

Maria Alice Z Coelho

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2784645/publications.pdf>

Version: 2024-02-01

115
papers

4,089
citations

117625

34
h-index

133252

59
g-index

122
all docs

122
docs citations

122
times ranked

5066
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic Modeling of the Post-consumer Poly(Ethylene Terephthalate) Hydrolysis Catalyzed by Cutinase from <i>Humicola insolens</i> . <i>Journal of Polymers and the Environment</i> , 2022, 30, 1627-1637.	5.0	14
2	Applicability of mesoporous silica type SBA-15 as feasible support for the immobilization of <i>Yarrowia lipolytica</i> lipase and <i>Candida antarctica</i> lipase B. <i>Brazilian Journal of Chemical Engineering</i> , 2022, 39, 1013-1021.	1.3	4
3	A Temporal Evolution Perspective of Lipase Production by <i>Yarrowia lipolytica</i> in Solid-State Fermentation. <i>Processes</i> , 2022, 10, 381.	2.8	8
4	Two-waste culture medium to produce 1,3-propanediol through a wild <i>Clostridium butyricum</i> strain. <i>Fuel</i> , 2022, 322, 124202.	6.4	9
5	In situ product recovery techniques aiming to obtain biotechnological products: A glance to current knowledge. <i>Biotechnology and Applied Biochemistry</i> , 2021, 68, 1044-1057.	3.1	16
6	Combination of enzyme-assisted extraction and high hydrostatic pressure for phenolic compounds recovery from grape pomace. <i>Journal of Food Engineering</i> , 2021, 288, 110128.	5.2	52
7	Technological features of <i>Saccharomyces cerevisiae</i> var. <i>boulardii</i> for potential probiotic wheat beer development. <i>LWT - Food Science and Technology</i> , 2021, 135, 110233.	5.2	16
8	Insights into media supplementation in solid-state fermentation of soybean hulls by <i>Yarrowia lipolytica</i> : Impact on lipase production in tray and insulated packed-bed bioreactors. <i>Biochemical Engineering Journal</i> , 2021, 166, 107866.	3.6	9
9	Process strategies to improve biocatalytic depolymerization of post-consumer PET packages in bioreactors, and investigation on consumables cost reduction. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 507-516.	3.4	15
10	A critical view on the technology readiness level (TRL) of microbial plastics biodegradation. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 116.	3.6	16
11	Improved production of biocatalysts by <i>Yarrowia lipolytica</i> using natural sources of the biopolyesters cutin and suberin, and their application in hydrolysis of poly (ethylene terephthalate) (PET). <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 2277-2287.	3.4	4
12	Chemoenzymatic depolymerization of industrial and assorted post-consumer poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Technology and Biotechnology, 2021, 96, 3237-3244.	3.2	13
13	Experimental and mathematical modeling approaches for biocatalytic post-consumer poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 3	3.8	9
14	Biological Approaches for Extraction of Bioactive Compounds From Agro-industrial By-products: A Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 802543.	4.1	39
15	Low-cost medium for 1,3-propanediol production from crude glycerol by <i>Clostridium butyricum</i> . <i>Biofuels, Bioproducts and Biorefining</i> , 2020, 14, 1125-1134.	3.7	12
16	Enzyme-assisted extraction of carotenoids and phenolic compounds from sunflower wastes using green solvents. <i>3 Biotech</i> , 2020, 10, 405.	2.2	19
17	Investigation of mitochondrial protein expression profiles of <i>Yarrowia lipolytica</i> in response to citric acid production. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1703-1715.	3.4	6
18	Construction of wild-type <i>Yarrowia lipolytica</i> IMUFRJ 50682 auxotrophic mutants using dual CRISPR/Cas9 strategy for novel biotechnological approaches. <i>Enzyme and Microbial Technology</i> , 2020, 140, 109621.	3.2	5

#	ARTICLE	IF	CITATIONS
19	Yarrowia lipolytica Adhesion and Immobilization onto Residual Plastics. <i>Polymers</i> , 2020, 12, 649.	4.5	8
20	Supplementation of watermelon peels as an enhancer of lipase and esterase production by Yarrowia lipolytica in solid-state fermentation and their potential use as biocatalysts in poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf50 697 T	10.0	10
21	Poly(ethylene terephthalate) (PET) degradation by Yarrowia lipolytica: Investigations on cell growth, enzyme production and monomers consumption. <i>Process Biochemistry</i> , 2020, 95, 81-90.	3.7	47
22	Butanol production by Clostridium pasteurianum NRRL-598 using corn steep liquor as nutrient source. <i>Brazilian Journal of Development</i> , 2020, 6, 45399-45404.	0.1	0
23	Influence of Betaine- and Choline-based Eutectic Solvents on Lipase Activity. <i>Current Biochemical Engineering</i> , 2019, 5, 57-68.	1.3	7
24	Growth Parameters and Survivability of Saccharomyces boulardii for Probiotic Alcoholic Beverages Development. <i>Frontiers in Microbiology</i> , 2019, 10, 2092.	3.5	22
25	Characterization and Application of Yarrowia lipolytica Lipase Obtained by Solid-State Fermentation in the Synthesis of Different Esters Used in the Food Industry. <i>Applied Biochemistry and Biotechnology</i> , 2019, 189, 933-959.	2.9	21
26	Biocatalytic esterification of fatty acids using a low-cost fermented solid from solid-state fermentation with Yarrowia lipolytica. <i>3 Biotech</i> , 2019, 9, 38.	2.2	9
27	Culture Miniaturization of Lipase Production by Yarrowia lipolytica. <i>Current Biochemical Engineering</i> , 2019, 5, 12-20.	1.3	4
28	A novel osmotic pressure strategy to improve erythritol production by Yarrowia lipolytica from glycerol. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 1883-1886.	3.4	16
29	Optimization of lipase production by Aspergillus ibericus from oil cakes and its application in esterification reactions. <i>Food and Bioprocess Processing</i> , 2017, 102, 268-277.	3.6	52
30	Development of nutrient media to increase the accumulation of lipids without genetic modification of a lipogenic microorganism. <i>RSC Advances</i> , 2017, 7, 38149-38154.	3.6	4
31	Adding Value to Agro-industrial Co-products from Canola and Soybean Oil Extraction Through Lipase Production Using Yarrowia lipolytica in Solid-State Fermentation. <i>Waste and Biomass Valorization</i> , 2017, 8, 1163-1176.	3.4	20
32	NITROGEN SOURCES ON TPOMW VALORIZATION THROUGH SOLID STATE FERMENTATION PERFORMED BY Yarrowia lipolytica. <i>Brazilian Journal of Chemical Engineering</i> , 2016, 33, 261-270.	1.3	23
33	Evaluation of the performance of differently immobilized recombinant lipase B from Candida antarctica preparations for the synthesis of pharmacological derivatives in organic media. <i>RSC Advances</i> , 2016, 6, 4043-4052.	3.6	26
34	Accurel MP 1000 as a support for the immobilization of lipase from Burkholderia cepacia : Application to the kinetic resolution of myo -inositol derivatives. <i>Process Biochemistry</i> , 2015, 50, 1557-1564.	3.7	81
35	Menthol-based Eutectic Mixtures: Hydrophobic Low Viscosity Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 2469-2477.	6.7	420
36	Use of micellar extraction and cloud point preconcentration for valorization of saponins from sisal (Agave sisalana) waste. <i>Food and Bioprocess Processing</i> , 2015, 94, 601-609.	3.6	21

#	ARTICLE	IF	CITATIONS
37	Lipase from <i>Yarrowia lipolytica</i> : Production, characterization and application as an industrial biocatalyst. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2014, 101, 148-158.	1.8	78
38	Recovery of Saponins from <i>Jua</i> (<i>Ziziphus joazeiro</i>) by Micellar Extraction and Cloud Point Preconcentration. <i>Journal of Surfactants and Detergents</i> , 2014, 17, 553-561.	2.1	11
39	Toxicity of ionic liquids toward microorganisms interesting to the food industry. <i>RSC Advances</i> , 2014, 4, 37157-37163.	3.6	64
40	Extraction of saponins from sisal (<i>Agave sisalana</i>) and <i>juã</i> (<i>Ziziphus joazeiro</i>) with cholinium-based ionic liquids and deep eutectic solvents. <i>European Food Research and Technology</i> , 2013, 237, 965-975.	3.3	46
41	Functional properties of saponins from sisal (<i>Agave sisalana</i>) and <i>juã</i> (<i>Ziziphus joazeiro</i>): Critical micellar concentration, antioxidant and antimicrobial activities. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 736-743.	4.7	67
42	Ionic Liquids as Additives for Extraction of Saponins and Polyphenols from Mate (<i>Ilex paraguariensis</i>) and Tea (<i>Camellia sinensis</i>). <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 12146-12153.	3.7	52
43	Olive oil and lemon salad dressing microencapsulated by freeze-drying. <i>LWT - Food Science and Technology</i> , 2013, 50, 569-574.	5.2	39
44	Kinetic resolution of a precursor for myo-inositol phosphates under continuous flow conditions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 87, 139-143.	1.8	22
45	Optimizaci3n de la Concentraci3n de L-Ciste3na para la producci3n de 1,3-Propanodiol por una v3a Biotecnol3gica. <i>Informacion Tecnologica (discontinued)</i> , 2013, 24, 43-50.	0.3	5
46	Application of foam column as green technology for concentration of saponins from sisal (<i>Agave</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	7
47	Enzyme-Enhanced Extraction of Phenolic Compounds and Proteins from Flaxseed Meal. <i>ISRN Biotechnology</i> , 2013, 2013, 1-6.	1.9	15
48	Factors influencing crude oil biodegradation by <i>Yarrowia lipolytica</i> . <i>Brazilian Archives of Biology and Technology</i> , 2012, 55, 785-791.	0.5	12
49	Kinetic Resolution of 1,3,6-Tri-O-benzyl-myo-Inositol by Novozym 435: Optimization and Enzyme Reuse. <i>Organic Process Research and Development</i> , 2012, 16, 1378-1384.	2.7	26
50	Green coconut fiber: a novel carrier for the immobilization of commercial laccase by covalent attachment for textile dyes decolorization. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 2827-2838.	3.6	68
51	Renewable resources for biosurfactant production by <i>Yarrowia lipolytica</i> . <i>Brazilian Journal of Chemical Engineering</i> , 2012, 29, 483-494.	1.3	42
52	Obten3o de extratos de guaran3 ricos em cafe3na por processo enzim3tico e adsor3o de taninos. <i>Brazilian Journal of Food Technology</i> , 2012, 15, 261-270.	0.8	9
53	Production of concentrated natural beta-carotene from buriti (<i>Mauritia vinifera</i>) oil by enzymatic hydrolysis. <i>Food and Bioproducts Processing</i> , 2012, 90, 141-147.	3.6	27
54	On the kinetic resolution of sterically hindered myo-inositol derivatives in organic media by lipases. <i>Tetrahedron: Asymmetry</i> , 2012, 23, 47-52.	1.8	23

#	ARTICLE	IF	CITATIONS
55	A new method to obtain β -glucan from <i>Saccharomyces cerevisiae</i> cells. <i>Catalysis Science and Technology</i> , 2011, 1, 1068.	4.1	3
56	Ionic liquid-based aqueous biphasic system for lipase extraction. <i>Green Chemistry</i> , 2011, 13, 390-396.	9.0	120
57	Immobilization of commercial laccase onto green coconut fiber by adsorption and its application for reactive textile dyes degradation. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 72, 6-12.	1.8	127
58	Technological Aspects of β -Carotene Production. <i>Food and Bioprocess Technology</i> , 2011, 4, 693-701.	4.7	121
59	Image analysis application for the study of activated sludge floc size during the treatment of synthetic and real fishery wastewaters. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1390-1397.	5.3	6
60	Development of an amperometric biosensor for phenol detection. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1515-1522.	2.2	15
61	Production and Use of Lipases in Bioenergy: A Review from the Feedstocks to Biodiesel Production. <i>Enzyme Research</i> , 2011, 2011, 1-16.	1.8	118
62	Evaluation of aging mechanisms of olive oil-limon juice emulsion through digital image analysis. <i>Journal of Food Engineering</i> , 2010, 97, 335-340.	5.2	23
63	Characterization of Commercial Amylases for the Removal of Filter Cake on Petroleum Wells. <i>Applied Biochemistry and Biotechnology</i> , 2010, 161, 171-180.	2.9	4
64	Optimization of laccase catalyzed degradation of reactive textile dyes in supercritical carbon dioxide medium by response surface methodology. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2010, 99, 311.	1.7	5
65	Effect of chemical treatments on properties of green coconut fiber. <i>Carbohydrate Polymers</i> , 2010, 79, 832-838.	10.2	275
66	An ethanol-based process to simultaneously extract and fractionate carotenoids from <i>Mauritia flexuosa</i> L. Pulp. <i>Revista Brasileira De Fruticultura</i> , 2010, 32, 657-663.	0.5	8
67	Remoção de cor de efluentes têxteis com cogumelos <i>Agaricus bispora</i> . <i>Acta Scientiarum - Technology</i> , 2010, 32, .	0.4	1
68	<i>Agaricus bisporus</i> as a source of tyrosinase for phenol detection for future biosensor development. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 611-616.	2.2	16
69	Biosurfactants from Yeasts: Characteristics, Production and Application. <i>Advances in Experimental Medicine and Biology</i> , 2010, 672, 236-249.	1.6	70
70	Enzymatic Reactions in Near Critical CO ₂ : The Effect of Pressure on Phenol Removal by Tyrosinase. <i>International Journal of Molecular Sciences</i> , 2009, 10, 5217-5223.	4.1	8
71	Glycerol valorization: New biotechnological routes. <i>Food and Bioprocess Technology</i> , 2009, 87, 179-186.	3.6	116
72	Study of saline wastewater influence on activated sludge flocs through automated image analysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 554-560.	3.2	12

#	ARTICLE	IF	CITATIONS
73	Assessment of the impact of salinity and irradiance on the combined carbon dioxide sequestration and carotenoids production by <i>Dunaliella salina</i> : A mathematical model. <i>Biotechnology and Bioengineering</i> , 2009, 102, 425-435.	3.3	14
74	<i>Yarrowia lipolytica</i> lipase production enhanced by increased air pressure. <i>Letters in Applied Microbiology</i> , 2008, 46, 255-260.	2.2	47
75	Stalked protozoa identification by image analysis and multivariable statistical techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 1321-1325.	3.7	16
76	Optimization of oxygen mass transfer in a multiphase bioreactor with perfluorodecalin as a second liquid phase. <i>Biotechnology and Bioengineering</i> , 2008, 99, 588-598.	3.3	65
77	Potential method to improve the treatment efficiency of persistent contaminants in industrial wastewater. <i>Journal of Hazardous Materials</i> , 2008, 150, 438-445.	12.4	6
78	Aging mechanisms of oil-in-water emulsions based on a bioemulsifier produced by <i>Yarrowia lipolytica</i> . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 324, 149-154.	4.7	27
79	Model-based optimization of a sequencing batch reactor for biological nitrogen removal. <i>Bioresource Technology</i> , 2008, 99, 3213-3223.	9.6	30
80	Deposition of <i>Yarrowia lipolytica</i> on plasma prepared teflonlike thin films. <i>Surface Engineering</i> , 2008, 24, 23-27.	2.2	17
81	Produção de biossurfactante por levedura. <i>Quimica Nova</i> , 2008, 31, 2091-2099.	0.3	51
82	Development of an image analysis procedure for identifying protozoa and metazoa typical of activated sludge system. <i>Water Research</i> , 2007, 41, 2581-2589.	11.3	34
83	Raw data pre-processing in the protozoa and metazoa identification by image analysis and multivariate statistical techniques. <i>Journal of Chemometrics</i> , 2007, 21, 156-164.	1.3	5
84	Preparation and characterization of organosilicon thin films for selective adhesion of <i>Yarrowia lipolytica</i> yeast cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 82, 360-366.	3.2	21
85	Recognition of protozoa and metazoa using image analysis tools, discriminant analysis, neural networks and decision trees. <i>Analytica Chimica Acta</i> , 2007, 595, 160-169.	5.4	42
86	Removal of polymeric filter cake in petroleum wells: A study of commercial amylase stability. <i>Journal of Petroleum Science and Engineering</i> , 2007, 59, 263-270.	4.2	15
87	Analysis of the effects of hyperbaric gases on <i>S. cerevisiae</i> cell cycle through a morphological approach. <i>Process Biochemistry</i> , 2007, 42, 1378-1383.	3.7	6
88	Beneficial effects of enhanced aeration using perfluorodecalin in <i>Yarrowia lipolytica</i> cultures for lipase production. <i>World Journal of Microbiology and Biotechnology</i> , 2007, 23, 339-344.	3.6	21
89	Morphological characterization of <i>Cupriavidus necator</i> DSM 545 flocs through image analysis. <i>World Journal of Microbiology and Biotechnology</i> , 2007, 23, 801-808.	3.6	2
90	Activated sludge morphology characterization through an image analysis procedure. <i>Brazilian Journal of Chemical Engineering</i> , 2006, 23, 319-330.	1.3	32

#	ARTICLE	IF	CITATIONS
91	Cell surface characterization of <i>Yarrowia lipolytica</i> IMUFRJ 50682. <i>Yeast</i> , 2006, 23, 867-877.	1.7	49
92	Production and characterization of a bioemulsifier from <i>Yarrowia lipolytica</i> . <i>Process Biochemistry</i> , 2006, 41, 1894-1898.	3.7	156
93	Optimization and Modeling of Laccase Production by <i>Trametes versicolor</i> in a Bioreactor Using Statistical Experimental Design. <i>Applied Biochemistry and Biotechnology</i> , 2006, 134, 233-248.	2.9	72
94	Attachment/detachment of <i>Saccharomyces cerevisiae</i> on plasma deposited organosilicon thin films. <i>European Physical Journal D</i> , 2006, 56, B1256-B1262.	0.4	12
95	Improving lipase production using a perfluorocarbon as oxygen carrier. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1368-1374.	3.2	33
96	Tyrosinase Extract from <i>Agaricus bisporus</i> Mushroom and its in <i>Natura</i> Tissue for Specific Phenol Removal. <i>Environmental Technology (United Kingdom)</i> , 2006, 27, 1209-1215.	2.2	25
97	Enzymatic method for determining oxygen solubility in perfluorocarbon emulsions. <i>Fluid Phase Equilibria</i> , 2005, 231, 109-113.	2.5	18
98	Laccase improvement in submerged cultivation: induced production and kinetic modelling. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 669-676.	3.2	63
99	Assessment of yeast viability under hyperbaric conditions through a modeling approach. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 872-877.	3.2	4
100	Aging mechanisms of perfluorocarbon emulsions using image analysis. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 224-232.	9.4	69
101	Selection and Optimization of Culture Medium for Exopolysaccharide Production by <i>Coriolus (Trametes) Versicolor</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2005, 21, 1499-1507.	3.6	34
102	Electrical stimulation of <i>saccharomyces cerevisiae</i> cultures. <i>Brazilian Journal of Microbiology</i> , 2004, 35, 97-103.	2.0	14
103	Decolorization of Dyes from textile wastewater by <i>Trametes versicolor</i> . <i>Environmental Technology (United Kingdom)</i> , 2004, 25, 1313-1320.	2.2	72
104	Effect of hyperbaric stress on yeast morphology: study by automated image analysis. <i>Applied Microbiology and Biotechnology</i> , 2004, 66, 318-324.	3.6	43
105	Influence of C/N ratio on autotrophic biomass development in a sequencing batch reactor. <i>Biochemical Engineering Journal</i> , 2004, 21, 131-139.	3.6	13
106	Expression of <i>Pisum sativum</i> defensin 1 (Psd1) in shaking flasks and bioreactor cultivations of recombinant <i>Pichia pastoris</i> at different pHs. <i>Brazilian Journal of Chemical Engineering</i> , 2004, 21, 155-164.	1.3	3
107	Morphological analysis of <i>Yarrowia lipolytica</i> under stress conditions through image processing. <i>Bioprocess and Biosystems Engineering</i> , 2003, 25, 371-375.	3.4	36
108	An age-structured population balance model for microbial dynamics. <i>Brazilian Journal of Chemical Engineering</i> , 2003, 20, 1-6.	1.3	10

#	ARTICLE	IF	CITATIONS
109	Impact of the reg1 mutation glycofen accumulation and glucose consumption rates in Saccharomyces cerevisiae cells based on a macrokinetic model. Brazilian Journal of Chemical Engineering, 2003, 20, 241-250.	1.3	1
110	State observers for a biological wastewater nitrogen removal process in a sequential batch reactor. Bioresource Technology, 2001, 79, 1-14.	9.6	13
111	A model for performance prediction of hydrocyclones. Chemical Engineering Journal, 2001, 84, 7-14.	12.7	46
112	Optimization of a sequencing batch reactor for biological nitrogen removal. Water Research, 2000, 34, 2809-2817.	11.3	79
113	Extração e fracionamento simultâneo do óleo da castanha-do-Brasil com etanol. Food Science and Technology, 0, 27, 14-17.	1.7	19
114	Development of Potentiometric Urea Biosensor based on Canavalia ensiformis Urease. , 0, , .		0
115	Enantioselective catalysis from Pseudomonas cepacia on the kinetic resolution by different reactors. , 0, , .		0