

Oveimar Barbosa

List of Publications by Year in descending order

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47
papers

5,721
citations

94433

37
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206112

48
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50
all docs

50
docs citations

50
times ranked

4176
citing authors

#	ARTICLE	IF	CITATIONS
1	Glutaraldehyde in bio-catalysts design: a useful crosslinker and a versatile tool in enzyme immobilization. <i>RSC Advances</i> , 2014, 4, 1583-1600.	3.6	669
2	Strategies for the one-step immobilization and purification of enzymes as industrial biocatalysts. <i>Biotechnology Advances</i> , 2015, 33, 435-456.	11.7	568
3	Importance of the Support Properties for Immobilization or Purification of Enzymes. <i>ChemCatChem</i> , 2015, 7, 2413-2432.	3.7	466
4	Heterofunctional Supports in Enzyme Immobilization: From Traditional Immobilization Protocols to Opportunities in Tuning Enzyme Properties. <i>Biomacromolecules</i> , 2013, 14, 2433-2462.	5.4	429
5	Immobilization of lipases on hydrophobic supports: immobilization mechanism, advantages, problems, and solutions. <i>Biotechnology Advances</i> , 2019, 37, 746-770.	11.7	409
6	Novozym 435: the "perfect" lipase immobilized biocatalyst?. <i>Catalysis Science and Technology</i> , 2019, 9, 2380-2420.	4.1	393
7	Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. <i>Journal of Materials Chemistry B</i> , 2017, 5, 7461-7490.	5.8	228
8	Versatility of glutaraldehyde to immobilize lipases: Effect of the immobilization protocol on the properties of lipase B from <i>Candida antarctica</i> . <i>Process Biochemistry</i> , 2012, 47, 1220-1227.	3.7	188
9	Chemical Modification in the Design of Immobilized Enzyme Biocatalysts: Drawbacks and Opportunities. <i>Chemical Record</i> , 2016, 16, 1436-1455.	5.8	183
10	Improved performance of lipases immobilized on heterofunctional octyl-glyoxyl agarose beads. <i>RSC Advances</i> , 2015, 5, 11212-11222.	3.6	129
11	Amination of enzymes to improve biocatalyst performance: coupling genetic modification and physicochemical tools. <i>RSC Advances</i> , 2014, 4, 38350-38374.	3.6	117
12	Characterization of supports activated with divinyl sulfone as a tool to immobilize and stabilize enzymes via multipoint covalent attachment. Application to chymotrypsin. <i>RSC Advances</i> , 2015, 5, 20639-20649.	3.6	104
13	Improved production of butyl butyrate with lipase from <i>Thermomyces lanuginosus</i> immobilized on styrene-divinylbenzene beads. <i>Bioresource Technology</i> , 2013, 134, 417-422.	9.6	94
14	Bovine trypsin immobilization on agarose activated with divinylsulfone: Improved activity and stability via multipoint covalent attachment. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 117, 38-44.	1.8	93
15	Evaluation of divinylsulfone activated agarose to immobilize lipases and to tune their catalytic properties. <i>Process Biochemistry</i> , 2015, 50, 918-927.	3.7	91
16	Easy stabilization of interfacially activated lipases using heterofunctional divinyl sulfone activated-octyl agarose beads. Modulation of the immobilized enzymes by altering their nanoenvironment. <i>Process Biochemistry</i> , 2016, 51, 865-874.	3.7	88
17	Immobilization of lipases on glyoxyl-octyl supports: Improved stability and reactivation strategies. <i>Process Biochemistry</i> , 2015, 50, 1211-1217.	3.7	73
18	Optimized preparation of CALB-CLEAs by response surface methodology: The necessity to employ a feeder to have an effective crosslinking. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 80, 7-14.	1.8	72

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19	Immobilization of CALB on activated chitosan: Application to enzymatic synthesis in supercritical and near-critical carbon dioxide. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2017, 14, 16-26.	4.4	72
20	Reversible immobilization of lipases on octyl-glutamic agarose beads: A mixed adsorption that reinforces enzyme immobilization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 128, 10-18.	1.8	70
21	Immobilization/Stabilization of Ficin Extract on Glutaraldehyde-Activated Agarose Beads. Variables That Control the Final Stability and Activity in Protein Hydrolyses. <i>Catalysts</i> , 2018, 8, 149.	3.5	69
22	Chemical amination of lipases improves their immobilization on octyl-glyoxyl agarose beads. <i>Catalysis Today</i> , 2016, 259, 107-118.	4.4	68
23	Improved immobilization and stabilization of lipase from <i>Rhizomucor miehei</i> on octyl-glyoxyl agarose beads by using CaCl ₂ . <i>Process Biochemistry</i> , 2016, 51, 48-52.	3.7	67
24	Modulation of the properties of immobilized CALB by chemical modification with 2,3,4-trinitrobenzenesulfonate or ethylenediamine. Advantages of using adsorbed lipases on hydrophobic supports. <i>Process Biochemistry</i> , 2012, 47, 867-876.	3.7	66
25	Tuning of Lecitase features via solid-phase chemical modification: Effect of the immobilization protocol. <i>Process Biochemistry</i> , 2014, 49, 604-616.	3.7	65
26	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.	3.7	62
27	Evaluation of Styrene-Divinylbenzene Beads as a Support to Immobilize Lipases. <i>Molecules</i> , 2014, 19, 7629-7645.	3.8	62
28	Immobilization of Proteins in Poly-Styrene-Divinylbenzene Matrices: Functional Properties and Applications. <i>Current Organic Chemistry</i> , 2015, 19, 1707-1718.	1.6	62
29	Effect of the immobilization protocol on the properties of lipase B from <i>Candida antarctica</i> in organic media: Enantiospecific production of atenolol acetate. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 71, 124-132.	1.8	59
30	Reversible Immobilization of Lipases on Heterofunctional Octyl-Amino Agarose Beads Prevents Enzyme Desorption. <i>Molecules</i> , 2016, 21, 646.	3.8	58
31	Chemical amination of lipase B from <i>Candida antarctica</i> is an efficient solution for the preparation of crosslinked enzyme aggregates. <i>Process Biochemistry</i> , 2012, 47, 2373-2378.	3.7	55
32	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.	3.7	54
33	Stabilization of the hexameric glutamate dehydrogenase from <i>Escherichia coli</i> by cations and polyethyleneimine. <i>Enzyme and Microbial Technology</i> , 2013, 52, 211-217.	3.2	45
34	Reactivation of lipases by the unfolding and refolding of covalently immobilized biocatalysts. <i>RSC Advances</i> , 2015, 5, 55588-55594.	3.6	43
35	Lecitase ultra: A phospholipase with great potential in biocatalysis. <i>Molecular Catalysis</i> , 2019, 473, 110405.	2.0	43
36	Combined Effects of Ultrasound and Immobilization Protocol on Butyl Acetate Synthesis Catalyzed by CALB. <i>Molecules</i> , 2014, 19, 9562-9576.	3.8	42

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37	Kinetic resolution of (R/S)-propranolol (1-isopropylamino-3-(1-naphthoxy)-2-propanolol) catalyzed by immobilized preparations of <i>Candida antarctica</i> lipase B (CAL-B). <i>New Biotechnology</i> , 2010, 27, 844-850.	4.4	38
38	Effect of solid-phase chemical modification on the features of the lipase from <i>Thermomyces lanuginosus</i> . <i>Process Biochemistry</i> , 2012, 47, 460-466.	3.7	34
39	Tuning lipase B from <i>Candida antarctica</i> C=C bond promiscuous activity by immobilization on poly-styrene-divinylbenzene beads. <i>RSC Advances</i> , 2014, 4, 6219.	3.6	31
40	Immobilization of Lipases on Heterofunctional Octyl-Glyoxyl Agarose Supports. <i>Methods in Enzymology</i> , 2016, 571, 73-85.	1.0	28
41	Solid phase chemical modification of agarose glyoxyl-ficin: Improving activity and stability properties by amination and modification with glutaraldehyde. <i>Process Biochemistry</i> , 2018, 73, 109-116.	3.7	26
42	Cooperativity of covalent attachment and ion exchange on alcalase immobilization using glutaraldehyde chemistry: Enzyme stabilization and improved proteolytic activity. <i>Biotechnology Progress</i> , 2019, 35, e2768.	2.6	22
43	Biotechnological prospects of the lipase from <i>Mucor javanicus</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 93, 34-43.	1.8	21
44	Solid-phase modification with succinic polyethyleneglycol of aminated lipase B from <i>Candida antarctica</i> : Effect of the immobilization protocol on enzyme catalytic properties. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 87, 75-82.	1.8	18
45	Use of Lecitase-Ultra immobilized on styrene-divinylbenzene beads as catalyst of esterification reactions: Effects of ultrasounds. <i>Catalysis Today</i> , 2015, 255, 27-32.	4.4	18
46	Further Stabilization of Alcalase Immobilized on Glyoxyl Supports: Amination Plus Modification with Glutaraldehyde. <i>Molecules</i> , 2018, 23, 3188.	3.8	17
47	Optimization and characterization of CLEAs of the very thermostable dimeric peroxidase from <i>Roystonea regia</i> . <i>RSC Advances</i> , 2015, 5, 53047-53053.	3.6	5