

Raquel L C Giordano

List of Publications by Year in descending order

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51
papers

1,671
citations

236925

25
h-index

289244

40
g-index

51
all docs

51
docs citations

51
times ranked

1821
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Improving the Properties of Chitosan as Support for the Covalent Multipoint Immobilization of Chymotrypsin. <i>Biomacromolecules</i> , 2008, 9, 2170-2179.	5.4	83
4	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
5	Kinetics of β -lactam antibiotics synthesis by penicillin G acylase (PGA) from the viewpoint of the industrial enzymatic reactor optimization. <i>Biotechnology Advances</i> , 2006, 24, 27-41.	11.7	78
6	Hydrolysis of Proteins by Immobilized-Stabilized Alcalase-Glyoxyl Agarose. <i>Biotechnology Progress</i> , 2003, 19, 352-360.	2.6	67
7	Kinetic model of the hydrolysis of polypeptides catalyzed by Alcalase [®] immobilized on 10% glyoxyl-agarose. <i>Enzyme and Microbial Technology</i> , 2005, 36, 555-564.	3.2	55
8	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
9	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
10	Sequential proteolysis and cellulolytic hydrolysis of soybean hulls for oligopeptides and ethanol production. <i>Industrial Crops and Products</i> , 2014, 61, 202-210.	5.2	52
11	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
12	Immobilization and stabilization of an endoxylanase from <i>Bacillus subtilis</i> (XynA) for xylooligosaccharides (XOs) production. <i>Catalysis Today</i> , 2016, 259, 130-139.	4.4	48
13	Immobilization of trypsin on chitosan gels: Use of different activation protocols and comparison with other supports. <i>International Journal of Biological Macromolecules</i> , 2008, 43, 54-61.	7.5	47
14	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.	3.2	46
15	Evaluation of Strategies to Produce Highly Porous Cross-Linked Aggregates of Porcine Pancreas Lipase with Magnetic Properties. <i>Molecules</i> , 2018, 23, 2993.	3.8	45
16	Immobilization and Stabilization of Xylanase by Multipoint Covalent Attachment on Agarose and on Chitosan Supports. <i>Applied Biochemistry and Biotechnology</i> , 2010, 161, 455-467.	2.9	41
17	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
18	Easily handling penicillin G acylase magnetic cross-linked enzymes aggregates: Catalytic and morphological studies. <i>Process Biochemistry</i> , 2014, 49, 38-46.	3.7	38

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19	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
20	Preparation of Magnetic Cross-Linked Amyloglucosidase Aggregates: Solving Some Activity Problems. <i>Catalysts</i> , 2018, 8, 496.	3.5	32
21	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
22	Immobilization and stabilization of a bimolecular aggregate of the lipase from <i>Pseudomonas fluorescens</i> by multipoint covalent attachment. <i>Process Biochemistry</i> , 2013, 48, 118-123.	3.7	29
23	Preparation of Crosslinked Enzyme Aggregates of a Thermostable Cyclodextrin Glucosyltransferase from <i>Thermoanaerobacter</i> sp. Critical Effect of the Crosslinking Agent. <i>Catalysts</i> , 2019, 9, 120.	3.5	28
24	Enzymatic synthesis of amoxicillin: Avoiding limitations of the mechanistic approach for reaction kinetics. <i>Biotechnology and Bioengineering</i> , 2002, 80, 622-631.	3.3	27
25	1,3-Regiospecific ethanolysis of soybean oil catalyzed by crosslinked porcine pancreas lipase aggregates. <i>Biotechnology Progress</i> , 2018, 34, 910-920.	2.6	27
26	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
27	Selectivity of the enzymatic synthesis of ampicillin by <i>E. coli</i> PGA in the presence of high concentrations of substrates. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 33, 81-86.	1.8	23
28	Repeated batches as a strategy for high 2G ethanol production from undetoxified hemicellulose hydrolysate using immobilized cells of recombinant <i>Saccharomyces cerevisiae</i> in a fixed-bed reactor. <i>Biotechnology for Biofuels</i> , 2020, 13, 85.	6.2	21
29	Improving the Performance of a Continuous Process for the Production of Ethanol from Starch. <i>Applied Biochemistry and Biotechnology</i> , 2009, 156, 76-90.	2.9	19
30	Influence of key variables on the simultaneous isomerization and fermentation (SIF) of xylose by a native <i>Saccharomyces cerevisiae</i> strain co-encapsulated with xylose isomerase for 2G ethanol production. <i>Biomass and Bioenergy</i> , 2018, 119, 277-283.	5.7	19
31	Continuous Production of Ethanol from Starch Using Glucoamylase and Yeast Co-Immobilized in Pectin Gel. <i>Applied Biochemistry and Biotechnology</i> , 2008, 147, 47-61.	2.9	18
32	Design for preparation of more active cross-linked enzyme aggregates of <i>Burkholderia cepacia</i> lipase using palm fiber residue. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 57-66.	3.4	18
33	Xylooligosaccharides production chain in sugarcane biorefineries: From the selection of pretreatment conditions to the evaluation of nutritional properties. <i>Industrial Crops and Products</i> , 2021, 172, 114056.	5.2	18
34	Mono- and heterofunctionalized silica magnetic microparticles (SMMPs) as new carriers for immobilization of lipases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, S491-S499.	1.8	17
35	Study of Biocatalyst to Produce Ethanol from Starch. <i>Applied Biochemistry and Biotechnology</i> , 2000, 84-86, 643-654.	2.9	16
36	Continuous 2G ethanol production from xylose in a fixed-bed reactor by native <i>Saccharomyces cerevisiae</i> strain through simultaneous isomerization and fermentation. <i>Cellulose</i> , 2020, 27, 4429-4442.	4.9	15

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37	Eucalyptus xylan: An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. <i>Carbohydrate Polymers</i> , 2018, 197, 167-173.	10.2	13
38	Synthesis and characterization of robust magnetic carriers for bioprocess applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 193, 217-228.	3.5	12
39	An Innovative Biocatalyst for Continuous 2G Ethanol Production from Xylo-Oligomers by <i>Saccharomyces cerevisiae</i> through Simultaneous Hydrolysis, Isomerization, and Fermentation (SHIF). <i>Catalysts</i> , 2019, 9, 225.	3.5	12
40	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
41	Online filtering of CO ₂ signals from a bioreactor gas outflow using a committee of constructive neural networks. <i>Bioprocess and Biosystems Engineering</i> , 2008, 31, 101-109.	3.4	10
42	Glyoxyl-Activated Agarose as Support for Covalently Link Novo-Pro D: Biocatalysts Performance in the Hydrolysis of Casein. <i>Catalysts</i> , 2020, 10, 466.	3.5	10
43	Artificial neural networks to infer biomass and product concentration during the production of penicillin G acylase from <i>Bacillus megaterium</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 739-749.	3.2	9
44	High stabilization and hyperactivation of a Recombinant $\hat{1}^2$ -Xylosidase through Immobilization Strategies. <i>Enzyme and Microbial Technology</i> , 2021, 145, 109725.	3.2	9
45	Cell Immobilization Using Alginate-Based Beads as a Protective Technique against Stressful Conditions of Hydrolysates for 2G Ethanol Production. <i>Polymers</i> , 2022, 14, 2400.	4.5	9
46	Bioethanol Production from Xylose-Rich Hydrolysate by Immobilized Recombinant <i>Saccharomyces cerevisiae</i> in Fixed-Bed Reactor. <i>Industrial Biotechnology</i> , 2020, 16, 75-80.	0.8	7
47	Development and validation of a simple high performance liquid chromatography \hat{e} evaporative light scattering detector method for direct quantification of native cyclodextrins in a cyclization medium. <i>Journal of Chromatography A</i> , 2015, 1410, 140-146.	3.7	6
48	Kinetic and Mass Transfer Parameters of Maltotriose Hydrolysis Catalyzed by Glucoamylase Immobilized on Macroporous Silica and Wrapped in Pectin Gel. <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 691-702.	2.9	4
49	Hydrophobic Adsorption Followed by Desorption with Ethanol-Water for Recovery of Penicillin G from Fermentation Broth. <i>ACS Omega</i> , 2020, 5, 7316-7325.	3.5	1
50	Improvement of functional properties of cow's milk peptides through partial proteins hydrolysis. <i>Journal of Food Science and Technology</i> , 2022, 59, 4520-4529.	2.8	1
51	Direct recovery of intracellular lipase from cell lysate by adsorption on silica magnetic microparticles activated with Octyl groups. <i>Brazilian Journal of Chemical Engineering</i> , 0, , 1.	1.3	0