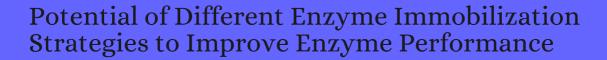
CITATION REPORT List of articles citing



DOI: 10.1002/adsc.201100534 Advanced Synthesis and Catalysis, 2011, 353, 2885-2904.

Source: https://exaly.com/paper-pdf/51487292/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1295	An efficient method for enzyme immobilization evidenced by atomic force microscopy. 2012 , 25, 715-23	3	20
1294	Porous cross linked enzyme aggregates (p-CLEAs) of Saccharomyces cerevisiae invertase. 2012 , 2, 1575		46
1293	From Diols to Lactones under Aerobic Conditions using a Laccase/TEMPO Catalytic System in Aqueous Medium. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 3405-3408	5.6	52
1292	Positively charged mini-protein Zbasic2 as a highly efficient silica binding module: opportunities for enzyme immobilization on unmodified silica supports. 2012 , 28, 10040-9		62
1291	Block copolymer-quantum dot micelles for multienzyme colocalization. 2012 , 28, 17389-95		29
1290	Chemical modification of lactase for immobilization on carboxylic acid-functionalized microspheres. 2012 , 30, 446-454		5
1289	Preparation of human milk fat substitutes from palm stearin with arachidonic and docosahexaenoic acid: combination of enzymatic and physical methods. 2012 , 60, 9415-23		35
1288	Versatility of glutaraldehyde to immobilize lipases: Effect of the immobilization protocol on the properties of lipase B from Candida antarctica. <i>Process Biochemistry</i> , 2012 , 47, 1220-1227	4.8	167
1287	Enzyme is stabilized by a protection layer of ionic liquids in supercritical CO2: Insights from molecular dynamic simulation. 2012 , 69, 1-7		30
1286	Evaluation of immobilized lipases on poly-hydroxybutyrate beads to catalyze biodiesel synthesis. <i>International Journal of Biological Macromolecules</i> , 2012 , 50, 503-11	7.9	73
1285	Enhanced productivity of electrospun polyvinyl alcohol nanofibrous mats using aqueous N,N-dimethylformamide solution and their application to lipase-immobilizing membrane-shaped catalysts. 2012 , 114, 204-8		10
1284	A new thermostable Eglucosidase mined from Dictyoglomus thermophilum: properties and performance in octyl glucoside synthesis at high temperatures. 2012 , 118, 425-30		24
1283	Preparation and characterization of porous cross linked laccase aggregates for the decolorization of triphenyl methane and reactive dyes. 2012 , 119, 28-34		64
1282	Enzyme-assisted aqueous extraction of lipid from microalgae. 2012 , 60, 11771-6		102
1281	Enhanced thermostability of enzymes accommodated in thermo-responsive nanopores. 2012 , 3, 3398		26
1280	Immobilization in biotechnology and biorecognition: from macro- to nanoscale systems. 2012, 66,		33
1279	Reversible immobilization of glucoamylase onto metalligand functionalized magnetic FeSBA-15. 2012 , 68, 159-166		33

1278	Chemical amination of lipase B from Candida antarctica is an efficient solution for the preparation of crosslinked enzyme aggregates. <i>Process Biochemistry</i> , 2012 , 47, 2373-2378	4.8	50
1277	Enzyme-gelatin electrochemical biosensors: scaling down. 2012 , 2, 101-13		12
1276	Immobilization of Pseudomonas fluorescens lipase onto magnetic nanoparticles for resolution of 2-octanol. 2012 , 168, 697-707		37
1275	Immobilization of Lecitase Ultra onto a novel polystyrene DA-201 resin: characterization and biochemical properties. 2012 , 168, 1108-20		18
1274	Immobilization of lipase from grey mullet. 2012 , 168, 2105-22		5
1273	Immobilization of Mucor miehei Lipase onto Macroporous Aminated Polyethersulfone Membrane for Enzymatic Reactions. 2012 , 2, 198-213		18
1272	Oriented and selective enzyme immobilization on functionalized silica carrier using the cationic binding module Z basic2: design of a heterogeneous D-amino acid oxidase catalyst on porous glass. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 1490-8	4.9	45
1271	Crosslinked aggregates of Rhizopus oryzae lipase as industrial biocatalysts: preparation, optimization, characterization, and application for enantioselective resolution reactions. 2012 , 28, 937-4	45	22
1270	Effect of the support size on the properties of Egalactosidase immobilized on chitosan: advantages and disadvantages of macro and nanoparticles. 2012 , 13, 2456-64		109
1269	Properties of catechol 2,3-dioxygenase from crude extract of Stenotrophomonas maltophilia strain KB2 immobilized in calcium alginate hydrogels. 2012 , 66, 1-7		40
1268	Optimized preparation of CALB-CLEAs by response surface methodology: The necessity to employ a feeder to have an effective crosslinking. 2012 , 80, 7-14		66
1267	A comparative performance evaluation of jute and eggshell matrices to immobilize pancreatic lipase. <i>Process Biochemistry</i> , 2012 , 47, 749-757	4.8	25
1266	The slow-down of the CALB immobilization rate permits to control the inter and intra molecular modification produced by glutaraldehyde. <i>Process Biochemistry</i> , 2012 , 47, 766-774	4.8	49
1265	ChemInform Abstract: Potential of Different Enzyme Immobilization Strategies to Improve Enzyme Performance 2012 , 43, no-no		2
1264	Alginate/protamine/silica hybrid capsules with ultrathin membranes for laccase immobilization. 2013 , 59, 380-389		29
1263	Assessment of immobilized PGA orientation via the LC-MS analysis of tryptic digests of the wild type and its 3K-PGA mutant assists in the rational design of a high-performance biocatalyst. 2013 , 405, 745-53		10
1262	Immobilized Pseudomonas sp. lipase: A powerful biocatalyst for asymmetric acylation of (⊞)-2-amino-1-phenylethanols with vinyl acetate. <i>Process Biochemistry</i> , 2013 , 48, 819-830	4.8	18
1261	Hydrophobic adsorption and covalent immobilization of Candida antarctica lipase B on mixed-function-grafted silica gel supports for continuous-flow biotransformations. <i>Process Biochemistry</i> 2013 48, 1039-1047	4.8	37

1260	Heterofunctional supports in enzyme immobilization: from traditional immobilization protocols to opportunities in tuning enzyme properties. 2013 , 14, 2433-62		358
1259	Immobilization of penicillin G acylase on macrocellular heterogeneous silica-based monoliths. 2013 , 96, 1-5		21
1258	Characterization of the catalytic properties of lipases from plant seeds for the production of concentrated fatty acids from different vegetable oils. 2013 , 49, 462-470		36
1257	The control of Novozym 435 chemoselectivity and specificity by the solvents in acylation reactions of amino-alcohols. 2013 , 95, 99-110		20
1256	A general strategy for protein immobilization in layered titanates: polyelectrolyte-assisted self-assembly. 2013 , 53, 79-84		17
1255	Improving stability of nitrile hydratase by bridging the salt-bridges in specific thermal-sensitive regions. 2012 , 164, 354-62		64
1254	Hierarchical meso-macroporous silica grafted with glyoxyl groups: opportunities for covalent immobilization of enzymes. 2013 , 30, 500-6		37
1253	Enzymatic hydrolysis of racemic ibuprofen esters using Rhizomucor miehei lipase immobilized on different supports. <i>Process Biochemistry</i> , 2013 , 48, 669-676	4.8	29
1252	Quantitating intraparticle O2 gradients in solid supported enzyme immobilizates: experimental determination of their role in limiting the catalytic effectiveness of immobilized glucose oxidase. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2086-95	4.9	28
1251	Molecular orientation of enzymes attached to surfaces through defined chemical linkages at the solid-liquid interface. 2013 , 135, 12660-9		62
1250	The study on effective immobilization of lipase on functionalized bentonites and their properties. 2013 , 95, 9-15		12
1249	Ordered mesoporous materials containing Mucor Miehei Lipase as biocatalyst for transesterification reaction. <i>Process Biochemistry</i> , 2013 , 48, 831-837	4.8	20
1248	Stabilization of semi-solid-state starch by branching enzyme-assisted chain-transfer catalysis at extreme substrate concentration. 2013 , 72, 1-10		21
1247	Preparation of pharmaceutical important fluorinated 1-arylethanols using isolated enzymes. 2013 , 51, 31-47		15
1246	Optimization of the immobilization of sweet potato amylase using glutaraldehyde-agarose support. Characterization of the immobilized enzyme. <i>Process Biochemistry</i> , 2013 , 48, 1054-1058	4.8	43
1245	Improving the activity and stability of Yarrowia lipolytica lipase Lip2 by immobilization on polyethyleneimine-coated polyurethane foam. 2013 , 91, 59-66		40
1244	Multimeric immobilization of alcohol oxidase on electrospun fibers for valid tests of alcoholic saliva. 2013 , 168, 46-54		14
1243	Continuous production of Eyclodextrin from starch by highly stable cyclodextrin glycosyltransferase immobilized on chitosan. 2013 , 98, 1311-6		43

1242	Catalytic activity and thermostability of enzymes immobilized on silanized surface: influence of the crosslinking agent. 2013 , 52, 336-43	44
1241	Fabrication of Boehmite/Alginate Hybrid Beads for Efficient Enzyme Immobilization. 2013 , 52, 14898-14905	18
1240	Stabilization of the hexameric glutamate dehydrogenase from Escherichia coli by cations and polyethyleneimine. 2013 , 52, 211-7	40
1239	Immobilization of Candida cylindracea lipase on poly lactic acid, polyvinyl alcohol and chitosan based ternary blend film: Characterization, activity, stability and its application for N-acylation 4.8 reactions. <i>Process Biochemistry</i> , 2013 , 48, 1335-1347	71
1238	Preparation and properties of adsorption material from corn stalks core when used for enzyme immobilization and the subsequent activities of the adsorbed enzymes. 2013 , 50, 787-796	25
1237	Catalytic properties of lipases immobilized onto ultrasound-treated chitosan supports. 2013 , 18, 1090-1100	12
1236	Application of a chitosan-immobilized Talaromyces thermophilus lipase to a batch biodiesel production from waste frying oils. 2013 , 171, 1986-2002	21
1235	Bifunctional graphene/FetDthybrid aerogels with double nanocrystalline networks for enzyme immobilization. 2013 , 9, 2331-40	111
1234	Formation of lipase Candida sp. 99🛘 25 CLEAs in mesoporous silica: characterization and catalytic properties. 2013 , 3, 3353	34
1233	Influence of substituent groups in regioselective acylation of nucleosides by Novozym 435 lipase. **Process Biochemistry, 2013 , 48, 1208-1211** 4.8	16
1232	Enantioselective transesterification of N-hydroxymethyl vince lactam catalyzed by lipase under ultrasound irradiation. 2013 , 31, 299-304	6
1231	Enzyme-Based Technologies: Perspectives and Opportunities. 2013 , 15-27	
1230	Immobilized enzymes Ivaluable tools for the indication of temperature events. 2013, 31, 100-113	2
1229	Immobilization of lipase on amino-cyclodextrin functionalized carbon nanotubes for enzymatic catalysis at the ionic liquid-organic solvent interface. 2013 , 102, 124-9	21
1228	A novel approach for efficient immobilization and stabilization of papain on magnetic gold nanocomposites. 2013 , 101, 280-9	66
1227	Protein hydrolysis using proteases: An important tool for food biotechnology. 2013 , 90, 1-11	284
1226	Biomimetic Multienzyme Complexes Based on Nanoscale Platforms. 2013 , 59, 355-360	28
1225	Improvements of lipase performance in high-viscosity system by immobilization onto a novel kind of poly(methylmethacrylate-co-divinylbenzene) encapsulated porous magnetic microsphere carrier. 2013 , 89, 86-92	26

1224	Kinetic study of the acidolysis of high oleic sunflower oil with stearicpalmitic acid mixtures catalysed by immobilised Rhizopus oryzae lipase. 2013 , 73, 17-28	20
1223	Biotechnological prospects of the lipase from Mucor javanicus. 2013 , 93, 34-43	17
1222	Fouling-induced enzyme immobilization for membrane reactors. 2013 , 147, 260-268	48
1221	Optimization of synthesis of fatty acid methyl esters catalyzed by lipase B from Candida antarctica immobilized on hydrophobic supports. 2013 , 94, 51-56	41
1220	Convenient one-step purification and immobilization of lipase using a genetically encoded aldehyde tag. 2013 , 73, 86-92	22
1219	Isocyanate-mediated covalent immobilization of Mucor miehei lipase onto SBA-15 for transesterification reaction. 2013 , 112, 139-45	25
1218	Shine a light on immobilized enzymes: real-time sensing in solid supported biocatalysts. 2013 , 31, 194-203	45
1217	High operational stability of invertase from Saccharomyces cerevisiae immobilized on chitosan nanoparticles. 2013 , 92, 462-8	57
1216	Immobilization of tyrosinase on modified diatom biosilica: enzymatic removal of phenolic compounds from aqueous solution. 2013 , 244-245, 528-36	77
1215	Reversible immobilization of glucoamylase onto magnetic chitosan nanocarriers. 2013 , 97, 681-92	74
1214	Evaluation of immobilized enzymes for industrial applications. <i>Chemical Society Reviews</i> , 2013 , 42, 6236- 49 .5	446
1213	Designing Inorganic Porous Materials for Enzyme Adsorption and Applications in Biocatalysis. 2013 , 5, 862-884	87
1212	Novel trypsin-FITC@MOF bioreactor efficiently catalyzes protein digestion. 2013, 1, 928-932	133
1211	Enzyme immobilisation in biocatalysis: why, what and how. <i>Chemical Society Reviews</i> , 2013 , 42, 6223-35 58.5	1681
1210	Characterization of horseradish peroxidase immobilized on PEGylated polyurethane nanoparticles and its application for dopamine detection. 2013 , 182, 264-272	48
1209	Preparation of a magnetically recoverable biocatalyst support on monodisperse Fe3O4 nanoparticles. 2013 , 3, 9924	24
1208	Parameters in preparation and characterization of cross linked enzyme aggregates (CLEAs). 2013 , 3, 12485	160
1207	Protein engineering of enzymes for process applications. 2013 , 17, 310-6	133

1206	Temperature-responsive enzyme-polymer nanoconjugates with enhanced catalytic activities in organic media. 2013 , 49, 6090-2		56	
1205	Immobilized lipase on porous silica particles: Preparation and application for biodegradable polymer syntheses in ionic liquid at higher temperature. 2013 , 94, 129-135		13	
1204	Controlling performance of lipase immobilised on bioinspired silica. 2013 , 1, 1164-1174		37	
1203	Improved production of butyl butyrate with lipase from Thermomyces lanuginosus immobilized on styrene-divinylbenzene beads. 2013 , 134, 417-22		81	
1202	Enzymatic Esterification of Oleic Acid with Aliphatic Alcohols for the Biodiesel Production by Candida antarctica Lipase. 2013 , 143, 863-872		38	
1201	Immobilisation of hydroxynitrile lyases. <i>Chemical Society Reviews</i> , 2013 , 42, 6308-21	58.5	43	
1200	His-tagged Horse Liver Alcohol Dehydrogenase: Immobilization and application in the bio-based enantioselective synthesis of (S)-arylpropanols. <i>Process Biochemistry</i> , 2013 , 48, 810-818	4.8	28	
1199	Characterization of lactase-conjugated magnetic nanoparticles. <i>Process Biochemistry</i> , 2013 , 48, 656-662	4.8	31	
1198	Catalytic Saloplastics: Alkaline Phosphatase Immobilized and Stabilized in Compacted Polyelectrolyte Complexes. 2013 , 23, n/a-n/a		9	
1197	High stability of immobilized ED-galactosidase for lactose hydrolysis and galactooligosaccharides synthesis. 2013 , 95, 465-70		73	
1196	Enzymatic activity preservation and protection through entrapment within degradable hydrogels. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2994-3002	4.9	13	
1195	Versatile peroxidase of Bjerkandera fumosa: substrate and inhibitor specificity. 2013 , 52, 44-53		17	
1194	Solid-phase modification with succinic polyethyleneglycol of aminated lipase B from Candida antarctica: Effect of the immobilization protocol on enzyme catalytic properties. 2013 , 87, 75-82		15	
1193	Synthesis of phytosteryl ester containing pinolenic acid in a solvent-free system using immobilized Candida rugosa lipase. 2013 , 61, 8934-40		32	
1192	Modification of Alcalase SphereZymeIby entrapment in LentiKats to impart improved particle stability. 2013 , 31, 71-78		4	
1191	Porous ceramic monoliths assembled from microbeads with high specific surface area for effective biocatalysis. 2013 , 3, 13381		10	
1190	Biocatalytic performance of pH-sensitive magnetic nanoparticles derived from layer-by-layer ionic self-assembly of chitosan with glucoamylase. 2013 , 8, 3116-22		5	
1189	Resolution of N-hydroxymethyl vince lactam catalyzed by lipase in organic solvent. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 904-909	3.5	10	

1188	Modifying enzyme activity and selectivity by immobilization. <i>Chemical Society Reviews</i> , 2013 , 42, 6290-30	<i>5</i> 78.5	1298
1187	Potential applications of carbohydrases immobilization in the food industry. 2013 , 14, 1335-69		49
1186	Structure-guided modification of Rhizomucor miehei lipase for production of structured lipids. 2013 , 8, e67892		6
1185	Optimized butyl butyrate synthesis catalyzed by Thermomyces lanuginosus lipase. 2013 , 29, 1416-21		18
1184	Enhanced stability of newly isolated trimeric l-methionine-N-carbamoylase from Brevibacillus reuszeri HSN1 by covalent immobilization. 2013 , 60, 305-15		5
1183	Preparation of solid surfaces for native chemical ligation in the quartz crystal microbalance. 2013 , 45, 1799-1804		
1182	Improving activity and enantioselectivity of lipase via immobilization on macroporous resin for resolution of racemic 1- phenylethanol in non-aqueous medium. 2013 , 13, 92		20
1181	Activity of laccase immobilized on TiO2-montmorillonite complexes. 2013 , 14, 12520-32		43
1180	Preparation of polyphosphazene hydrogels for enzyme immobilization. <i>Molecules</i> , 2014 , 19, 9850-63	4.8	14
1179	Nucleoside 2'-deoxyribosyltransferase from psychrophilic bacterium Bacillus psychrosaccharolyticuspreparation of an immobilized biocatalyst for the enzymatic synthesis of therapeutic nucleosides. <i>Molecules</i> , 2014 , 19, 11231-49	4.8	19
1178	Influence of the morphology of core-shell supports on the immobilization of lipase B from Candida antarctica. <i>Molecules</i> , 2014 , 19, 12509-30	4.8	28
1177	Enzymatic cellulose hydrolysis: enzyme reusability and visualization of Eglucosidase immobilized in calcium alginate. <i>Molecules</i> , 2014 , 19, 19390-406	4.8	36
1176	Dissecting Physical and Biochemical Factors of Catalytic Effectiveness in Immobilized D-Amino Acid Oxidase by Real-Time Sensing of O2 Availability Inside Porous Carriers. 2014 , 6, 981-986		14
1175	A Systematic Study of the Catalytic Behavior at EnzymeMetal-Oxide Nanointerfaces. 2014 , 04, 1450005		12
1174	Enzymatic resolution of ibuprofen in an organic solvent under ultrasound irradiation. 2014 , 61, 655-9		2
1173	Immobilized Drosophila melanogaster Deoxyribonucleoside Kinase (DmdNK) as a High Performing Biocatalyst for the Synthesis of Purine Arabinonucleotides. <i>Advanced Synthesis and Catalysis</i> , 2014 , 356, 563-570	5.6	22
1172	Nanorods with Biocatalytically Induced Self-Electrophoresis. 2014 , 6, 866-872		24
1171	Esterification of fatty acids by Penicillium crustosum lipase in a membrane reactor. 2014 , 94, 2905-11		4

1170	Enzyme immobilization on polymethacrylate-based monolith fabricated via thermally induced phase separation. 2014 , 109, 362-366		14
1169	Carbon nanotubes as supports for inulinase immobilization. <i>Molecules</i> , 2014 , 19, 14615-24	4.8	19
1168	Reusable and mediator-free cholesterol biosensor based on cholesterol oxidase immobilized onto TGA-SAM modified smart bio-chips. 2014 , 9, e100327		22
1167	Enhancing trimethylolpropane esters synthesis through lipase immobilized on surface hydrophobic modified support and appropriate substrate feeding methods. 2014 , 58-59, 60-7		12
1166	Novel hybrid materials on the basis of nanostructured tin dioxide and a lipase from Rhizopus delemar with improved enantioselectivity. 2014 , 102, 72-80		6
1165	Enantioselective resolution of racemic ibuprofen esters using different lipases immobilized on octyl sepharose. 2014 , 104, 87-94		30
1164	Miniaturised enzymatic conductometric biosensor with Nafion membrane for the direct determination of formaldehyde in water samples. 2014 , 406, 1039-48		8
1163	Characterization, analysis, and application of fabricated Fe3O4-chitosan-pectinase nanobiocatalyst. 2014 , 172, 2706-19		31
1162	Immobilization of Thermomyces lanuginosus lipase by different techniques on Immobead 150 support: characterization and applications. 2014 , 172, 2507-20		25
1161	Understanding enzymatic acceleration at nanoparticle interfaces: Approaches and challenges. 2014 , 9, 102-131		147
1160	Application of lipase immobilized on the biocompatible ternary blend polymer matrix for synthesis of citronellyl acetate in non-aqueous media: kinetic modelling study. 2014 , 57, 16-25		48
1159	Engineering of Thermomyces lanuginosus lipase Lip: creation of novel biocatalyst for efficient biosynthesis of chiral intermediate of Pregabalin. 2014 , 98, 2473-83		23
1158	Covalent immobilization of alcohol dehydrogenase (ADH2) from Haloferax volcanii: how to maximize activity and optimize performance of halophilic enzymes. 2014 , 56, 240-7		20
1157	Uml2 is a novel CalB-type lipase of Ustilago maydis with phospholipase A activity. 2014 , 98, 4963-73		11
1156	Heterofunctional hydrophilic-hydrophobic porous silica as support for multipoint covalent immobilization of lipases: application to lactulose palmitate synthesis. 2014 , 30, 3557-66		94
1155	Synthesis of functionalized polyethylenimine-grafted mesoporous silica spheres and the effect of side arms on lipase immobilization and application. 2014 , 88, 131-141		55
1154	Carrier-free immobilization of lipase from Candida rugosa with polyethyleneimines by carboxyl-activated cross-linking. 2014 , 15, 1896-903		48
1153	Carbon Nanotubes as Activating Tyrosinase Supports for the Selective Synthesis of Catechols. 2014 , 4, 810-822		43

1152	Microscopic monitoring provides information on structure and properties during biocatalyst immobilization. 2014 , 9, 852-60		9
1151	Synthesis of geranyl acetate in non-aqueous media using immobilized Pseudomonas cepacia lipase on biodegradable polymer film: Kinetic modelling and chain length effect study. <i>Process Biochemistry</i> , 2014 , 49, 1304-1313	4.8	59
1150	Antimicrobial activity of n-butyl lactate obtained via enzymatic esterification of lactic acid with n-butanol in supercritical trifluoromethane. 2014 , 85, 143-150		14
1149	Improvement of the stability and selectivity of Rhizomucor miehei lipase immobilized on silica nanoparticles: Selective hydrolysis of fish oil using immobilized preparations. <i>Process Biochemistry</i> , 2014 , 49, 1314-1323	4.8	40
1148	Bisepoxide Cross-Linked Enzyme AggregatesNew Immobilized Biocatalysts for Selective Biotransformations. 2014 , 6, n/a-n/a		3
1147	Immobilization of porcine pancreatic lipase on poly-hydroxybutyrate particles for the production of ethyl esters from macaw palm oils and pineapple flavor. 2014 , 82, 139-149		53
1146	Preparation of coreShell polymer supports to immobilize lipase B from Candida antarctica. 2014 , 100, 59-67		62
1145	Biocatalytic synthesis of short-chain flavor esters with high substrate loading by a whole-cell lipase from Aspergillus oryzae. 2014 , 45, 59-62		23
1144	Easily handling penicillin G acylase magnetic cross-linked enzymes aggregates: Catalytic and morphological studies. <i>Process Biochemistry</i> , 2014 , 49, 38-46	4.8	34
1143	Glutaraldehyde in bio-catalysts design: a useful crosslinker and a versatile tool in enzyme immobilization. 2014 , 4, 1583-1600		536
1142	Recent trends and valorization of immobilization strategies and ligninolytic enzymes by industrial biotechnology. 2014 , 101, 56-66		177
1141	Immobilization of horseradish peroxidase in phospholipid-templated titania and its applications in phenolic compounds and dye removal. 2014 , 55, 1-6		50
1140	Preparation of reusable bioreactors using reversible immobilization of enzyme on monolithic porous polymer support with attached gold nanoparticles. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 50-8	4.9	44
1139	Polyelectrolyte Doped Hollow Nanofibers for Positional Assembly of Bienzyme System for Cascade Reaction at O/W Interface. 2014 , 4, 4548-4559		31
1138	Pectin cross-linked enzyme aggregates (pectin-CLEAs) of glucoamylase. 2014 , 4, 59444-59453		55
1137	Dual-enzyme natural motors incorporating decontamination and propulsion capabilities. 2014 , 4, 2756	5-2757	036
1136	Resolution of 1,1,1-trifluoro-2-octanol by Pseudomonas sp. lipase encapsulated in aggregated silica nanoparticles. 2014 , 4, 6103		2
1135	Modification of PEGylated enzyme with glutaraldehyde can enhance stability while avoiding intermolecular crosslinking. 2014 , 4, 28036-28040		8

1134	Simple Technique for Preparing Stable and Recyclable Cross-Linked Enzyme Aggregates with Crude-Pored Microspherical Silica Core. 2014 , 53, 16176-16182	22
1133	Amination of enzymes to improve biocatalyst performance: coupling genetic modification and physicochemical tools. 2014 , 4, 38350-38374	91
1132	Penicillium expansum lipase-coated magnetic Fe3O4polymer hybrid hollow nanoparticles: a highly recoverable and magnetically separable catalyst for the synthesis of 1,3-dibutylurea. 2014 , 4, 25983-25992	15
1131	Immobilization of papain on nanoporous silica. 2014 , 4, 13304-13312	10
1130	Coil fraction-dependent phase behaviour of a model globular protein-polymer diblock copolymer. 2014 , 10, 3093-102	27
1129	Combi-lipase for heterogeneous substrates: a new approach for hydrolysis of soybean oil using mixtures of biocatalysts. 2014 , 4, 6863-6868	64
1128	Sn-Fe cyanogels noncovalently grafted to carbon nanotubes in a versatile biointerface design: an efficient matrix and a facile platform for glucose oxidase immobilization. 2014 , 2, 4615-4624	7
1127	An efficient and recyclable enzyme catalytic system constructed through the synergy between biomimetic mineralization and polyamine-salt aggregate assembly. 2014 , 2, 4435-4441	11
1126	Enzyme immobilization in biosensor constructions: self-assembled monolayers of calixarenes containing thiols. 2014 , 4, 19900-19907	31
1125	Cross-linked polymer nanofibers for hyperthermophilic enzyme immobilization: approaches to improve enzyme performance. 2014 , 6, 11899-906	46
1124	A novel method for pullulanase immobilized onto magnetic chitosan/Fe3O4 composite nanoparticles by in situ preparation and evaluation of the enzyme stability. 2014 , 109, 53-61	37
1123	Enzyme catalytic efficiency: a function of bio-nano interface reactions. 2014 , 6, 5393-403	71
1122	Probing structural and catalytic characteristics of galactose oxidase confined in nanoscale chemical environments. 2014 , 4, 21939-21950	6
1121	Nanofibrous membranes for single-step immobilization of hyperthermophilic enzymes. 2014 , 472, 251-260	28
1120	Stabilization of Candida rugosa lipase on nanosized zirconia-based materials. 2014 , 108, 43-50	15
1119	Production of thermostable lipase by Thermomyces lanuginosus on solid-state fermentation: selective hydrolysis of sardine oil. 2014 , 174, 1859-72	17
1118	Versatile and Efficient Immobilization of 2-Deoxyribose-5-phosphate Aldolase (DERA) on Multiwalled Carbon Nanotubes. 2014 , 4, 3059-3068	16
1117	Preparation of robust biocatalyst based on cross-linked enzyme aggregates entrapped in three-dimensionally ordered macroporous silica. 2014 , 6, 2622-8	69

1116	Efficient 2-step biocatalytic strategies for the synthesis of all nor(pseudo)ephedrine isomers. 2014 , 16, 3341-3348	53
1115	Horseradish peroxidase (HRP) as a tool in green chemistry. 2014 , 4, 37244-37265	71
1114	Enzyme immobilization by adsorption: a review. 2014 , 20, 801-821	514
1113	Homologous yeast lipases/acyltransferases exhibit remarkable cold-active properties. 2014 , 98, 8927-36	18
1112	Preparation of reversibly immobilized Jack bean urease on microchannel surface and application for enzyme inhibition assay. 2014 , 17, 721-728	9
1111	Magnetic cross-linked laccase aggregatesbioremediation tool for decolorization of distinct classes of recalcitrant dyes. 2014 , 487, 830-9	113
1110	Improved performance of \oplus -amylase immobilized on poly(glycidyl methacrylate-co-ethylenedimethacrylate) beads. <i>International Journal of Biological Macromolecules</i> , 7.9 2014 , 65, 492-9	13
1109	Characteristics and Feasibility of Trans-Free Plastic Fats through Lipozyme TL IM-Catalyzed Interesterification of Palm Stearin and Akebia trifoliata Variety Australis Seed Oil. 2014 , 62, 3293-3300	24
1108	Optimization of Covalent Immobilization of Extracellular Ice Nucleators from Erwinia herbicola on Magnetic Fe3O4/Chitosan Nanoparticles for Potential Application in Freeze Concentration. 2014 , 7, 3259-326	58 ⁶
1107	Efficient improvement on stability of sarcosine oxidase via poly-lysine modification on enzyme surface. <i>International Journal of Biological Macromolecules</i> , 2014 , 67, 140-6	14
1106	Tuning of Lecitase features via solid-phase chemical modification: Effect of the immobilization protocol. <i>Process Biochemistry</i> , 2014 , 49, 604-616	50
1105	Lipozyme RM IM-catalyzed acidolysis of Cinnamomum camphora seed oil with oleic acid to produce human milk fat substitutes enriched in medium-chain fatty acids. 2014 , 62, 10594-603	21
1104	Enzyme Biofuel Cells: Thermodynamics, Kinetics and Challenges in Applicability. 2014 , 1, 1751-1777	82
1103	Improvement of chitosan derivatization for the immobilization of bacillus circulans Egalactosidase and its further application in galacto-oligosaccharide synthesis. 2014 , 62, 10126-35	22
1102	A new method for the enamination of 1,3-dicarbonyl compounds catalyzed by laccase in water. 2014 , 4, 19512-19515	7
1101	Efficient purification-immobilization of an organic solvent-tolerant lipase from Staphylococcus warneri EX17 on porous styrene-divinylbenzene beads. 2014 , 99, 51-55	17
1100	Enhancement of biodegradation potential of catechol 1,2-dioxygenase through its immobilization in calcium alginate gel. 2014 , 17, 83-88	32
1099	Preparation of stable cross-linked enzyme aggregates (CLEAs) of NADH-dependent nitrate reductase and its use for silver nanoparticle synthesis from silver nitrate. 2014 , 53, 62-66	38

1098	Nanostructured tin dioxide h promising multipurpose support material for catalytic and biocatalytic applications. 2014 , 252, 55-63		8
1097	Quantum dots and p-phenylenediamine based method for the sensitive determination of glucose. 2014 , 129, 20-5		12
1096	Immobilization of thermostable ∃-amylase from Bacillus licheniformis by cross-linked enzyme aggregates method using calcium and sodium ions as additives. 2014 , 108, 13-20		51
1095	Enzyme catalytic promiscuity: lipase catalyzed synthesis of substituted 2H-chromenes by a three-component reaction. 2014 , 4, 25633		35
1094	Bionanoconjugation for proteomics applications - An overview. 2014 , 32, 952-70		15
1093	Influence of counteranions on catalytic ability of immobilized laccase in Cu-alginate matrices: Inhibition of chloride and activation of acetate. 2014 , 25, 983-988		6
1092	Amino silicones finished fabrics for lipase immobilization: Fabrics finishing and catalytic performance of immobilized lipase. <i>Process Biochemistry</i> , 2014 , 49, 1488-1496	4.8	14
1091	Stabilizing hyperactivated lecitase structures through physical treatment with ionic polymers. <i>Process Biochemistry</i> , 2014 , 49, 1511-1515	4.8	43
1090	Bio and nanomaterials based on Fe3O4. <i>Molecules</i> , 2014 , 19, 21506-28	4.8	115
1089	Trends in protein-based biosensor assemblies for drug screening and pharmaceutical kinetic studies. <i>Molecules</i> , 2014 , 19, 12461-85	4.8	22
1088	Laccase immobilized on a PAN/adsorbents composite nanofibrous membrane for catechol treatment by a biocatalysis/adsorption process. <i>Molecules</i> , 2014 , 19, 3376-88	4.8	46
1087	Immobilization as a strategy for improving enzyme properties-application to oxidoreductases. <i>Molecules</i> , 2014 , 19, 8995-9018	4.8	326
1086	Immobilization of horseradish peroxidase on NH2-modified magnetic Fe3O4/SiO2 particles and its application in removal of 2,4-dichlorophenol. <i>Molecules</i> , 2014 , 19, 15768-82	4.8	89
1085	Evaluation of styrene-divinylbenzene beads as a support to immobilize lipases. <i>Molecules</i> , 2014 , 19, 762	294.485	44
1084	Application of iron magnetic nanoparticles in protein immobilization. <i>Molecules</i> , 2014 , 19, 11465-86	4.8	173
1083	Lipase-Catalyzed Kinetic Resolution of 1-(2-Hydroxycyclohexyl)Indoles in Batch and Continuous-Flow Systems. 2014 , 4, 125-134		8
1082	Immobilization of oxalate decarboxylase on a Zn-IMAC resin. 2015 , 4, 98-103		2
1081	Reversible immobilization of cephalosporin C acylase on epoxy supports coated with polyethyleneimine. 2015 , 33, 250-259		8

1080 Industrial Enzymes: An Introduction. **2015**, 311-326

1079	Mesoporous CLEAs-silica composite microparticles with high activity and enhanced stability. 2015 , 5, 14203	19
1078	Electrochemical recycling of gold nanofibrous membrane as an enzyme immobilizing carrier. 2015 , 280, 558-563	10
1077	Heterofunctional Magnetic Metal-Chelate-Epoxy Supports for the Purification and Covalent Immobilization of Benzoylformate Decarboxylase From Pseudomonas Putida and Its Carboligation Reactivity. 2015 , 27, 635-42	8
1076	Chiral Polyol Synthesis Catalyzed by a Thermostable Transketolase Immobilized on Layered Double Hydroxides in Ionic liquids. 2015 , 7, 3163-3170	16
1075	Recent Advances in Biocatalytic Promiscuity: Hydrolase-Catalyzed Reactions for Nonconventional Transformations. 2015 , 15, 743-59	71
1074	Atmospheric-Pressure Plasma Deposited Epoxy-Rich Thin Films as Platforms for Biomolecule Immobilization Application for Anti-Biofouling and Xenobiotic-Degrading Surfaces. 2015 , 12, 1208-1219	24
1073	A Green Chemoenzymatic Process for the Synthesis of Azoxybenzenes. 2015 , 7, 3450-3453	25
1072	Importance of the Support Properties for Immobilization or Purification of Enzymes. 2015 , 7, 2413-2432	387
1071	Engineering of Metabolic Pathways by Artificial Enzyme Channels. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015 , 3, 168	53
1070	Purification and immobilization of the recombinant Brassica oleracea Chlorophyllase 1 (BoCLH1) on DIAION□ CR11 as potential biocatalyst for the production of chlorophyllide and phytol. <i>Molecules</i> , 4.8 2015 , 20, 3744-57	11
1069	ABTS-Modified Silica Nanoparticles as Laccase Mediators for Decolorization of Indigo Carmine Dye. 2015 , 2015, 1-7	12
1068	Sporopollenin as an efficient green support for covalent immobilization of a lipase. 2015 , 5, 3130-3136	12
1067	Enzyme immobilization on silicate glass through simple adsorption of dendronized polymer। polymer। 5, 44530-44544	38
1066	Sustainable synthesis of N-acetyllactosamine using an immobilized Egalactosidase on a tailor made porous polymer. 2015 , 5, 40375-40383	8
1065	Calcium alginate matrix increases the stability and recycling capability of immobilized endo-E1,4-xylanase from Geobacillus stearothermophilus KIBGE-IB29. 2015 , 19, 819-27	24
1064	Immobilization of acetylcholinesterase on electrospun poly(acrylic acid)/multi-walled carbon nanotube nanofibrous membranes. 2015 , 5, 42572-42579	36
1063	Bovine trypsin immobilization on agarose activated with divinylsulfone: Improved activity and stability via multipoint covalent attachment. 2015 , 117, 38-44	77

1062	organophosphorus toxic agents protection. 2015 , 98, 47-55	9
1061	Synthesis and characterization of surface-functionalized paramagnetic nanoparticles and their application to immobilization of ∃-acetolactate decarboxylase. <i>Process Biochemistry</i> , 2015 , 50, 1388-139 ³ .8	11
1060	Immobilization of lipases on glyoxyloctyl supports: Improved stability and reactivation strategies. **Process Biochemistry*, 2015 , 50, 1211-1217 4.8	60
1059	Improvement of glycine oxidase by DNA shuffling, and site-saturation mutagenesis of F247 residue. International Journal of Biological Macromolecules, 2015, 79, 965-70 7.9	15
1058	Probing immobilization mechanism of alpha-chymotrypsin onto carbon nanotube in organic media by molecular dynamics simulation. 2015 , 5, 9297	26
1057	CRGO/alginate microbeads: an enzyme immobilization system and its potential application for a continuous enzymatic reaction. 2015 , 3, 9315-9322	16
1056	The Surface Characteristics of Chitosan Modified PSt-GMA Microspheres Influenced the Interactions and Properties of Immobilized Pepsin. 2015 , 52, 20-29	5
1055	Graphene-gold nanoparticle composite: application as a good scaffold for construction of glucose oxidase biosensor. 2015 , 49, 297-304	36
1054	Asymmetric hydrolysis of dimethyl-3-phenylglutarate in sequential batch reactor operation catalyzed by immobilized Geobacillus thermocatenulatus lipase. 2015 , 255, 21-26	29
1053	Insolubilization of inulinase on magnetite chitosan microparticles, an easily recoverable and reusable support. 2015 , 113, 47-55	26
1052	Immobilization of lipases on hydrophobic supports involves the open form of the enzyme. 2015 , 71, 53-7	355
1051	Covalent attachment of xylanase on functionalized magnetic nanoparticles and determination of its activity and stability. 2015 , 270, 235-243	96
1050	Characterization of supports activated with divinyl sulfone as a tool to immobilize and stabilize enzymes via multipoint covalent attachment. Application to chymotrypsin. 2015 , 5, 20639-20649	85
1049	Immobilization and stabilization of cephalosporin C acylase on aminated support by crosslinking with glutaraldehyde and further modifying with aminated macromolecules. 2015 , 31, 387-95	13
1048	Improved performance of lipases immobilized on heterofunctional octyl-glyoxyl agarose beads. 2015 , 5, 11212-11222	113
1047	Synthesis and characterization of robust magnetic carriers for bioprocess applications. 2015 , 193, 217-228	12
1046	Enzymatic reactors for biodiesel synthesis: Present status and future prospects. 2015 , 33, 511-25	124
1045	Engineering towards nitroreductase functionality in ene-reductase scaffolds. 2015 , 16, 811-8	9

1044	Efficient nitrogen-13 radiochemistry catalyzed by a highly stable immobilized biocatalyst. 2015 , 5, 2705-2713	22
1043	Superparamagnetic Fe3O4 nanoparticles modified by water-soluble and biocompatible polyethylenimine for lipase immobilization with physical and chemical mechanisms. 2015 , 5, 23039-23045	8
1042	Immobilization of Phenylalanine Ammonia-Lyase on Single-Walled Carbon Nanotubes for Stereoselective Biotransformations in Batch and Continuous-Flow Modes. 2015 , 7, 1122-1128	36
1041	Cross-linked protein crystals by glutaraldehyde and their applications. 2015 , 5, 26163-26174	50
1040	Immobilization of pullulanase onto activated magnetic chitosan/Fe3O4 nanoparticles prepared by in situ mineralization and effect of surface functional groups on the stability. 2015 , 472, 69-77	28
1039	Optimization and characterization of CLEAs of the very thermostable dimeric peroxidase from Roystonea regia. 2015 , 5, 53047-53053	5
1038	Tuning the catalytic properties of lipases immobilized on divinylsulfone activated agarose by altering its nanoenvironment. 2015 , 77, 1-7	57
1037	Enhanced Activity of Immobilized or Chemically Modified Enzymes. 2015 , 5, 4503-4513	278
1036	Synergistic effects of amine and protein modified epoxy-support on immobilized lipase activity. 2015 , 133, 51-7	14
1035	Enzyme engineering (immobilization) for food applications. 2015 , 213-235	7
1034	Immobilization of ∃-amylase on gold nanorods: An ideal system for starch processing. <i>Process Biochemistry</i> , 2015 , 50, 1394-1399	52
1034		52 14
1033	Biochemistry, 2015, 50, 1394-1399 Residue Asn277 affects the stability and substrate specificity of the SMG1 lipase from Malassezia	
1033	Biochemistry, 2015, 50, 1394-1399 Residue Asn277 affects the stability and substrate specificity of the SMG1 lipase from Malassezia globosa. 2015, 16, 7273-88	14
1033	Residue Asn277 affects the stability and substrate specificity of the SMG1 lipase from Malassezia globosa. 2015, 16, 7273-88 Current status and new developments of biodiesel production using fungal lipases. 2015, 159, 52-67 Accurel MP 1000 as a support for the immobilization of lipase from Burkholderia cepacia:	14 98
1033 1032 1031	Residue Asn277 affects the stability and substrate specificity of the SMG1 lipase from Malassezia globosa. 2015, 16, 7273-88 Current status and new developments of biodiesel production using fungal lipases. 2015, 159, 52-67 Accurel MP 1000 as a support for the immobilization of lipase from Burkholderia cepacia: Application to the kinetic resolution of myo-inositol derivatives. <i>Process Biochemistry</i> , 2015, 50, 1557-1564 Co-immobilization of enzymes with the help of a dendronized polymer and mesoporous silica	14 98 69
1033 1032 1031 1030	Residue Asn277 affects the stability and substrate specificity of the SMG1 lipase from Malassezia globosa. 2015, 16, 7273-88 Current status and new developments of biodiesel production using fungal lipases. 2015, 159, 52-67 Accurel MP 1000 as a support for the immobilization of lipase from Burkholderia cepacia: Application to the kinetic resolution of myo-inositol derivatives. <i>Process Biochemistry</i> , 2015, 50, 1557-1564 Co-immobilization of enzymes with the help of a dendronized polymer and mesoporous silica nanoparticles. 2015, 3, 6174-6184 Optimization of d-amino acid production catalyzed by immobilized multi-enzyme system in	14 98 69 44

(2015-2015)

Reactivation of lipases by the unfolding and refolding of covalently immobilized biocatalysts. 2015 , 5, 55588-55594		27
Immobilizing Systems Biocatalysis for the Selective Oxidation of Glycerol Coupled to In Situ Cofactor Recycling and Hydrogen Peroxide Elimination. 2015 , 7, 1939-1947		20
Lipase immobilization onto polyethylenimine coated magnetic nanoparticles assisted by divalent metal chelated ions. 2015 , 120, 75-83		60
Immobilization of Protein on Nanoporous Metal-Organic Framework Materials. 2015 , 35, 331-349		39
Stabilization of Phenylalanine Ammonia Lyase from Rhodotorula glutinis by Encapsulation in Polyethyleneimine-Mediated Biomimetic Silica. 2015 , 176, 999-1011		14
New method for the immobilization of pullulanase onto hybrid magnetic (Fe3O4-Ecarrageenan) nanoparticles by electrostatic coupling with pullulanase/chitosan complex. 2015 , 63, 3534-42		24
Versatility of divinylsulfone supports permits the tuning of CALB properties during its immobilization. 2015 , 5, 35801-35810		56
Tethering of nicotinamide adenine dinucleotide inside hollow nanofibers for high-yield synthesis of methanol from carbon dioxide catalyzed by coencapsulated multienzymes. 2015 , 9, 4600-10		110
Evaluation of divinylsulfone activated agarose to immobilize lipases and to tune their catalytic properties. <i>Process Biochemistry</i> , 2015 , 50, 918-927	4.8	71
Student Collaboration in a Series of Integrated Experiments To Study Enzyme Reactor Modeling with Immobilized Cell-Based Invertase. 2015 , 92, 1238-1243		5
Strategies for the one-step immobilization-purification of enzymes as industrial biocatalysts. 2015 , 33, 435-56		463
Highly efficient and regioselective acylation of arbutin catalyzed by lipase from Candida sp <i>Process Biochemistry</i> , 2015 , 50, 789-792	4.8	9
Cellulase assisted synthesis of nano-silver and gold: Application as immobilization matrix for biocatalysis. <i>International Journal of Biological Macromolecules</i> , 2015 , 77, 105-13	7.9	55
A mixed-function-grafted magnetic mesoporous hollow silica microsphere immobilized lipase strategy for ultrafast transesterification in a solvent-free system. 2015 , 5, 43074-43080		30
Enzyme immobilization onto renewable polymeric matrixes: Past, present, and future trends. 2015 , 132, n/a-n/a		64
Effect of two series ionic liquids based on non-nutritive sweeteners on catalytic activity and stability of the industrially important lipases from Candida rugosa and Rhizopus delemar. 2015 , 117, 62-68		11
Simple and Efficient Immobilization of Extracellular His-Tagged Enzyme Directly from Cell Culture Supernatant As Active and Recyclable Nanobiocatalyst: High-Performance Production of Biodiesel from Waste Grease. 2015 , 5, 3157-3161		57
Amine-functionalized magnetic nanocomposite particles for efficient immobilization of lipase: effects of functional molecule size on properties of the immobilized lipase. 2015 , 5, 33313-33327		36
	Immobilizing Systems Biocatalysis for the Selective Oxidation of Glycerol Coupled to In Situ Cofactor Recycling and Hydrogen Peroxide Elimination. 2015, 7, 1939-1947 Lipase immobilization onto polyethylenimine coated magnetic nanoparticles assisted by divalent metal chelated ions. 2015, 120, 75-83 Immobilization of Protein on Nanoporous Metal-Organic Framework Materials. 2015, 35, 331-349 Stabilization of Phenylalanine Ammonia Lyase from Rhodotorula glutinis by Encapsulation in Polyethyleneimine-Mediated Biomimetic Silica. 2015, 176, 999-1011 New method for the immobilization of pullulanase onto hybrid magnetic (Fe3O4-Earrageenan) nanoparticles by electrostatic coupling with pullulanase/chitosan complex. 2015, 63, 3534-42 Versatility of divinylsulfone supports permits the tuning of CALB properties during its immobilization. 2015, 5, 35801-35810 Tethering of nicotinamide adenine dinucleotide inside hollow nanofibers for high-yield synthesis of methanol from carbon dioxide catalyzed by coencapsulated multienzymes. 2015, 9, 4600-10 Evaluation of divinylsulfone activated agarose to immobilize lipases and to tune their catalytic properties. Process Blochemistry, 2015, 50, 918-927 Student Collaboration in a Series of Integrated Experiments To Study Enzyme Reactor Modeling with Immobilized Cell-Based Invertase. 2015, 92, 1238-1243 Strategies for the one-step immobilization-purification of enzymes as industrial biocatalysts. 2015, 33, 435-56 Highly efficient and regioselective acylation of arbutin catalyzed by lipase from Candida sp Process Biochemistry, 2015, 50, 789-792 Cellulase assisted synthesis of nano-silver and gold: Application as immobilization matrix for biocatalysis. International Journal of Biological Macromolecules, 2015, 77, 105-13 A mixed-function-grafted magnetic mesoporous hollow sillam mimobilization matrix for biocatalysis. International Journal of Biological Macromolecules, 2015, 5, 43074-43080 Enzyme immobilization onto renewable polymeric matrixes: Past, present, and future trends.	Immobilizing Systems Biocatalysis for the Selective Oxidation of Glycerol Coupled to In Situ CoFactor Recycling and Hydrogen Peroxide Elimination. 2015, 7, 1939-1947 Lipase immobilization onto polyethylenimine coated magnetic nanoparticles assisted by divalent metal chelated ions. 2015, 120, 75-83 Immobilization of Protein on Nanoporous Metal-Organic Framework Materials. 2015, 35, 331-349 Stabilization of Phenylalanine Ammonia Lyase from Rhodotorula glutinis by Encapsulation in Polyethyleneimine-Mediated Biomimetic Silica. 2015, 176, 999-1011 New method for the immobilization of pullulanase onto hybrid magnetic (Fe3O4-Rarrageenan) nanoparticles by electrostatic coupling with pullulanase/chitosan complex. 2015, 63, 3534-42 Versatility of divinylsulfone supports permits the tuning of CALB properties during its immobilization. 2015, 5, 33801-35810 Tethering of nicotinamide adenine dinucleotide inside hollow nanofibers for high-yield synthesis of methanol from carbon dioxide catalyzed by coencapsulated multienzymes. 2015, 9, 4600-10 Evaluation of divinylsulfone activated agarose to immobilize lipases and to tune their catalytic properties. Process Biochemistry, 2015, 50, 918-927 Student Collaboration in a Series of Integrated Experiments To Study Enzyme Reactor Modeling with Immobilized Cell-Based Invertase. 2015, 92, 1238-1243 Strategies for the one-step immobilization-purification of enzymes as industrial biocatalysts. 2015, 33, 435-56 Highly efficient and regioselective acylation of arbutin catalyzed by lipase from Candida sp Process Biochemistry, 2015, 50, 789-792 Cellulase assisted synthesis of nano-silver and gold: Application as immobilization matrix for biocatalysis. International Journal of Biological Macromolecules, 2015, 77, 105-13 7.99 A mixed-function-grafted magnetic mesoporous hollow silica microsphere immobilized lipase strategy for ultrafast transesterification in a solvent-free system. 2015, 5, 43074-43080 Enzyme immobilization onto renewable polymeric matrixes: Past, present, and

1008	Advances in carrier-bound and carrier-free immobilized nanobiocatalysts. 2015 , 135, 21-32	34
1007	A Ca-alginate particle co-immobilized with Phanerochaete chrysosporium cells and the combined cross-linked enzyme aggregates from Trametes versicolor. 2015 , 198, 464-9	19
1006	Enhancement of thermal and pH stability of an alkaline metalloprotease by nano-hydroxyapatite and its potential applications. 2015 , 5, 89346-89362	13
1005	Development of an immobilized biocatalyst with lipase and protease activities as a multipurpose cross-linked enzyme aggregate (multi-CLEA). <i>Process Biochemistry</i> , 2015 , 50, 2144-2157	44
1004	Chemical improvement of chitosan-modified beads for the immobilization of Enterococcus faecium DBFIQ E36 L-arabinose isomerase through multipoint covalent attachment approach. 2015 , 42, 1325-40	10
1003	The combine use of ultrasound and lipase immobilized on co-polymer matrix for efficient biocatalytic application studies. 2015 , 122, 255-264	26
1002	Immobilizing and de-immobilizing enzymes on mesoporous silica. 2015 , 5, 87706-87712	9
1001	Selective concentration of eicosapentaenoic acid and docosahexaenoic acid from fish oil with immobilized/stabilized preparations of Rhizopus oryzae lipase. 2015 , 122, 147-155	18
1000	Novozym 435-catalyzed production of ascorbyl oleate in organic solvent ultrasound-assisted system. 2015 , 4, 514-520	13
999	Mesoporous Silica Materials Labeled for Optical Oxygen Sensing and Their Application to Development of a Silica-Supported Oxidoreductase Biocatalyst. 2015 , 5, 5984-5993	33
998	Expression and display of a novel thermostable esterase from Clostridium thermocellum on the surface of Bacillus subtilis using the CotB anchor protein. 2015 , 42, 1439-48	15
997	Lipase from Solvent-Tolerant Pseudomonas sp. DMVR46 Strain Adsorb on Multiwalled Carbon Nanotubes: Application for Enzymatic Biotransformation in Organic Solvents. 2015 , 177, 1313-26	11
996	Sandal reactive dyes decolorization and cytotoxicity reduction using manganese peroxidase immobilized onto polyvinyl alcohol-alginate beads. 2015 , 9, 47	65
995	Lipase immobilization towards improved productivity on kinetic resolutions by a continuous-flow process. 2015 , 5, 102409-102415	16
994	Cellulose binding domain assisted immobilization of lipase (GSlip-CBD) onto cellulosic nanogel: characterization and application in organic medium. 2015 , 136, 1042-50	37
993	Stable and Simple Immobilization of Proteinase K Inside Glass Tubes and Microfluidic Channels. 2015 , 7, 25970-80	32
992	Cross-linked enzyme aggregates (CLEAs) of PepX and PepN [production, partial characterization and application of combi-CLEAs for milk protein hydrolysis. 2015 , 4, 752-760	17
991	Graphene oxide-based Fe3O4 nanoparticles as a novel scaffold for the immobilization of porcine pancreatic lipase. 2015 , 5, 103943-103955	34

990	Laccase functionalized cellulose acetate for the removal of toxic combustion products. 2015 , 97, 12-18		6
989	Ultrasound enhanced laccase applications. 2015 , 17, 1362-1374		42
988	A green and one-pot synthesis of benzo[g]chromene derivatives through a multi-component reaction catalyzed by lipase. 2015 , 5, 5213-5216		44
987	Lipase-supported metal-organic framework bioreactor catalyzes warfarin synthesis. 2015 , 21, 115-9		86
986	Optimized preparation and characterization of CLEA-lipase from cocoa pod husk. 2015 , 202, 153-61		29
985	Continuous production of fructooligosaccharides and invert sugar by chitosan immobilized enzymes: Comparison between in fluidized and packed bed reactors. 2015 , 111, 51-55		34
984	Optimization protocols and improved strategies of cross-linked enzyme aggregates technology: current development and future challenges. 2015 , 35, 15-28		168
983	Kinetic resolution of (R, S)-2-(2-chloro-1-hydroxyethyl) thiophene via immobilizing lipase from Alcaligenes sp. onto magnetic nanoparticles. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 492-499	3.5	8
982	Improving the activity and stability of actinidin by immobilization on gold nanorods. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 1176-81	7.9	38
981	Enzymatic dynamic kinetic resolution of racemic N-formyl- and N-carbamoyl-amino acids using immobilized L-N-carbamoylase and N-succinyl-amino acid racemase. 2015 , 99, 283-91		14
980	Immobilization of Chlamydomonas reinhardtii CLH1 on APTES-Coated Magnetic Iron Oxide Nanoparticles and Its Potential in the Production of Chlorophyll Derivatives. <i>Molecules</i> , 2016 , 21,	4.8	7
979	Molecular Characterization of Nanoimmobilized Cellulase in Facilitating Pretreatment of Lignocellulosic Biomass. 2016 , 141-149		1
978	Microbial Enzyme Production Using Lignocellulosic Food Industry Wastes as Feedstock: A Review. 2016 , 3,		68
977	Preparation of Cross-Linked Glucoamylase Aggregates Immobilization by Using Dextrin and Xanthan Gum as Protecting Agents. 2016 , 6, 77		12
976	Candida antarctica Lipase B Immobilized onto Chitin Conjugated with POSS Compounds: Useful Tool for Rapeseed Oil Conversion. 2016 , 17,		13
975	Ultrasound-Assisted Enantioselective Esterification of Ibuprofen Catalyzed by a Flower-Like Nanobioreactor. <i>Molecules</i> , 2016 , 21,	4.8	10
974	Reversible Immobilization of Lipases on Heterofunctional Octyl-Amino Agarose Beads Prevents Enzyme Desorption. <i>Molecules</i> , 2016 , 21,	4.8	48
973	Stabilization of Candida antarctica Lipase B (CALB) Immobilized on Octyl Agarose by Treatment with Polyethyleneimine (PEI). <i>Molecules</i> , 2016 , 21,	4.8	38

972	Tailoring the Spacer Arm for Covalent Immobilization of Candida antarctica Lipase B-Thermal Stabilization by Bisepoxide-Activated Aminoalkyl Resins in Continuous-Flow Reactors. <i>Molecules</i> , 4.8 2016 , 21,	18
971	Site-Specific, Covalent Immobilization of Dehalogenase ST2570 Catalyzed by Formylglycine-Generating Enzymes and Its Application in Batch and Semi-Continuous Flow 4.8 Reactors. <i>Molecules</i> , 2016 , 21,	23
970	Catalytic Oxidation of Phenol and 2,4-Dichlorophenol by Using Horseradish Peroxidase Immobilized on Graphene Oxide/FeDD <i>Molecules</i> , 2016 , 21,	42
969	Immobilization of Glycoside Hydrolase Families GH1, GH13, and GH70: State of the Art and Perspectives. <i>Molecules</i> , 2016 , 21,	34
968	Immobilization of ⊞-Amylase from Anoxybacillus sp. SK3-4 on ReliZyme and Immobead Supports. <i>Molecules</i> , 2016 , 21,	20
967	Agarose and Its Derivatives as Supports for Enzyme Immobilization. <i>Molecules</i> , 2016 , 21, 4.8	149
966	Toward the Reconstitution of a Two-Enzyme Cascade for Resveratrol Synthesis on Potyvirus Particles. 2016 , 7, 89	10
965	Study on the Preparation of the AOPAN/MMT Composite Nanofibers and Their Application for Laccase Immobilization. 2016 , 11, 155892501601100	2
964	Enantioselective Acylation of Alcohol and Amine Reactions in Organic Synthesis. 2016, 231-266	2
963	H2 -Fueled ATP Synthesis on an Electrode: Mimicking Cellular Respiration. 2016 , 55, 6216-20	28
962	Integration of Artificial Photosynthesis System for Enhanced Electronic Energy-Transfer Efficacy: A Case Study for Solar-Energy Driven Bioconversion of Carbon Dioxide to Methanol. 2016 , 12, 4753-62	50
961	Let the substrate flow, not the enzyme: Practical immobilization of d-amino acid oxidase in a glass microreactor for effective biocatalytic conversions. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2342-9 ^{4.9}	27
960	H2-Fueled ATP Synthesis on an Electrode: Mimicking Cellular Respiration. 2016 , 128, 6324-6328	10
959	Bioinspired Production of Antibacterial Sucrose Isomerase-Sponge for the Synthesis of Isomaltulose. <i>Advanced Synthesis and Catalysis</i> , 2016 , 358, 4030-4040	11
958	Improved ethyl butyrate synthesis catalyzed by an immobilized recombinant Rhizopus oryzae lipase: A comprehensive statistical study by production, reaction rate and yield analysis. 2016 , 133, S371-S376	4
957	A highly efficient sorbitol dehydrogenase from Gluconobacter oxydans G624 and improvement of its stability through immobilization. 2016 , 6, 33438	36
956	Forizymes - functionalised artificial forisomes as a platform for the production and immobilisation of single enzymes and multi-enzyme complexes. 2016 , 6, 30839	14
955	Reversible immobilization of lipases on octyl-glutamic agarose beads: A mixed adsorption that reinforces enzyme immobilization. 2016 , 128, 10-18	58

954	Lectin Agglutinated Multienzyme Catalyst with Enhanced Substrate Affinity and Activity. 2016 , 6, 3789-3795	40
953	Cocoa pod husk, a new source of hydrolase enzymes for preparation of cross-linked enzyme aggregate. 2016 , 5, 57	17
952	Inactivation thermodynamics and iso-kinetic profiling for evaluating operational suitability of milk clotting enzyme immobilized in composite polymer matrix. <i>International Journal of Biological</i> 7.9 <i>Macromolecules</i> , 2016 , 91, 317-28	7
951	Cocoa pod husk: A new source of CLEA-lipase for preparation of low-cost biodiesel: An optimized process. 2016 , 231, 95-105	20
950	Utilization of Cheese Whey Using Synergistic Immobilization of EGalactosidase and Saccharomyces cerevisiae Cells in Dual Matrices. 2016 , 179, 1469-84	26
949	USPIO assisting degradation of MXC by host/guest-type immobilized laccase in AOT reverse micelle system. 2016 , 23, 13342-54	6
948	Purification and characterization of manganese peroxidases from native and mutant Trametes versicolor IBL-04. 2016 , 37, 561-570	35
947	Solid-Binding Peptides: Immobilisation Strategies for Extremophile Biocatalysis in Biotechnology. 2016 , 637-674	1
946	Ion exchange of Egalactosidase: The effect of the immobilization pH on enzyme stability. <i>Process Biochemistry</i> , 2016 , 51, 875-880	47
945	Reusable magnetic nanobiocatalyst for synthesis of silver and gold nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 66-74	17
944	Chaperonin-Inspired pH Protection by Mesoporous Silica SBA-15 on Myoglobin and Lysozyme. 2016 , 32, 9604-10	22
943	Clean Enzymatic Preparation of Oxygenated Biofuels from Vegetable and Waste Cooking Oils by Using Spongelike Ionic Liquids Technology. 2016 , 4, 6125-6132	25
942	Hybrid Cross-Linked Lipase Aggregates with Magnetic Nanoparticles: A Robust and Recyclable Biocatalysis for the Epoxidation of Oleic Acid. 2016 , 64, 7179-87	59
941	Acetylcholinesterase immobilization and characterization, and comparison of the activity of the porous silicon-immobilized enzyme with its free counterpart. 2016 , 36,	19
940	An Enzyme Net Coating the Surface of Nanoparticles: A Simple and Efficient Method for the Immobilization of Phospholipase D. 2016 , 55, 10555-10565	17
939	Applying green processes and techniques to simplify reaction work-ups. 2016 , 72, 7375-7391	19
938	Fungal Laccase Enzyme Applications in Bioremediation of Polluted Wastewater. 2016 , 201-209	2
937	Highly active, stable and self-antimicrobial enzyme catalysts prepared by biomimetic mineralization of copper hydroxysulfate. 2016 , 8, 17440-17445	52

936	Synergistic degradation of arabinoxylan by free and immobilized xylanases and arabinofuranosidase. 2016 , 114, 268-275	20
935	Adhesive Reactive Nanoparticles of Poly(ethyleneimine)/Poly(maleic acid-co-propylene) Complexes: A Novel Concept for the Immobilization of Pollutant Removing Laccase. 2016 , 217, 2360-2371	5
934	Stabilization of EGal-3 ATCC 31382 on agarose gels: synthesis of E(1->3) galactosides under sustainable conditions. 2016 , 6, 79554-79562	2
933	Reuse of anion exchangers as supports for enzyme immobilization: Reinforcement of the enzyme-support multiinteraction after enzyme inactivation. <i>Process Biochemistry</i> , 2016 , 51, 1391-1396 4.8	47
932	Considerations for the Application Of Process Technologies in Laboratory- and Pilot-Scale Biocatalysis for Chemical Synthesis. 2016 , 1-30	1
931	A review on multifaceted application of nanoparticles in the field of bioremediation of petroleum hydrocarbons. 2016 , 97, 98-105	49
930	An overview of holocellulose-degrading enzyme immobilization for use in bioethanol production. 2016 , 133, 127-135	29
929	Bioinspired Immobilization of Glycerol Dehydrogenase by Metal Ion-Chelated Polyethyleneimines as Artificial Polypeptides. 2016 , 6, 24163	9
928	Ekylosidase from Selenomonas ruminantium: Immobilization, stabilization, and application for xylooligosaccharide hydrolysis. 2016 , 34, 161-171	8
927	Preparation and Characterization of Immobilized Lipase from Pseudomonas Cepacia onto Magnetic Cellulose Nanocrystals. 2016 , 6, 20420	64
926	Degradation of orange dyes and carbamazepine by soybean peroxidase immobilized on silica monoliths and titanium dioxide. 2016 , 23, 23742-23749	27
925	The use of isocyanide-based multicomponent reaction for covalent immobilization of Rhizomucor miehei lipase on multiwall carbon nanotubes and graphene nanosheets. 2016 , 6, 72275-72285	18
924	Enzymatic Production of Galacto-Oligosaccharides. 2016 , 111-189	2
923	Rational immobilization of lipase by combining the structure analysis and unnatural amino acid insertion. 2016 , 132, 54-60	14
922	Silanized maghemite for cross-linked enzyme aggregates of recombinant xylanase from Trichoderma reesei. 2016 , 133, 65-76	20
921	Cell Surface Display Fungal Laccase as a Renewable Biocatalyst for Degradation of Persistent Micropollutants Bisphenol A and Sulfamethoxazole. 2016 , 50, 8799-808	58
920	Rapid protein immobilization for thin film continuous flow biocatalysis. 2016 , 52, 10159-62	33
919	A roadmap for biocatalysis - functional and spatial orchestration of enzyme cascades. 2016 , 9, 601-9	94

(2016-2016)

918	Efficient asymmetric biosynthesis of (R)-(Hepinephrine in hydrophilic ionic liquid-containing systems. 2016 , 6, 102292-102295	3
917	Facile modulation of enantioselectivity of thermophilic Geobacillus zalihae lipase by regulating hydrophobicity of its Q114 oxyanion. 2016 , 93-94, 174-181	7
916	Evaluation of different commercial hydrophobic supports for the immobilization of lipases: tuning their stability, activity and specificity. 2016 , 6, 100281-100294	60
915	Synthesis of Fe3O4/P(St-AA) nanoparticles for enhancement of stability of the immobilized lipases. 2016 , 6, 108583-108589	9
914	Creating an Efficient Methanol-Stable Biocatalyst by Protein and Immobilization Engineering Steps towards Efficient Biosynthesis of Biodiesel. 2016 , 9, 3161-3170	22
913	Facile preparation of Fe3O4@MOF core-shell microspheres for lipase immobilization. 2016 , 69, 139-145	62
912	Covalent immobilization of glucose oxidase on amino MOFs via post-synthetic modification. 2016 , 6, 108051-108055	32
911	Intensifying the O2-dependent heterogeneous biocatalysis: Superoxygenation of solid support from H2O2 by a catalase tailor-made for effective immobilization. 2016 , 134, 302-309	18
910	Nanomaterials for biocatalyst immobilization Btate of the art and future trends. 2016 , 6, 104675-104692	229
909	Rapid enzyme regeneration results in the striking catalytic longevity of an engineered, single species, biocatalytic biofilm. 2016 , 15, 180	5
908	Site-Specific and High-Loading Immobilization of Proteins by Using Cohesin-Dockerin and CBM-Cellulose Interactions. 2016 , 27, 1579-83	14
907	The enzyme-mediated autodeposition of casein: effect of enzyme immobilization on deposition of protein structures. 2016 , 13, 597-611	7
906	Biosilica and bioinspired silica studied by solid-state NMR. 2016 , 327-328, 110-122	19
905	High efficient chromogenic catalysis of tetramethylbenzidine with horseradish peroxidase immobilized magnetic nanoparticles. 2016 , 105, 406-411	23
904	Development of simple protocols to solve the problems of enzyme coimmobilization. Application to coimmobilize a lipase and a Egalactosidase. 2016 , 6, 61707-61715	80
903	Gold nanoparticle-mediated electron transfer of cytochrome c on a self-assembled surface. 2016 , 6, 62585-6	25 93
902	Improving enantioselectivity of lipase from Candida rugosa by carrier-bound and carrier-free immobilization. 2016 , 130, 32-39	16
901	Optimizing the preparation conditions and characterization of a stable and recyclable cross-linked enzyme aggregate (CLEA)-protease. 2016 , 3,	16

900	Improvement of the stability and activity of immobilized trypsin on modified Fe3O4 magnetic nanoparticles for hydrolysis of bovine serum albumin and its application in the bovine milk. 2016 , 212, 460-8	101
899	Design of a coreEhell support to improve lipase features by immobilization. 2016 , 6, 62814-62824	53
898	Fast Atmospheric Plasma Deposition of Bio-Inspired Catechol/Quinone-Rich Nanolayers to Immobilize NDM-1 Enzymes for Water Treatment. 2016 , 3, 1500520	22
897	A Continuous-Flow Cascade Reactor System for Subtilisin A- Catalyzed Dynamic Kinetic Resolution of N-tert-Butyloxycarbonylphenylalanine Ethyl Thioester with Benzylamine. <i>Advanced Synthesis and Solution</i> 5.6 <i>Catalysis</i> , 2016 , 358, 1608-1617	29
896	Advanced characterization of immobilized enzymes as heterogeneous biocatalysts. 2016 , 259, 66-80	115
895	Covalent binding of hyper-activated Rhizomucor miehei lipase (RML) on hetero-functionalized siliceous supports. <i>International Journal of Biological Macromolecules</i> , 2016 , 86, 208-15	49
894	Bovine glutamate dehydrogenase immobilization on magnetic nanoparticles: conformational changes and catalysis. 2016 , 6, 12977-12992	6
893	Evaluation of the performance of differently immobilized recombinant lipase B from Candida antarctica preparations for the synthesis of pharmacological derivatives in organic media. 2016 , 6, 4043-4052	25
892	Functionalized superparamagnetic graphene oxide nanosheet in enzyme engineering: A highly dispersive, stable and robust biocatalyst. 2016 , 288, 414-422	55
891	Magnetic macromolecular cross linked enzyme aggregates (CLEAs) of glucoamylase. 2016 , 83, 78-87	91
890	Kinetic modeling and docking study of immobilized lipase catalyzed synthesis of furfuryl acetate. 2016 , 84, 1-10	20
889	Optimized hybrid nanospheres immobilizing Rhizomucor miehei lipase for chiral biotransformation. **Process Biochemistry*, 2016 , 51, 240-248 4.8	12
888	Effect of the Surface Charge of Artificial Chaperones on the Refolding of Thermally Denatured Lysozymes. 2016 , 8, 3669-78	18
887	An efficient enzymatic production of N-acetyl-D-glucosamine from crude chitin powders. 2016 , 18, 2147-2154	43
886	Preparation and characterization of a Combi-CLEAs from pectinases and cellulases: a potential biocatalyst for grape juice clarification. 2016 , 6, 27242-27251	49
885	Inactivation of immobilized trypsin under dissimilar conditions produces trypsin molecules with different structures. 2016 , 6, 27329-27334	102
884	Immobilization of pectinase on reusable polymer support for clarification of apple juice. 2016 , 99, 12-19	41
883	A new L-arabinose isomerase with copper ion tolerance is suitable for creating protein[horganic hybrid nanoflowers with enhanced enzyme activity and stability. 2016 , 6, 30791-30794	25

882	A new lipaselhorganic hybrid nanoflower with enhanced enzyme activity. 2016 , 6, 19413-19416	63
881	Effect of spacer modification on enzymatic synthetic and hydrolytic activities of immobilized trypsin. 2016 , 125, 88-96	7
88o	Enhancement of Enzymatic Activity Using Microfabricated Poly(Laprolactone)/Silica Hybrid Microspheres with Hierarchically Porous Architecture. 2016 , 120, 3955-3963	18
879	Urease-catalyzed synthesis of aminocyanopyridines from urea under fully green conditions. 2016 , 127, 89-92	19
878	Immobilization of Bacillus subtilis lipase on a Cu-BTC based hierarchically porous metal-organic framework material: a biocatalyst for esterification. 2016 , 45, 6998-7003	93
877	Synthesis of butyl butyrate in batch and continuous enzymatic reactors using Thermomyces lanuginosus lipase immobilized in Immobead 150. 2016 , 127, 67-75	41
876	Zinc Oxide Nanoparticles Supported Lipase Immobilization for Biotransformation in Organic Solvents: A Facile Synthesis of Geranyl Acetate, Effect of Operative Variables and Kinetic Study. 2016 , 178, 1630-51	20
875	Electrospun polylactic acid and polyvinyl alcohol fibers as efficient and stable nanomaterials for immobilization of lipases. 2016 , 39, 449-59	28
874	The co-immobilization of P450-type nitric oxide reductase and glucose dehydrogenase for the continuous reduction of nitric oxide via cofactor recycling. 2016 , 85, 71-81	12
873	Preparation of lactoperoxidase incorporated hybrid nanoflower and its excellent activity and stability. <i>International Journal of Biological Macromolecules</i> , 2016 , 84, 402-9	91
8 ₇₃		91
	stability. <i>International Journal of Biological Macromolecules</i> , 2016 , 84, 402-9 A facile technique to prepare cross-linked enzyme aggregates of bovine pancreatic lipase using	
872	A facile technique to prepare cross-linked enzyme aggregates of bovine pancreatic lipase using bovine serum albumin as an additive. 2016 , 33, 610-615	24
872 871	A facile technique to prepare cross-linked enzyme aggregates of bovine pancreatic lipase using bovine serum albumin as an additive. 2016, 33, 610-615 Exploitation of Food Industry Waste for High-Value Products. 2016, 34, 58-69 Continuous production of Eyclodextrin by cyclodextrin glycosyltransferase immobilized in mixed	24
872 871 870	A facile technique to prepare cross-linked enzyme aggregates of bovine pancreatic lipase using bovine serum albumin as an additive. 2016, 33, 610-615 Exploitation of Food Industry Waste for High-Value Products. 2016, 34, 58-69 Continuous production of Ecyclodextrin by cyclodextrin glycosyltransferase immobilized in mixed gel beads: Comparative study in continuous stirred tank reactor and packed bed reactor. 2016, 105, 107-113 Immobilization of Alcaligenes sp. lipase as catalyst for the transesterification of vegetable oils to	24 299 24
872 871 870 869	A facile technique to prepare cross-linked enzyme aggregates of bovine pancreatic lipase using bovine serum albumin as an additive. 2016, 33, 610-615 Exploitation of Food Industry Waste for High-Value Products. 2016, 34, 58-69 Continuous production of Etyclodextrin by cyclodextrin glycosyltransferase immobilized in mixed gel beads: Comparative study in continuous stirred tank reactor and packed bed reactor. 2016, 105, 107-113 Immobilization of Alcaligenes sp. lipase as catalyst for the transesterification of vegetable oils to produce biodiesel. 2016, 259, 177-182 Immobilization and stabilization of an endoxylanase from Bacillus subtilis (XynA) for	242992422
872 871 870 869 868	A facile technique to prepare cross-linked enzyme aggregates of bovine pancreatic lipase using bovine serum albumin as an additive. 2016, 33, 610-615 Exploitation of Food Industry Waste for High-Value Products. 2016, 34, 58-69 Continuous production of Ecyclodextrin by cyclodextrin glycosyltransferase immobilized in mixed gel beads: Comparative study in continuous stirred tank reactor and packed bed reactor. 2016, 105, 107-113 Immobilization of Alcaligenes sp. lipase as catalyst for the transesterification of vegetable oils to produce biodiesel. 2016, 259, 177-182 Immobilization and stabilization of an endoxylanase from Bacillus subtilis (XynA) for xylooligosaccharides (XOs) production. 2016, 259, 130-139	24299242235

864	Lipase immobilization on facile synthesized polyaniline-coated silver-functionalized graphene oxide nanocomposites as novel biocatalysts: stability and activity insights. 2017 , 7, 5019-5029		50
863	Catalytically Active Protein Coatings: Toward Enzymatic Cascade Reactions at the Intercolloidal Level. 2017 , 7, 1664-1672		25
862	Design of a Pd(0)-CalB CLEA Biohybrid Catalyst and Its Application in a One-Pot Cascade Reaction. 2017 , 7, 1601-1605		43
861	Immobilization of 2-Deoxy-d-ribose-5-phosphate Aldolase in Polymeric Thin Films via the Langmuir-Schaefer Technique. 2017 , 9, 8317-8326		9
860	Mesoporous phenylalanine ammonia lyase microspheres with improved stability through calcium carbonate templating. <i>International Journal of Biological Macromolecules</i> , 2017 , 98, 887-896	7.9	22
859	Papain-functionalized gold nanoparticles as heterogeneous biocatalyst for bioanalysis and biopharmaceuticals analysis. 2017 , 963, 33-43		17
858	Mesoporous Metal-Organic Framework with Well-Defined Cruciate Flower-Like Morphology for Enzyme Immobilization. 2017 , 9, 10587-10594		122
857	Production of glucosyl glycerol by immobilized sucrose phosphorylase: Options for enzyme fixation on a solid support and application in microscale flow format. 2017 , 257, 131-138		32
856	Immobilization of CALB on activated chitosan: Application to enzymatic synthesis in supercritical and near-critical carbon dioxide. 2017 , 14, 16-26		63
855	Production of Whole-Cell Lipase from Streptomyces clavuligerus in a Bench-Scale Bioreactor and Its First Evaluation as Biocatalyst for Synthesis in Organic Medium. 2017 , 183, 218-240		6
854	Encapsulating Proteins in Nanoparticles: Batch by Batch or One by One. 2017 , 590, 1-31		5
853	Investigation of activity and stability of papain by adsorption on multi-wall carbon nanotubes. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 1630-1635	7.9	40
852	Characterization of cross-linked enzyme aggregates (CLEAs) of the fusion protein FUS-PepN_PepX and their application for milk protein hydrolysis. 2017 , 243, 1815-1828		6
851	Immobilization on Metal-Organic Framework Engenders High Sensitivity for Enzymatic Electrochemical Detection. 2017 , 9, 13831-13836		120
850	Magnetic metal B rganic frameworks as scaffolds for spatial co-location and positional assembly of multi-enzyme systems enabling enhanced cascade biocatalysis. 2017 , 7, 21205-21213		51
849	Study of the physicochemical interactions between Thermomyces lanuginosus lipase and silica-based supports and their correlation with the biochemical activity of the biocatalysts. 2017 , 79, 525-532		5
848	Enzymatic behavior of laccase following interaction with ECD and immobilization into PCL nanofibers. 2017 , 528, 13-18		16
847	A hierarchical assembly of flower-like hybrid Turkish black radish peroxidase-Cu nanobiocatalyst and its effective use in dye decolorization. 2017 , 182, 122-128		78

846	Oriented Coimmobilization of Oxidase and Catalase on Tailor-Made Ordered Mesoporous Silica. 2017 , 33, 5065-5076	31
845	Enzyme Shielding in a Large Mesoporous Hollow Silica Shell for Improved Recycling and Stability Based on CaCO Microtemplates and Biomimetic Silicification. 2017 , 65, 3883-3890	14
844	Enzyme-MOF (metal-organic framework) composites. <i>Chemical Society Reviews</i> , 2017 , 46, 3386-3401 58.5	720
843	Biomimicry Promotes the Efficiency of a 10-Step Sequential Enzymatic Reaction on Nanoparticles, Converting Glucose to Lactate. 2017 , 56, 235-238	29
842	Biomimicry Promotes the Efficiency of a 10-Step Sequential Enzymatic Reaction on Nanoparticles, Converting Glucose to Lactate. 2017 , 129, 241-244	2
841	Cellulase cross-linked enzyme aggregates (CLEA) activities can be modulated and enhanced by precipitant selection. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 1645-1649	16
840	Synergetic integration of laccase and versatile peroxidase with magnetic silica microspheres towards remediation of biorefinery wastewater. 2017 , 24, 17993-18009	30
839	Membrane chromatography for fast enzyme purification, immobilization and catalysis: A renewable biocatalytic membrane. 2017 , 538, 68-76	20
838	Enzymatic-photocatalytic synergetic effect on the decolorization of dyes by single chloroperoxidase molecule immobilization on TiO2 mesoporous thin film. 2017 , 129, 219-226	7
837	Facile fabrication of 3D porous hybrid sphere by co-immobilization of multi-enzyme directly from cell lysates as an efficient and recyclable biocatalyst for asymmetric reduction with coenzyme 7.9 regeneration in situ. <i>International Journal of Biological Macromolecules</i> , 2017 , 103, 424-434	14
836	Coimmobilization of enzymes in bilayers using pei as a glue to reuse the most stable enzyme: Preventing pei release during inactivated enzyme desorption. <i>Process Biochemistry</i> , 2017 , 61, 95-101	40
835	Directed immobilization of CGTase: The effect of the enzyme orientation on the enzyme activity and its use in packed-bed reactor for continuous production of cyclodextrins. <i>Process Biochemistry</i> , 4.8 2017 , 58, 120-127	11
834	Immobilization of tyrosinase on polyacrylonitrile beads: biodegradation of phenol from aqueous solution and the relevant cytotoxicity assessment. 2017 , 7, 28114-28123	23
833	Influence of the raw material on the final properties of biodiesel produced using lipase from Rhizomucor miehei grown on babassu cake as biocatalyst of esterification reactions. 2017 , 113, 112-118	44
832	Evaluation of different lipase biocatalysts in the production of biodiesel from used cooking oil: Critical role of the immobilization support. 2017 , 200, 1-10	101
831	Recent developments in the use of tyrosinase and laccase in environmental applications. 2017 , 37, 819-832	73
830	Immobilization of chymotrypsin on hierarchical nylon 6,6 nanofiber improves enzyme performance. 2017 , 154, 270-278	27
829	Investigation of deactivation thermodynamics of lipase immobilized on polymeric carrier. 2017 , 40, 741-757	19

828	Stabilization of ficin extract by immobilization on glyoxyl agarose. Preliminary characterization of the biocatalyst performance in hydrolysis of proteins. <i>Process Biochemistry</i> , 2017 , 58, 98-104	3	43
827	Immobilization of Enzymes on PLGA Sub-Micrometer Particles by Crosslinked Layer-by-Layer Deposition. 2017 , 17, 1700015		9
826	Effects of immobilization, pH and reaction time in the modulation of ⊞-, ⊞or ⊞yclodextrins production by cyclodextrin glycosyltransferase: Batch and continuous process. 2017 , 169, 41-49		11
825	Co-localization of proteins with defined sequential order and controlled stoichiometric ratio on magnetic nanoparticles. 2017 , 9, 4397-4400		4
824	An Overview on the Enhancement of Enantioselectivity and Stability of Microbial Epoxide Hydrolases. 2017 , 59, 98-116		33
823	Recent advances in enzyme extraction strategies: A comprehensive review. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 931-957)	53
822	Increasing esterification efficiency by double immobilization of lipase-ZnO bioconjugate into sodium bis (2-ethylhexyl) sulfosuccinate (AOT)- reverse micelles and microemulsion based organogels. 2017 , 10, 182-188		7
821	In situ and post-synthesis immobilization of enzymes on nanocrystalline MOF platforms to yield active biocatalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 2583-2593	į	42
820	Effect of Meso vs Macro Size of Hierarchical Porous Silica on the Adsorption and Activity of Immobilized Egalactosidase. 2017 , 33, 3333-3340		18
819	Preparation of spherical cross-linked lipase aggregates with improved activity, stability and reusability characteristic in water-in-ionic liquid microemulsion. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 1785-1793	;	27
818	Physical crosslinking of lipase from Rhizomucor miehei immobilized on octyl agarose via coating with ionic polymers. <i>Process Biochemistry</i> , 2017 , 54, 81-88	3	49
817	Highly Active Nanobiocatalyst from Lipase Noncovalently Immobilized on Multiwalled Carbon Nanotubes for Baeyer Villiger Synthesis of Lactones. 2017 , 5, 1685-1691		44
816	Efficient Candida rugosa lipase immobilization on Maghnite clay and application for the production of (1R)-(I-Menthyl acetate. 2017 , 71, 785-793		5
815	Immobilization of glucose oxidase onto a novel platform based on modified TiO and graphene oxide, direct electrochemistry, catalytic and photocatalytic activity. 2017 , 73, 417-424		28
814	Encapsulation of Spherical Cross-Linked Phenylalanine Ammonia Lyase Aggregates in Mesoporous Biosilica. 2017 , 65, 618-625		26
813	Effect of protein load on stability of immobilized enzymes. 2017 , 98, 18-25		146
812	Polymeric SpyCatcher Scaffold Enables Bioconjugation in a Ratio-Controllable Manner. 2017 , 12, 1700195		18
811	Enzymatic Catalysis at Nanoscale: Enzyme-Coated Nanoparticles as Colloidal Biocatalysts for Polymerization Reactions. 2017 , 2, 7305-7312		26

810	Green enzymatic production of glyceryl monoundecylenate using immobilized Candida antarctica lipase B. 2017 , 47, 1050-1058		8
809	Heterogeneous Systems Biocatalysis: The Path to the Fabrication of Self-Sufficient Artificial Metabolic Cells. 2017 , 23, 17841-17849		29
808	OrganicIhorganic hybrid nanoflowers: A novel host platform for immobilizing biomolecules. 2017 , 352, 249-263		121
807	A novel strategy to immobilize enzymes on microporous membranes via dicarboxylic acid halides. 2017 , 7, 48199-48207		13
806	Triazine-functionalized chitosan-encapsulated superparamagnetic nanoparticles as reusable and robust nanocarrier for glucoamylase immobilization. 2017 , 127, 119-127		20
805	Structure and activity of magnetic cross-linked enzyme aggregates of bovine carbonic anhydrase as promoters of enzymatic CO 2 capture. 2017 , 127, 188-195		20
804	In situ hybridization of enzymes and their metal-organic framework analogues with enhanced activity and stability by biomimetic mineralisation. 2017 , 9, 15298-15302		44
803	Asymmetric Reduction of Prochiral Ketones by Using Self-Sufficient Heterogeneous Biocatalysts Based on NADPH-Dependent Ketoreductases. 2017 , 23, 16843-16852		43
802	Immobilization of Egalactosidase on surface modified cobalt/multiwalled carbon nanotube nanocomposite improves enzyme stability and resistance to inhibitor. <i>International Journal of Biological Macromolecules</i> , 2017 , 105, 693-701)	39
801	Immobilization engineering IHow to design advanced solgel systems for biocatalysis?. 2017 , 19, 3927-3937		30
800	Preparation, activity and structure of cross-linked enzyme aggregates (CLEAs) with nanoparticle. 2017 , 107, 22-31		23
799	Effect of high salt concentrations on the stability of immobilized lipases: Dramatic deleterious effects of phosphate anions. <i>Process Biochemistry</i> , 2017 , 62, 128-134	3	34
79 ⁸	Effect of feather meal as proteic feeder on combi-CLEAs preparation for grape juice clarification. Process Biochemistry, 2017 , 62, 122-127	3	15
797	High-Resolution Solid-State NMR Characterization of Ligand Binding to a Protein Immobilized in a Silica Matrix. 2017 , 121, 8094-8101		12
796	Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. 2017 , 5, 7461-7490		162
795	Chitosan based metal-chelated copolymer nanoparticles: Laccase immobilization and phenol degradation studies. 2017 , 125, 235-242		48
794	Cross-Linked Artificial Enzyme Crystals as Heterogeneous Catalysts for Oxidation Reactions. 2017 , 139, 17994-18002		26
793	Immobilization of Lecitase ultra on recyclable polymer support: application in resolution of trans-methyl (4-methoxyphenyl)glycidate in organic solvents. 2017 , 28, 1612-1617		10

79²	Thermal Stabilization of Enzymes with Molecular Brushes. 2017 , 7, 8675-8684	16
791	Improved stability of immobilized lipases via modification with polyethylenimine and glutaraldehyde. 2017 , 106, 67-74	46
79°	Gold Nanorod-Mediated Photothermal Enhancement of the Biocatalytic Activity of a Polymer-Encapsulated Enzyme. 2017 , 29, 6308-6314	24
789	Synthesis of mesoporous silica with different pore sizes for cellulase immobilization: pure physical adsorption. 2017 , 41, 9338-9345	30
788	Covalent immobilization of Emylase onto functionalized molybdenum sulfide nanosheets, its kinetics and stability studies: A gateway to boost enzyme application. 2017 , 328, 215-227	60
787	Enzyme nanocapsules armored by metal-organic frameworks: A novel approach for preparing nanobiocatalyst. 2017 , 327, 1192-1197	50
786	Enzyme recycling in lignocellulosic biorefineries. <i>Biofuels, Bioproducts and Biorefining</i> , 2017 , 11, 150-167 5.3	70
785	Immobilization of Penaeus merguiensis alkaline phosphatase on gold nanorods for heavy metal detection. 2017 , 136, 1-7	23
784	Continuous flow biocatalysis: production and in-line purification of amines by immobilised transaminase from Halomonas elongata. 2017 , 19, 372-375	84
783	A study on composite catalytic membrane manufacturing based on sodium alginate and lipase to be used in a pervaporation reactor. 2017 , 43, 1149-1163	3
782	Relevance of substrates and products on the desorption of lipases physically adsorbed on hydrophobic supports. 2017 , 96, 30-35	90
781	Multivalency Effects on the Immobilization of Sucrose Phosphorylase in Flow Microchannels and Their Use in the Development of a High-Performance Biocatalytic Microreactor. 2017 , 9, 161-166	28
780	Biocatalytic stereoinversion of D-para-bromophenylalanine in a one-pot three-enzyme reaction. 2017 , 19, 503-510	13
779	Facile synthesis of glucoamylase embedded metal-organic frameworks (glucoamylase-MOF) with enhanced stability. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 511-519	60
778	Protein-based inverse opals: A novel support for enzyme immobilization. 2017 , 96, 42-46	10
777	Enzymatic production of 5'-inosinic acid by AMP deaminase from a newly isolated Aspergillus oryzae. 2017 , 216, 275-81	6
776	Biotransformations. 2017 , 574-585	1
775	Lipase B from Candida antarctica Immobilized on a Silica-Lignin Matrix as a Stable and Reusable Biocatalytic System. 2017 , 7, 14	30

774	Special Issue: Enzyme Immobilization 2016. <i>Molecules</i> , 2017 , 22,	4.8	4
773	Desorption of Lipases Immobilized on Octyl-Agarose Beads and Coated with Ionic Polymers after Thermal Inactivation. Stronger Adsorption of Polymers/Unfolded Protein Composites. <i>Molecules</i> , 2017 , 22,	4.8	37
772	ImmobilizediLipasesibniFunctionalizediSilica ParticlesiasiPotentialiBiocatalystsiForitheiSynthesisibfi FructoseiDleateiinianiDrganiciSolvent/WateriSystem. <i>Molecules</i> , 2017 , 22,	4.8	28
771	Novel Magnetic Cross-Linked Cellulase Aggregates with a Potential Application in Lignocellulosic Biomass Bioconversion. <i>Molecules</i> , 2017 , 22,	4.8	63
770	Immobilized Trienzymatic System with Enhanced Stabilization for the Biotransformation of Lactose. <i>Molecules</i> , 2017 , 22,	4.8	17
769	Prevention of Bacterial Contamination of a Silica Matrix Containing Entrapped EGalactosidase through the Action of Covalently Bound Lysozymes. <i>Molecules</i> , 2017 , 22,	4.8	10
768	Synthesis of Benzyl Acetate Catalyzed by Lipase Immobilized in Nontoxic Chitosan-Polyphosphate Beads. <i>Molecules</i> , 2017 , 22,	4.8	38
767	Chitosantollagen Coated Magnetic Nanoparticles for Lipase ImmobilizationNew Type of Enzyme FriendlylPolymer Shell Crosslinking with Squaric Acid. 2017 , 7, 26		33
766	Formulation of Laccase Nanobiocatalysts Based on Ionic and Covalent Interactions for the Enhanced Oxidation of Phenolic Compounds. 2017 , 7, 851		13
765	Stabilization of a Lipolytic Enzyme for Commercial Application. 2017 , 7, 91		6
764	Improving the Stability of Cold-Adapted Enzymes by Immobilization. 2017 , 7, 112		28
763	Exploiting the Versatility of Aminated Supports Activated with Glutaraldehyde to Immobilize Egalactosidase from Aspergillus oryzae. 2017 , 7, 250		41
762	A Novel Oxidation of Salicyl Alcohols Catalyzed by Lipase. 2017 , 7, 354		7
761	Approaching Immobilization of Enzymes onto Open Porous Basotect [] . 2017 , 7, 359		2
760	Co-Immobilization of Enzymes and Magnetic Nanoparticles by Metal-Nucleotide Hydrogelnanofibers for Improving Stability and Recycling. <i>Molecules</i> , 2017 , 22,	4.8	27
759	Improved Performance of Magnetic Cross-Linked Lipase Aggregates by Interfacial Activation: A Robust and Magnetically Recyclable Biocatalyst for Transesterification of Jatropha Oil. <i>Molecules</i> , 2017 , 22,	4.8	18
758	Enzyme@silica nanoflower@metal-organic framework hybrids: A novel type of integrated nanobiocatalysts with improved stability. 2018 , 11, 4380-4389		33
757	Fabrication of a nano-biocatalyst for regioselective acylation of arbutin. 2018 , 11, 55-61		7

756	Self Assembly through Sonication: An Expeditious and Green Approach for the Synthesis of Organic-Inorganic Hybrid Nanopetals and their Application as Biocatalyst. 2018 , 4, 670-681		3
755	Nano-peroxidase fabrication on cation exchanger nanocomposite: Augmenting catalytic efficiency and stability for the decolorization and detoxification of Methyl Violet 6B dye. 2018 , 203, 20-28		14
754	Improvement of functional properties of a thermostable Eglycosidase for milk lactose hydrolysis. 2018 , 109, e23118		2
753	Improving reuse cycles of Thermomyces lanuginosus lipase (NS-40116) by immobilization in flexible polyurethane. 2018 , 36, 372-380		20
75 ²	Using factorial experimental design to optimize biocatalytic biodiesel production from Mucor Miehei Lipase immobilized onto ordered mesoporous materials. 2018 , 268, 39-45		16
751	Magnetic biocatalysts of pectinase and cellulase: Synthesis and characterization of two preparations for application in grape juice clarification. <i>International Journal of Biological Macromolecules</i> , 2018 , 115, 35-44	7.9	41
75°	Immobilization of dextransucrase on functionalized TiO supports. <i>International Journal of Biological Macromolecules</i> , 2018 , 114, 1216-1223	7.9	13
749	Attachment of enzymes to hydrophilic magnetic nanoparticles through DNA-directed immobilization with enhanced stability and catalytic activity. 2018 , 42, 8458-8468		17
748	Covalently immobilized Trp60Cys mutant of Eransaminase from Chromobacterium violaceum for kinetic resolution of racemic amines in batch and continuous-flow modes. 2018 , 132, 270-278		24
747	Immobilization of Carboxypeptidase A into Modified Chitosan Matrixes by Covalent Attachment. 2018 , 185, 1029-1043		11
746	Of enzyme use in cost-effective high solid simultaneous saccharification and fermentation processes. 2018 , 270, 70-76		12
745	Enzyme Crystals and Hydrogel Composite Membranes as New Active Food Packaging Material. 2018 , 2, 1700089		9
744	Preparation of porous hollow FeO/P(GMA-DVB-St) microspheres and application for lipase immobilization. 2018 , 41, 771-779		5
743	Biotechnological Applications of Proteases in Food Technology. 2018 , 17, 412-436		118
742	Biofunctionalized "Kiwifruit-Assembly" of Oxidoreductases in Mesoporous ZnO/Carbon Nanoparticles for Efficient Asymmetric Catalysis. 2018 , 30, 1705443		11
741	Enzymatic synthesis of d-alanine from a renewable starting material by co-immobilized dehydrogenases. <i>Process Biochemistry</i> , 2018 , 66, 126-132	4.8	2
740	One-pot fabrication of chitin-shellac composite microspheres for efficient enzyme immobilization. 2018 , 266, 1-8		21
739	Stabilization of dimeric Eglucosidase from Aspergillus niger via glutaraldehyde immobilization under different conditions. 2018 , 110, 38-45		56

Pore Environment Control and Enhanced Performance of Enzymes Infiltrated in Covalent Organic Frameworks. 2018 , 140, 984-992	205
Biomimetic synthesis of coordination network materials: Recent advances in MOFs and MPNs. 2018 , 10, 93-105	51
Immobilization of Candida rugosa lipase onto graphene oxide Fe3O4 nanocomposite: Characterization and application for biodiesel production. 2018 , 159, 42-53	181
Efficient fructose production from plant extracts by immobilized inulinases from Kluyveromyces marxianus and Helianthus tuberosus. <i>International Journal of Biological Macromolecules</i> , 2018 , 115, 829-834	14
Lactase (回alactosidase) immobilization by complex formation: Impact of biopolymers on enzyme activity. 2018 , 83, 88-96	24
1,3-Regiospecific ethanolysis of soybean oil catalyzed by crosslinked porcine pancreas lipase aggregates. 2018 , 34, 910-920	18
Use of chitosan heterofunctionality for enzyme immobilization: Egalactosidase immobilization for galacto-oligosaccharide synthesis. <i>International Journal of Biological Macromolecules</i> , 2018 , 116, 182-193 ^{7.9}	43
Understanding the silica-based sol-gel encapsulation mechanism of Thermomyces lanuginosus lipase: The role of polyethylenimine. <i>Molecular Catalysis</i> , 2018 , 449, 106-113	5
Kinetic resolution of drug intermediates catalyzed by lipase B from Candida antarctica immobilized on immobead-350. 2018 , 34, 878-889	76
Assembly of graphene oxide-formate dehydrogenase composites by nickel-coordination with enhanced stability and reusability. 2018 , 18, 326-333	5
Immobilization of peroxidase on polypyrrole-cellulose-graphene oxide nanocomposite via non-covalent interactions for the degradation of Reactive Blue 4 dye. 2018 , 202, 198-207	47
Shielding effects of Fe3+-tannic acid nanocoatings for immobilized enzyme on magnetic Fe3O4@silica core shell nanosphere. 2018 , 343, 629-637	53
Immobilization of laccase on modified FeO@SiO@Kit-6 magnetite nanoparticles for enhanced delignification of olive pomace bio-waste. <i>International Journal of Biological Macromolecules</i> , 2018 , 7.9 114, 106-113	45
Enzyme@silica hybrid nanoflowers shielding in polydopamine layer for the improvement of enzyme stability. 2018 , 132, 196-205	21
Immobilization of ligninolytic enzymes from white-rot fungi in cross-linked aggregates. 2018, 202, 694-707	59
Optimization of the coating of octyl-CALB with ionic polymers to improve stability and decrease enzyme leakage. 2018 , 36, 47-56	32
Operational and Thermal Stability Analysis of Thermomyces lanuginosus Lipase Covalently Immobilized onto Modified Chitosan Supports. 2018 , 184, 182-196	31
Preparation of the AOPAN-poly(HEMA) nanofibers via the atom transfer radical polymerization method and their application for laccase immobilization. 2018 , 48, 25-37	1
	Biomimetic synthesis of coordination network materials: Recent advances in MOFs and MPNs. 2018, 10, 93-105 Immobilization of Candida rugosa lipase onto graphene oxide Fe3O4 nanocomposite: Characterization and application for biodiesel production. 2018, 159, 42-53 Efficient fructose production from plant extracts by immobilized inulinases from Kluyveromyces marxianus and Helianthus tuberosus. International Journal of Biological Macromolecules, 2018, 115, 829-834 Lactase (Balactosidase) immobilization by complex formation: Impact of biopolymers on enzyme activity. 2018, 83, 88-96 1,3-Regiospecific ethanolysis of soybean oil catalyzed by crosslinked porcine pancreas lipase aggregates. 2018, 34, 910-920 Use of chitosan heterofunctionality for enzyme immobilization: Balactosidase immobilization for galacto-oilgosaccharide synthesis. International Journal of Biological Macromolecules, 2018, 116, 182-193 ^{7/9} Understanding the silica-based sol-gel encapsulation mechanism of Thermomyces lanuginosus lipase: The role of polyethylenimine. Malecular Catalysis, 2018, 449, 106-113 Sinetic resolution of drug intermediates catalyzed by lipase B from Candida antarctica immobilized on immobead-350. 2018, 34, 878-889 Assembly of graphene oxide-formate dehydrogenase composites by nickel-coordination with enhanced stability and reusability, 2018, 18, 326-333 Immobilization of peroxidase on polypyrrole-cellulose-graphene oxide nanocomposite via non-covalent interactions for the degradation of Reactive Blue 4 dye. 2018, 202, 198-207 Shielding effects of Fe3+-tannic acid nanocoatings for immobilized enzyme on magnetic Fe3O4@silica core shell nanosphere. 2018, 343, 629-637 Immobilization of ligninolytic enzymes from white-rot fungi in cross-linked aggregates. 2018, 202, 694-707 Optimization of the coating of octyl-CALB with ionic polymers to improve stability and decrease enzyme leakage. 2018, 36, 47-56 Operational and Thermal Stability Analysis of Thermomyces lanuginosus Lipase Covalently Immobilized onto Modified Chitosa

720	Acoustic cavitation promoted lipase catalysed synthesis of isobutyl propionate in solvent free system: Optimization and kinetic studies. 2018 , 40, 727-735		21
719	A new heterofunctional amino-vinyl sulfone support to immobilize enzymes: Application to the stabilization of Egalactosidase from A spergillus oryzae. <i>Process Biochemistry</i> , 2018 , 64, 200-205	4.8	24
718	Enriching the biological space of natural products and charting drug metabolites, through real time biotransformation monitoring: The NMR tube bioreactor. 2018 , 1862, 1-8		7
717	Role of Biocatalysis in Sustainable Chemistry. 2018 , 118, 801-838		770
716	Lipase immobilization on functionalized mesoporous TiO2: Specific adsorption, hyperactivation and application in cinnamyl acetate synthesis. <i>Process Biochemistry</i> , 2018 , 64, 152-159	4.8	29
715	Analysis of Aspergillus sp. lipase immobilization for the application in organic synthesis. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 1165-1175	7.9	18
714	Biocatalytically Active Thin Films via Self-Assembly of 2-Deoxy-d-ribose-5-phosphate Aldolase-Poly(N-isopropylacrylamide) Conjugates. 2018 , 29, 104-116		8
713	Enzymatic synthesis of temperature-responsive poly(N-vinylcaprolactam) microgels with glucose oxidase. 2018 , 20, 431-439		14
712	Immobilization of lipases in hydrophobic chitosan for selective hydrolysis of fish oil: The impact of support functionalization on lipase activity, selectivity and stability. <i>International Journal of Biological Macromolecules</i> , 2018 , 108, 674-686	7.9	48
711	Pore-expanded SBA-15 for the immobilization of a recombinant Candida antarctica lipase B: Application in esterification and hydrolysis as model reactions. 2018 , 129, 12-24		25
710	Characterization of technical grade carbonic anhydrase as biocatalyst for CO2 capture in potassium carbonate solutions. 2018 , 8, 279-291		10
709	Production of Hydroxynitrile Lyase from Davallia tyermannii (DtHNL) in Komagataella phaffii and Its Immobilization as a CLEA to Generate a Robust Biocatalyst. 2018 , 19, 312-316		10
708	Highly stable novel silica/chitosan support for Egalactosidase immobilization for application in dairy technology. 2018 , 246, 343-350		38
707	Isolation and characterization of a novel tyrosinase produced by Sahara soil actinobacteria and immobilization on nylon nanofiber membranes. 2018 , 265, 54-64		20
706	Advanced biotechnology in biorefinery: a new insight into municipal waste management to the production of high-value products. 2018 , 15, 675-686		7
705	Carrier-Free Enzyme Immobilization by Cross-Linked Enzyme Aggregates (CLEA) Technology. 2018 , 93-10	07	
704	Computational redesign of penicillin acylase for cephradine synthesis with high kinetic selectivity. 2018 , 20, 5484-5490		20
703	Characterization of immobilized tyrosinase - an enzyme that is stable in organic solvent at 100 LC 2018 , 8, 39529-39535		5

702	Evaluation of Strategies to Produce Highly Porous Cross-Linked Aggregates of Porcine Pancreas Lipase with Magnetic Properties. <i>Molecules</i> , 2018 , 23,	8	29
701	Immobilization of Eversa Lipase on Octyl Agarose Beads and Preliminary Characterization of Stability and Activity Features. 2018 , 8, 511		36
700	Chemoenzymatic Dynamic Kinetic Resolution of Amines in Fully Continuous-Flow Mode. 2018 , 20, 8052-80	56	15
699	∃-Chymotrypsin Immobilized on a Low-Density Polyethylene Surface Successfully Weakens Biofilm Formation. 2018 , 19,		10
698	Review of Catalytic Transesterification Methods for Biodiesel Production. 2018,		12
69 7	Preparation of Magnetic Cross-Linked Amyloglucosidase Aggregates: Solving Some Activity Problems. 2018 , 8, 496		25
696	New perspectives on the modification of silica aerogel particles with ionic liquid used in lipase immobilization with platform in ethyl esters production. <i>Process Biochemistry</i> , 2018 , 75, 157-165	8	12
695	A Facile Route for Oriented Covalent Immobilization of Recombinant Protein A on Epoxy Agarose Gels: In Situ Generation of Heterofunctional Amino-Epoxy Supports. 2018 , 3, 10320-10324		2
694	Enzymatic CO2 reduction to formate by formate dehydrogenase from Candida boidinii coupling with direct electrochemical regeneration of NADH. 2018 , 28, 117-125		30
693	Magnetic Combined Cross-Linked Enzyme Aggregates of Ketoreductase and Alcohol Dehydrogenase: An Efficient and Stable Biocatalyst for Asymmetric Synthesis of (R)-3-Quinuclidinol with Regeneration of Coenzymes In Situ. 2018 , 8, 334		11
692	Enzymatic Synthesis of Nucleic Acid Derivatives by Immobilized Enzymes. 2018 , 107-128		2
691	Facile Oriented Immobilization and Purification of His-Tagged Organophosphohydrolase on Viruslike Mesoporous Silica Nanoparticles for Organophosphate Bioremediation. 2018 , 6, 13588-13598		23
690	Lipase immobilization on high water adsorbing capacity bagasse: applications in bio-based plasticizer synthesis. 2018 , 45, 2095-2102		1
689	Synthesis of [email@protected]@Polymer Nanoparticles with Distinct Interfacial and Phase Transfer Behavior. 2018 , 30, 6717-6727		8
688	Preparation and Evaluation of Coal Fly Ash/Chitosan Composites as Magnetic Supports for Highly Efficient Cellulase Immobilization and Cellulose Bioconversion. <i>Polymers</i> , 2018 , 10,	5	11
687	Novel amphiphilic polyvinylpyrrolidone functionalized silicone particles as carrier for low-cost lipase immobilization. 2018 , 5, 172368		10
686	Physiochemical Characterization of ⊞-Amylase as Crosslinked Enzyme Aggregates. 2018 , 8, 299		7
685	Efficient Asymmetric Synthesis of Carbohydrates by Aldolase Nano-Confined in Lipidic Cubic Mesophases. 2018 , 8, 5810-5815		19

684	Stabilizing displayed proteins on vegetative Bacillus subtilis cells. 2018 , 102, 6547-6565		3
683	Effective Enzyme Coimmobilization and Synergistic Catalysis on Hierarchically Porous Inorganic/Organic Hybrid Microbeads Fabricated Via Droplet-Based Microfluidics. 2018 , 219, 1800106		2
682	Optimization protocols and improved strategies for metal-organic frameworks for immobilizing enzymes: Current development and future challenges. 2018 , 370, 22-41		110
681	Immobilized carbonic anhydrase on mesoporous cruciate flower-like metal organic framework for promoting CO sequestration. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 189-198	7.9	41
680	Biosynthesis of chiral epichlorohydrin using an immobilized halohydrin dehalogenase in aqueous and non-aqueous phase. 2018 , 263, 483-490		16
679	Enzyme shielding by mesoporous organosilica shell on FeO@silica yolk-shell nanospheres. <i>International Journal of Biological Macromolecules</i> , 2018 , 117, 673-682	7.9	31
678	Immobilization of Egalactosidase and \square -mannosidase onto magnetic nanoparticles: A strategy for increasing the potentiality of valuable glycomic tools for glycosylation analysis and biological role determination of glycoconjugates. 2018 , 117, 45-55		9
677	Grafting of glycerol methacrylate onto silicone rubber using Frays: derivatization to 2-oxoethyl methacrylate and immobilization of lysozyme. 2018 , 8, 199-206		4
676	Hydrogel-Immobilized Supercharged Proteins. 2018 , 2, 1700240		6
675	Enhanced reusability and activity: DNA directed immobilization of enzyme on polydopamine modified magnetic nanoparticles. 2018 , 137, 108-115		10
674	Polymeric gels for biosensing applications. 2018 , 487-503		3
673	Kinetic characterization of carbonic anhydrase immobilized on magnetic nanoparticles as biocatalyst for CO2 capture. 2018 , 138, 1-11		18
672	Improving phospholipase D activity and selectivity by bio-imprinting-immobilization to produce phosphatidylglycerol. 2018 , 281, 67-73		6
671	Preparation, characterization and trifluralin degradation of laccase-modified cellulose nanofibers. 2018 , 1, 29-37		14
670	Silica encapsulated catalase@metal-organic framework composite: A highly stable and recyclable biocatalyst. 2018 , 351, 506-514		54
669	Protease-based cross-linked enzyme aggregates with improved catalytic stability, silver removal, and dehairing potentials. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1247-1256	7.9	26
668	Covalent Immobilization of Protein A on Chitosan and Aldehyde Double-Branched Chitosan as Biocompatible Carriers for Immunoglobulin G (Igg) Purification. 2018 , 56, 933-940		7
667	The development of nanobiocatalysis via the immobilization of cellulase on composite magnetic nanomaterial for enhanced loading capacity and catalytic activity. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 692-700	7.9	21

666	Chitosan-alginate immobilized lipase based catalytic constructs: Development, characterization and potential applications. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 992-1001	7.9	13	
665	Kinetic and thermodynamic features of nanomagnetic cross-linked enzyme aggregates of naringinase nanobiocatalyst in naringin hydrolysis. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 717-725	7.9	13	
664	A tailor-made, self-sufficient and recyclable monooxygenase catalyst based on coimmobilized cytochrome P450 BM3 and glucose dehydrogenase. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2416-	2425	19	
663	Bienzyme Magnetic Nanobiocatalyst with Fe-Tannic Acid Film for One-Pot Starch Hydrolysis. 2018 , 66, 8753-8760		9	
662	Enhancement of catalytic performance of porcine pancreatic lipase immobilized on functional ionic liquid modified FeO-Chitosan nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 624-632	7.9	41	
661	Enzymatic synthesis of butyl butyrate by Candida rugosa lipase supported on magnetized-nanosilica from oil palm leaves: Process optimization, kinetic and thermodynamic study. 2018 , 91, 105-118		22	
660	Bioadhesive immobilize agarase on magnetic ferriferous by polydopamine. 2018 , 93, 218-225		5	
659	Lipase Immobilization on Silica Xerogel Treated with Protic Ionic Liquid and its Application in Biodiesel Production from Different Oils. 2018 , 19,		25	
658	Synthesis and continuous catalytic application of alkaline protease nanoflowers P VA composite hydrogel. 2018 , 116, 5-9		19	
657	Developments in support materials for immobilization of oxidoreductases: A comprehensive review. 2018 , 258, 1-20		143	
656	Using Laccases for Food Preservation. 2018 , 501-541		3	
655	Enzyme-catalysed production of n-butyl palmitate using ultrasound-assisted esterification of palmitic acid in a solvent-free system. 2018 , 41, 1621-1634		18	
654	Genetically Fused T4L Acts as a Shield in Covalent Enzyme Immobilisation Enhancing the Rescued Activity. 2018 , 8, 40		7	
653	Immobilization/Stabilization of Ficin Extract on Glutaraldehyde-Activated Agarose Beads. Variables That Control the Final Stability and Activity in Protein Hydrolyses. 2018 , 8, 149		49	
652	Maltose Production Using Starch from Cassava Bagasse Catalyzed by Cross-Linked EAmylase Aggregates. 2018 , 8, 170		21	
651	Improvement of Trehalose Production by Immobilized Trehalose Synthase from HB27. <i>Molecules</i> , 2018 , 23,	4.8	4	
650	Simultaneous Observation of the Orientation and Activity of Surface-Immobilized Enzymes. 2018 , 34, 9133-9140		17	
649	Highly stable adsorptive and covalent immobilization of Thermomyces lanuginosus lipase on tailor-made porous carbon material. 2018 , 138, 63-73		21	

648	"Smart" chemistry and its application in peroxidase immobilization using different support materials. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 278-290	7.9	111
647	Self-Assembling Protein Scaffold System for Easy in Vitro Coimmobilization of Biocatalytic Cascade Enzymes. 2018 , 8, 5611-5620		75
646	Stabilization of Enzymes by Multipoint Covalent Attachment on Aldehyde-Supports: 2-Picoline Borane as an Alternative Reducing Agent. 2018 , 8, 333		28
645	Egalactosidase: Biotechnological applications in food processing. 2018 , 42, e12564		41
644	Immobilization of Egalactosidase in glutaraldehyde-chitosan and its application to the synthesis of lactulose using cheese whey as feedstock. <i>Process Biochemistry</i> , 2018 , 73, 65-73	4.8	32
643	Relieving Allosteric Inhibition by Designing Active Inclusion Bodies and Coating of the Inclusion Bodies with Fe3O4 Nanomaterials for Sustainable 2-Oxobutyric Acid Production. 2018 , 8, 8889-8901		7
642	A versatile strategy for enzyme immobilization: Fabricating lipase/inorganic hybrid nanostructures on macroporous resins with enhanced catalytic properties. 2018 , 139, 101-108		25
641	Immobilization of l-asparaginase on aspartic acid functionalized graphene oxide nanosheet: Enzyme kinetics and stability studies. 2018 , 354, 1153-1163		46
640	Oriented covalent immobilization of recombinant protein A on the glutaraldehyde activated agarose support. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 100-108	7.9	14
639	Efficient carbon dioxide sequestration by using recombinant carbonic anhydrase. <i>Process Biochemistry</i> , 2018 , 73, 38-46	4.8	22
638	Self-sustaining closed-loop multienzyme-mediated conversion of amines into alcohols in continuous reactions. 2018 , 1, 452-459		76
637	Smart Nanoparticles for Selective Immobilization of Acid Phosphatases. 2018 , 10, 3490-3499		13
636	Combined CLEAs of invertase and soy protein for economically feasible conversion of sucrose in a fed-batch reactor. 2018 , 110, 145-157		15
635	Integrating enzyme immobilization and protein engineering: An alternative path for the development of novel and improved industrial biocatalysts. 2018 , 36, 1470-1480		149
634	Enzymatic Synthesis of Glycerol Carbonate Using a Lipase Immobilized on Magnetic Organosilica Nanoflowers as a Catalyst. 2018 , 3, 6642-6650		34
633	Precipitation-Based Nanoscale Enzyme Reactor with Improved Loading, Stability, and Mass Transfer for Enzymatic CO2 Conversion and Utilization. 2018 , 8, 6526-6536		24
632	Application of lipase bearing dead mycelia as biocatalyst for octyl-octanoate synthesis. 2018 , 27, 1707-1	718	
631	Production of lipases in cottonseed meal and application of the fermented solid as biocatalyst in esterification and transesterification reactions. 2019 , 130, 574-581		43

(2019-2019)

630	Lipase-catalyzed hydrolysis of (+,-)-2-(4-methylphenyl) propionic methyl ester enhanced by hydroxypropyl-Ecyclodextrin. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 147-158	3.5	9	
629	Palladium-mediated hybrid biocatalysts with enhanced enzymatic catalytic performance via allosteric effects. 2019 , 533, 1-8		14	
628	Immobilization of Candida cylindracea Lipase by Covalent Attachment on Glu-Modified Bentonite. 2019 , 187, 870-883		8	
627	Nanoparticle-induced enzyme pretreatment method for increased glucose production from lignocellulosic biomass under cold conditions. 2019 , 99, 767-780		14	
626	Immobilization of Lipase A from onto Chitosan-Coated Magnetic Nanoparticles. 2019, 20,		48	
625	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. 2019 , 9, 657		19	
624	Bifunctional Hybrid Enzyme-Catalytic Metal Organic Framework Reactors for ∃-Glucosidase Inhibitor Screening. 2019 , 11, 32769-32777		36	
623	Kinetically controlled acylation of 6-APA catalyzed by penicillin acylase from Streptomyces lavendulae: effect of reaction conditions in the enzymatic synthesis of penicillin V. 2019 , 1-10		2	
622	Study the effect of trypsin enzyme activity on the screening of applying frontal affinity chromatography. <i>International Journal of Biological Macromolecules</i> , 2019 , 139, 740-751	7.9	2	
621	Optimized immobilization of polygalacturonase from Aspergillus niger following different protocols: Improved stability and activity under drastic conditions. <i>International Journal of Biological Macromolecules</i> , 2019 , 138, 234-243	7.9	30	
620	Increasing the Enzyme Loading Capacity of Porous Supports by a Layer-by-Layer Immobilization Strategy Using PEI as Glue. 2019 , 9, 576		18	
619	Enhanced performance of lipase immobilized onto Co2+-chelated magnetic nanoparticles and its application in biodiesel production. 2019 , 255, 115794		31	
618	Application of polysaccharides in enzyme immobilization. 2019 , 357-395		3	
617	Tuning dimeric formate dehydrogenases reduction/oxidation activities by immobilization. <i>Process Biochemistry</i> , 2019 , 85, 97-105	4.8	13	
616	Benzyl propionate synthesis by fed-batch esterification using commercial immobilized and lyophilized Cal B lipase. 2019 , 42, 1625-1634		5	
615	Production of Pentaerythritol Monoricinoleate (PEMR) by immobilized lipase B. 2019 , 23, e00353		5	
614	Dextran Aldehyde in Biocatalysis: More Than a Mere Immobilization System. 2019 , 9, 622		22	
613	Preparation of Cross-Linked Enzyme Aggregates (CLEAs) of an Inulosucrase Mutant for the Enzymatic Synthesis of Inulin-Type Fructooligosaccharides. 2019 , 9, 641		5	

612	Stability/activity features of the main enzyme components of rohapect 10L. 2019 , 35, e2877		8
611	A hybrid hydrogel separated biofuel cell with a novel enzymatic anode and glucose tolerant cathode. 2019 , 44, 27056-27066		9
610	Co-Immobilization of Tri-Enzymes for the Conversion of Hydroxymethylfurfural to 2,5-Diformylfuran. <i>Molecules</i> , 2019 , 24,	.8	11
609	Further stabilization of lipase from Pseudomonas fluorescens immobilized on octyl coated nanoparticles via chemical modification with bifunctional agents. <i>International Journal of Biological 7. Macromolecules</i> , 2019 , 141, 313-324	.9	33
608	Enzymatic Production of Biodiesel Using Immobilized Lipase on Core-Shell Structured Fe3O4@MIL-100(Fe) Composites. 2019 , 9, 850		30
607	Facile and green fabrication of biocatalytic chitosan beads by one-step genipin-mediated Bulliplucosidase immobilization for production of bioactive genistein. 2019 , 14, 100187		2
606	Surface DisplayAn Alternative to Classic Enzyme Immobilization. 2019 , 9, 728		11
605	Genetically Modified M13 Bacteriophage Nanonets for Enzyme Catalysis and Recovery. 2019 , 9, 723		1
604	Lipase immobilized to a short alkyl chain-containing zwitterionic polymer grafted on silica nanoparticles: Moderate activation and significant increase of thermal stability. 2019 , 146, 124-131		12
603	Organic-inorganic nanoflowers: from design strategy to biomedical applications. 2019 , 11, 17179-17194		28
602	Drug metabolite synthesis by immobilized human FMO3 and whole cell catalysts. 2019 , 18, 133		2
601	Immobilization of pectinase on chitosan-magnetic particles: Influence of particle preparation protocol on enzyme properties for fruit juice clarification. 2019 , 24, e00373		21
600	Immobilization of lipase onto novel constructed polydopamine grafted multiwalled carbon nanotube impregnated with magnetic cobalt and its application in synthesis of fruit flavours. 7 International Journal of Biological Macromolecules, 2019, 140, 484-495	.9	43
599	Maintenance Properties of Enzyme Molecule Stereostructure at High Temperature by Adsorption on Organo-Modified Magnetic Nanoparticle Layer Template. 2019 , 92, 1662-1671		20
598	Activation of cellulase cross-linked enzyme aggregates (CLEAs) in scCO2. 2019 , 154, 104629		12
597	Application of Immobilized Enzymes in Food Industry. 2019 , 67, 11553-11567		56
596	Conjugation of Carbon Dots with EGalactosidase Enzyme: Surface Chemistry and Use in Biosensing. <i>Molecules</i> , 2019 , 24,	.8	10
595	The Microenvironment in Immobilized Enzymes: Methods of Characterization and Its Role in Determining Enzyme Performance. <i>Molecules</i> , 2019 , 24,	.8	26

Enhanced Thermostability and Anticancer Activity in Breast Cancer Cells of Laccase Immobilized on Pluronic-Stabilized Nanoparticles. 2019 , 11, 39436-39448	19
Metal-organic framework as a platform of the enzyme to prepare novel environmentally friendly nanobiocatalyst for degrading pollutant in water. 2019 , 80, 606-613	21
A robust nanobiocatalyst based on high performance lipase immobilized to novel synthesised poly(o-toluidine) functionalized magnetic nanocomposite: Sterling stability and application. 2019 , 99, 25-36	23
Hydrogel/enzyme dots as adaptable tool for non-compartmentalized multi-enzymatic reactions in microfluidic devices. 2019 , 4, 67-77	22
Low-cost mussel inspired poly(Catechol/Polyamine) modified magnetic nanoparticles as a versatile platform for enhanced activity of immobilized enzyme. <i>International Journal of Biological</i> 7.9 <i>Macromolecules</i> , 2019 , 128, 814-824	21
CALB Immobilized onto Magnetic Nanoparticles for Efficient Kinetic Resolution of Racemic Secondary Alcohols: Long-Term Stability and Reusability. <i>Molecules</i> , 2019 , 24,	17
Nanomaterials-Based Enzyme Biosensors for Electrochemical Applications: Recent Trends and Future Prospects. 2019 , 381-408	4
Recent progress in multienzymes co-immobilization and multienzyme system applications. 2019 , 373, 1254-1278	163
Comparison of the immobilization of lipase from Pseudomonas fluorescens on divinylsulfone or p-benzoquinone activated support. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 936-9 $\sqrt{5}$ 9	56
Challenges and Opportunities for the Production of Industrial Enzymes by Fermentation. 2019 , 1-21	1
Improving biocatalysis of cefaclor with penicillin acylase immobilized on magnetic nanocrystalline cellulose in deep eutectic solvent based co-solvent. 2019 , 288, 121548	19
Programmable stimuli-responsive polypeptides for biomimetic synthesis of silica nanocomposites and enzyme self-immobilization. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 1156-116 ^{9.9}	13
Continuous Flow Chemo-Enzymatic Baeyer Villiger Oxidation with Superactive and Extra-Stable Enzyme/Carbon Nanotube Catalyst: An Efficient Upgrade from Batch to Flow. 2019 , 23, 1386-1395	20
One-step immobilization-purification of enzymes by carbohydrate-binding module family 56 tag fusion. 2019 , 299, 125037	20
Nanobiocatalytic processes for producing biodiesel from algae. 2019 , 299-326	5
Reuse of Lipase from Pseudomonas fluorescens via Its Step-by-Step Coimmobilization on Glyoxyl-Octyl Agarose Beads with Least Stable Lipases. 2019 , 9, 487	24
Development of Effective Lipase-Hybrid Nanoflowers Enriched with Carbon and Magnetic Nanomaterials for Biocatalytic Transformations. 2019 , 9,	27
Reversible Two-Enzyme Coimmobilization on pH-Responsive Imprinted Monolith for Glucose Detection. 2019 , 14, e1900028	3
	Pluronic-Stabilized Nanoparticles. 2019, 11, 39436-39448 Metat-organic framework as a platform of the enzyme to prepare novel environmentally friendly nanobiocatalyst for degrading pollutant in water. 2019, 80, 606-613 A robust nanobiocatalyst based on high performance lipase immobilized to novel synthesised poly(c-toluidine) functionalized magnetic nanocomposite: Sterling stability and application. 2019, 99, 25-36 Hydrogel/enzyme dots as adaptable tool for non-compartmentalized multi-enzymatic reactions in microfluidic devices. 2019, 4, 67-77 Low-cost mussel inspired poly(Catechol/Polyamine) modified magnetic nanoparticles as a versatile platform for enhanced activity of immobilized enzyme. International Journal of Biological Macromolecules, 2019, 128, 814-824 CALB Immobilized onto Magnetic Nanoparticles for Efficient Kinetic Resolution of Racemic Secondary Alcohols: Long-Term Stability and Reusability. Molecules, 2019, 24, Nanomaterials-Based Enzyme Biosensors for Electrochemical Applications: Recent Trends and Future Prospects. 2019, 381-408 Recent progress in multienzymes co-immobilization and multienzyme system applications. 2019, 373, 1234-1278 Comparison of the immobilization of lipase from Pseudomonas fluorescens on divinylsulfone or p-benzoquinone activated support. International Journal of Biological Macromolecules, 2019, 134, 936-9459 Challenges and Opportunities for the Production of Industrial Enzymes by Fermentation. 2019, 1-21 Improving biocatalysis of cefaclor with penicillin acylase immobilized on magnetic nanocrystalline cellulose in deep eutectic solvent based co-solvent. 2019, 288, 121548 Programmable stimuli-responsive polypeptides for biomimetic synthesis of silica nanocomposites and enzyme self-immobilization. International Journal of Biological Macromolecules, 2019, 134, 1156-1169-9 Continuous Flow Chemo-Enzymatic Baeyerlÿ illiger Oxidation with Superactive and Extra-Stable Enzyme/Carbon Nanotube Catalyst: An Efficient Upgrade from Batch to Flow. 2019, 23, 1386-1395 One-step

576	Transaminase-Catalyzed Continuous Synthesis of Biogenic Aldehydes. 2019, 20, 2830-2833	9
575	Influence of reaction parameters in the polymerization between genipin and chitosan for enzyme immobilization. <i>Process Biochemistry</i> , 2019 , 84, 73-80	22
574	Enzyme Immobilization on Chitin and Chitosan-Based Supports for Biotechnological Applications. 2019 , 147-173	15
573	Engineering enzyme-coupled hybrid nanoflowers: The quest for optimum performance to meet biocatalytic challenges and opportunities. <i>International Journal of Biological Macromolecules</i> , 2019 , 7.9 135, 677-690	30
572	Technological Aspects of the Production of Fructo and Galacto-Oligosaccharides. Enzymatic Synthesis and Hydrolysis. 2019 , 6, 78	70
571	Lecitase ultra: A phospholipase with great potential in biocatalysis. <i>Molecular Catalysis</i> , 2019 , 473, 1104053	24
57°	Catalytic, kinetic and thermodynamic properties of free and immobilized caseinase on mica glass-ceramics. 2019 , 5, e01674	21
569	Hydrogen peroxide driven biocatalysis. 2019 , 21, 3232-3249	79
568	Thermochemical, Biological, Biochemical, and Hybrid Conversion Methods of Bio-derived Molecules into Renewable Fuels. 2019 , 59-81	10
567	Fine-tuned preparation of cross-linked laccase nanoaggregates. 2019 , 37, 431-447	1
566	Amination of ficin extract to improve its immobilization on glyoxyl-agarose: Improved stability and activity versus casein. <i>International Journal of Biological Macromolecules</i> , 2019 , 133, 412-419	15
565	Preparation, functionalization and characterization of rice husk silica for lipase immobilization via adsorption. 2019 , 128, 9-21	30
564	ELactoglobulin hydrolysis by a flow-through monolithic immobilized trypsin reactor in ethanol/aqueous solvents. <i>Process Biochemistry</i> , 2019 , 82, 84-93	4
563	Directly covalent immobilization of Candida antarctica lipase B on oxidized aspen powder by introducing poly-lysines: An economical approach to improve enzyme performance. <i>International Journal of Biological Macromolecules</i> , 2019 , 133, 226-234	3
562	Improvement of lipase activity by synergistic immobilization on polyurethane and its application for large-scale synthesizing vitamin A palmitate. 2019 , 49, 485-492	3
561	Cross-linked enzyme aggregates of recombinant Candida antarctica lipase B for the efficient synthesis of olvanil, a nonpungent capsaicin analogue. 2019 , 35, e2807	15
560	Improved features of a highly stable protease from Penaeus vannamei by immobilization on glutaraldehyde activated graphene oxide nanosheets. <i>International Journal of Biological</i> 7.9 <i>Macromolecules</i> , 2019 , 130, 564-572	23
559	New applications of glyoxyl-octyl agarose in lipases co-immobilization: Strategies to reuse the most stable lipase. <i>International Journal of Biological Macromolecules</i> , 2019 , 131, 989-997	53

558	Self-Assembled Phage-Based Colloids for High Localized Enzymatic Activity. 2019 , 13, 5810-5815	19
557	CLEAs, Combi-CLEAs and Smart[Magnetic CLEAs: Biocatalysis in a Bio-Based Economy. 2019 , 9, 261	79
556	Immobilization of lipases on hydrophobic supports: immobilization mechanism, advantages, problems, and solutions. 2019 , 37, 746-770	254
555	Meso-molding three-dimensionally ordered macroporous alumina: A new platform to immobilize enzymes with high performance. 2019 , 146, 60-68	6
554	Proteolytic ceramic capillary membranes for the production of peptides under flow. 2019 , 147, 89-99	14
553	Transesterification of microalgae for biodiesel production. 2019 , 469-510	5
552	Magnetic cross-linked enzyme aggregates of Km12 lipase: A stable nanobiocatalyst for biodiesel synthesis from waste cooking oil. 2019 , 141, 874-882	52
551	Changing surface grafting density has an effect on the activity of immobilized xylanase towards natural polysaccharides. 2019 , 9, 5763	9
550	Novozym 435: the perfect@ipase immobilized biocatalyst?. 2019 , 9, 2380-2420	241
549	Lipase Immobilized Metal-Organic Frameworks as Remarkably Biocatalyst for Ester Hydrolysis: A One Step Approach for Lipase Immobilization. 2019 , 4, 3745-3751	3
548	Enzyme immobilized millimeter-sized polyHIPE beads with easy separability and recyclability. 2019 , 4, 1136-1144	9
547	HKUST-1 catalyzed efficient in situ regeneration of NAD+ for dehydrogenase mediated oxidation. 2019 , 203, 43-53	20
546	Encapsulated functionalized stereocomplex PLA particles: An effective system to support mucolytic enzymes. 2019 , 179, 190-198	15
545	Multienzymatic Cascade Reactions via Enzyme Complex by Immobilization. 2019 , 9, 4402-4425	148
544	High-Performance Integrated Enzyme Cascade Bioplatform Based on Protein-BiPt Nanochain@Graphene Oxide Hybrid Guided One-Pot Self-Assembly Strategy. 2019 , 15, e1804987	18
543	Immobilized Nanocatalysts for Degradation of Industrial Wastewater. 2019 , 133-145	1
542	Preparation of Crosslinked Enzyme Aggregates of a Thermostable Cyclodextrin Glucosyltransferase from Thermoanaerobacter sp. Critical Effect of the Crosslinking Agent. 2019 , 9, 120	18
541	Ion Exchange Chromatography for Enzyme Immobilization. 2019 , 13-27	3

540	Immobilization and stabilization of different Eglucosidases using the glutaraldehyde chemistry: Optimal protocol depends on the enzyme. <i>International Journal of Biological Macromolecules</i> , 2019 , 129, 672-678	7.9	45
539	Modifying bio-catalytic properties of enzymes for efficient biocatalysis: a review from immobilization strategies viewpoint. 2019 , 37, 159-182		79
538	Systemic Concocting of Cross-Linked Enzyme Aggregates of Candida antarctica Lipase B (Novozyme 435) for the Biomanufacturing of Rhamnolipids. 2019 , 22, 477-490		15
537	Chemical, physical, and biological coordination: An interplay between materials and enzymes as potential platforms for immobilization. 2019 , 388, 1-23		105
536	Precise Regulation of Enzyme Cascade Catalytic Efficiency with DNA Tetrahedron as Scaffold for Ultrasensitive Electrochemical Detection of DNA. 2019 , 91, 3561-3566		31
535	Towards sarcosine determination in urine for prostatic carcinoma detection. 2019 , 287, 380-389		14
534	One-step preparation of organic-inorganic hybrid capsules based on simultaneous gelation and silicification. 2019 , 1, e12061		1
533	Lipase-catalyzed aza-Michael addition of amines to acrylates in supercritical carbon dioxide. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 3981-3986	3.5	7
532	One-step photostructuring of multiple hydrogel arrays for compartmentalized enzyme reactions in microfluidic devices. 2019 , 4, 2141-2155		12
531	Ethyl Butyrate Synthesis Catalyzed by Lipases A and B from Immobilized onto Magnetic Nanoparticles. Improvement of Biocatalysts' Performance under Ultrasonic Irradiation. 2019 , 20,		29
530	Enhanced Protein Adsorption in Fibrous Substrates Treated with Zeolitic Imidazolate Framework-8 (ZIF-8) Nanoparticles. 2019 , 2, 7626-7636		19
529	Improving the Yields and Reaction Rate in the Ethanolysis of Soybean Oil by Using Mixtures of Lipase CLEAs. <i>Molecules</i> , 2019 , 24,	4.8	19
528	Preparation of Ganglioside GM1 by Supercritical CO Extraction and Immobilized Sialidase. <i>Molecules</i> , 2019 , 24,	4.8	
527	Editorial for Special Issue: Enzyme Immobilization and Its Applications. <i>Molecules</i> , 2019 , 24,	4.8	9
526	Immobilization of Rhizomucor miehei lipase onto montmorillonite K-10 and polyvinyl alcohol gel. 2019 , 1-9		3
525	Sequential Co-immobilization of Enzymes in Metal-Organic Frameworks for Efficient Biocatalytic Conversion of Adsorbed CO to Formate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 394	5.8	38
524	Genipin as An Emergent Tool in the Design of Biocatalysts: Mechanism of Reaction and Applications. 2019 , 9, 1035		27
523	Remarkable stability of Candida antarctica lipase B immobilized via cross-linking aggregates (CLEA) in deep eutectic solvents. 2019 , 37, 106-114		24

522	Enhancing the catalytic performance of chloroperoxidase by co-immobilization with glucose oxidase on magnetic graphene oxide. 2019 , 143, 101-109	14
521	Production of d-tagatose and d-fructose from whey by co-immobilized enzymatic system. <i>Molecular Catalysis</i> , 2019 , 463, 99-109	11
520	Catalytic applications of enzymes encapsulated in metal®rganic frameworks. 2019 , 381, 151-160	146
519	An overview of the recent trends on the waste valorization techniques for food wastes. 2019 , 233, 352-370	157
518	Enzymes@ZIF-8 Nanocomposites with Protection Nanocoating: Stability and Acid-Resistant Evaluation. <i>Polymers</i> , 2018 , 11,	29
517	Improvement of activity and stability of Rhizomucor miehei lipase by immobilization on nanoporous aluminium oxide and potassium sulfate microcrystals and their applications in the synthesis of aroma esters. 2019 , 37, 210-223	8
516	Immobilization of pectinases into calcium alginate microspheres for fruit juice application. 2019 , 89, 691-699	27
515	Biodegradation of polyvinyl alcohol using cross-linked enzyme aggregates of degrading enzymes from Bacillus niacini. <i>International Journal of Biological Macromolecules</i> , 2019 , 124, 10-16	35
514	An effective immobilized haloalkane dehalogenase DhaA from Rhodococcus rhodochrous by adsorption, crosslink and PEGylation on meso-cellular foam. <i>International Journal of Biological 7.9 Macromolecules</i> , 2019 , 125, 1016-1023	8
513	Chitosan Co-polymeric nanostructures for catalase immobilization. 2019 , 135, 94-102	18
512	Cooperativity of covalent attachment and ion exchange on alcalase immobilization using glutaraldehyde chemistry: Enzyme stabilization and improved proteolytic activity. 2019 , 35, e2768	12
511	Application of In Situ Product Crystallization and Related Techniques in Biocatalytic Processes. 2019 , 25, 4871-4884	25
510	BSA/ASN/Pol407 nanoparticles for acute lymphoblastic leukemia treatment. 2019 , 141, 80-88	2
509	Effects of Reaction Operation Policies on Properties of CoreBhell Polymer Supports Used for Preparation of Highly Active Biocatalysts. 2019 , 13, 1800055	5
508	Enhanced Properties and Lactose Hydrolysis Efficiencies of Food-Grade EGalactosidases Immobilized on Various Supports: a Comparative Approach. 2019 , 188, 410-423	9
507	Potential application of Thermomyces lanuginosus lipase (TLL) immobilized on nonporous polystyrene particles. 2019 , 38, 608-613	14
506	The novel multi cross-linked enzyme aggregates of protease, lipase, and catalase production from the sunflower seeds, characterization and application. 2019 , 173, 58-68	25
505	A facile method to oriented immobilization of His-tagged BirA on Co-NTA agarose beads. 2019 , 120, 36-42	5

504	Mesoporous support designed for DhaA adsorption with improved stability. 2019 , 26, 829-837		2
503	Trends on enzyme immobilization researches based on bibliometric analysis. <i>Process Biochemistry</i> , 2019 , 76, 95-110	4.8	73
502	Zwitterionic polymer-coated porous poly(vinyl acetatedivinyl benzene) microsphere: A new support for enhanced performance of immobilized lipase. 2020 , 28, 242-248		5
501	Recent development in the application of immobilized oxidative enzymes for bioremediation of hazardous micropollutants - A review. 2020 , 239, 124716		71
500	Improving operational stability of thermostable secretory serine protease by preparation of cross-linked enzyme aggregates (CLEAs). 2020 , 50, 107-115		8
499	Enhanced performance of Candida rugosa lipase immobilized onto alkyl chain modified-magnetic nanocomposites. 2020 , 132, 109439		11
498	Preparation of photo-crosslinkable cinnamate modified hyaluronic acid for immobilization of horseradish peroxidase. <i>Process Biochemistry</i> , 2020 , 88, 67-77	4.8	6
497	Immobilization of horseradish peroxidase on polyglycerol-functionalized magnetic Fe3O4/nanodiamond nanocomposites and its application in phenol biodegradation. 2020 , 46, 101-118		13
496	Cross-linked enzyme lyophilisates (CLELs) of urease: A new method to immobilize ureases. 2020 , 132, 109390		10
495	One-phase synthesis of single enzyme nanoparticles (SENs) of Trametes versicolor laccase by in situ acrylamide polymerisation. 2020 , 38, 64-74		4
494	Pectin lyase immobilization using the glutaraldehyde chemistry increases the enzyme operation range. 2020 , 132, 109397		40
493	Nano-bioremediation: A New Age Technology for the Treatment of Dyes in Textile Effluents. 2020 , 313	-347	16
492	Multienzymatic Nanoassemblies: Recent Progress and Applications. 2020 , 38, 202-216		32
491	An enzymatic performance for a new swift magnetically detachable bio-conjugate of Candida rugosa lipase with modified Fe3O4graphene oxide nanocomposite. 2020 , 17, 367-382		O
490	Nanoparticles decorated carbon nanotubes as novel matrix: A comparative study of influences of immobilization on the catalytic properties of Lensculinaris Balactosidase (Lc Bal). <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 770-780	7.9	5
489	Covalent immobilization of Aspergillus niger amyloglucosidase (ANAG) with ethylenediamine-functionalized and glutaraldehyde-activated active carbon (EFGAAC) obtained from sesame seed shell. <i>International Journal of Biological Macromolecules</i> , 2020 , 142, 222-231	7.9	5
488	Strategies to rationalize enzyme immobilization procedures. 2020 , 630, 81-110		13
487	Biocatalytic properties of cell surface display laccase for degradation of emerging contaminant acetaminophen in water reclamation. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 342-353	4.9	8

486	Chitin and chitosan-based support materials for enzyme immobilization and biotechnological applications. 2020 , 18, 315-323		79	
485	Coimmobilization of different lipases: Simple layer by layer enzyme spatial ordering. <i>International Journal of Biological Macromolecules</i> , 2020 , 145, 856-864	7.9	24	
484	Target-Specific Covalent Immobilization of Enzymes from Cell Lysate on SiO2 Nanoparticles for Biomass Saccharification. 2020 , 3, 44-48		8	
483	Epoxy functionalized polymer grafted magnetic nanoparticles by facile surface initiated polymerization for immobilization studies of Candida Antarctica lipase B. 2020 , 147, 104454		7	
482	Mesoporous CoreBhell Nanostructures Bridging Metal and Biocatalyst for Highly Efficient Cascade Reactions. 2020 , 10, 1375-1380		20	
481	Food industry waste biorefineries. 2020 , 407-426		3	
480	Three-Enzyme Phosphorylase Cascade Immobilized on Solid Support for Biocatalytic Synthesis of CelloBligosaccharides. 2020 , 12, 1350-1358		15	
479	Enzyme immobilized in BioMOFs: Facile synthesis and improved catalytic performance. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 19-28	7.9	17	
478	Enzyme immobilization onto the nanomaterials: Application in enzyme stability and prodrug-activated cancer therapy. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 665-67	6 ^{7.9}	50	
477	Optimal immobilization of trypsin from the spleen of albacore tuna (Thunnus alalunga) and its characterization. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 462-471	7.9	6	
476	A porous-cross linked enzyme aggregates of maltogenic amylase from Bacillus lehensis G1: Robust biocatalyst with improved stability and substrate diffusion. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 1222-1231	7.9	11	
475	Green construction of recyclable amino-tannic acid modified magnetic nanoparticles: Application for Eglucosidase immobilization. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 1366-137	4 .9	11	
474	On the relationship between structure and catalytic effectiveness in solid surface-immobilized enzymes: Advances in methodology and the quest for a single-molecule perspective. 2020 , 1868, 14033	3	22	
473	Parameters necessary to define an immobilized enzyme preparation. <i>Process Biochemistry</i> , 2020 , 90, 66-80	4.8	162	
472	Use of glyoxyl-agarose immobilized ficin extract in milk coagulation: Unexpected importance of the ficin loading on the biocatalysts. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 419-426	7.9	19	
47 ¹	Use of Silica Based Materials as Modulators of the Lipase Catalyzed Hydrolysis of Fats under Simulated Duodenal Conditions. 2020 , 10,		O	
470	An efficient nano-biocatalyst for lignocellulosic biomass hydrolysis: Xylanase immobilization on organically modified biogenic mesoporous silica nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 3462-3473	7.9	20	
469	The response surface methodology for optimization of tyrosinase immobilization onto electrospun polycaprolactone-chitosan fibers for use in bisphenol A removal. <i>International Journal of Biological Macromolecules</i> 2020 165, 2049-2059	7.9	11	

468	Anti-biofilm and wound-healing activity of chitosan-immobilized Ficin. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 4205-4217	7.9	14
467	Use of Alcalase in the production of bioactive peptides: A review. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2143-2196	7.9	42
466	Optimization of immobilization conditions of Bacillus atrophaeus FSHM2 lipase on maleic copolymer coated amine-modified graphene oxide nanosheets and its application for valeric acid esterification. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 1790-1806	7.9	19
465	Design and application of a bi-functional redox biocatalyst through covalent co-immobilization of ene-reductase and glucose dehydrogenase. 2020 , 323, 246-253		3
464	Enzyme production of D-gluconic acid and glucose oxidase: successful tales of cascade reactions. 2020 , 10, 5740-5771		23
463	Enantioselective Transesterification of Allyl Alcohols with (E)-4-Arylbut-3-en-2-ol Motif by Immobilized LecitaselUltra. 2020 , 10, 798		1
462	Nitrile hydratase mediated green synthesis of lactamide by immobilizing Rhodococcus pyridinivorans NIT-36 cells on N, N'-Methylene bis-acrylamide activated chitosan. <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 168-176	7.9	4
461	Enhanced biochemical characteristics of Eglucosidase via adsorption and cross-linked enzyme aggregate for rapid cellobiose hydrolysis. 2020 , 43, 2209-2217		8
460	Make proper surfaces for immobilization of enzymes: Immobilization of lipase and ⊞-amylase on modified Na-sepiolite. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 1-12	7.9	41
459	Engineering the Composition of Heterogeneous Lipid Bilayers to Stabilize Tethered Enzymes. 2020 , 7, 2000533		5
458	MicroGelzymes: pH-Independent Immobilization of Cytochrome P450 BM3 in Microgels. 2020 , 21, 5128	-5138	8
457	Immobilization of alcohol dehydrogenase from Saccharomyces cerevisiae onto carboxymethyl dextran-coated magnetic nanoparticles: a novel route for biocatalyst improvement via epoxy activation. 2020 , 10, 19478		10
456	Nanoformulation approach for improved stability and efficiency of lactoperoxidase. 2021 , 51, 629-641		1
455	Designing a Support for Lipase Immobilization Based On Magnetic, Hydrophobic, and Mesoporous Silica. 2020 , 36, 10147-10155		7
454	Metal-Organic Frameworks: A Potential Platform for Enzyme Immobilization and Related Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 695	5.8	27
453	Recent developments in enzyme immobilization technology for high-throughput processing in food industries. 2021 , 61, 3160-3196		20
452	Modulation of lipase B from Candida antarctica properties via covalent immobilization on eco-friendly support for enzymatic kinetic resolution of rac-indanyl acetate. 2020 , 43, 2253-2268		26
451	A Selective Sulfide Oxidation Catalyzed by Heterogeneous Artificial Metalloenzymes Iron@NikA. 2020 , 26, 16633-16638		1

450	Immobilisation of lipase on a highly hydrophobic support: A stable immobilised lipase suitable for non-aqueous synthesis. 2020 , 28, e00535		4
449	Immobilization of thermolysin enzyme on dendronized silica supports. Evaluation of its feasibility on multiple protein hydrolysis cycles. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2338 ⁷ 2	2348	₃ 4
448	Papain immobilization on heterofunctional membrane bacterial cellulose as a potential strategy for the debridement of skin wounds. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 3065-3077	9	8
447	Immobilization of phospholipase D on macroporous SiO/cationic polymer nano-composited support for the highly efficient synthesis of phosphatidylserine. 2020 , 142, 109696		1
446	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. 2020 , 10, 1207		10
445	Co-immobilization of two-component hydroxylase monooxygenase by functionalized magnetic nanoparticles for preserving high catalytic activity and enhancing enzyme stabilty. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 3163-3170	9	6
444	PEG-modified lipase immobilized onto NH-MIL-53 MOF for efficient resolution of 4-fluoromandelic acid enantiomers. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 1793-1802	9	7
443	Chemoenzymatic Epoxidation of Limonene Using a Novel Surface-Functionalized Silica Catalyst Derived from Agricultural Waste. 2020 , 5, 22940-22950		5
442	Enhancement of the activity, stability and reusability of an extracellular protease from Pseudomonas fluorescens 07A via three different strategies of immobilization. 2020 , 37, 485-493		1
441	Evaluation of Designed Immobilized Catalytic Systems: Activity Enhancement of Lipase B from Candida antarctica. 2020 , 10, 876		5
440	Enzyme-Coated Micro-Crystals: An Almost Forgotten but Very Simple and Elegant Immobilization Strategy. 2020 , 10, 891		16
439	Immobilization of pectinase on Zr-treated pumice for fruit juice industry. 2020 , 44, e14661		2
438	Pickering Emulsion-Based Microreactors for Size-Selective Interfacial Enzymatic Catalysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 950	8	4
437	Composites of Crosslinked Aggregates of Eversa Transform and Magnetic Nanoparticles. Performance in the Ethanolysis of Soybean Oil. 2020 , 10, 817		7
436	Rationally designed chimeric solid-binding peptides for tailoring solid interfaces. 2020 , 3, e10065		5
435	A versatile biocatalytic nano-platform based on Fe3O4-filled and zirconia shrunk holey carbon nanotubes. 2020 , 402, 125737		9
434	Co-immobilization of an Enzyme System on a Metal-Organic Framework to Produce a More Effective Biocatalyst. 2020 , 10, 499		11
433	Simulative Minimization of Mass Transfer Limitations Within Hydrogel-Based 3D-Printed Enzyme Carriers. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 365	8	5

432	Elucidating the choice for a precise matrix for laccase immobilization: A review. 2020 , 397, 125506		47
431	Extraction and crosslinking of bromelain aggregates for improved stability and reusability from pineapple processing waste. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 318-326	7.9	17
430	The Effect of Dissolved Oxygen on Kinetics during Continuous Biocatalytic Oxidations. 2020 , 24, 2055-2	063	9
429	Organic solvent stability and long-term storage of myoglobin-based carbene transfer biocatalysts. 2020 , 67, 516-526		3
428	Highly reusable invertase biocatalyst: Biological fibrils functionalized by photocrosslinking. 2020 , 331, 127322		2
427	Ficin: A protease extract with relevance in biotechnology and biocatalysis. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 394-404	7.9	24
426	Green preparation of lipase@Ca3(PO4)2 hybrid nanoflowers using bone waste from food production for efficient synthesis of clindamycin palmitate. 2020 , 89, 383-391		9
425	Fabrication of immobilized Candida rugosa lipase on magnetic Fe3O4-poly(glycidyl methacrylate-co-methacrylic acid) composite as an efficient and recyclable biocatalyst for enzymatic production of biodiesel. 2020 , 158, 474-486		41
424	One Pot Use of Combilipases for Full Modification of Oils and Fats: Multifunctional and Heterogeneous Substrates. 2020 , 10, 605		35
423	Tailoring a stable and recyclable nanobiocatalyst by immobilization of surfactant treated Burkholderia cepacia lipase on polyaniline nanofibers for biocatalytic application. <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 573-586	7.9	10
422	Immobilization of Naringinase from on a Magnetic Polysaccharide Carrier. <i>Molecules</i> , 2020 , 25,	4.8	10
421	Immobilization of lipase onto metal@rganic frameworks for enantioselective hydrolysis and transesterification. 2020 , 66, e16292		9
420	Designing and investigation of photo-active gellan gum for the efficient immobilization of catalase by entrapment. <i>International Journal of Biological Macromolecules</i> , 2020 , 161, 539-549	7.9	4
419	A Review on Bio-Based Catalysts (Immobilized Enzymes) Used for Biodiesel Production. 2020 , 13, 3013		34
418	Recent Advances in Enzyme-Nanostructure Biocatalysts with Enhanced Activity. 2020 , 10, 338		26
417	Synthesis of Inorganic Pyrophosphatase-Nanodiamond Conjugates Resistant to Calcium and Fluoride. 2020 , 5, 6641-6650		1
416	Enhanced Stability of Enzyme Immobilized in Rationally Designed Amphiphilic Aerogel and Its Application for Sensitive Glucose Detection. 2020 , 92, 5319-5328		22
415	Effects of Enzyme Loading and Immobilization Conditions on the Catalytic Features of Lipase From Immobilized on Octyl-Agarose Beads. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 36	5.8	40

(2020-2020)

414	Sustainable Enzymatic Synthesis of a Solketal Ester P rocess Optimization and Evaluation of Its Antimicrobial Activity. 2020 , 10, 218		12
413	Free and Immobilized Lecitasell ltra as the Biocatalyst in the Kinetic Resolution of ()-4-Arylbut-3-en-2-yl Esters. <i>Molecules</i> , 2020 , 25,	4.8	4
412	Enhancement of biochemical aspects of lipase adsorbed on halloysite nanotubes and entrapped in a polyvinyl alcohol/alginate hydrogel: strategies to reuse the most stable lipase. 2020 , 36, 45		2
411	Preparation of nano-enzyme aggregates by crosslinking lipase with sodium tripolyphosphate. <i>Process Biochemistry</i> , 2020 , 97, 19-26	4.8	7
410	Lipase From Immobilized on Magnetic Nanoparticles: Performance in Fatty Acid Ethyl Ester (FAEE) Optimized Production by the Taguchi Method. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 693	5.8	38
409	Immobilized Biocatalysts of Eversa Transform 2.0 and Lipase from Thermomyces Lanuginosus: Comparison of Some Properties and Performance in Biodiesel Production. 2020 , 10, 738		16
408	Enzyme co-immobilization: Always the biocatalyst designers' choiceBr not?. 2021 , 51, 107584		63
407	Xylanase immobilization onto trichlorotriazine-functionalized polyethylene glycol grafted magnetic nanoparticles: A thermostable and robust nanobiocatalyst for fruit juice clarification. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 402-413	7.9	8
406	Modifying alcalase activity and stability by immobilization onto chitosan aiming at the production of bioactive peptides by hydrolysis of tilapia skin gelatin. <i>Process Biochemistry</i> , 2020 , 97, 27-36	4.8	7
405	Improved immobilization of lipase from Thermomyces lanuginosus on a new chitosan-based heterofunctional support: Mixed ion exchange plus hydrophobic interactions. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 550-561	7.9	27
404	Pluronic-Based Nanocarrier Platform Encapsulating Two Enzymes for Cascade Reactions 2020 , 3, 5126	-5135	7
403	Biocatalysis and Strategies for Enzyme Improvement. 2020 ,		6
402	Flexible and self-healing electrochemical hydrogel sensor with high efficiency toward glucose monitoring. 2020 , 155, 112105		30
401	Use of polyethylenimine to produce immobilized lipase multilayers biocatalysts with very high volumetric activity using octyl-agarose beads: Avoiding enzyme release during multilayer production. 2020 , 137, 109535		14
400	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. <i>Process Biochemistry</i> , 2020 , 95, 251-259	4.8	4
399	SpyTag/SpyCatcher cyclization and covalent immobilization in enhancing cephalosporin C acylase stability. <i>Process Biochemistry</i> , 2020 , 95, 260-268	4.8	8
398	Reduction of nitroarenes by magnetically recoverable nitroreductase immobilized on FeO nanoparticles. 2020 , 10, 2810		6
397	Production and use of immobilized lipases in/on nanomaterials: A review from the waste to biodiesel production. <i>International Journal of Biological Macromolecules</i> , 2020 , 152, 207-222	7.9	135

396	3D hollow-out TiO nanowire cluster/GOx as an ultrasensitive photoelectrochemical glucose biosensor. 2020 , 8, 2363-2370	16
395	The Hitchhiker's guide to biocatalysis: recent advances in the use of enzymes in organic synthesis. 2020 , 11, 2587-2605	88
394	Design and Preparation of Carbon Nitride-Based Amphiphilic Janus N-Doped Carbon/MoS Nanosheets for Interfacial Enzyme Nanoreactor. 2020 , 12, 12227-12237	21
393	Enzyme Encapsulation in GlycerolBilicone Membranes for Bioreactions and Biosensors. 2020 , 2, 1203-1212	6
392	Functionalized Ecarrageenan/hyperbranched poly(amidoamine)for protease immobilization: Thermodynamics and stability studies. <i>International Journal of Biological Macromolecules</i> , 2020 , 7.9 148, 1140-1155	18
391	Biochemical and Structural Characterization of Cross-Linked Enzyme Aggregates (CLEAs) of Organic Solvent Tolerant Protease. 2020 , 10, 55	10
390	Immobilization of Lipozyme TL 100L for methyl esterification of soybean oil deodorizer distillate. 2020 , 10, 51	8
389	Reduced Enzyme Dynamics upon Multipoint Covalent Immobilization Leads to Stability-Activity Trade-off. 2020 , 142, 3463-3471	33
388	Simultaneous hydrolysis of cheese whey and lactulose production catalyzed by Egalactosidase from Kluyveromyces lactis NRRL Y1564. 2020 , 43, 711-722	21
387	Frontiers in electrochemical enzyme based biosensors for food and drug analysis. 2020 , 124, 115809	41
386	Effects of different expression systems on characterization of adenylate deaminase from Aspergillus oryzae. 2020 , 43, 919-926	1
385	Immobilized lipase-CLEA aggregates encapsulated in lentikats as robust biocatalysts for continuous processes in deep eutectic solvents. 2020 , 310, 97-102	26
384	Design and Construction of an Effective Expression System with Aldehyde Tag for Site-Specific Enzyme Immobilization. 2020 , 10, 410	1
383	Covalent Immobilization of Naringinase over Two-Dimensional 2D Zeolites and its Applications in a Continuous Process to Produce Citrus Flavonoids and for Debittering of Juices. 2020 , 12, 4502-4511	7
382	Degradation of Sesame Oil Phenolics Using Magnetic Immobilized Laccase. 2020 , 150, 3086-3095	2
381	On the taught new tricks of enzymes immobilization: An all-inclusive overview. 2020 , 152, 104613	90
380	Glyoxyl-Activated Agarose as Support for Covalently Link Novo-Pro D: Biocatalysts Performance in the Hydrolysis of Casein. 2020 , 10, 466	7
379	Co-immobilization of Fructofuranosidase and glucose oxidase improves the stability of Bi-enzymes and the production of lactosucrose. 2020 , 128, 109460	11

(2021-2020)

378	Protein-inorganic calcium-phosphate supraparticles as a robust platform for enzyme co-immobilization. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 1979-1989	4.9	8
377	Co-immobilization multienzyme nanoreactor with co-factor regeneration for conversion of CO. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 110-118	7.9	43
376	Novel approach using activated cellulose film for efficient immobilization of purified diamine oxidase to enhance enzyme performance and stability. 2020 , 50, 468-476		1
375	A new heterofunctional support for enzyme immobilization: PEI functionalized FeO MNPs activated with divinyl sulfone. Application in the immobilization of lipase from Thermomyces lanuginosus. 2020 , 138, 109560		39
374	Shallow porous microsphere carriers with core-shell structure based on glass beads cross-linking chitosan for immobilizing inulinase. <i>Molecular Catalysis</i> , 2020 , 486, 110871	3.3	2
373	Comparison of Enzymes Immobilised on Immobeads and Inclusion Bodies: A Case Study of a Trehalose Transferase. 2020 , 12, 3249-3256		6
372	Carrier-bound and carrier-free immobilization of type A feruloyl esterase from Aspergillus niger: Searching for an operationally stable heterogeneous biocatalyst for the synthesis of butyl hydroxycinnamates. 2020 , 316, 6-16		14
371	Bimetal based inorganic-carbonic anhydrase hybrid hydrogel membrane for CO2 capture. 2020 , 39, 10°	1171	20
370	Hollow Mesoporous Carbon Nanospheres Loaded with Pt Nanoparticles for Colorimetric Detection of Ascorbic Acid and Glucose. 2020 , 3, 4586-4598		18
369	Biotechnological relevance of the lipase A from Candida antarctica. 2021 , 362, 141-154		39
368	Enzymatic synthesis of biolubricants from by-product of soybean oil processing catalyzed by different biocatalysts of Candida rugosa lipase. 2021 , 362, 122-129		17
367	Synthesis of substituted 2H-chromenes catalyzed by lipase immobilized on magnetic multiwalled carbon nanotubes. 2021 , 68, 411-416		1
366	Optimization of simultaneous saccharification and isomerization of dextrin to high fructose syrup using a mixture of immobilized amyloglucosidase and glucose isomerase. 2021 , 362, 175-183		7
365	Enzymatic clarification of orange juice in continuous bed reactors: Fluidized-bed versus packed-bed reactor. 2021 , 362, 184-191		6
364	Design and model for falling particlesbiosensors. 2021 , 329, 129088		1
363	Opportunities for improving biodiesel production via lipase catalysis. 2021 , 288, 119577		72
362	Immobilization studies of a pectinase produced by Aspergillus terreus. 2021 , 68, 197-208		1
361	Lipase immobilized graphene oxide biocatalyst assisted enzymatic transesterification of Pongamia pinnata (Karanja) oil and downstream enrichment of biodiesel by solar-driven direct contact membrane distillation followed by ultrafiltration. 2021 , 211, 106577		17

360	Production of lactobionic acid using an immobilized cellobiose dehydrogenase/laccase system on magnetic chitosan spheres. <i>Process Biochemistry</i> , 2021 , 100, 1-9	4.8	9
359	Chitosan-glutaraldehyde activated carrageenan-alginate beads for ED-galactosidase covalent immobilisation. 2021 , 39, 138-151		3
358	Immobilization of enzymes on nanoinorganic support materials: An update. <i>International Journal of Biological Macromolecules</i> , 2021 , 168, 708-721	7.9	39
357	A comprehensive review on incredible renewable carriers as promising platforms for enzyme immobilization & thereof strategies. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 962-9	98 8	37
356	Immobilization of Aspergillus oryzae Egalactosidase in cation functionalized agarose matrix and its application in the synthesis of lactulose. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 1564-1574	7.9	6
355	One pot clarification and debittering of grapefruit juice using co-immobilized enzymes@chitosanMNPs. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 1297-1307	7.9	8
354	Protein A-based ligands for affinity chromatography of antibodies. 2021 , 30, 194-203		5
353	Immobilization of peroxidase on textile carrier materials and their application in the bleaching of colored whey. 2021 , 104, 1548-1559		3
352	Efficient secretion expression of phospholipase D in Bacillus subtilis and its application in synthesis of phosphatidylserine by enzyme immobilization. <i>International Journal of Biological Macromolecules</i> , 2021 , 169, 282-289	7.9	0
351	Selective ene-reductase immobilization to magnetic nanoparticles through a novel affinity tag. 2021 , 16, e2000366		6
350	Magnetic micro-macro biocatalysts applied to industrial bioprocesses. 2021 , 322, 124547		13
349	Biopolymers and nanostructured materials to develop pectinases-based immobilized nano-biocatalytic systems for biotechnological applications. 2021 , 140, 109979		18
348	Combination of Adsorption and Cellulose Derivative Membrane Coating for Efficient Immobilization of Laccase. 2021 , 193, 446-462		4
347	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. 2021 , 164, 1566-1587		42
346	A peroxidase coordinating to Zn (II) preventing heme bleaching and resistant to the interference of H O. 2021 , 37, e3075		0
345	Soluble and Cross-Linked Aggregated Forms of ⊞-Galactosidase from Vigna mungo Immobilized on Magnetic Nanocomposites: Improved Stability and Reusability. 2021 , 193, 238-256		2
344	Multienzyme nanoassemblies: from rational design to biomedical applications. 2021 , 9, 7323-7342		1
343	Cross-linking of a polyketide synthase domain leads to a recyclable biocatalyst for chiral oxygen heterocycle synthesis 2021 , 11, 20248-20251		O

(2021-2021)

Immobilized peptide-N-glycosidase F onto magnetic nanoparticles: A biotechnological tool for protein deglycosylation under native conditions. **2021**,

341	Bioconversion of Onion Waste to Valuable Biosugar as an Alternative Feed Source for Honey Bee. 2021 , 12, 4503		2
340	Biocatalysis in Continuous-Flow Microfluidic Reactors. 2021 , 1		4
339	(Bio)nanotechnology in Food Science-Food Packaging. 2021 , 11,		44
338	Laccase aggregates via poly-lysine-supported immobilization onto PEGA resin, with efficient activity and high operational stability and can be used to degrade endocrine-disrupting chemicals. 2021 , 11, 934-942		5
337	Polymer-Coated Magnetite Nanoparticles for Protein Immobilization. 2021, 14,		20
336	Enzyme-modified electrodes for biofuel cells: A comprehensive review. 2021 , 46, 3495-3501		4
335	Solvent-free esterifications mediated by immobilized lipases: a review from thermodynamic and kinetic perspectives. 2021 , 11, 5696-5711		17
334	Characterization and application of natural and recombinant butelase-1 to improve industrial enzymes by end-to-end circularization 2021 , 11, 23105-23112		5
333	Stabilization of multimeric nitrilase via different immobilization techniques for hydrolysis of acrylonitrile to acrylic acid. 2021 , 39, 221-231		O
332	Development and characterization of cross-linked laccase aggregates (Lac-CLEAs) from Trametes versicolor IBL-04 as ecofriendly biocatalyst for degradation of dye-based environmental pollutants. 2021 , 21, 101364		9
331	Preparation of highly diffusible porous cross-linked lipase B from Candida antarctica conjugates: Advances in mass transfer and application in transesterification of 5-Hydroxymethylfurfural. <i>International Journal of Biological Macromolecules</i> , 2021 , 170, 583-592	7.9	5
330	Grand Challenges in Biocatalysis. 2021 , 1,		2
329	Construction and comprehensive characterization of an EcLDCc-CatIB set-varying linkers and aggregation inducing tags. 2021 , 20, 49		6
328	Stabilization of EGalactosidase on Modified Gold Nanoparticles: A Preliminary Biochemical Study to Obtain Lactose-Free Dairy Products for Lactose-Intolerant Individuals. <i>Molecules</i> , 2021 , 26,	4.8	5
327	Effect of cross-linked enzyme aggregate strategy on characterization of sn-1,3 extracellular lipase from Aspergillus niger GZUF36. 2021 , 105, 1925-1941		1
326	Diffusion of Protein Molecules through Microporous Nanofibrous Polyacrylonitrile Membranes. 2021 , 3, 1618-1627		1
325	Immobilization of laccase via cross-linked enzyme aggregates prepared using genipin as a natural cross-linker. <i>International Journal of Biological Macromolecules</i> , 2021 , 169, 541-550	7.9	9

324	Effect of Concentrated Salts Solutions on the Stability of Immobilized Enzymes: Influence of Inactivation Conditions and Immobilization Protocol. <i>Molecules</i> , 2021 , 26,	4.8	5
323	Immobilized Alcalase on Micron- and Submicron-Sized Alginate Beads as a Potential Biocatalyst for Hydrolysis of Food Proteins. 2021 , 11, 305		O
322	Current application of MOFs based heterogeneous catalysts in catalyzing transesterification/esterification for biodiesel production: A review. 2021 , 229, 113760		23
321	Utilization of polyvinyl butyral-zirconium alkoxide hybrid hollow tube as an enzyme immobilization carrier. 2021 , 56, 8668-8678		1
320	Preparation of cross-linked enzyme aggregates of lipase from Aspergillus niger: process optimization, characterization, stability, and application for epoxidation of lemongrass oil. 2021 , 44, 13	383-140	04 ⁴
319	Effect of amine length in the interference of the multipoint covalent immobilization of enzymes on glyoxyl agarose beads. 2021 , 329, 128-142		8
318	Electrochemical glucose biosensor based on an osmium redox polymer and glucose oxidase grafted to carbon nanotubes: A design-of-experiments optimisation of current density and stability. 2021 , 371, 137845		5
317	Positive effect of glycerol on the stability of immobilized enzymes: Is it a universal fact?. <i>Process Biochemistry</i> , 2021 , 102, 108-121	4.8	5
316	Biochemical Properties and Anti-Biofilm Activity of Chitosan-Immobilized Papain. 2021, 19,		6
315	Glycosyltransferase Co-Immobilization for Natural Product Glycosylation: Cascade Biosynthesis of the C-Glucoside Nothofagin with Efficient Reuse of Enzymes. <i>Advanced Synthesis and Catalysis</i> , 2021 , 363, 2157-2169	5.6	6
314	Bacteria From the Southern Gulf of Mexico: Baseline, Diversity, Hydrocarbon-Degrading Potential and Future Applications. 2021 , 8,		6
313	Enantioselective resolution of (日)-1-phenylethyl acetate using the immobilized extracellular proteases from deep-sea Bacillus sp. DL-1. 1-17		
312	Modulation of the Biocatalytic Properties of a Novel Lipase from Psychrophilic sp. (USBA-GBX-513) by Different Immobilization Strategies. <i>Molecules</i> , 2021 , 26,	4.8	3
311	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. 2021 , 144, 109739		10
310	PTFE-Carbon Nanotubes and Lipase B from -Long-Lasting Marriage for Ultra-Fast and Fully Selective Synthesis of Levulinate Esters. 2021 , 14,		4
309	Immobilization of the Peroxygenase from Agrocybe aegerita. The Effect of the Immobilization pH on the Features of an Ionically Exchanged Dimeric Peroxygenase. 2021 , 11, 560		6
308	Enzyme Immobilization on Gold Nanoparticles for Electrochemical Glucose Biosensors. 2021 , 11,		3
307	Socio-Economic and Environmental Impacts of Biomass Valorisation: A Strategic Drive for Sustainable Bioeconomy. 2021 , 13, 4200		10

(2021-2021)

306	The Egalactosidase immobilization protocol determines its performance as catalysts in the kinetically controlled synthesis of lactulose. <i>International Journal of Biological Macromolecules</i> , 7.9 2021 , 176, 468-478	9
305	Effect of Additional Amino Group to Improve the Performance of Immobilized Lipase From Aspergillus niger by Adsorption-Crosslinking Method. 2021 , 9,	1
304	Oxidation of 2,5-diformfylfuran to 2,5-furandicarboxylic acid catalyzed by Candida antarctica Lipase B immobilized in a cyclodextrin-templated mesoporous silica. The critical role of pore characteristics on the catalytic performance. 2021 , 200, 111606	2
303	Immobilization Techniques for the Preparation of Supported Biocatalysts: Making Better Biocatalysts Through Protein Immobilization. 2021 , 63-88	2
302	Faster Surface Ligation Reactions Improve Immobilized Enzyme Structure and Activity. 2021 , 143, 7154-7163	8 6
301	Green Synthesis of Silica and Silicon Nanoparticles and Their Biomedical and Catalytic Applications. 2021 , 1-56	4
300	Enhancing the sustainability of KsdD as a biocatalyst for steroid transformation by immobilization on epoxy support. 2021 , 146, 109777	3
299	Different strategies for the lipase immobilization on the chitosan based supports and their applications. <i>International Journal of Biological Macromolecules</i> , 2021 , 179, 170-195	27
298	Biomass Processing with Biocatalysis. 2021 , 113-146	
297	Thermal Inactivation of Cysteine Proteases: The Key Stages. 2021 , 66, 364-372	
296	Biodiesel production with enzymatic technology: progress and perspectives. <i>Biofuels, Bioproducts and Biorefining</i> , 2021 , 15, 1526-1548	5
295	Hydrogels and Their Role in Biosensing Applications. 2021 , 10, e2100062	34
294	Lipase-Catalyzed Production of Sorbitol Laurate in a "2-in-1" Deep Eutectic System: Factors Affecting the Synthesis and Scalability. <i>Molecules</i> , 2021 , 26,	4
293	A Highly Efficient Three-Liquid-Phase-Based Enzymatic One-Pot Multistep Reaction System with Recoverable Enzymes for the Synthesis of Biodiesel. 2021 , 69, 5481-5490	Ο
292	Enhanced Stability of Long-Living Immobilized Recombinant EdAcetyl-Hexosaminidase A on Polylactic Acid (PLA) Films for Potential Biomedical Applications. 2021 , 12,	1
291	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. 2021 , 9, 7508-7518	9
2 90	Geranyl Functionalized Materials for Site-Specific Co-Immobilization of Proteins. <i>Molecules</i> , 2021 , 26,	
289	Influence of the Synthesis and Storage Conditions on the Activity of Lipase B ZIF-8 Biocomposites. 2021 ,	6

288	Lipase Immobilization in Mesoporous Silica Nanoparticles for Biofuel Production. 2021 , 11, 629		10
287	Lipozyme 435-Mediated Synthesis of Xylose Oleate in Methyl Ethyl Ketone. <i>Molecules</i> , 2021 , 26,	4.8	5
286	Highly-stable Madurella mycetomatis laccase immobilized in silica-coated ZIF-8 nanocomposites for environmentally friendly cotton bleaching process. 2021 , 202, 111672		7
285	Chemical and physical Chitosan modification for designing enzymatic industrial biocatalysts: How to choose the best strategy?. <i>International Journal of Biological Macromolecules</i> , 2021 , 181, 1124-1170	7.9	34
284	A Review on the Use of Bio/Nanostructured Heterogeneous Catalysts in Biodiesel Production. 2021 , 59-91		2
283	Novel biotechnological formulations of cysteine proteases, immobilized on chitosan. Structure, stability and activity. <i>International Journal of Biological Macromolecules</i> , 2021 , 180, 161-176	7.9	11
282	Validation and Optimization of Polyvinyl Alcohol-Functionalized Gold Nanoparticles for Producing Lactose-Free Dairy Products. 2021 , 37, 643-647		
281	Functionalized Materials as a Versatile Platform for Enzyme Immobilization in Wastewater Treatment. 2021 , 7, 263-276		4
280	Textile Dye Biodecolorization by Manganese Peroxidase: A Review. <i>Molecules</i> , 2021 , 26,	4.8	8
279	Multicatalytic Hybrid Materials for Biocatalytic and Chemoenzymatic CascadesBtrategies for Multicatalyst (Enzyme) Co-Immobilization. 2021 , 11, 936		5
278	Mimicking natural strategies to create multi-environment enzymatic reactors: From natural cell compartments to artificial polyelectrolyte reactors. 2021 , 54, 107798		3
277	How a crosslinker agent interacts with the Eglucosidase enzyme surface in an aqueous solution: Insight from quantum mechanics calculations and molecular dynamics simulations. 2021 , 203, 111761		2
276	Immobilization Screening and Characterization of an Alcohol Dehydrogenase and its Application to the Multi-Enzymatic Selective Oxidation of 1,-Omega-Diols. 2021 , 1,		2
275	An Overview of Cytochrome P450 Immobilization Strategies for Drug Metabolism Studies, Biosensing, and Biocatalytic Applications: Challenges and Opportunities. 2021 , 11, 9418-9434		7
274	Robust nanocarriers to engineer nanobiocatalysts for bioprocessing applications. 2021 , 293, 102438		12
273	SiO2-Coated Fe3O4 Nanoparticle/Polyacrylonitrile Beads for One-Step Lipase Immobilization. 2021 , 4, 7856-7869		4
272	Impacts of horseradish peroxidase immobilization onto functionalized superparamagnetic iron oxide nanoparticles as a biocatalyst for dye degradation. 2021 , 1		4
271	Immobilization of Pseudomonas stutzeri lipase through Cross-linking Aggregates (CLEA) for reactions in Deep Eutectic Solvents. 2021 , 337, 18-23		10

270	Polypropylene as a selective support for the immobilization of lipolytic enzymes: hyper-activation, purification and biotechnological applications. <i>Journal of Chemical Technology and Biotechnology</i> , 3.5	1
269	Leloir glycosyltransferases enabled to flow synthesis: Continuous production of the natural C-glycoside nothofagin. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 4402-4413	3
268	In vivo immobilized carbonic anhydrase and its effect on the enhancement of CO absorption rate. 2021 , 336, 41-49	1
267	Purification, characterisation and immobilisation of an acid-stable, raw-starch hydrolysing thiol Eamylase, over produced in the stem of Paederia foetida. 2021 , 39, 429-442	
266	Bioactive peptides from fisheries residues: A review of use of papain in proteolysis reactions. International Journal of Biological Macromolecules, 2021 , 184, 415-428 7-9	11
265	Single-atom nanozymes and environmental catalysis: A perspective. 2021 , 294, 102485	2
264	APTES modified SBA15 and meso-macro silica materials for the immobilization of aminoacylases from Streptomyces ambofaciens. 2021 , 323, 111226	5
263	Design of an amperometric glucose oxidase biosensor with added protective and adhesion layers. 2021 , 188, 312	2
262	Non-covalent and covalent immobilization of papain onto TiC MXene nanosheets. 2021, 148, 109817	4
261	Highly enhanced activity and stability via affinity induced immobilization Eglucosidase from Aspergillus niger onto amino-based silica for the biotransformation of ginsenoside Rb1. 2021 , 1653, 462388	3
260	Biolubricant production under zero-waste Moringa oleifera Lam biorefinery approach for boosting circular economy. 2021 , 167, 113542	10
259	Perspectives on new opportunities for nano-enabled strategies for gene delivery to plants using nanoporous materials. 2021 , 254, 83	1
258	Efficient substrate accessibility of cross-linked levanase aggregates using dialdehyde starch as a macromolecular cross-linker. 2021 , 267, 118159	7
257	Understanding intricacies of bioinspired organic-inorganic hybrid nanoflowers: A quest to achieve enhanced biomolecules immobilization for biocatalytic, biosensing and bioremediation applications. 2021 , 295, 102484	1
256	Engineering of a Novel, Magnetic, Bi-Functional, Enzymatic Nanobiocatalyst for the Highly Efficient Synthesis of Enantiopure (R)-3-quinuclidinol. 2021 , 11, 1126	
255	Harnessing P450 Enzyme for Biotechnology and Synthetic Biology. 2021 ,	2
254	Hydrophobic poly(ionic liquid)s as Ewo-handed weapons[]Maximizing lipase catalytic efficiency in transesterification of soybean oil toward biodiesel. 2021 , 626, 118350	5
253	Functional Immobilization of a Biofilm-Releasing Glycoside Hydrolase Dispersin B on Magnetic Nanoparticles. 2021 , 1	1

252	Boosted activity by engineering the enzyme microenvironment in cascade reaction: A molecular understanding. 2021 , 6, 163-172	3
251	Challenges and Opportunities for the Encapsulation of Enzymes over Porous Solids for Biodiesel Production and Cellulose Valorization into Glucose.	1
250	Assessment of recombinant glutathione-S-transferase (HaGST-8) silica nanoconjugates for effective removal of pesticides. 2021 , 204, 112052	2
249	High performance biocatalyst based on Ed-galactosidase immobilized on mesoporous silica/titania/chitosan material. 2021 , 359, 129890	6
248	Kinetic and thermodynamic study of laccase cross-linked onto glyoxyl Immobead 150P carrier: Characterization and application for beechwood biografting. 2021 , 150, 109865	2
247	Magnetic thermosensitive polymer composite carrier with target spacing for enhancing immobilized enzyme performance. 2021 , 150, 109896	O
246	Employment of polysaccharides in enzyme immobilization. 2021 , 167, 105005	8
245	Immobilization of papain: A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 188, 94-113 _{7.9}	8
244	Realizing selective detection with nanozymes: Strategies and trends. 2021 , 143, 116379	13
243	Perovskite-SrTiO3/TiO2/PDA as photoelectrochemical glucose biosensor. 2021 , 47, 29807-29814	1
242	Enzyme-polymeric/inorganic metal oxide/hybrid nanoparticle bio-conjugates in the development of therapeutic and biosensing platforms. 2021 , 33, 227-239	8
241	Stabilization of enzymes via immobilization: Multipoint covalent attachment and other stabilization strategies. 2021 , 52, 107821	50
240	EGalactosidase from Kluyveromyces lactis: Characterization, production, immobilization and applications - A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 191, 881-898	10
239	Trends in the development of innovative nanobiocatalysts and their application in biocatalytic transformations. 2021 , 51, 107738	16
238	Immobilized protease on magnetic particles for enzymatic protein hydrolysis of poultry by-products. 2021 , 152, 112327	1
237	Intensification of oxygen-dependent biotransformations catalyzed by immobilized enzymes. 2021 , 32, 100544	2
236	Enzyme-based electrochemical nanobiosensors using quantum dots. 2021 , 307-339	1
235	A two-step method for the synthesis of magnetic immobilized cellulase with outstanding thermal stability and reusability. 2021 , 45, 6144-6150	1

234	Functionalization of Porous Cellulose with Glyoxyl Groups as a Carrier for Enzyme Immobilization and Stabilization. 2021 , 22, 927-937		7
233	Production and Processing of the Enzymes from Lignocellulosic Biomass. 2020 , 221-243		2
232	Application of heterogeneous catalysis to biodiesel synthesis using microalgae oil. 2021 , 15, 1		10
231	Entrapment of porous cross-linked enzyme aggregates of maltogenic amylase from Bacillus lehensis G1 into calcium alginate for maltooligosaccharides synthesis. <i>International Journal of Biological Macromolecules</i> , 2020 , 150, 80-89	7.9	14
230	Catalase immobilized in polypeptide/silica nanocomposites via emulsion and biomineralization with improved activities. <i>International Journal of Biological Macromolecules</i> , 2020 , 159, 931-940	7.9	7
229	Immobilization of cross-linked phenylalanine ammonia lyase aggregates in microporous silica gel. 2013 , 8, e80581		20
228	Production of Garcinia gummi-gutta Methyl Ester (GGME) as a Potential Alternative Feedstock for Existing Unmodified DI Diesel Engine: Combustion, Performance, and Emission Characteristics. 2018 , 46, 20170246		21
227	LIPASE - CATALYZED FORMATION OF PENTYL NONANOATE USING SCREENED IMMOBILIZED LIPASE FROM Rhizomucor meihei. 2019 , 36, 1089-1097		3
226	L-asparaginase: Immobilization, Antiviral and Antiproliferation Activities. 2020, 14, 154-163		11
225	Immobilization of Cholesterol Oxidase: An Overview. 2018 , 12, 176-188		11
224	Novozym 435-Catalyzed Synthesis of Well-Defined Hyperbranched Aliphatic Poly(Ethioether ester). <i>Molecules</i> , 2020 , 25,	4.8	2
223	Magnetic immobilisation of phospholipase C and its hydrolysis of phospholipids in crude soybean oil. 2019 , 11, 315-324		1
222	Operation Modes Can Affect the Activity of Immobilized Enzyme onto Silk Fibroin Nanofibrous Membrane. 2013 , 27, 322-325		1
	Melliplane. 2013 , 21, 322-323		
221	Overview on immobilization of enzymes on synthetic polymeric nanofibers fabricated by electrospinning. <i>Biotechnology and Bioengineering</i> , 2022 , 119, 9-33	4.9	6
221	Overview on immobilization of enzymes on synthetic polymeric nanofibers fabricated by	4.9	2
	Overview on immobilization of enzymes on synthetic polymeric nanofibers fabricated by electrospinning. <i>Biotechnology and Bioengineering</i> , 2022 , 119, 9-33 Immobilization and Biochemical Characterization of Keratinase 2S1 onto Magnetic Cross-Linked	4.9	
220	Overview on immobilization of enzymes on synthetic polymeric nanofibers fabricated by electrospinning. <i>Biotechnology and Bioengineering</i> , 2022 , 119, 9-33 Immobilization and Biochemical Characterization of Keratinase 2S1 onto Magnetic Cross-Linked Enzyme Aggregates and its Application on the Hydrolysis of Keratin Waste. 1 Erratum to Trends in lipase immobilization: Bibliometric review and patent analysis[Process		2

216	Improved catalytic performance of carrier-free immobilized lipase by advanced cross-linked enzyme aggregates technology. 2021 , 1	О
215	Production of -Cinnamic Acid by Immobilization of the BoPAL1 and BoPAL2 Phenylalanine Ammonia-Lyases on Electrospun Nanofibers. 2021 , 22,	3
214	Current perspective on production and applications of microbial cellulases: a review. 2021, 8,	13
213	Tailoring the hydrophobicity of wrinkled silica nanoparticles and of the adsorption medium as a strategy for immobilizing lipase: An efficient catalyst for biofuel production. 2021 , 328, 111504	4
212	Stabilization and operational selectivity alteration of Lipozyme 435 by its coating with polyethyleneimine: Comparison of the biocatalyst performance in the synthesis of xylose fatty esters. <i>International Journal of Biological Macromolecules</i> , 2021 , 192, 665-674	1
211	Proteases as a Tool in Food Biotechnology. 207-220	
21 0	ESTABILIZA 🛮 🗓 🐧 DE LECITASE ULTRA POR IMOBILIZA 🖰 🖺 DE EM SUPORTE MACROPOROSO.	
209	Protein-surfactant-polysaccharide nanoparticles increase the catalytic activity of an engineered Elactamase maltose-activated switch enzyme.	1
208	Enzyme Immobilization on Metal-Organic Framework (MOF): Effects on Thermostability and Function. 2019 , 26, 636-647	1
207	Preparation and Characterization of Eglucosidase Films for Stabilization and Handling in Dry Configurations. 2020 , 21, 741-747	
206	Analytical Determination of the Optimal Feed Temperature for Hydrogen Peroxide Decomposition Process Occurring in Bioreactor with a Fixed-Bed of Commercial Catalase. 2021 , 11, 35	
205	Biotechnological Applications of Fungal Enzymes with Special Reference to Bioremediation. 2020 , 221-247	1
204	Biocatalysis in green organic synthesis. 2020 , 105-121	
203	Very Strong but Reversible Immobilization of Enzymes on Supports Coated with Ionic Polymers. 2020 , 2100, 129-141	1
202	Nanomaterial Synthesis and Mechanism for Enzyme Immobilization: Part II. 2020 , 191-212	
201	The Carbonic Anhydrase Promoted Carbon Dioxide Capture. 2020 , 1-44	O
200	Immobilization of Enzymes on Hetero-Functional Supports: Physical Adsorption Plus Additional Covalent Immobilization. 2020 , 2100, 159-174	3
199	Screen-Printed Electrochemical Sensors for Environmental Contaminants. 2020 , 85-108	

198	Immobilization: Then and Now. 2021 , 1-84		1
197	Deep eutectic solvents he new additive in the encapsulation of lipase B from Candida antarctica: biocatalytic applications.		Ο
196	Scope and relevance of industrial applications. 2022 , 179-195		
195	Enhancing stability and by-product tolerance of Eglucuronidase based on magnetic cross-linked enzyme aggregates. 2021 , 210, 112241		3
194	Enzyme immobilization: what have we learned in the past five years?. <i>Biofuels, Bioproducts and Biorefining</i> ,	5.3	3
193	Enzymatic membrane reactors: Designs, applications, limitations and outlook. 2021 , 108729		O
192	Immobilization of ⊞-amylase in ethylcellulose electrospun fibers using emulsion-electrospinning method 2022 , 278, 118919		3
191	Immobilized Enzymes-Based Biosensing Cues for Strengthening Biocatalysis and Biorecognition. 2021 , 1		O
190	Simplified Method to Optimize Enzymatic Esters Syntheses in Solvent-Free Systems: Validation Using Literature and Experimental Data. 2021 , 11, 1357		1
189	Biocatalytic membranes in anti-fouling and emerging pollutant degradation applications: Current state and perspectives. 2021 , 282, 120098		2
188	Chemical modification of enzymes to improve biocatalytic performance. 2021 , 53, 107868		4
187	Intraparticle Kinetics Unveil Crowding and Enzyme Distribution Effects on the Performance of Cofactor-Dependent Heterogeneous Biocatalysts 2021 , 11, 15051-15067		3
186	Immobilization of GOx Enzyme on SiO-Coated Ni-Co Ferrite Nanocomposites as Magnetic Support and Their Antimicrobial and Photocatalytic Activities 2021 , 6, 33554-33567		4
185	Nickel-Functionalized Chitosan for the Oriented Immobilization of Histidine-Tagged Enzymes: A Promising Support for Food Bioprocess Applications. 1		2
184	Immobilization-Stabilization of EGlucosidase for Implementation of Intensified Hydrolysis of Cellobiose in Continuous Flow Reactors. 2022 , 12, 80		О
183	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	7.9	6
182	Design of a sustainable process for enzymatic production of ethylene glycol diesters via hydroesterification of used soybean cooking oil. 2022 , 10, 107062		5
181	A PEDOT:PSS conductive hydrogel incorporated with Prussian blue nanoparticles for wearable and noninvasive monitoring of glucose. 2022 , 431, 134109		8

Various ester derivatives from esterification reaction of secondary metabolite compounds: a review. **2020**, 5, 141-151

179	Nanobiocatalysis: an introduction. 2022 , 3-15		
178	Combining Genetically Engineered Oxidase with Hydrogen Bonded Organic Framework (HOF) for Highly Efficient Biocomposites.		
177	Electrochemical functionalization of carbon nanomaterials and their application in immobilization of enzymes. 2022 , 67-103		
176	Polymers and metal@rganic frameworks as supports in biocatalysis: applications and future trend. 2022 , 323-338		
175	Cry3Aa*SpyCatcher Fusion Crystals Produced in Bacteria as Scaffolds for Multienzyme Coimmobilization 2022 ,		1
174	Preparation of enantiopure pregabalin intermediate using cross linked enzyme aggregates (CLEAs) in basket reactor. 1-14		1
173	Combining Genetically Engineered Oxidase with Hydrogen Bonded Organic Framework (HOF) for Highly Efficient Biocomposites 2022 ,		3
172	Mechanisms of interaction among enzymes and supports. 2022 , 105-148		1
171	Thermo-responsive macroporous p(NIPAM) cryogel affords enhanced thermal stability and activity for ?-glucosidase enzyme by entrapping in situ.		O
170	Characterization of Gentisate 1,2-Dioxygenase from Pseudarthrobacter phenanthrenivorans Sphe3 and Its Stabilization by Immobilization on Nickel-Functionalized Magnetic Nanoparticles. 2022 , 2, 113-1	132	
169	A Bibliometric Analysis and Review of Pullulan-Degrading Enzymes P ast and Current Trends. 2022 , 12, 143		1
168	Ultrasound-Assisted Intensification of EGlucosidase Enzyme Activity in Free and Immobilized Forms. 2022 , 61, 2023-2036		1
167	Intermolecular interactions between imidazolium- and cholinium-based ionic liquids and lysozyme: Regularities and peculiarities. 2022 , 348, 118426		1
166	Stabilization of water/oil emulsions using a wax ester synthesized by a new homemade heterogeneous biocatalyst. <i>Journal of Chemical Technology and Biotechnology</i> ,	3.5	0
165	Synthesis of photo-crosslinkable hydrogel membranes for entrapment of lactase enzyme. 2022 , 172, 105159		О
164	Applications of immobilized lipases in enzymatic reactors: A review. <i>Process Biochemistry</i> , 2022 , 114, 1-20	4.8	5
163	Efficient Immobilization of Enzymes on Amino Functionalized MIL-125-NH2 Metal Organic Framework. 2022 , 27, 135		3

162	Immobilization of the Aspartate Ammonia-lyase from Pseudomonas fluorescens R124 on Magnetic Nanoparticles - Characterization and Kinetics 2022 ,		1
161	Biochemical characterization and immobilization of a novel pectate lyase ErPL2 for efficient preparation of pectin oligosaccharides <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	1
160	Superior Binding of Proteins on a Silica Surface: Physical Insight into the Synergetic Contribution of Polyhistidine and a Silica-Binding Peptide 2022 , 1609-1616		О
159	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. 2021 , 155, 106302		9
158	Sources, purification, immobilization and industrial applications of microbial lipases: An overview 2022 , 1-34		1
157	Highly Efficient Production of Optically Active (R)-Tetrahydrothiophene-3-ol in Batch and Continuous Flow by Using Immobilized Ketoreductase.		1
156	Immobilization Techniques on Bioprocesses: Current Applications Regarding Enzymes, Microorganisms, and Essential Oils. 1		О
155	Thermally Stable and Reusable Ceramic Encapsulated and Cross-Linked CalB Enzyme Particles for Rapid Hydrolysis and Esterification 2022 , 23,		1
154	Production of Jet Biofuels by Catalytic Hydroprocessing of Esters and Fatty Acids: A Review. 2022 , 12, 237		1
153	Optimization of cephalosporin C acylase immobilization using crosslinked enzyme aggregates technique. 2022 , 7, 1-10		
152	Urease-Immobilized PEI Cryogels for the Enzymatic Hydrolysis of Urea and Carbon Dioxide Uptake. 2022 , 61, 2771-2782		1
151	Immobilization of Urokinase onto Magnetically Directed Micromotors 2022 , 1		O
150	Preparation of a Six-Enzyme Multilayer Combi-Biocatalyst: Reuse of the Most Stable Enzymes after Inactivation of the Least Stable One. 2022 , 10, 3920-3934		3
149	Production of Plant Proteases and New Biotechnological Applications: An Updated Review 2022 , 11, e202200017		1
148	Enhanced hydrogen fuel production using synergistic combination of solar radiation and TiO2 photocatalyst coupled with Burkholderia cepacia lipase. 2022 ,		О
147	Roles of Surfactants in Oriented Immobilization of Cellulase on Nanocarriers and Multiphase Hydrolysis System 2022 , 10, 884398		O
146	Immobilization of CMP-Sialic Acid Synthetase and \oplus 2,3-Sialyltransferase for Cascade Synthesis of 3?-Sialyl \oplus D-Galactoside with Enzyme Reuse.		2
145	Stress-tolerant, recyclable, and autonomously renewable biocatalyst platform enabled by engineered bacterial spores.		

144	(Hydroxypropyl)methyl cellulose-chitosan film as a matrix for lipase immobilization: Operational and morphological study. <i>Molecular Catalysis</i> , 2022 , 522, 112252	3.3	0
143	A novel and efficient method for punicic acid-enriched diacylglycerol preparation: Enzymatic ethanolysis of pomegranate seed oil catalyzed by Lipozyme 435. 2022 , 159, 113246		
142	One-Pot Purification and Immobilization of Phenylalanine Dehydrogenase from Bacillus nanhaiensi by Functional Reduced Graphene Oxide 2022 , 1		
141	Coimmobilization of lipases exhibiting three very different stability ranges. Reuse of the active enzymes and selective discarding of the inactivated ones <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	4
140	Application of nanomaterials for enhanced production of biodiesel, biooil, biogas, bioethanol, and biohydrogen via lignocellulosic biomass transformation. 2022 , 315, 122840		2
139	Chemical amination of immobilized enzymes for enzyme coimmobilization: Reuse of the most stable immobilized and modified enzyme <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	3
138	Enzymatic catalysis as a tool in biofuels production in Brazil: Current status and perspectives. 2022 , 68, 103-119		7
137	Concurrent production of cellulase, xylanase, pectinase and immobilization by combined Cross-linked enzyme aggregate strategy- advancing tri-enzyme biocatalysis. 2022 , 18, 101019		2
136	Ionic liquids enhancement of hydrogels and impact on biosensing applications. 2022, 357, 119075		3
135	Removal of Persistent Sulfamethoxazole and Carbamazepine from Water by Horseradish Peroxidase Encapsulated into Poly(Vinyl Chloride) Electrospun Fibers 2021 , 23,		2
134	Production and Characterization of Cross-Linked Aggregates of CCR11 Thermoalkaliphilic Recombinant Lipase <i>Molecules</i> , 2021 , 26,	4.8	0
133	Biomedical Applications of Nano-Engineered Enzymes: Current Status and FutureDirection. 2022 , 389-4	126	0
132	Self-Assembled Enzymatic Nanowires with a D ry and Wet[Interface Improve the Catalytic Performance of Januvia Transaminase in Organic Solvents. 2022 , 12, 372-382		
131	Effect of Different TiO Morphologies on the Activity of Immobilized Lipase for Biodiesel Production 2021 , 6, 35484-35493		O
130	Recent Developments in the Immobilization of Laccase on Carbonaceous Supports for Environmental Applications - A Critical Review <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 778239	5.8	3
129	Cross-Linked Enzyme-Adhered Nanoparticles (CLEANs) for Continuous-Flow Bioproduction 2021,		O
128	A RATIONAL SYNTHESIS OF MAGNETIC NANOPARTICLES INCORPORATED HORSERADISH PEROXIDASE NANOFLOWER AND ITS USE FOR THE REMOVAL OF PHENOL THROUGH OXIDATIVE COUPLING REACTION WITH GREAT REUSABILITY.		0
127	Site-Specific and Covalent Immobilization of Lipase on Natural Polyphenol-Modified Magnetic Nanoparticles for Effective Biodiesel Production.		O

126	Data_Sheet_1.PDF. 2020 ,		
125	Data_Sheet_2.PDF. 2020 ,		
124	Data_Sheet_3.PDF. 2020 ,		
123	Data_Sheet_4.PDF. 2020 ,		
122	Table_1.DOCX. 2019 ,		
121	Image_1.TIF. 2020 ,		
120	lmage_2.TIF. 2020 ,		
119	Image_3.TIF. 2020 ,		
118	lmage_4.TIF. 2020 ,		
117	Characterization of lipase from Candida rugosa entrapped in alginate beads to enhance its thermal stability and recyclability.		
116	Changes in Biochemical Properties and Activity of Trypsin-like Protease () Treated by Atmospheric Cold Plasma (ACP) 2022 , 11,		О
115	Deproteinization of Shrimp Shell Waste by Kurthia gibsonii Mb126 immobilized chitinase.		O
114	Biomolecules Derived from Whey. 2022 , 390-432		
113	Co-immobilization of Cellulase and EGlucosidase into Mesoporous Silica Nanoparticles for the Hydrolysis of Cellulose Extracted from Leaves 2022 ,		5
112	A review on the immobilization of pepsin: A Lys-poor enzyme that is unstable at alkaline pH values <i>International Journal of Biological Macromolecules</i> , 2022 ,	7.9	2
111	Design of Artificial Enzymes Bearing Several Active Centers: New Trends, Opportunities and Problems. 2022 , 23, 5304		O
110	Catalytic hydrolysis of ginsenosides by pectinase immobilized on a covalent organic framework material. <i>Process Biochemistry</i> , 2022 , 118, 317-322	4.8	
109	pH-Switchable Pickering Interfacial Biocatalysis: One-Pot Enzymatic Synthesis of Phytosterol Esters with Low-Value Rice Bran Oil.		2

108	Lipase catalysis: An environmentally friendly production for Polyol esters (biolubricant) from Microalgae oil 2022 , 1-24		Ο
107	Design of Composite Nanosupports and Applications Thereof in Enzyme Immobilization: A Review. 2022 , 112602		O
106	Intraparticle Macromolecular Migration Alters the Structure and Function of Proteins Reversibly Immobilized on Porous Microbeads. 2200263		2
105	Multipoint Immobilization at the Inert Center of Urease on Homofunctional Diazo-Activated Silica Gel: A Way of Restoring Room-Temperature Catalytic Sustainability for Perennial Utilization.		O
104	Immobilization impact of GEG-Alg-SPI as a carrier for Aspergillus niger MK981235 inulinase: Kinetics, thermodynamics, and application. 2022 , 101099		
103	Efficient synthesis of N-acetyllactosamine using immobilized Egalactosidase on a novel 3D polymer support. 2022 , 110070		
102	Stabilization of immobilized lipases by treatment with metallic phosphate salts. <i>International Journal of Biological Macromolecules</i> , 2022 , 213, 43-54	7.9	0
101	A Bi-enzymatic Immobilized Nanobiocatalyst for the Biotransformation of Oleuropein to Hydroxytyrosol. 2022 , 279-296		
100	Strategies to reuse of biocatalysts in the hydrolysis and esterification reactions from licuri (Syagrus coronata (Mart.) Becc.) oil.		
99	Immobilization of Lathyrus cicera Amine Oxidase on Magnetic Microparticles for Biocatalytic Applications. 2022 , 23, 6529		O
98	A Positive Effect of Magnetic Field on the Catalytic Activity of Immobilized L-Asparaginase: Evaluation of its Feasibility.		0
97	Proton Generation Using Chitinthitinase and Collagentollagenase Composites. 2022, 6, 166		
96	Immobilization of Ene Reductase in Polyvinyl Alcohol Hydrogel.		
95	Lipase immobilization via cross-linked enzyme aggregates: Problems and prospects A review. <i>International Journal of Biological Macromolecules</i> , 2022 , 215, 434-449	7.9	3
94	Introducing a covalent thiol-based protected immobilized acetylcholinesterase with enhanced enzymatic performances for biosynthesis of esters. <i>Process Biochemistry</i> , 2022 , 120, 138-155	4.8	2
93	Is enzyme immobilization a mature discipline? Some critical considerations to capitalize on the benefits of immobilization. <i>Chemical Society Reviews</i> ,	58.5	14
92	Immobilization of Horseradish Peroxidase on Magnetite-Alginate Beads to Enable Effective Strong Binding and Enzyme Recycling during Anthraquinone Dyes Degradation. <i>Polymers</i> , 2022 , 14, 2614	4.5	0
91	Improvement in the Thermostability of a Recombinant EGlucosidase Immobilized in Zeolite under Different Conditions. <i>Molecules</i> , 2022 , 27, 4105	4.8	1

Cutinase ACut2 from Blastobotrysraffinosifermentans for the Selective Desymmetrization of the 90 Symmetric Diester Diethyl Adipate to the Monoester Monoethyl Adipate. Microorganisms, 2022, 10, 131 d.9 Co-immobilization of multiple enzymes on ferromagnetic nanoparticles for depolymerization of 89 5.3 xyloglucan. Biofuels, Bioproducts and Biorefining, 88 Role of Catalyst Supports in Biocatalysis. Journal of Chemical Technology and Biotechnology, 3.5 1 Immobilized Lipase in Resolution of Ketoprofen Enantiomers: Examination of Biocatalysts 87 6.4 Properties and Process Characterization. Pharmaceutics, 2022, 14, 1443 Tuning Immobilized Commercial Lipase Preparations Features by Simple Treatment with Metallic 86 4.8 1 Phosphate Salts. Molecules, 2022, 27, 4486 Recent Advancements in Enzyme-Incorporated Nanomaterials: Synthesis, Mechanistic Formation 85 4.9 and Applications. Biotechnology and Bioengineering, Co-Immobilization of RizA Variants with Acetate Kinase for the Production of Bioactive Arginyl 84 4.8 1 Dipeptides. *Molecules*, **2022**, 27, 4352 Improvement of enzymatic activity and stability of lipase A from Candida antartica onto halloysite 83 nanotubes with Taguchi method for optimized immobilization. *Applied Clay Science*, **2022**, 228, 106634 4 Stress-Tolerant, Recyclable, and Renewable Biocatalyst Platform Enabled by Engineered Bacterial 82 5.7 Ο Spores. ACS Synthetic Biology, Immobilization of a Bifidobacterial Endo- PN-Acetylglucosaminidase to Generate Bioactive 81 5.8 Compounds for Food Industry. Frontiers in Bioengineering and Biotechnology, 10, Chemoenzymatic synthesis of both enantiomers of propafenone hydrochloride through 80 2 3.3 lipase-catalyzed process. Molecular Catalysis, 2022, 529, 112540 Hydrophilic Nonwoven Nanofiber Membranes as Nanostructured Supports for Enzyme 79 \circ Immobilization. **2022**, 4, 6054-6066 Controllable Enzyme Immobilization via Simple and Quantitative Adsorption of Dendronized 78 PolymerEnzyme Conjugates Inside a Silica Monolith for Enzymatic Flow-Through Reactor 1 Applications. 2022, 7, 26610-26631 Biocatalysis: A smart and green tool for the preparation of chiral drugs. 77 The High Lipolytic Jumplof Immobilized Amano A Lipase from Aspergillus niger in Developed ESS 76 3 Catalytic Triangles Containing Natural Origin Substrates. 2022, 12, 853 ∃-Acetolactate Decarboxylase Immobilized in Chitosan: A Highly Stable Biocatalyst to Prevent 75 Off-Flavor in Beer. Gum tragacanth for immobilization of Bacillus licheniformis protease: Optimization, Ο 74 thermodynamics and application. 2022, 179, 105366 Coimmobilized enzymes as versatile biocatalytic tools for biomass valorization and remediation of 73 environmental contaminants - A review. **2022**, 214, 114012

72	Determination of immobilized lipase stability depends on the substrate and activity determination condition: Stress inactivations and optimal temperature as biocatalysts stability indicators. 2022 , 29, 100823	O
71	Optimization of the immobilization of xylanase from Thermomyces lanuginosus to produce xylooligosaccharides in a batch type reactor. 2022 , 531, 112647	O
70	Switch off/switch on of a cysteinyl protease as a way to preserve the active catalytic group by modification with a reversible covalent thiol modifier: Immobilization of ficin on vinyl-sulfone activated supports. 2022 , 220, 1155-1162	О
69	Enzyme Immobilization and Its Application Strategies in Food Products. 2022 , 411-438	O
68	Development of novel enzyme immobilization methods employing formaldehyde or triethoxysilylbutyraldehyde to fabricate immobilized enzyme microreactors for peptide mapping.	2
67	Alternative design strategies to help build the enzymatic retrosynthesis toolbox.	O
66	Heterofunctional epoxy support development for immobilization of fructosyltransferase from Pectinex Ultra SP-L: batch and continuous production of fructo-oligosaccharides.	O
65	One-step asparaginyl endopeptidase (OaAEP1)-based protein immobilization for single-molecule force spectroscopy. 2022 , 3, 1276-1281	1
64	Magnetic cross-linked enzyme aggregate based on ionic liquid modification as a novel immobilized biocatalyst for phytosterol esterification.	1
63	Techno-economic-environmental analysis of biodiesel production by magnetic nanoparticles CLEAs of eversall transform. 2022 , 553-558	O
62	Production of \oplus , \square and \square cyclodextrin Gluconotransferase (CGTase) and Their Applications in Food Industry. 2022 , 107-138	O
61	Use of Calotropis procera cysteine peptidases (CpCPs) immobilized on glyoxyl-agarose for cheesemaking. 2023 , 403, 134319	O
60	Efficacy of the Immobilized Kocuria flava Lipase on Fe3O4/Cellulose Nanocomposite for Biodiesel Production from Cooking Oil Wastes. 2022 , 12, 977	1
59	Co-Immobilizing Two Glycosidases Based on Cross-Linked Enzyme Aggregates to Enhance Enzymatic Properties for Achieving High Titer Icaritin Biosynthesis. 2022 , 70, 11631-11642	O
58	Directional immobilization of D-allulose 3-epimerase using SpyTag/SpyCatcher strategy as a robust biocatalyst for synthesizing D-allulose. 2022 , 134199	O
57	Engineering of Covalent Organic Framework-Based Advanced Platforms for Enzyme Immobilization: Strategies, Research Progress, and Prospects. 2200874	1
56	The Stability of Dimeric D-amino Acid Oxidase from Porcine Kidney Strongly Depends on the Buffer Nature and Concentration. 2022 , 12, 1009	O
55	Recent trends using natural polymeric nanofibers as supports for enzyme immobilization and catalysis.	1

54	Biochemical Properties of EAmylase from Red Algae and Improvement of Its Thermostability through Immobilization.	О
53	Immobilization-stabilization of the dimeric D-amino acid oxidase from porcine kidney. 2022,	1
52	Directed Immobilization of PETase on Mesoporous Silica Enables Sustained Depolymerase Activity in Synthetic Wastewater Conditions.	O
51	Immobilization of carbonic anhydrase in a hydrophobic poly(ionic liquid): A new functional solid for CO2 capture. 2022 , 187, 108639	1
50	Biosynthesis of alkanes/alkenes from fatty acids or derivatives (triacylglycerols or fatty aldehydes). 2022 , 61, 108045	О
49	Preparation and Characterization of Magnetic Metal©rganic Frameworks Functionalized by Ionic Liquid as Supports for Immobilization of Pancreatic Lipase. 2022 , 27, 6800	1
48	The immobilization protocol greatly alters the effects of metal phosphate modification on the activity/stability of immobilized lipases. 2022,	1
47	Tuning Immobilized Enzyme Features by Combining Solid-Phase Physicochemical Modification and Mineralization. 2022 , 23, 12808	O
46	Spheroplasts preparation boosts the catalytic potential of a squalene-hopene cyclase. 2022, 13,	1
45	Enhanced MOF-immobilized lipase CAL-A with polyethylene glycol for efficient stereoselective hydrolysis of aromatic acid esters. 2022 , 108707	O
44	Co-immobilized Multienzyme System for the Cofactor-Driven Cascade Synthesis of (R)-2-Amino-3-(2-bromophenyl)propanoic Acid: A Model Reaction.	O
43	Supported ionic liquid phase facilitated catalysis with lipase from Aspergillus oryzae for enhance enantiomeric resolution of racemic ibuprofen. 2022 , 28, 102936	1
42	Magnetic solid catalysts for sustainable and cleaner biodiesel production: A comprehensive review. 2023 , 171, 113017	1
41	Recent advances in enzyme inhibition based-electrochemical biosensors for pharmaceutical and environmental analysis. 2023 , 253, 124092	O
40	The response surface methodology for optimization of Halomonas sp. C2SS100 lipase immobilization onto CaCO3 for treatment of tuna wash processing wastewater. 1-13	O
39	Improved Catalytic Performance of Lipase Eversall Transform 2.0 via Immobilization for the Sustainable Production of Flavor Esters Adsorption Process and Environmental Assessment Studies. 2022, 12, 1412	1
38	Immobilization of Penicillin G Acylase on Vinyl Sulfone-Agarose: An Unexpected Effect of the Ionic Strength on the Performance of the Immobilization Process. 2022 , 27, 7587	1
37	A Comprehensive Review On Bio Mimicked Multimolecular Frameworks & Supramolecules As Scaffolds For Enzyme Immobilization.	O

36	Immobilization of Lipase B from Candida antarctica in Octyl-Vinyl Sulfone Agarose: Effect of the Enzyme-Support Interactions on Enzyme Activity, Specificity, Structure and Inactivation Pathway. 2022 , 23, 14268	O
35	Enhanced production of cytidine 5'-monophosphate using biocatalysis of di-enzymes immobilized on amino-functionalized sepharose. 2022 ,	O
34	Affinity immobilization and affinity layers. 2023 , 269-290	О
33	The enzyme, the support, and the immobilization strategy: The key findings to a desirable biocatalyst. 2023 , 1-16	O
32	Marine chitin upcycling with immobilized chitinolytic enzymes: current state and prospects.	О
31	Immobilization of Thermomyces lanuginosus lipase on a new hydrophobic support (Streamline phenyl) Strategies to improve stability and reusability. 2023 , 163, 110166	1
30	Acrylic modified kraft lignin microspheres as novel support for immobilization of laccase from M. thermophila expressed in A. oryzae (Novozym 51003) and application in degradation of anthraquinone textile dyes. 2023 , 11, 109077	О
29	Preparation of immobilized pepsin for extraction of collagen from bovine hide. 2022 , 12, 34548-34556	О
28	Synthesis of Ibuprofen Monoglyceride Using Novozym 435: Biocatalyst Activation and Stabilization in Multiphasic Systems. 2022 , 12, 1531	1
27	Enantioselective resolution of (R,S)-DMPM to prepare (R)-DMPM by an adsorbed-covalent crosslinked esterase PAE07 from Pseudochrobactrum asaccharolyticum WZZ003.	O
26	Two-Step Modification of Proteins onto Microparticle Surface Using DMT-MM Condensation Agent.	О
25	Synthesis of a Lignin-Enhanced Graphene Aerogel for Lipase Immobilization. 2023, 8, 2435-2444	O
24	Investigation into the magnetic immobilization of lipase and its application in the synthesis of structured triacylglycerols. 2023 , 174, 114466	О
23	Cross-linked lipase particles with improved activity; application of a non-toxic linker for cross-linking. 2023 , 173, 114371	O
22	Boosting the stability of Egalactosidase immobilized onto soy-protein isolate-glutaraldehyde-functionalized carrageenan beads. 2023 , 13,	О
21	Enzymatic production of wax esters by esterification using lipase immobilized via physical adsorption on functionalized rice husk silica as biocatalyst.	O
20	Immobilization of Lipase on the Graphene Oxides Magnetized with NiFe2O4 Nanoparticles for Biodiesel Production from Microalgae Lipids. 2023 ,	1
19	Enzyme immobilization on alginate biopolymer for biotechnological applications. 2023, 471-488	O

18	Enzyme Immobilization. 2023 , 35-51	O
17	L-Theanine Goes Greener: A Highly Efficient Bioprocess Catalyzed by the Immobilized EGlutamyl Transferase from Bacillus subtilis.	O
16	Multi-enzyme cascade in carbon dioxide electroreduction fuel cell. 2023, 100333	О
15	A comprehensive review on nanocatalysts and nanobiocatalysts for biodiesel production in Indonesia, Malaysia, Brazil and USA. 2023 , 319, 138003	O
14	Immobilization of recombinant l-asparaginase from Geobacillus kaustophilus on magnetic MWCNT-nickel composites. 2023 , 127, 10-20	O
13	Immobilized short-chain dehydrogenase/reductase on Fe3O4 particles acts as a magnetically recoverable biocatalyst component in patulin bio-detoxification system. 2023 , 448, 130986	Ο
12	Progress on Lipase Immobilization Technology in Edible Oil and Fat Modifications. 1-47	O
11	Halloysite nanotubes as nano-support matrix to tailor cellulase and acetylcholinesterase-based Bano-biocatalystsFor waste degradation and electrochemical sensing. 2023 , 234, 106852	O
10	Immobilization of protease on chitosan lilica gel beads for high detergent and surfactant stability and high tolerance against metallic ions and organic solvents.	0
9	Polyelectrolyte assembly with nanoparticle-immobilized enzymes. 2023 , 61-87	O
8	Glutaraldehyde-copper gelled chitosan beads: Characterization and utilization as covalent immobilizers. 2023 , 50, 102668	0
7	Application of nanochitosan inlenzymelimmobilization. 2023 , 235-272	Ο
6	Enzyme@bismuth-ellagic acid: a versatile platform for enzyme immobilization with enhanced acid-base stability.	O
5	Hemoglobin-inorganic hybrid nanoflowers: Synthesis and applications for carbene N⊞ insertion reaction. 1-8	O
4	Bioinspired Framework Catalysts: From Enzyme Immobilization to Biomimetic Catalysis.	0
3	Increased trypsin resilience in aqueous-acetonitrile environment when immobilized on glyoxyl-agarose may improve its applicability. 1-8	Ο
2	Alpha-glucosidase enzyme immobilized Dextran-Co metal nanoparticle cryogel composite systems as dual catalyst with enhanced stability and catalytic activity.	0
1	Recycling of hyoscyamine 6Ehydroxylase for the in vitro production of anisodamine and scopolamine. 2023 , 107, 3459-3478	O