

# Gisella Maria Zanin

## List of Publications by Year in descending order

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113  
papers

2,556  
citations

201674

27  
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233421

45  
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114  
all docs

114  
docs citations

114  
times ranked

2753  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization and Utilization of <i>Candida rugosa</i> Lipase Immobilized on Controlled Pore Silica. <i>Applied Biochemistry and Biotechnology</i> , 1999, 79, 745-758.	2.9	169
2	Interaction of Curcumin and Bixin with $\beta$ -Cyclodextrin: Complexation Methods, Stability, and Applications in Food. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 3348-3357.	5.2	158
3	Biodiesel Synthesis by Enzymatic Transesterification of Palm Oil with Ethanol Using Lipases from Several Sources Immobilized on Silica/PVA Composite. <i>Energy &amp; Fuels</i> , 2007, 21, 3689-3694.	5.1	125
4	Kinetic Studies of Lipase from <i>Candida rugosa</i> A Comparative Study Between Free and Immobilized Enzyme onto Porous Chitosan Beads. <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 739-752.	2.9	87
5	Immobilization and catalytic properties of lipase on chitosan for hydrolysis and esterification reactions. <i>Brazilian Journal of Chemical Engineering</i> , 2003, 20, 343-355.	1.3	81
6	Brazilian Bioethanol Program. <i>Applied Biochemistry and Biotechnology</i> , 2000, 84-86, 1147-1162.	2.9	76
7	Characterization of <i>Thermoanaerobacter cyclomaltodextrin</i> glucanotransferase immobilized on glyoxyl-agarose. <i>Enzyme and Microbial Technology</i> , 2006, 39, 1270-1278.	3.2	73
8	Protic ionic liquid as additive on lipase immobilization using silica sol-gel. <i>Enzyme and Microbial Technology</i> , 2013, 52, 141-150.	3.2	70
9	Influence of the alkyl-substituted silane precursor on sol-gel encapsulated lipase activity. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2004, 29, 69-79.	1.8	64
10	Purification of lipase produced by a new source of <i>Bacillus</i> in submerged fermentation using an aqueous two-phase system. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3853-3858.	2.3	59
11	Enzymatic synthesis of monoglycerides by esterification reaction using <i>Penicillium camembertii</i> lipase immobilized on epoxy SiO <sub>2</sub> -PVA composite. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 65, 87-90.	1.8	57
12	The use of 2D NMR to study $\beta$ -cyclodextrin complexation and debittering of amino acids and peptides. <i>Food Research International</i> , 2010, 43, 187-192.	6.2	54
13	Assessing the potential of non-edible oils and residual fat to be used as a feedstock source in the enzymatic ethanolysis reaction. <i>Industrial Crops and Products</i> , 2013, 50, 485-493.	5.2	49
14	Microwave-assisted enzymatic synthesis of beef tallow biodiesel. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 529-536.	3.0	47
15	Enhancement of solubility of albendazole by complexation with $\beta$ -cyclodextrin. <i>Brazilian Journal of Chemical Engineering</i> , 2008, 25, 255-267.	1.3	45
16	Partitioning of Porcine Pancreatic Lipase in a Two-Phase Systems of Polyethylene Glycol/Potassium Phosphate Aqueous. <i>Applied Biochemistry and Biotechnology</i> , 2010, 161, 288-300.	2.9	45
17	Taste modification of amino acids and protein hydrolysate by $\beta$ -cyclodextrin. <i>Food Research International</i> , 2009, 42, 814-818.	6.2	43
18	Characterization and Utilization of <i>Candida rugosa</i> Lipase Immobilized on Controlled Pore Silica. , 1999, , 745-757.		42

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19	Studies on Immobilized Lipase in Hydrophobic Sol-Gel. <i>Applied Biochemistry and Biotechnology</i> , 2004, 113, 307-320.	2.9	39
20	Î²-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
21	Immobilization and stabilization of glucoamylase: Chemical modification of the enzyme surface followed by covalent attachment on highly activated glyoxyl-agarose supports. <i>Process Biochemistry</i> , 2011, 46, 409-412.	3.7	35
22	Characterization of sol-gel encapsulated lipase using tetraethoxysilane as precursor. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2006, 39, 69-76.	1.8	33
23	Covalent Coupling Method for Lipase Immobilization on Controlled Pore Silica in the Presence of Nonenzymatic Proteins. <i>Biotechnology Progress</i> , 2003, 19, 803-807.	2.6	32
24	Optimization studies to develop a low-cost medium for production of the lipases of <i>Rhizopus microsporus</i> by solid-state fermentation and scale-up of the process to a pilot packed-bed bioreactor. <i>Process Biochemistry</i> , 2017, 62, 37-47.	3.7	32
25	Comparison Of Catalytic Properties Of Free And Immobilized Cellobiase Novozym 188. <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 615-626.	2.9	31
26	Immobilization of LipC12, a new lipase obtained by metagenomics, and its application in the synthesis of biodiesel esters. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 116, 45-51.	1.8	30
27	Production and purification of CGTase of alkalophilic <i>Bacillus</i> isolated from Brazilian soil. <i>Applied Biochemistry and Biotechnology</i> , 1998, 70-72, 267-275.	2.9	29
28	Influence of the use of Aliquat 336 in the immobilization procedure in sol-gel of lipase from <i>Bacillus</i> sp. ITP-001. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 84, 152-159.	1.8	29
29	Production of Cyclodextrins in a Fluidized-Bed Reactor Using Cyclodextrin-Glycosyl-Transferase. <i>Applied Biochemistry and Biotechnology</i> , 2000, 84-86, 1003-1020.	2.9	28
30	Production and characterization of a new cyclodextrin glycosyltransferase from <i>Bacillus firmus</i> isolated from Brazilian soil. <i>Process Biochemistry</i> , 2007, 42, 1384-1390.	3.7	28
31	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
32	Characterization of Cyclodextrin Glycosyltransferase from <i>Bacillus firmus</i> Strain No. 37. <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 643-654.	2.9	27
33	Different organic components on silica hybrid matrices modulate the lipase inhibition by the glycerol formed in continuous transesterification reactions. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 462-470.	5.8	27
34	Characterization of free and immobilized invertase regarding activity and energy of activation. <i>Brazilian Journal of Chemical Engineering</i> , 2000, 17, 873-880.	1.3	27
35	Modeling cassava starch saccharification with amyloglucosidase. <i>Applied Biochemistry and Biotechnology</i> , 1996, 57-58, 617-625.	2.9	25
36	Immobilization of porcine pancreatic lipase on celite for application in the synthesis of butyl butyrate in a nonaqueous system. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 1999, 76, 147-152.	1.9	24

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37	β-Cyclodextrin production by simultaneous fermentation and cyclization. Applied Biochemistry and Biotechnology, 1998, 70-72, 789-804.	2.9	23
38	Molecular imprinting of β-cyclodextrin/cholesterol template into a silica polymer for cholesterol separation. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 79-82.	1.6	23
39	Performance of an enzymatic packed bed reactor running on babassu oil to yield fatty ethyl esters (FAEE) in a solvent-free system. Biofuel Research Journal, 2015, 2, 242-247.	13.3	23
40	Production of Insoluble Exopolysaccharide of <i>Agrobacterium</i> sp. (ATCC 31749 and IFO 13140). Applied Biochemistry and Biotechnology, 2006, 131, 864-869.	2.9	20
41	Determination of inhibition in the enzymatic hydrolysis of cellobiose using hybrid neural modeling. Brazilian Journal of Chemical Engineering, 2005, 22, 19-29.	1.3	20
42	Intensification of Lipase Performance for Long-Term Operation by Immobilization on Controlled Pore Silica in Presence of Polyethylene Glycol. Applied Biochemistry and Biotechnology, 2002, 98-100, 863-874.	2.9	19
43	Influence of Substrate and Product Concentrations on the Production of Cyclodextrins by CGTase of <i>Bacillus firmus</i> , Strain no. 37. Applied Biochemistry and Biotechnology, 2002, 98-100, 947-962.	2.9	19
44	Esterification Activity And Stability Of <i>Candida Rugosa</i> Lipase Immobilized Into Chitosan. Applied Biochemistry and Biotechnology, 2002, 98-100, 977-986.	2.9	19
45	Evaluation of Supports and Methods for Immobilization of Enzyme Cyclodextringlycosyltransferase. Applied Biochemistry and Biotechnology, 2003, 108, 809-820.	2.9	19
46	Thermal behavior study and decomposition kinetics of linalool/β-cyclodextrin inclusion complex. Polymer Bulletin, 2016, 73, 279-291.	3.3	19
47	Performance of fixed and fluidized bed reactors with immobilized enzyme. Applied Biochemistry and Biotechnology, 1994, 45-46, 627-640.	2.9	18
48	Modeling Cellobiose Hydrolysis with Integrated Kinetic Models. Applied Biochemistry and Biotechnology, 1999, 79, 789-806.	2.9	18
49	Effects of Triton X-100 and PEG on the Catalytic Properties and Thermal Stability of Lipase from Free and Immobilized on Glyoxyl-Agarose. The Open Biochemistry Journal, 2017, 11, 66-76.	0.5	18
50	Title is missing!. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2002, 44, 383-386.	1.6	17
51	Grafting of cyclodextrins onto filter paper. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2007, 57, 75-78.	1.6	17
52	Sequential Production of Amylolytic and Lipolytic Enzymes by Bacterium Strain Isolated from Petroleum Contaminated Soil. Applied Biochemistry and Biotechnology, 2008, 150, 25-32.	2.9	17
53	Packed-Bed Reactor Running on Babassu Oil and Glycerol to Produce Monoglycerides by Enzymatic Route using Immobilized <i>Burkholderia cepacia</i> Lipase. Applied Biochemistry and Biotechnology, 2010, 161, 372-381.	2.9	17
54	Use of polyethylene glycol in the process of sol-gel encapsulation of <i>Burkholderia cepacia</i> lipase. Journal of Thermal Analysis and Calorimetry, 2014, 117, 301-306.	3.6	17

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55	Parametric study of hydrogen production from ethanol steam reforming in a membrane microreactor. Brazilian Journal of Chemical Engineering, 2013, 30, 355-367.	1.3	16
56	Thermal stability and deactivation energy of free and immobilized invertase. Brazilian Journal of Chemical Engineering, 2000, 17, 867-872.	1.3	16
57	Selection of Stabilizing Additive for Lipase Immobilization on Controlled Pore Silica by Factorial Design. Applied Biochemistry and Biotechnology, 2001, 91-93, 703-718.	2.9	15
58	Methods and Supports for Immobilization and Stabilization of Cyclomalto-dextrin Glucanotransferase from Thermoanaerobacter. Applied Biochemistry and Biotechnology, 2008, 146, 189-201.	2.9	15
59	Utilization of immobilized lipases as catalysts in the transesterification of non-edible vegetable oils with ethanol. Brazilian Journal of Chemical Engineering, 2014, 31, 839-847.	1.3	15
60	NMR characterization of the role of silane precursors on the catalytic activity of sol-gel encapsulated lipase. Journal of Non-Crystalline Solids, 2006, 352, 3469-3477.	3.1	13
61	Enrofloxacin inclusion complexes with cyclodextrins. Journal of Inclusion Phenomena and Macrocylic Chemistry, 2012, 73, 219-224.	1.6	13
62	Kinetic Studies of Lipase from Candida rugosa. , 2001, , 739-752.		13
63	Enzymatic extraction of protein from toasted and not toasted soybean meal. Procedia Food Science, 2011, 1, 463-469.	0.6	12
64	Production of Cyclodextrins from Cornstarch Granules in a Sequential Batch Mode and in the Presence of Ethanol. Applied Biochemistry and Biotechnology, 2011, 165, 1485-1493.	2.9	12
65	Biomass Production and Ester Synthesis by <i>In Situ</i> Transesterification/Esterification Using the Microalga <i>Spirulina platensis</i> . International Journal of Chemical Engineering, 2013, 2013, 1-7.	2.4	12
66	Coupling of glucose oxidase and Fenton's reaction for a simple and inexpensive assay of $\beta$ -glucosidase. Enzyme and Microbial Technology, 1985, 7, 449-453.	3.2	10
67	Stability of immobilized amyloglucosidase in the process of cassava starch saccharification. Applied Biochemistry and Biotechnology, 1995, 51-52, 253-262.	2.9	10
68	Enhancement of Selectivity for Producing $\beta$ -Cyclodextrin. Applied Biochemistry and Biotechnology, 2000, 84-86, 955-962.	2.9	10
69	Characterization of Sol-Gel Bioencapsulates for Ester Hydrolysis and Synthesis. Applied Biochemistry and Biotechnology, 2005, 123, 0845-0860.	2.9	9
70	Sulfluramid Volatility Reduction by $\beta$ -Cyclodextrin. Journal of Agricultural and Food Chemistry, 2005, 53, 1139-1143.	5.2	9
71	Synthesis of flavor esters and structured lipids by a new immobilized lipase, LipC12, obtained from metagenomics. Biocatalysis and Agricultural Biotechnology, 2016, 8, 294-300.	3.1	9
72	Interaction of peptides obtained from the enzymatic hydrolysis of soybean meal with cyclodextrins: an evaluation of bitterness reduction. Journal of Inclusion Phenomena and Macrocylic Chemistry, 2017, 89, 59-69.	1.6	9

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73	Axial dispersion in a liquid fluidized bed of particles akin to immobilized enzymes. <i>Applied Biochemistry and Biotechnology</i> , 1993, 39-40, 477-489.	2.9	8
74	Influence of gelation time on the morphological and physico-chemical properties of the sol-gel entrapped lipase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2008, 52-53, 27-33.	1.8	8
75	Evaluation of activity of <i>Bacillus</i> lipase (free and immobilized) treated with compressed propane. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 99, 130-135.	1.8	8
76	Thermal stability and energy of deactivation of free and immobilized cellobiase. <i>Brazilian Journal of Chemical Engineering</i> , 2000, 17, 841-848.	1.3	8
77	A comparative study on fungal laccases immobilized on chitosan. <i>Brazilian Archives of Biology and Technology</i> , 2005, 48, 1-6.	0.5	7
78	Response Surface Methodology as an Approach to Determine Optimal Activities of Lipase Entrapped in Sol-Gel Matrix Using Different Vegetable Oils. <i>Applied Biochemistry and Biotechnology</i> , 2008, 146, 203-214.	2.9	6
79	Characterization of Biocatalysts Prepared with <i>Thermomyces lanuginosus</i> Lipase and Different Silica Precursors, Dried using Aerogel and Xerogel Techniques. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 263-274.	2.9	6
80	Influence of the chain length of the fatty acids present in different oils and the pore diameter of the support on the catalytic activity of immobilized lipase for ethyl ester production. <i>Brazilian Journal of Chemical Engineering</i> , 2021, 38, 511-522.	1.3	6
81	Preparation of silica with controlled pore sizes for enzyme immobilization. <i>Brazilian Journal of Chemical Engineering</i> , 2000, 17, 71-77.	1.3	6
82	Modeling fixed and fluidized reactors for cassava starch saccharification with immobilized enzyme. <i>Applied Biochemistry and Biotechnology</i> , 1997, 63-65, 527-540.	2.9	5
83	Bleaching of Kraft Pulp with Commercial Xylanases. <i>Applied Biochemistry and Biotechnology</i> , 1999, 79, 713-722.	2.9	5
84	Determination of the inclusion complex constant between oleuropein and cyclodextrins by complexation theory. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 78, 465-470.	1.6	5
85	Synthesis of SBA-15 and pore-expanded SBA-15 and surface modification with tin for covalent lipase immobilization. <i>Microporous and Mesoporous Materials</i> , 2022, 337, 111951.	4.4	5
86	Interaction between hydrogen peroxide and ferrous sulfate as a basis for glucose determinations. <i>Biotechnology Letters</i> , 1985, 7, 197-202.	2.2	4
87	Modeling Cassava Starch Saccharification with Amyloglucosidase. , 1996, , 617-625.		4
88	Molecular inclusion of butylated hydroxyanisole (BHA) into alpha and beta cyclodextrins. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011, 71, 179-187.	1.6	4
89	Production of the Enzyme Cyclodextrin-glycosyltransferase from <i>Bacillus firmus</i> Alkalophilic. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2002, 44, 399-402.	1.6	3
90	Kinetics of the simultaneous production of b- and g-cyclodextrins catalyzed by CGTase from alkalophilic <i>Bacillus</i> sp. - doi: 10.4025/actascitechnol.v35i4.13944. <i>Acta Scientiarum - Technology</i> , 2013, 35, .	0.4	2

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91	Influence of culture medium pH on the production of CGTase by <i>Bacillus firmus</i> ; Strain No. 37 - doi: 10.4025/actascitechnol.v35i3.15882. Acta Scientiarum - Technology, 2013, 35, .	0.4	2
92	Characterization of Free and Immobilized <i>Thermomyces lanuginosus</i> Lipase for Use in Transesterification Reactions. Industrial Biotechnology, 2014, 10, 305-309.	0.8	2
93	Determination of the Association Constant of Alpha and Beta Cyclodextrins Using Methyl Orange. Industrial Biotechnology, 2016, 12, 317-322.	0.8	2
94	Enhancement of lipase transesterification activity by immobilization on "cyclodextrin-based polymer. Journal of Sol-Gel Science and Technology, 2019, 91, 92-100.	2.4	2
95	Influência do tamanho das partículas na solubilização do enzima proteolítica da farelo de soja. Acta Scientiarum - Technology, 2009, 31, .	0.4	1
96	Modeling, simulation, and analysis of a soybean meal desolventizing equipment. Journal of Food Process Engineering, 2019, 42, e13031.	2.9	1
97	Batch CGTase Production with Free and Immobilized <i>Bacillus firmus</i> ; Strain 37 in Bovine Bone Charcoal. Advances in Chemical Engineering and Science, 2021, 11, 91-104.	0.5	1
98	Thermal Stability and Energy of Deactivation of Free and Immobilized Amyloglucosidase in the Saccharification or Liquefied Cassava Starch. , 1998, , 383-394.		1
99	Enzyme Catalysis and Engineering. Applied Biochemistry and Biotechnology, 2005, 121, 0083-0084.	2.9	0
100	Session 6: Advances in Enzyme Science and Technology. Applied Biochemistry and Biotechnology, 2009, 154, 123-124.	2.9	0
101	Agricultural recycling of biodigested vinasse for lettuce production. Revista Ambiente & Água, 2014, 9, .	0.3	0
102	Production of Cyclodextrins in a Fluidized-Bed Reactor Using Cyclodextrin-Glycosyl-Transferase. , 2000, , 1003-1019.		0
103	Comparison of Catalytic Properties of Free and Immobilized Cellobiase Novozym 188. , 2001, , 615-626.		0
104	Esterification Activity and Stability of <i>Candida rugosa</i> Lipase Immobilized into Chitosan. , 2002, , 977-986.		0
105	Intensification of Lipase Performance for Long-Term Operation by Immobilization on Controlled Pore Silica in Presence of Polyethylene Glycol. , 2002, , 863-874.		0
106	Evaluation of Supports and Methods for Immobilization of Enzyme Cyclodextringlycosyltransferase. , 2003, , 809-819.		0
107	Studies on Immobilized Lipase in Hydrophobic Sol-Gel. , 2004, , 307-319.		0
108	Characterization of Sol-Gel Bioencapsulates for Ester Hydrolysis and Synthesis. , 2005, , 845-859.		0

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109	Methods and Supports for Immobilization and Stabilization of Cyclomaltodextrin Glucanotransferase from <i>Thermoanaerobacter</i> . , 2007, , 309-321.		0
110	Production of insoluble exopolysaccharide of <i>Agrobacterium</i> sp. (ATCC 31749 and IFO 13140). <i>Applied Biochemistry and Biotechnology</i> , 1996, 131, 864-869.	2.9	0
111	Modeling Fixed and Fluidized Reactors for Cassava Starch Saccharification with Immobilized Enzyme. , 1997, , 527-540.		0
112	Modeling Cellobiose Hydrolysis with Integrated Kinetic Models. , 1999, , 789-806.		0
113	Preparation and Characterization of Inclusion Complexes of Cyclodextrins and Tuberculosis Primary Treatment Drugs. , 1999, , 463-466.		0