

Adriano A Mendes

List of Publications by Year in descending order

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79
papers

2,980
citations

136950

32
h-index

182427

51
g-index

80
all docs

80
docs citations

80
times ranked

2581
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties and biotechnological applications of porcine pancreatic lipase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 78, 119-134.	1.8	186
2	Multipoint covalent immobilization of microbial lipase on chitosan and agarose activated by different methods. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 51, 100-109.	1.8	150
3	Preparation of a biocatalyst via physical adsorption of lipase from <i>Thermomyces lanuginosus</i> on hydrophobic support to catalyze biolubricant synthesis by esterification reaction in a solvent-free system. <i>Enzyme and Microbial Technology</i> , 2016, 84, 56-67.	3.2	125
4	Modificação de Ácidos e gorduras por biotransformação. <i>Quimica Nova</i> , 2004, 27, 146-156.	0.3	110
5	Immobilization and stabilization of microbial lipases by multipoint covalent attachment on aldehyde-resin affinity: Application of the biocatalysts in biodiesel synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 68, 109-115.	1.8	109
6	Solid-Phase Chemical Amination of a Lipase from <i>Bacillus thermocatenulatus</i> To Improve Its Stabilization via Covalent Immobilization on Highly Activated Glyoxyl-Agarose. <i>Biomacromolecules</i> , 2008, 9, 2553-2561.	5.4	98
7	Evaluation of the catalytic properties of <i>Burkholderia cepacia</i> lipase immobilized on non-commercial matrices to be used in biodiesel synthesis from different feedstocks. <i>Bioresource Technology</i> , 2010, 101, 5508-5516.	9.6	94
8	Evaluation of immobilized lipases on poly-hydroxybutyrate beads to catalyze biodiesel synthesis. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 503-511.	7.5	82
9	Isotherm, kinetic, mechanism and thermodynamic studies of adsorption of a microbial lipase on a mesoporous and hydrophobic resin. <i>Chemical Engineering Journal</i> , 2017, 311, 1-12.	12.7	80
10	Multipoint covalent immobilization of lipase on chitosan hybrid hydrogels: influence of the polyelectrolyte complex type and chemical modification on the catalytic properties of the biocatalysts. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011, 38, 1055-1066.	3.0	79
11	Effect of the enzymatic hydrolysis pretreatment of lipids-rich wastewater on the anaerobic biodegradation. <i>Biochemical Engineering Journal</i> , 2006, 32, 185-190.	3.6	77
12	Immobilization of <i>Thermomyces lanuginosus</i> lipase on mesoporous poly-hydroxybutyrate particles and application in alkyl esters synthesis: Isotherm, thermodynamic and mass transfer studies. <i>Chemical Engineering Journal</i> , 2014, 251, 392-403.	12.7	74
13	Interfacial activation of lipases on hydrophobic support and application in the synthesis of a lubricant ester. <i>International Journal of Biological Macromolecules</i> , 2016, 92, 900-909.	7.5	60
14	Immobilization of porcine pancreatic lipase on poly-hydroxybutyrate particles for the production of ethyl esters from macaw palm oils and pineapple flavor. <i>Biochemical Engineering Journal</i> , 2014, 82, 139-149.	3.6	58
15	Hydrolysis of vegetable oils catalyzed by lipase extract powder from dormant castor bean seeds. <i>Industrial Crops and Products</i> , 2013, 44, 452-458.	5.2	56
16	Immobilization of <i>Pseudomonas fluorescens</i> lipase on hydrophobic supports and application in biodiesel synthesis by transesterification of vegetable oils in solvent-free systems. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 523-535.	3.0	55
17	Improved catalytic properties of <i>Candida antarctica</i> lipase B multi-attached on tailor-made hydrophobic silica containing octyl and multifunctional amino- glutaraldehyde spacer arms. <i>Process Biochemistry</i> , 2016, 51, 2055-2066.	3.7	54
18	Different strategies to immobilize lipase from <i>Geotrichum candidum</i> : Kinetic and thermodynamic studies. <i>Process Biochemistry</i> , 2018, 67, 55-63.	3.7	54

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19	Preparation, functionalization and characterization of rice husk silica for lipase immobilization via adsorption. <i>Enzyme and Microbial Technology</i> , 2019, 128, 9-21.	3.2	54
20	Preparation and application of epoxy-chitosan/alginate support in the immobilization of microbial lipases by covalent attachment. <i>Reactive and Functional Polymers</i> , 2013, 73, 160-167.	4.1	51
21	Improved immobilization of lipase from <i>Thermomyces lanuginosus</i> on a new chitosan-based heterofunctional support: Mixed ion exchange plus hydrophobic interactions. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 550-561.	7.5	51
22	Characterization of the catalytic properties of lipases from plant seeds for the production of concentrated fatty acids from different vegetable oils. <i>Industrial Crops and Products</i> , 2013, 49, 462-470.	5.2	49
23	Economic feasibility of biodiesel production from Macauba in Brazil. <i>Energy Economics</i> , 2013, 40, 819-824.	12.1	46
24	Biolubricant Production from Several Oleaginous Feedstocks Using Lipases as Catalysts: Current Scenario and Future Perspectives. <i>Bioenergy Research</i> , 2021, 14, 1039-1057.	3.9	44
25	Aplicação de lipases no tratamento de Águas residuais com elevados teores de lipídeos. <i>Química Nova</i> , 2005, 28, 296-305.	0.3	43
26	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. <i>Biomass and Bioenergy</i> , 2021, 155, 106302.	5.7	41
27	Immobilization of a Commercial Lipase from <i>Penicillium camembertii</i> (Lipase G) by Different Strategies. <i>Enzyme Research</i> , 2011, 2011, 1-8.	1.8	40
28	Kinetic and thermodynamic studies on the enzymatic synthesis of wax ester catalyzed by lipase immobilized on glutaraldehyde-activated rice husk particles. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 991-1002.	3.4	39
29	Hydrolysis of lactose in whole milk catalyzed by β -galactosidase from <i>Kluyveromyces fragilis</i> immobilized on chitosan-based matrix. <i>Biochemical Engineering Journal</i> , 2013, 81, 54-64.	3.6	38
30	Optimization of the enzymatic hydrolysis of <i>Moringa oleifera</i> Lam oil using molecular docking analysis for fatty acid specificity. <i>Biotechnology and Applied Biochemistry</i> , 2019, 66, 823-832.	3.1	37
31	Production of alkyl esters from macaw palm oil by a sequential hydrolysis/esterification process using heterogeneous biocatalysts: optimization by response surface methodology. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 287-297.	3.4	36
32	Immobilized Lipases on Functionalized Silica Particles as Potential Biocatalysts for the Synthesis of Fructose Oleate in an Organic Solvent/Water System. <i>Molecules</i> , 2017, 22, 212.	3.8	34
33	Artificial neural network hybridized with a genetic algorithm for optimization of lipase production from <i>Penicillium roqueforti</i> ATCC 10110 in solid-state fermentation. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 31, 101885.	3.1	33
34	Enzymatic synthesis of isoamyl butyrate catalyzed by immobilized lipase on poly-methacrylate particles: optimization, reusability and mass transfer studies. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1601-1613.	3.4	32
35	Enzymatic catalysis as a tool in biofuels production in Brazil: Current status and perspectives. <i>Energy for Sustainable Development</i> , 2022, 68, 103-119.	4.5	32
36	Performance of Different Immobilized Lipases in the Syntheses of Short- and Long-Chain Carboxylic Acid Esters by Esterification Reactions in Organic Media. <i>Molecules</i> , 2018, 23, 766.	3.8	31

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37	Enzymatic biodiesel production by hydroesterification using waste cooking oil as feedstock. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 157, 108131.	3.6	30
38	Production and immobilization of <i>Geotrichum candidum</i> lipase via physical adsorption on eco-friendly support: Characterization of the catalytic properties in hydrolysis and esterification reactions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 118, 43-51.	1.8	28
39	Decyl esters production from soybean-based oils catalyzed by lipase immobilized on differently functionalized rice husk silica and their characterization as potential biolubricants. <i>Enzyme and Microbial Technology</i> , 2022, 157, 110019.	3.2	28
40	Kinetic, thermodynamic, optimization and reusability studies for the enzymatic synthesis of a saturated wax ester. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S377-S387.	1.8	27
41	Influence of feedstock source on the biocatalyst stability and reactor performance in continuous biodiesel production. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 881-886.	5.8	25
42	Covalent attachment of lipases on glyoxyl-agarose beads: Application in fruit flavor and biodiesel synthesis. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 78-85.	7.5	25
43	Design of a sustainable process for enzymatic production of ethylene glycol diesters via hydroesterification of used soybean cooking oil. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107062.	6.7	25
44	Optimization of free fatty acid production by enzymatic hydrolysis of vegetable oils using a non-commercial lipase from <i>Geotrichum candidum</i> . <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1647-1659.	3.4	24
45	Anaerobic biodegradability of dairy wastewater pretreated with porcine pancreas lipase. <i>Brazilian Archives of Biology and Technology</i> , 2010, 53, 1279-1284.	0.5	23
46	Enzymatic synthesis optimization of a cosmetic ester catalyzed by a homemade biocatalyst prepared via physical adsorption of lipase on amino-functionalized rice husk silica. <i>Chemical Engineering Research and Design</i> , 2018, 139, 296-308.	5.6	23
47	Preparation of ion-exchange supports via activation of epoxy-SiO ₂ with glycine to immobilize microbial lipase – Use of biocatalysts in hydrolysis and esterification reactions. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 2354-2365.	7.5	23
48	Sustainable Enzymatic Synthesis of a Solketal Ester – Process Optimization and Evaluation of Its Antimicrobial Activity. <i>Catalysts</i> , 2020, 10, 218.	3.5	23
49	Effect on the enzymatic hydrolysis of lipids from dairy wastewater by replacing Gum Arabic emulsifier for sodium chloride. <i>Brazilian Archives of Biology and Technology</i> , 2005, 48, 135-142.	0.5	22
50	Transesterification of Palm Oil Catalyzed by <i>Pseudomonas fluorescens</i> Lipase in a Packed-Bed Reactor. <i>Energy & Fuels</i> , 2012, 26, 5977-5982.	5.1	22
51	Biolubricant production under zero-waste <i>Moringa oleifera</i> Lam biorefinery approach for boosting circular economy. <i>Industrial Crops and Products</i> , 2021, 167, 113542.	5.2	22
52	Selection of Lipases for the Synthesis of Biodiesel from <i>Jatropha</i> Oil and the Potential of Microwave Irradiation to Enhance the Reaction Rate. <i>BioMed Research International</i> , 2016, 2016, 1-13.	1.9	21
53	Improvement of the enzymatic synthesis of ethyl valerate by esterification reaction in a solvent system. <i>Preparative Biochemistry and Biotechnology</i> , 2017, 47, 100-109.	1.9	21
54	Simultaneous enzymatic hydrolysis and anaerobic biodegradation of lipid-rich wastewater from poultry industry. <i>Applied Water Science</i> , 2013, 3, 343-349.	5.6	20

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55	Regioselective monohydrolysis of per-O-acetylated-1-substituted- β -glucopyranosides catalyzed by immobilized lipases. <i>Tetrahedron</i> , 2008, 64, 10721-10727.	1.9	19
56	Different derivatives of a lipase display different regioselectivity in the monohydrolysis of per-O-acetylated 1-O-substituted- β -galactopyranosides. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 58, 36-40.	1.8	18
57	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.	3.7	18
58	Application of lipase immobilized on a hydrophobic support for the synthesis of aromatic esters. <i>Biotechnology and Applied Biochemistry</i> , 2021, 68, 538-546.	3.1	17
59	Morphological, biochemical and kinetic properties of lipase from <i>Candida rugosa</i> immobilized in zirconium phosphate. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 393-400.	2.0	15
60	Assessment of the Morphological, Biochemical, and Kinetic Properties for <i>Candida rugosa</i> Lipase Immobilized on Hydrous Niobium Oxide to Be Used in the Biodiesel Synthesis. <i>Enzyme Research</i> , 2011, 2011, 1-10.	1.8	15
61	Batch and continuous production of biolubricant from fusel oil and oleic acid: Lipase screening, reactor system development, and reaction optimization. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 168, 108568.	3.6	14
62	Desempenho da matriz híbrida SiO ₂ -quitosana na imobilização da lipase microbiana de <i>Candida rugosa</i> . <i>Química Nova</i> , 2011, 34, 33-38.	0.3	13
63	Kinetic study of soybean oil hydrolysis catalyzed by lipase from solid castor bean seeds. <i>Chemical Engineering Research and Design</i> , 2019, 144, 115-122.	5.6	12
64	Triagem de suportes orgânicos e protocolos de ativação na imobilização e estabilização de lipase de <i>Thermomyces lanuginosus</i> . <i>Química Nova</i> , 2013, 36, 245-251.	0.3	10
65	A novel functionalized SiO ₂ -based support prepared from biomass waste for lipase adsorption. <i>Materials Chemistry and Physics</i> , 2019, 234, 146-150.	4.0	10
66	Produção de concentrados de ácidos graxos por hidrólise de óleos vegetais mediada por lipase vegetal. <i>Química Nova</i> , 2013, 36, 1164-1169.	0.3	7
67	High Lipase Production from <i>Geotrichum candidum</i> in Reduced Time using Cottonseed Oil: Optimization, Easy Purification and Specificity Characterization. <i>Journal of Chemical Engineering Research Updates</i> , 2017, 3, 60-69.	0.1	7
68	<i>Candida rugosa</i> lipase immobilized on hydrophobic support Accurel MP 1000 in the synthesis of emollient esters. <i>Biotechnology Letters</i> , 2022, 44, 89-99.	2.2	6
69	Production and Characterization of Whole-Cell <i>Rhizopus oryzae</i> CCT3759 to be Applied as Biocatalyst in Vegetable Oils Hydrolysis. <i>Catalysis Letters</i> , 2022, 152, 1-11.	2.6	5
70	Decyl oleate production by enzymatic esterification using <i>Geotrichum candidum</i> lipase immobilized on a support prepared from rice husk. <i>Biocatalysis and Agricultural Biotechnology</i> , 2021, 36, 102142.	3.1	5
71	Demographic and clinical characteristics of pulmonary arterial hypertension caused by schistosomiasis are indistinguishable from other etiologies. <i>Revista Da Sociedade Brasileira De Medicina Tropical</i> , 2020, 53, e20190418.	0.9	5
72	Immobilization of <i>Thermomyces lanuginosus</i> lipase via ionic adsorption on superparamagnetic iron oxide nanoparticles: Facile synthesis and improved catalytic performance. <i>Chemical Engineering Journal</i> , 2022, 431, 134128.	12.7	5

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73	Optimization of Enzymatic Synthesis of <i>n</i> -Propyl Acetate (Fruit Flavor Ester) – Effect of the Support on the Properties of Biocatalysts. <i>Chemical Engineering Communications</i> , 2016, 203, 1432-1442.	2.6	4
74	Immobilization and stabilization of d-hydantoinase from <i>Vigna angularis</i> 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.	3.7	4
75	Preparation and Delayed Release Study on Pancreatin Encapsulated into Alginate, Carrageenan and Pectin Hydrogels. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	2
76	Stabilization of water-in-oil emulsions using a wax ester synthesized by a new homemade heterogeneous biocatalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 1726-1735.	3.2	2
77	Biodiesel production in oil biorefinery and by-products utilization. , 2022, , 109-150.		1
78	Atividade e estabilidade operacional de lipase imobilizada em fosfato de zircônio na ausência e presença de polietilenoglicol. <i>Acta Scientiarum - Technology</i> , 2006, 28, .	0.4	0
79	Assessment of carbon nanotube-based materials to preconcentrate metals: kinetic and reusability studies. <i>Journal of Materials Science</i> , 0, , 1.	3.7	0