

# Paulo W Tardioli

## List of Publications by Year in descending order

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95  
papers

2,568  
citations

147566

31  
h-index

243296

44  
g-index

99  
all docs

99  
docs citations

99  
times ranked

2612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Finding stable cellulase and xylanase: evaluation of the synergistic effect of pH and temperature. <i>New Biotechnology</i> , 2010, 27, 810-815.	2.4	95
2	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. <i>Renewable Energy</i> , 2021, 164, 1566-1587.	4.3	88
3	Enzyme production of $\alpha$ -gluconic acid and glucose oxidase: successful tales of cascade reactions. <i>Catalysis Science and Technology</i> , 2020, 10, 5740-5771.	2.1	80
4	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.	1.4	79
5	Characterization of <i>Thermoanaerobacter cyclomaltodextrin</i> gluconotransferase immobilized on glyoxyl-agarose. <i>Enzyme and Microbial Technology</i> , 2006, 39, 1270-1278.	1.6	73
6	Hydrolysis of Proteins by Immobilized-Stabilized Alcalase-Glyoxyl Agarose. <i>Biotechnology Progress</i> , 2003, 19, 352-360.	1.3	67
7	Enhanced saccharification of sugarcane bagasse using soluble cellulase supplemented with immobilized $\beta$ -glucosidase. <i>Bioresource Technology</i> , 2014, 167, 206-213.	4.8	64
8	Replacing hexane by ethanol for soybean oil extraction: Modeling, simulation, and techno-economic-environmental analysis. <i>Journal of Cleaner Production</i> , 2020, 244, 118660.	4.6	57
9	Kinetic model of the hydrolysis of polypeptides catalyzed by Alcalase <sup>®</sup> immobilized on 10% glyoxyl-agarose. <i>Enzyme and Microbial Technology</i> , 2005, 36, 555-564.	1.6	55
10	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.	1.4	55
11	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.	1.8	54
12	Preparation, functionalization and characterization of rice husk silica for lipase immobilization via adsorption. <i>Enzyme and Microbial Technology</i> , 2019, 128, 9-21.	1.6	54
13	Sequential proteolysis and cellulolytic hydrolysis of soybean hulls for oligopeptides and ethanol production. <i>Industrial Crops and Products</i> , 2014, 61, 202-210.	2.5	52
14	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.	2.0	51
15	Design of New Immobilized-Stabilized Carboxypeptidase A Derivative for Production of Aromatic Free Hydrolysates of Proteins. <i>Biotechnology Progress</i> , 2003, 19, 565-574.	1.3	50
16	Kinetic model for whey protein hydrolysis by alcalase multipoint-immobilized on agarose gel particles. <i>Brazilian Journal of Chemical Engineering</i> , 2004, 21, 147-153.	0.7	50
17	Production efficiency versus thermostability of (hemi)cellulolytic enzymatic cocktails from different cultivation systems. <i>Process Biochemistry</i> , 2015, 50, 1701-1709.	1.8	49
18	Immobilization and stabilization of an endoxylanase from <i>Bacillus subtilis</i> (XynA) for xylooligosaccharides (XOs) production. <i>Catalysis Today</i> , 2016, 259, 130-139.	2.2	48

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19	Production of cellulases by solid state fermentation using natural and pretreated sugarcane bagasse with different fungi. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 17, 1-6.	1.5	46
20	Evaluation of Strategies to Produce Highly Porous Cross-Linked Aggregates of Porcine Pancreas Lipase with Magnetic Properties. <i>Molecules</i> , 2018, 23, 2993.	1.7	45
21	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.	1.4	41
22	Modulation of the regioselectivity of <i>Thermomyces lanuginosus</i> lipase via biocatalyst engineering for the Ethanolysis of oil in fully anhydrous medium. <i>BMC Biotechnology</i> , 2017, 17, 88.	1.7	41
23	Lipase-Catalyzed Production of Biodiesel by Hydrolysis of Waste Cooking Oil Followed by Esterification of Free Fatty Acids. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2016, 93, 1615-1624.	0.8	40
24	Hydrolysis of lactose in whole milk catalyzed by $\beta$ -galactosidase from <i>Kluyveromyces fragilis</i> immobilized on chitosan-based matrix. <i>Biochemical Engineering Journal</i> , 2013, 81, 54-64.	1.8	38
25	Immobilization of Eversa <sup>®</sup> Transform via CLEA Technology Converts It in a Suitable Biocatalyst for Biolubricant Production Using Waste Cooking Oil. <i>Molecules</i> , 2021, 26, 193.	1.7	36
26	$\beta$ -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
27	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.	1.8	35
28	Biocatalyst engineering of <i>Thermomyces Lanuginosus</i> lipase adsorbed on hydrophobic supports: Modulation of enzyme properties for ethanolysis of oil in solvent-free systems. <i>Journal of Biotechnology</i> , 2019, 289, 126-134.	1.9	35
29	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.	1.7	34
30	Addition of metal ions to a (hemi)cellulolytic enzymatic cocktail produced in-house improves its activity, thermostability, and efficiency in the saccharification of pretreated sugarcane bagasse. <i>New Biotechnology</i> , 2016, 33, 331-337.	2.4	32
31	Preparation of Magnetic Cross-Linked Amyloglucosidase Aggregates: Solving Some Activity Problems. <i>Catalysts</i> , 2018, 8, 496.	1.6	32
32	Nanoimmobilization of $\beta$ -glucosidase onto hydroxyapatite. <i>International Journal of Biological Macromolecules</i> , 2018, 119, 1042-1051.	3.6	32
33	Improving the Yields and Reaction Rate in the Ethanolysis of Soybean Oil by Using Mixtures of Lipase CLEAs. <i>Molecules</i> , 2019, 24, 4392.	1.7	32
34	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.	1.7	31
35	Gluconic acid production from sucrose in an airlift reactor using a multi-enzyme system. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 671-680.	1.7	30
36	Possibilities for Producing Energy, Fuels, and Chemicals from Soybean: A Biorefinery Concept. <i>Waste and Biomass Valorization</i> , 2018, 9, 1703-1730.	1.8	30

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37	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.	1.8	29
38	Combi-CLEAs of Glucose Oxidase and Catalase for Conversion of Glucose to Gluconic Acid Eliminating the Hydrogen Peroxide to Maintain Enzyme Activity in a Bubble Column Reactor. <i>Catalysts</i> , 2019, 9, 657.	1.6	29
39	Production of Cyclodextrins in a Fluidized-Bed Reactor Using Cyclodextrin-Glycosyl-Transferase. <i>Applied Biochemistry and Biotechnology</i> , 2000, 84-86, 1003-1020.	1.4	28
40	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
41	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.	1.6	28
42	Diffusion effects of bovine serum albumin on cross-linked aggregates of catalase. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 133, 107-116.	1.8	27
43	1,3-Regiospecific ethanolysis of soybean oil catalyzed by crosslinked porcine pancreas lipase aggregates. <i>Biotechnology Progress</i> , 2018, 34, 910-920.	1.3	27
44	Maltose Production Using Starch from Cassava Bagasse Catalyzed by Cross-Linked $\beta$ -Amylase Aggregates. <i>Catalysts</i> , 2018, 8, 170.	1.6	27
45	Phytase Immobilization on Hydroxyapatite Nanoparticles Improves Its Properties for Use in Animal Feed. <i>Applied Biochemistry and Biotechnology</i> , 2020, 190, 270-292.	1.4	27
46	Distribution of suspended particles in a Taylor-Poiseuille vortex flow reactor. <i>Chemical Engineering Science</i> , 2001, 56, 755-761.	1.9	26
47	Characterization of $\beta$ -Glucosidase Produced by <i>Aspergillus niger</i> under Solid-State Fermentation and Partially Purified Using MANAE-Agarose. <i>Biotechnology Research International</i> , 2014, 2014, 1-8.	1.4	25
48	Alkaline pretreatment for practicable production of ethanol and xylooligosaccharides. <i>Bioethanol</i> , 2016, 2, .	1.2	25
49	Valorization of Palm Oil Industrial Waste as Feedstock for Lipase Production. <i>Applied Biochemistry and Biotechnology</i> , 2016, 179, 558-571.	1.4	25
50	Preparation of ion-exchange supports via activation of epoxy-SiO <sub>2</sub> 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.	3.6	23
51	Hydroxyapatite-CoFe <sub>2</sub> O <sub>4</sub> Magnetic Nanoparticle Composites for Industrial Enzyme Immobilization, Use, and Recovery. <i>ACS Applied Nano Materials</i> , 2020, 3, 12334-12345.	2.4	22
52	Hydroxyapatite nanoparticles modified with metal ions for xylanase immobilization. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 344-353.	3.6	22
53	Composites of Crosslinked Aggregates of Eversa® Transform and Magnetic Nanoparticles. Performance in the Ethanolysis of Soybean Oil. <i>Catalysts</i> , 2020, 10, 817.	1.6	19
54	Porcine pancreatic lipase hydrophobically adsorbed on octyl-silica: A robust biocatalyst for syntheses of xylose fatty acid esters. <i>Biocatalysis and Biotransformation</i> , 2017, 35, 298-305.	1.1	18

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55	Effects of Triton X-100 and PEG on the Catalytic Properties and Thermal Stability of Lipase from Free and Immobilized on Glyoxyl-Agarose. <i>The Open Biochemistry Journal</i> , 2017, 11, 66-76.	0.3	18
56	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.	1.7	18
57	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.	2.5	18
58	Enzymatic Synthesis of Fatty Acid Isoamyl Monoesters from Soybean Oil Deodorizer Distillate: A Renewable and Ecofriendly Base Stock for Lubricant Industries. <i>Molecules</i> , 2022, 27, 2692.	1.7	18
59	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
60	Combined CLEAs of invertase and soy protein for economically feasible conversion of sucrose in a fed-batch reactor. <i>Food and Bioprocess Processing</i> , 2018, 110, 145-157.	1.8	17
61	Optimization of simultaneous saccharification and isomerization of dextrin to high fructose syrup using a mixture of immobilized amyloglucosidase and glucose isomerase. <i>Catalysis Today</i> , 2021, 362, 175-183.	2.2	16
62	Methods and Supports for Immobilization and Stabilization of Cyclomaltodextrin Glucanotransferase from <i>Thermoanaerobacter</i> . <i>Applied Biochemistry and Biotechnology</i> , 2008, 146, 189-201.	1.4	15
63	<i>Eucalyptus xylan</i> : An in-house-produced substrate for xylanase evaluation to substitute birchwood xylan. <i>Carbohydrate Polymers</i> , 2018, 197, 167-173.	5.1	13
64	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.	1.7	12
65	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.	1.6	12
66	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.	2.7	12
67	A review on the production and recovery of sugars from lignocellulosics for use in the synthesis of bioproducts. <i>Industrial Crops and Products</i> , 2022, 186, 115213.	2.5	12
68	Reviewing research on the synthesis of CALB-catalyzed sugar esters incorporating systematic mapping principles. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 865-878.	5.1	11
69	Lipozyme 435-Mediated Synthesis of Xylose Oleate in Methyl Ethyl Ketone. <i>Molecules</i> , 2021, 26, 3317.	1.7	11
70	Glyoxyl-Activated Agarose as Support for Covalently Link Novo-Pro D: Biocatalysts Performance in the Hydrolysis of Casein. <i>Catalysts</i> , 2020, 10, 466.	1.6	10
71	Stabilization and operational selectivity alteration of Lipozyme 435 by its coating with polyethyleneimine: Comparison of the biocatalyst performance in the synthesis of xylose fatty esters. <i>International Journal of Biological Macromolecules</i> , 2021, 192, 665-674.	3.6	10
72	Stabilization of immobilized lipases by treatment with metallic phosphate salts. <i>International Journal of Biological Macromolecules</i> , 2022, 213, 43-54.	3.6	10

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73	High stabilization and hyperactivation of a Recombinant $\beta$ -Xylosidase through Immobilization Strategies. <i>Enzyme and Microbial Technology</i> , 2021, 145, 109725.	1.6	9
74	Production of Whole-Cell Lipase from <i>Streptomyces clavuligerus</i> in a Bench-Scale Bioreactor and Its First Evaluation as Biocatalyst for Synthesis in Organic Medium. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 218-240.	1.4	8
75	Performance of Liquid Eversa on Fatty Acid Ethyl Esters Production by Simultaneous Esterification/Transesterification of Low-to-High Acidity Feedstocks. <i>Catalysts</i> , 2021, 11, 1486.	1.6	8
76	Tuning Immobilized Commercial Lipase Preparations Features by Simple Treatment with Metallic Phosphate Salts. <i>Molecules</i> , 2022, 27, 4486.	1.7	8
77	Stabilization of Glycosylated $\beta$ -Glucosidase by Intramolecular Crosslinking Between Oxidized Glycosidic Chains and Lysine Residues. <i>Applied Biochemistry and Biotechnology</i> , 2020, 192, 325-337.	1.4	7
78	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.	0.5	7
79	Amino acids yields during proteolysis catalyzed by carboxypeptidase A are strongly dependent on substrate pre-hydrolysis. <i>Biochemical Engineering Journal</i> , 2008, 39, 328-337.	1.8	6
80	Development and validation of a simple high performance liquid chromatography $\mu$ -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.	1.8	6
81	Recovery of starch from cassava bagasse for cyclodextrin production by sequential treatment with $\alpha$ -amylase and cyclodextrin glycosyltransferase. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 22, 101411.	1.5	5
82	Assessing energetic and available fuel demands from a soybean biorefinery producing refined oil, biodiesel, defatted meal and power. <i>Computers and Chemical Engineering</i> , 2017, 104, 259-270.	2.0	4
83	Mathematical modeling of enzymatic syntheses of biosurfactants catalyzed by immobilized lipases. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 130, 699-712.	0.8	4
84	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.	1.8	4
85	Glutaraldehyde-crosslinked cells from <i>Aspergillus oryzae</i> IPT-301 for high transfructosylation activity: optimization of the immobilization variables, characterization and operational stability. <i>Brazilian Journal of Chemical Engineering</i> , 2021, 38, 273-285.	0.7	4
86	Modelling and Analysis of a Soybean Biorefinery for the Production of Refined Oil, Biodiesel and Different Types of Flours. <i>Computer Aided Chemical Engineering</i> , 2016, 38, 925-930.	0.3	2
87	Hydrophobic immobilization of <i>Burkholderia cepacia</i> lipase onto octyl-silica for synthesis of flavors esters. <i>Brazilian Journal of Development</i> , 2020, 6, 27145-27170.	0.0	1
88	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.	1.4	1
89	Immobilization and stabilization of d-hydantoinase for production of N-carbamoyl-d-phenylglycine. <i>New Biotechnology</i> , 2009, 25, S164.	2.4	0
90	Comparison of reversible and irreversible immobilization methods of cellobiase on agarose matrix. <i>New Biotechnology</i> , 2009, 25, S169.	2.4	0

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91	Mathematical modeling of enzymatic hydrolysis of soybean meal protein concentrate. Chemical Engineering Communications, 0, , 1-13.	1.5	0
92	Production of Cyclodextrins in a Fluidized-Bed Reactor Using Cyclodextrin-Glycosyl-Transferase. , 2000, , 1003-1019.		0
93	Methods and Supports for Immobilization and Stabilization of Cyclomaltodextrin Glucanotransferase from Thermoanaerobacter. , 2007, , 309-321.		0
94	ESTUDO COMPARATIVO DA TERMOESTABILIDADE DE ENZIMAS PRODUZIDAS POR FUNGOS FILAMENTOSOS EM CULTIVO SUBMERSO E COMBINADO. , 0, , .		0
95	Valorization of soybean oil residue through advanced technology of graphene oxide modified membranes for tocopherol recovery. Canadian Journal of Chemical Engineering, 2022, 100, 3736-3749.	0.9	0