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Evaluation of styrene-divinylbenzene beads as a support to immobilize lipases

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#	Paper	IF	Citations
56	Editorial: Special issue--Enzyme immobilization. <i>Molecules</i> , <b>2014</b> , 19, 20671-4	4.8	3
55	Importance of the Support Properties for Immobilization or Purification of Enzymes. <i>ChemCatChem</i> , <b>2015</b> , 7, 2413-2432	5.2	387
54	Immobilization of lipases on hydrophobic supports involves the open form of the enzyme. <i>Enzyme and Microbial Technology</i> , <b>2015</b> , 71, 53-7	3.8	355
53	Use of Lecitase-Ultra immobilized on styrene-divinylbenzene beads as catalyst of esterification reactions: Effects of ultrasounds. <i>Catalysis Today</i> , <b>2015</b> , 255, 27-32	5.3	17
52	Current status and new developments of biodiesel production using fungal lipases. <i>Fuel</i> , <b>2015</b> , 159, 52-67.1		98
51	Versatility of divinylsulfone supports permits the tuning of CALB properties during its immobilization. <i>RSC Advances</i> , <b>2015</b> , 5, 35801-35810	3.7	56
50	Strategies for the one-step immobilization-purification of enzymes as industrial biocatalysts. <i>Biotechnology Advances</i> , <b>2015</b> , 33, 435-56	17.8	463
49	Immobilization of Glycoside Hydrolase Families GH1, GH13, and GH70: State of the Art and Perspectives. <i>Molecules</i> , <b>2016</b> , 21,	4.8	34
48	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> , <b>2016</b> , 51, 865-874	4.8	69
47	Strategies of covalent immobilization of a recombinant <i>Candida antarctica</i> lipase B on pore-expanded SBA-15 and its application in the kinetic resolution of (R,S)-Phenylethyl acetate. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2016</b> , 133, 246-258		62
46	Evaluation of different commercial hydrophobic supports for the immobilization of lipases: tuning their stability, activity and specificity. <i>RSC Advances</i> , <b>2016</b> , 6, 100281-100294	3.7	60
45	Nanomaterials for biocatalyst immobilization: State of the art and future trends. <i>RSC Advances</i> , <b>2016</b> , 6, 104675-104692	3.7	229
44	Evaluation of the performance of differently immobilized recombinant lipase B from <i>Candida antarctica</i> preparations for the synthesis of pharmacological derivatives in organic media. <i>RSC Advances</i> , <b>2016</b> , 6, 4043-4052	3.7	25
43	Synthesis of butyl butyrate in batch and continuous enzymatic reactors using <i>Thermomyces lanuginosus</i> lipase immobilized in Immobead 150. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2016</b> , 127, 67-75		41
42	Imidazolium ionic liquid incorporation on sulfonated poly(styrene-isobutylene-styrene) proton exchange membranes. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	9
41	Design of a lipase-nano particle biocatalysts and its use in the kinetic resolution of medicament precursors. <i>Biochemical Engineering Journal</i> , <b>2017</b> , 125, 104-115	4.2	74
40	Effect of protein load on stability of immobilized enzymes. <i>Enzyme and Microbial Technology</i> , <b>2017</b> , 98, 18-25	3.8	146

39	Isotherm, kinetic, mechanism and thermodynamic studies of adsorption of a microbial lipase on a mesoporous and hydrophobic resin. <i>Chemical Engineering Journal</i> , <b>2017</b> , 311, 1-12	14.7	52
38	Special Issue: Enzyme Immobilization 2016. <i>Molecules</i> , <b>2017</b> , 22,	4.8	4
37	Immobilized Lipases on Functionalized Silica Particles as Potential Biocatalysts for the Synthesis of Fructose Oleate in an Organic Solvent/Water System. <i>Molecules</i> , <b>2017</b> , 22,	4.8	28
36	Different strategies to immobilize lipase from <i>Geotrichum candidum</i> : Kinetic and thermodynamic studies. <i>Process Biochemistry</i> , <b>2018</b> , 67, 55-63	4.8	39
35	Lipase immobilization on functionalized mesoporous TiO <sub>2</sub> : Specific adsorption, hyperactivation and application in cinnamyl acetate synthesis. <i>Process Biochemistry</i> , <b>2018</b> , 64, 152-159	4.8	29
34	Pore-expanded SBA-15 for the immobilization of a recombinant <i>Candida antarctica</i> lipase B: Application in esterification and hydrolysis as model reactions. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 129, 12-24	5.5	25
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32	Sol-Gel Immobilisation of Lipases: Towards Active and Stable Biocatalysts for the Esterification of Valeric Acid. <i>Molecules</i> , <b>2018</b> , 23,	4.8	14
31	Production of Biofuels from Biomass by Fungi. <i>Fungal Biology</i> , <b>2018</b> , 21-45	2.3	0
30	Ultrasound-Assisted Esterification of Valeric Acid to Alkyl Valerates Promoted by Biosilicified Lipases. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 197	5	11
29	Production and optimization of isopropyl palmitate via biocatalytic route using home-made enzymatic catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2019</b> , 94, 389-397	3.5	11
28	Tuning dimeric formate dehydrogenases reduction/oxidation activities by immobilization. <i>Process Biochemistry</i> , <b>2019</b> , 85, 97-105	4.8	13
27	Kinetic model of the enzymatic Michael addition for synthesis of mitomycin analogs catalyzed by immobilized lipase from <i>T. laibacchii</i> . <i>Molecular Catalysis</i> , <b>2019</b> , 466, 146-156	3.3	11
26	Comparison of the immobilization of lipase from <i>Pseudomonas fluorescens</i> on divinylsulfone or p-benzoquinone activated support. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 134, 936-945	7.9	56
25	Lecitase ultra: A phospholipase with great potential in biocatalysis. <i>Molecular Catalysis</i> , <b>2019</b> , 473, 1104053	5.3	24
24	Novozym 435: the perfect lipase immobilized biocatalyst?. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 2380-2420	5.5	241
23	SuFEx-based strategies for the preparation of functional particles and cation exchange resins. <i>Chemical Communications</i> , <b>2019</b> , 55, 3891-3894	5.8	5
22	Ethyl Butyrate Synthesis Catalyzed by Lipases A and B From Immobilized onto Magnetic Nanoparticles. Improvement of Biocatalysts' Performance under Ultrasonic Irradiation. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	29

21	Prediction and comparison of textural properties of magnetic copolymer supports for enzyme immobilization. <i>Journal of Applied Polymer Science</i> , <b>2020</b> , 137, 49258	2.9	0
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19	Ethyl esters production catalyzed by immobilized lipases is influenced by n-hexane and ter-amyl alcohol as organic solvents. <i>Bioprocess and Biosystems Engineering</i> , <b>2020</b> , 43, 2107-2115	3.7	2
18	A new heterofunctional support for enzyme immobilization: PEI functionalized FeO MNPs activated with divinyl sulfone. Application in the immobilization of lipase from <i>Thermomyces lanuginosus</i> . <i>Enzyme and Microbial Technology</i> , <b>2020</b> , 138, 109560	3.8	39
17	An overview on the conversion of glycerol to value-added industrial products via chemical and biochemical routes. <i>Biotechnology and Applied Biochemistry</i> , <b>2021</b> ,	2.8	27
16	Synthesis of lipase/silica biocatalysts through the immobilization of CALB on porous SBA-15 and their application on the resolution of pharmaceutical derivatives and on nutraceutical enrichment of natural oil. <i>Molecular Catalysis</i> , <b>2021</b> , 505, 111529	3.3	3
15	Current Status and Future Perspectives of Supports and Protocols for Enzyme Immobilization. <i>Catalysts</i> , <b>2021</b> , 11, 1222	4	19
14	ESTABILIZAÇÃO DE LECITASE ULTRA POR IMOBILIZAÇÃO EM SUORTE MACROPOROSO.		
13	Taguchi design-assisted co-immobilization of lipase A and B from <i>Candida antarctica</i> onto chitosan: Characterization, kinetic resolution application, and docking studies. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 177, 223-223	5.5	9
12	METHODS OF IMMOBILIZATION OF MICROBIAL ENZYMES ON SOLID SURFACES AND THEIR USE. <i>Military Medical Science Letters (Vojenske Zdravotnicke Listy)</i> ,	0.2	
11	Biodiesel production from microalgae using lipase-based catalysts: Current challenges and prospects. <i>Algal Research</i> , <b>2022</b> , 62, 102616	5	16
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7	A Theoretical and Experimental Study for Enzymatic Biodiesel Production from Babassu Oil ( <i>Orbignya</i> sp.) Using Eversa Lipase. <b>2022</b> , 12, 1322		3
6	Renewable processes of synthesis of biolubricants catalyzed by lipases. <b>2022</b> , 109006		3
5	Synthesis of organic-inorganic hybrid nanoflowers of lipases from <i>Candida antarctica</i> type B (CALB) and <i>Thermomyces lanuginosus</i> (TLL): Improvement of thermal stability and reusability. <b>2023</b> , 163, 110167		0
4	Experimental and optimization for kinetic resolution of 1-(4-(trifluoromethyl)phenyl)ethanol enantiomers by lipase-catalyzed transesterification in organic phase.		0

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- 2 A scientometric analysis of research progress and trends in the design of laccase biocatalysts for the decolorization of synthetic dyes. **2023**, 126, 272-291 2
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