase B from Candida antarctica and their application in the production of ethyl esters from residual fatty acids. *Journal of Applied Polymer Science*, **2018**, 135, 46727	2.8	21
396	Further Stabilization of Alcalase Immobilized on Glyoxyl Supports: Amination Plus Modification with Glutaraldehyde. *Molecules*, **2018**, 23,	4.7	13
395	Evaluation of Strategies to Produce Highly Porous Cross-Linked Aggregates of Porcine Pancreas Lipase with Magnetic Properties. *Molecules*, **2018**, 23,	4.7	28
394	Immobilization of Eversa Lipase on Octyl Agarose Beads and Preliminary Characterization of Stability and Activity Features. *Catalysts*, **2018**, 8, 511	3.9	34
393	Preparation of Magnetic Cross-Linked Amyloglucosidase Aggregates: Solving Some Activity Problems. *Catalysts*, **2018**, 8, 496	3.9	26
392	Design of Bactericidal Peptides Against Escherichia coli O157:H7, Pseudomonas aeruginosa and methicillin-resistant Staphylococcus aureus. *Medicinal Chemistry*, **2018**, 14, 741-752	1.7	2
391	The Protagonism of Biocatalysis in Green Chemistry and Its Environmental Benefits. *Catalysts*, **2017**, 7, 9	3.9	49
390	Effect of high salt concentrations on the stability of immobilized lipases: Dramatic deleterious effects of phosphate anions. *Process Biochemistry*, **2017**, 62, 128-134	4.7	33
389	Effect of feather meal as proteic feeder on combi-CLEAs preparation for grape juice clarification. *Process Biochemistry*, **2017**, 62, 122-127	4.7	14

388	Combination of ultrasound, enzymes and mechanical stirring: A new method to improve Vitis vinifera Cabernet Sauvignon must yield, quality and bioactive compounds. *Food and Bioproducts Processing*, **2017**, 105, 197-204	4.7	12
387	Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. *Journal of Materials Chemistry B*, **2017**, 5, 7461-7490	7.1	154
386	Improved stability of immobilized lipases via modification with polyethylenimine and glutaraldehyde. *Enzyme and Microbial Technology*, **2017**, 106, 67-74	3.7	44
385	Improvement of pectinase, xylanase and cellulase activities by ultrasound: Effects on enzymes and substrates, kinetics and thermodynamic parameters. *Process Biochemistry*, **2017**, 61, 80-87	4.7	30
384	Relevance of substrates and products on the desorption of lipases physically adsorbed on hydrophobic supports. *Enzyme and Microbial Technology*, **2017**, 96, 30-35	3.7	89
383	Desorption of Lipases Immobilized on Octyl-Agarose Beads and Coated with Ionic Polymers after Thermal Inactivation. Stronger Adsorption of Polymers/Unfolded Protein Composites. *Molecules*, **2017**, 22,	4.7	36
382	Synthesis of Benzyl Acetate Catalyzed by Lipase Immobilized in Nontoxic Chitosan-Polyphosphate Beads. *Molecules*, **2017**, 22,	4.7	36
381	Exploiting the Versatility of Aminated Supports Activated with Glutaraldehyde to Immobilize β-galactosidase from Aspergillus oryzae. *Catalysts*, **2017**, 7, 250	3.9	41
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