

# Cesar Mateo

## List of Publications by Year in descending order

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69  
papers

8,324  
citations

87723

38  
h-index

102304

66  
g-index

69  
all docs

69  
docs citations

69  
times ranked

6420  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of enzyme activity, stability and selectivity via immobilization techniques. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1451-1463.	1.6	2,864
2	Interfacial adsorption of lipases on very hydrophobic support (octadecyl- $\epsilon$ -Sepabeads): immobilization, hyperactivation and stabilization of the open form of lipases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 279-286.	1.8	384
3	Glyoxyl agarose: A fully inert and hydrophilic support for immobilization and high stabilization of proteins. <i>Enzyme and Microbial Technology</i> , 2006, 39, 274-280.	1.6	347
4	Increase in conformational stability of enzymes immobilized on epoxy-activated supports by favoring additional multipoint covalent attachment†. <i>Enzyme and Microbial Technology</i> , 2000, 26, 509-515.	1.6	316
5	Multifunctional Epoxy Supports: A New Tool To Improve the Covalent Immobilization of Proteins. The Promotion of Physical Adsorptions of Proteins on the Supports before Their Covalent Linkage. <i>Biomacromolecules</i> , 2000, 1, 739-745.	2.6	281
6	Immobilization of enzymes on heterofunctional epoxy supports. <i>Nature Protocols</i> , 2007, 2, 1022-1033.	5.5	269
7	Enzyme stabilization by glutaraldehyde crosslinking of adsorbed proteins on aminated supports. <i>Journal of Biotechnology</i> , 2005, 119, 70-75.	1.9	259
8	Some special features of glyoxyl supports to immobilize proteins. <i>Enzyme and Microbial Technology</i> , 2005, 37, 456-462.	1.6	257
9	Reversible enzyme immobilization via a very strong and nondistorting ionic adsorption on support-polyethylenimine composites. , 2000, 68, 98-105.		225
10	General Trend of Lipase to Self-Assemble Giving Bimolecular Aggregates Greatly Modifies the Enzyme Functionality. <i>Biomacromolecules</i> , 2003, 4, 1-6.	2.6	212
11	Effect of the support and experimental conditions in the intensity of the multipoint covalent attachment of proteins on glyoxyl-agarose supports: Correlation between enzyme-support linkages and thermal stability. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1160-1166.	1.6	200
12	Modulation of the enantioselectivity of lipases via controlled immobilization and medium engineering: hydrolytic resolution of mandelic acid esters. <i>Enzyme and Microbial Technology</i> , 2002, 31, 775-783.	1.6	160
13	Glutaraldehyde Cross-Linking of Lipases Adsorbed on Aminated Supports in the Presence of Detergents Leads to Improved Performance. <i>Biomacromolecules</i> , 2006, 7, 2610-2615.	2.6	121
14	Self-assembly of <i>Pseudomonas fluorescens</i> lipase into bimolecular aggregates dramatically affects functional properties. <i>Biotechnology and Bioengineering</i> , 2003, 82, 232-237.	1.7	119
15	Coating of Soluble and Immobilized Enzymes with Ionic Polymers: Full Stabilization of the Quaternary Structure of Multimeric Enzymes. <i>Biomacromolecules</i> , 2009, 10, 742-747.	2.6	111
16	The immobilization of a thermophilic $\beta$ -galactosidase on Sepabeads supports decreases product inhibition. <i>Enzyme and Microbial Technology</i> , 2003, 33, 199-205.	1.6	110
17	Dextran aldehyde coating of glucose oxidase immobilized on magnetic nanoparticles prevents its inactivation by gas bubbles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 32, 97-101.	1.8	106
18	One-step purification, covalent immobilization, and additional stabilization of poly-His-tagged proteins using novel heterofunctional chelate-epoxy supports. <i>Biotechnology and Bioengineering</i> , 2001, 76, 269-276.	1.7	103

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19	Solid-Phase Handling of Hydrophobins: Immobilized Hydrophobins as a New Tool To Study Lipases. <i>Biomacromolecules</i> , 2003, 4, 204-210.	2.6	96
20	Improvement of Enzyme Properties with a Two-Step Immobilization Process on Novel Heterofunctional Supports. <i>Biomacromolecules</i> , 2010, 11, 3112-3117.	2.6	93
21	Immobilization of lactase from <i>Kluyveromyces lactis</i> greatly reduces the inhibition promoted by glucose. full hydrolysis of lactose in milk. <i>Biotechnology Progress</i> , 2004, 20, 1259-1262.	1.3	90
22	Improvement of the stability of alcohol dehydrogenase by covalent immobilization on glyoxyl-agarose. <i>Journal of Biotechnology</i> , 2006, 125, 85-94.	1.9	86
23	Novel Bifunctional Epoxy/Thiol-Reactive Support to Immobilize Thiol Containing Proteins by the Epoxy Chemistry. <i>Biomacromolecules</i> , 2003, 4, 1495-1501.	2.6	84
24	Reversible and strong immobilization of proteins by ionic exchange on supports coated with sulfate-dextran. <i>Biotechnology Progress</i> , 2004, 20, 1134-1139.	1.3	82
25	Reversible immobilization of a thermophilic $\beta$ -galactosidase via ionic adsorption on PEI-coated Sepabeads. <i>Enzyme and Microbial Technology</i> , 2003, 32, 369-374.	1.6	80
26	Stabilization of different alcohol oxidases via immobilization and post immobilization techniques. <i>Enzyme and Microbial Technology</i> , 2007, 40, 278-284.	1.6	66
27	Immobilization and stabilization of glutaryl acylase on aminated sepabeads supports by the glutaraldehyde crosslinking method. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 35, 57-61.	1.8	59
28	Heterofunctional supports for the one-step purification, immobilization and stabilization of large multimeric enzymes: Amino-glyoxyl versus amino-epoxy supports. <i>Process Biochemistry</i> , 2010, 45, 1692-1698.	1.8	56
29	Promotion of multipoint covalent immobilization through different regions of genetically modified penicillin G acylase from <i>E. coli</i> . <i>Process Biochemistry</i> , 2010, 45, 390-398.	1.8	55
30	Purification and stabilization of a glutamate dehydrogenase from <i>Thermus thermophilus</i> via oriented multisubunit plus multipoint covalent immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 58, 158-163.	1.8	53
31	The presence of thiolated compounds allows the immobilization of enzymes on glyoxyl agarose at mild pH values: New strategies of stabilization by multipoint covalent attachment. <i>Enzyme and Microbial Technology</i> , 2009, 45, 477-483.	1.6	46
32	Stabilization of a Multimeric $\beta$ -Galactosidase from <i>Thermus</i> sp. Strain T2 by Immobilization on Novel Heterofunctional Epoxy Supports Plus Aldehyde-Dextran Cross-Linking. <i>Biotechnology Progress</i> , 2008, 20, 388-392.	1.3	44
33	Novel support for enzyme immobilization prepared by chemical activation with cysteine and glutaraldehyde. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 102, 218-224.	1.8	43
34	Immobilization and stabilization of a new recombinant glutamate dehydrogenase from <i>Thermus thermophilus</i> . <i>Applied Microbiology and Biotechnology</i> , 2008, 80, 49-58.	1.7	42
35	Mixed Ion Exchange Supports as Useful Ion Exchangers for Protein Purification: Purification of Penicillin G Acylase from <i>Escherichia coli</i> . <i>Biomacromolecules</i> , 2007, 8, 703-707.	2.6	40
36	The co-operative effect of physical and covalent protein adsorption on heterofunctional supports. <i>Process Biochemistry</i> , 2009, 44, 757-763.	1.8	40

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37	Stabilization of a highly active but unstable alcohol dehydrogenase from yeast using immobilization and post-immobilization techniques. <i>Process Biochemistry</i> , 2012, 47, 679-686.	1.8	40
38	Oxidation of phenyl compounds using strongly stable immobilized-stabilized laccase from <i>Trametes versicolor</i> . <i>Process Biochemistry</i> , 2013, 48, 1174-1180.	1.8	40
39	Enzymatic transformations. Immobilized <i>A. niger</i> epoxide hydrolase as a novel biocatalytic tool for repeated-batch hydrolytic kinetic resolution of epoxides Part 54. For part 53 see ref. 21.. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 2739.	1.5	39
40	The adsorption of multimeric enzymes on very lowly activated supports involves more enzyme subunits: Stabilization of a glutamate dehydrogenase from <i>Thermus thermophilus</i> by immobilization on heterofunctional supports. <i>Enzyme and Microbial Technology</i> , 2009, 44, 139-144.	1.6	39
41	New Heterofunctional Supports Based on Glutaraldehyde-Activation: A Tool for Enzyme Immobilization at Neutral pH. <i>Molecules</i> , 2017, 22, 1088.	1.7	39
42	Overproduction of <i>Thermus sp.</i> Strain T2 $\beta$ -Galactosidase in <i>Escherichia coli</i> and Preparation by Using Tailor-Made Metal Chelate Supports. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1967-1972.	1.4	38
43	New Cationic Exchanger Support for Reversible Immobilization of Proteins. <i>Biotechnology Progress</i> , 2008, 20, 284-288.	1.3	37
44	Continuous production of xylooligosaccharides in a packed bed reactor with immobilized-stabilized biocatalysts of xylanase from <i>Aspergillus versicolor</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 98, 8-14.	1.8	37
45	Stabilization-immobilization of carboxypeptidase A to aldehyde-agarose gels. <i>Enzyme and Microbial Technology</i> , 2002, 31, 711-718.	1.6	36
46	Improving the Industrial Production of 6-APA: Enzymatic Hydrolysis of Penicillin G in the Presence of Organic Solvents. <i>Biotechnology Progress</i> , 2003, 19, 1639-1642.	1.3	36
47	Recent Trends in Biomaterials for Immobilization of Lipases for Application in Non-Conventional Media. <i>Catalysts</i> , 2020, 10, 697.	1.6	36
48	Coimmobilization of L-asparaginase and glutamate dehydrogenase onto highly activated supports. <i>Enzyme and Microbial Technology</i> , 2001, 28, 696-704.	1.6	35
49	$\beta$ -Glucosidase immobilized and stabilized on agarose matrix functionalized with distinct reactive groups. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 69, 47-53.	1.8	35
50	Production of xylo-oligosaccharides by immobilized-stabilized derivatives of endo-xylanase from <i>Streptomyces halstedii</i> . <i>Process Biochemistry</i> , 2013, 48, 478-483.	1.8	29
51	Improving the Activity of Lipases from Thermophilic Organisms at Mesophilic Temperatures for Biotechnology Applications. <i>Biomacromolecules</i> , 2004, 5, 249-254.	2.6	26
52	Reversible Immobilization of Glutaryl Acylase on Sepabeads Coated with Polyethyleneimine. <i>Biotechnology Progress</i> , 2008, 20, 533-536.	1.3	23
53	Preparation of a very stable immobilized <i>Solanum tuberosum</i> epoxide hydrolase. <i>Tetrahedron: Asymmetry</i> , 2007, 18, 1233-1238.	1.8	20
54	Modulation of a lipase from <i>Staphylococcus warneri</i> EX17 using immobilization techniques. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 60, 125-132.	1.8	20

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55	Immobilisation and stabilisation of Î²-galactosidase from <i>Kluyveromyces lactis</i> using a glyoxyl support. <i>International Dairy Journal</i> , 2013, 28, 76-82.	1.5	16
56	Resolution of paroxetine precursor using different lipases. <i>Enzyme and Microbial Technology</i> , 2004, 34, 264-269.	1.6	14
57	New Tailor-Made Alkyl-Aldehyde Bifunctional Supports for Lipase Immobilization. <i>Catalysts</i> , 2016, 6, 191.	1.6	13
58	Purification, immobilization, and characterization of a specific lipase from <i>Staphylococcus warneri</i> EX17 by enzyme fractionating via adsorption on different hydrophobic supports. <i>Biotechnology Progress</i> , 2011, 27, 717-723.	1.3	12
59	Multi-Point Covalent Immobilization of Enzymes on Glyoxyl Agarose with Minimal Physico-Chemical Modification: Stabilization of Industrial Enzymes. <i>Methods in Molecular Biology</i> , 2020, 2100, 93-107.	0.4	11
60	Co-expression, purification and characterization of the lipase and foldase of <i>Burkholderia contaminans</i> LTEB11. <i>International Journal of Biological Macromolecules</i> , 2018, 116, 1222-1231.	3.6	10
61	Oriented Covalent Immobilization of Enzymes on Heterofunctional-Glyoxyl Supports. <i>Methods in Molecular Biology</i> , 2013, 1051, 73-88.	0.4	10
62	Partial Purification and Immobilization/Stabilization on Highly Activated Glyoxyl-agarose Supports of Different Proteases from <i>Flavourzyme</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 6503-6508.	2.4	9
63	An immobilized acetylcholinesterase as test system to screen new inhibitor drugs to treat Alzheimer's disease. <i>Sensors and Actuators B: Chemical</i> , 2019, 278, 196-201.	4.0	9
64	Use of polyvalent cations to improve the adsorption strength between adsorbed enzymes and supports coated with dextran sulfate. <i>Enzyme and Microbial Technology</i> , 2006, 39, 332-336.	1.6	6
65	Cross-Linking with Polyethylenimine Confers Better Functional Characteristics to an Immobilized Î²-glucosidase from <i>Exiguobacterium antarcticum</i> B7. <i>Catalysts</i> , 2019, 9, 223.	1.6	6
66	Biocatalytic Process Optimization for the Production of High-Added-Value 6-O-Hydroxy and 3-O-Hydroxy Glycosyl Building Blocks. <i>ChemCatChem</i> , 2017, 9, 2536-2543.	1.8	3
67	Production and Digestibility Studies of Î²-Galactosyl Xylitol Derivatives Using Heterogeneous Catalysts of <i>LacA</i> Î²-Galactosidase from <i>Lactobacillus Plantarum</i> WCFS1. <i>Molecules</i> , 2022, 27, 1235.	1.7	1
68	Asymmetric and Selective Biocatalysis. <i>Catalysts</i> , 2018, 8, 588.	1.6	0
69	Special Issue "Biocatalysts: Design and Application". <i>Catalysts</i> , 2021, 11, 778.	1.6	0