Marco AntÃ´nio ZÃ¡chia Ayub

List of Publications by Year
in descending order

105 papers	2,970 citations	136950 32 h-index	206112 48 g-index
105 all docs	105 docs citations	105 times ranked	3582 citing authors

#	Article	IF	Citations
1	Batch and fed-batch strategies of lactic acid production by Lactobacillus plantarum BL011 using soybean hull hydrolysates as substrate. Biomass Conversion and Biorefinery, 2024, 14, 3249-3259.	4.6	3
2	Continuous bioreactor bioprocess using immobilized Spathaspora passalidarum to convert hydrolysates of oat and soybean hulls into ethanol. Biomass Conversion and Biorefinery, 2024, 14, 3351-3362.	4.6	0
3	Ethanol production via co-fermentation of C6 and C5 sugars from steam-pretreated sugarcane bagasse hydrolysates using non-GM yeasts Saccharomyces cerevisiae CAT-1 and Spathaspora hagerdaliae UFMG-CMY-303. Biomass Conversion and Biorefinery, 2024, 14, 6359-6368.	4.6	2
4	Isolation, Selection and Characterization of Wild Yeasts with Potential forÂBrewing. Journal of the American Society of Brewing Chemists, 2023, 81, 221-232.	1.1	2
5	Effect of freeze-dried kombucha culture on microbial composition and assessment of metabolic dynamics during fermentation. Food Microbiology, 2022, 101, 103889.	4.2	14
6	High Cell Density Culture of Dairy Propionibacterium sp. and Acidipropionibacterium sp.: A Review for Food Industry Applications. Food and Bioprocess Technology, 2022, 15, 734-749.	4.7	6
7	Biosynthesis of 1,3â€propanodiol and 2,3â€butanodiol from residual glycerol in continuous cellâ€immobilized Klebsiella pneumoniae bioreactors. Biotechnology Progress, 2022, 38, e3265.	2.6	4
8	Prebiotic effect of sorghum biomass xylooligosaccharides employing immobilized endoxylanase from Thermomyces lanuginosus PC7S1T. Brazilian Journal of Microbiology, 2022, 53, 1167-1174.	2.0	2
9	Bioconversion of ferulic acid into aroma compounds by newly isolated yeast strains of the Latin American biodiversity. Biotechnology Progress, 2021, 37, e3067.	2.6	10
10	Expression of Bacillus amyloliquefaciens transglutaminase in recombinant E. coli under the control of a bicistronic plasmid system in DO-stat fed-batch bioreactor cultivations. Brazilian Journal of Microbiology, 2021, 52, 1225-1233.	2.0	4
11	Health effects and probiotic and prebiotic potential of Kombucha: A bibliometric and systematic review. Food Bioscience, 2021, 44, 101332.	4.4	33
12	Performance of xylose-fermenting yeasts in oat and soybean hulls hydrolysate and improvement of ethanol production using immobilized cell systems. Biotechnology Letters, 2021, 43, 2011-2026.	2.2	2
13	Cloning and expression of the Bacillus amyloliquefaciens transglutaminase gene in E. coli using a bicistronic vector construction. Enzyme and Microbial Technology, 2020, 134, 109468.	3.2	12
14	Transglutaminases: part Iâ€"origins, sources, and biotechnological characteristics. World Journal of Microbiology and Biotechnology, 2020, 36, 15.	3.6	36
15	Review transglutaminases: part IIâ€"industrial applications in food, biotechnology, textiles and leather products. World Journal of Microbiology and Biotechnology, 2020, 36, 11.	3.6	38
16	Evaluation of Angiogenic Factors (PlGF and sFlt-1) in Pre-eclampsia Diagnosis. Revista Brasileira De Ginecologia E Obstetricia, 2020, 42, 697-704.	0.8	3
17	Construction of Recombinant Klebsiella pneumoniae to Increase Ethanol Production on Residual Glycerol Fed-Batch Cultivations. Applied Biochemistry and Biotechnology, 2020, 192, 1147-1162.	2.9	5
18	Production of volatile compounds by yeasts using hydrolysed grape seed oil obtained by immobilized lipases in continuous packed-bed reactors. Bioprocess and Biosystems Engineering, 2020, 43, 1391-1402.	3.4	6

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19	Conversion of fermentable sugars from hydrolysates of soybean and oat hulls into ethanol and xylitol by Spathaspora hagerdaliae UFMG-CM-Y303. Industrial Crops and Products, 2020, 146, 112218.	5.2	18
20	Bioreactor production of 2,3-butanediol by Pantoea agglomerans using soybean hull acid hydrolysate as substrate. Bioprocess and Biosystems Engineering, 2020, 43, 1689-1701.	3.4	9
21	Biosynthesis of vitamin B12 by Propionibacterium freudenreichii subsp. shermanii ATCC 13673 using liquid acid protein residue of soybean as culture medium. Biotechnology Progress, 2020, 36, e3011.	2.6	19
22	Second-generation ethanol production by Wickerhamomyces anomalus strain adapted to furfural, 5-hydroxymethylfurfural (HMF), and high osmotic pressure. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20181030.	0.8	3
23	Treatment and characterization of biomass of soybean and rice hulls using ionic liquids for the liberation of fermentable sugars. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20191258.	0.8	4
24	Lipase production by Aspergillus brasiliensis in solid-state cultivation of malt bagasse in different bioreactors configurations. Anais Da Academia Brasileira De Ciencias, 2020, 92, e20180856.	0.8	2
25	Oleaginous yeast Meyerozyma guilliermondii shows fermentative metabolism of sugars in the biosynthesis of ethanol and converts raw glycerol and cheese whey permeate into polyunsaturated fatty acids. Biotechnology Progress, 2019, 35, e2895.	2.6	8
26	Production of 2,3â€butanediol by <scp>Klebsiella pneumoniae</scp> BLhâ€1 and Pantoea agglomerans BL1 cultivated in acid and enzymatic hydrolysates of soybean hull. Biotechnology Progress, 2019, 35, e2793.	2.6	20
27	Fermentation of hexoses and pentoses from sugarcane bagasse hydrolysates into ethanol by Spathaspora hagerdaliae. Bioprocess and Biosystems Engineering, 2019, 42, 83-92.	3.4	18
28	ULTRASOUND-ASSISTED TRANSESTERIFICATION OF SOYBEAN OIL USING COMBI-LIPASE BIOCATALYSTS. Brazilian Journal of Chemical Engineering, 2019, 36, 995-1005.	1.3	17
29	Transesterification of Waste Frying Oil and Soybean Oil by Combi-lipases Under Ultrasound-Assisted Reactions. Applied Biochemistry and Biotechnology, 2018, 186, 576-589.	2.9	63
30	Comparative production of xylanase and the liberation of xylooligosaccharides from lignocellulosic biomass by Aspergillus brasiliensis BLf1 and recombinant Aspergillus nidulans XynC A773. International Journal of Food Science and Technology, 2018, 53, 2110-2118.	2.7	11
31	Fermentation of oat and soybean hull hydrolysates into ethanol and xylitol by recombinant industrial strains of Saccharomyces cerevisiae under diverse oxygen environments. Industrial Crops and Products, 2018, 113, 10-18.	5.2	49
32	Enzymatic synthesis of ethyl esters from waste oil using mixtures of lipases in a plugâ€flow packedâ€bed continuous reactor. Biotechnology Progress, 2018, 34, 952-959.	2.6	36
33	Solid-state cultivation of recombinant Aspergillus nidulans to co-produce xylanase, arabinofuranosidase, and xylooligosaccharides from soybean fibre. Biocatalysis and Agricultural Biotechnology, 2018, 15, 78-85.	3.1	23
34	Xylooligosaccharides production by fungi cultivations in rice husk and their application as substrate for lactic acid bacteria growth. Bioresource Technology Reports, 2018, 2, 100-106.	2.7	22
35	Screening of filamentous fungi to produce xylanase and xylooligosaccharides in submerged and solid-state cultivations on rice husk, soybean hull, and spent malt as substrates. World Journal of Microbiology and Biotechnology, 2017, 33, 58.	3.6	29
36	Bioconversion of soybean and rice hull hydrolysates into ethanol and xylitol by furaldehyde-tolerant strains of Saccharomyces cerevisiae, Wickerhamomyces anomalus, and their cofermentations. Biomass Conversion and Biorefinery, 2017, 7, 199-206.	4.6	9

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37	Life Cycle Assessment comparison between brow parboiled rice produced under organic and minimal tillage cultivation systems. Journal of Cleaner Production, 2017, 161, 95-104.	9.3	14
38	Influence of genetic background of engineered xylose-fermenting industrial Saccharomyces cerevisiae strains for ethanol production from lignocellulosic hydrolysates. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1575-1588.	3.0	25
39	Liberation of fermentable sugars from soybean hull biomass using ionic liquid 1â€butylâ€3â€methylimidazolium acetate and their bioconversion to ethanol. Biotechnology Progress, 2016, 32, 312-320.	2.6	15
40	Viability and alternative uses of a dried powder, microencapsulated Lactobacillus plantarum without the use of cold chain or dairy products. LWT - Food Science and Technology, 2016, 71, 54-59.	5.2	23
41	Electrospraying microencapsulation of Lactobacillus plantarum enhances cell viability under refrigeration storage and simulated gastric and intestinal fluids. Journal of Functional Foods, 2016, 24, 316-326.	3.4	83
42	Probiotics production and alternative encapsulation methodologies to improve their viabilities under adverse environmental conditions. International Journal of Food Sciences and Nutrition, 2016, 67, 929-943.	2.8	37
43	Life cycle greenhouse gas emissions from rice production systems in Brazil: A comparison between minimal tillage and organic farming. Journal of Cleaner Production, 2016, 139, 799-809.	9.3	57
44	Lactobacillus plantarum BL011 cultivation in industrial isolated soybean protein acid residue. Brazilian Journal of Microbiology, 2016, 47, 941-948.	2.0	21
45	Synthesis of butyl butyrate in batch and continuous enzymatic reactors using Thermomyces lanuginosus lipase immobilized in Immobead 150. Journal of Molecular Catalysis B: Enzymatic, 2016, 127, 67-75.	1.8	49
46	Dynamics of yeast immobilized-cell fluidized-bed bioreactors systems in ethanol fermentation from lactose-hydrolyzed whey and whey permeate. Bioprocess and Biosystems Engineering, 2016, 39, 141-150.	3.4	11
47	Enzymatic reactors for biodiesel synthesis: Present status and future prospects. Biotechnology Advances, 2015, 33, 511-525.	11.7	141
48	Optimization of ethyl ester production from olive and palm oils using mixtures of immobilized lipases. Applied Catalysis A: General, 2015, 490, 50-56.	4.3	75
49	Production and optimization of poly-Î³-glutamic acid by Bacillus subtilis BL53 isolated from the Amazonian environment. Bioprocess and Biosystems Engineering, 2014, 37, 469-479.	3.4	32
50	Immobilization of Thermomyces lanuginosus Lipase by Different Techniques on Immobead 150 Support: Characterization and Applications. Applied Biochemistry and Biotechnology, 2014, 172, 2507-2520.	2.9	32
51	Bioconversion of residual glycerol from biodiesel synthesis into 1,3-propanediol using immobilized cells of Klebsiella pneumoniae BLh-1. Renewable Energy, 2014, 72, 253-257.	8.9	32
52	Dynamics of ethanol production from whey and whey permeate byÂimmobilized strains of Kluyveromyces marxianus in batch andÂcontinuous bioreactors. Renewable Energy, 2014, 69, 89-96.	8.9	36
53	Effects of metabolic pathway precursors and polydimethylsiloxane (PDMS) on poly-(gamma)-glutamic acid production by Bacillus subtilis BL53. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 1375-1382.	3.0	16
54	Efficient purification-immobilization of an organic solvent-tolerant lipase from Staphylococcus warneri EX17 on porous styrene-divinylbenzene beads. Journal of Molecular Catalysis B: Enzymatic, 2014, 99, 51-55.	1.8	21

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55	Physico-chemical and rheological characterization of poly-gamma-glutamic acid produced by a new strain of Bacillus subtilis. European Polymer Journal, 2014, 57, 91-98.	5.4	13
56	Fermentation kinetics of acidâ€“enzymatic soybean hull hydrolysate in immobilized-cell bioreactors of Saccharomyces cerevisiae, Candida shehatae, Spathaspora arborariae, and their co-cultivations. Biochemical Engineering Journal, 2014, 88, 61-67.	3.6	40
57	Combined Effects of Ultrasound and Immobilization Protocol on Butyl Acetate Synthesis Catalyzed by CALB. Molecules, 2014, 19, 9562-9576.	3.8	42
58	Conversion of residual glycerol from biodiesel synthesis into 1,3-propanediol by a new strain of Klebsiella pneumoniae. Renewable Energy, 2013, 55, 404-409.	8.9	27
59	Biodiesel Residual Glycerol Metabolism by Klebsiella pneumoniae: Pool of Metabolites Under Anaerobiosis and Oxygen Limitation as a Function of Feeding Rates. Applied Biochemistry and Biotechnology, 2013, 169, 1952-1964.	2.9	8
60	5-Hydroxymethylfurfural induces ADH7 and ARI1 expression in tolerant industrial Saccharomyces cerevisiae strain P6H9 during bioethanol production. Bioresource Technology, 2013, 133, 190-196.	9.6	32
61	Ethanogenic fermentation of co-cultures of Candida shehatae HM 52.2 and Saccharomyces cerevisiae ICV D254 in synthetic medium and rice hull hydrolysate. Bioresource Technology, 2013, 131, 508-514.	9.6	54
62	Simultaneous saccharification and co-fermentation of un-detoxified rice hull hydrolysate by Saccharomyces cerevisiae ICV D254 and Spathaspora arborariae NRRL Y-48658 for the production of ethanol and xylitol. Bioresource Technology, 2013, 143, 112-116.	9.6	42
63	Chemometric modeling and two-dimensional fluorescence analysis of bioprocess with a new strain of Klebsiella pneumoniae to convert residual glycerol into 1,3-propanediol. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 701-708.	3.0	12
64	Bioconversion of residual glycerol from biodiesel synthesis into 1,3-propanediol and ethanol by isolated bacteria from environmental consortia. Renewable Energy, 2012, 39, 223-227.	8.9	73
65	Modeling P(3HB) production by Bacillus megaterium. Journal of Chemical Technology and Biotechnology, 2012, 87, 325-333.	3.2	15
66	The effects of emulsified polydimethylsiloxane FGâ€10 on the oxygen transfer coefficient (k_La) and lipase production by Staphylococcus warneri EX17. Journal of Chemical Technology and Biotechnology, 2012, 87, 990-995.	3.2	4
67	Performance of different immobilizedâ€cell systems to efficiently produce ethanol from whey: fluidized batch, packedâ€bed and fluidized continuous bioreactors. Journal of Chemical Technology and Biotechnology, 2012, 87, 1194-1201.	3.2	15
68	Enzymatic properties of transglutaminase produced by a new strain of Bacillus circulans BL32 and its action over food proteins. LWT - Food Science and Technology, 2011, 44, 443-450.	5.2	14
69	Optimization of soybean hull acid hydrolysis and its characterization as a potential substrate for bioprocessing. Biomass and Bioenergy, 2011, 35, 4675-4683.	5.7	47
70	Optimization of lipase production by Staphylococcus warneri EX17 using the polydimethylsiloxanes artificial oxygen carriers. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1599-1604.	3.0	6
71	Effect of microencapsulation on survival of Lactobacillus plantarum in simulated gastrointestinal conditions, refrigeration, and yogurt. Journal of Food Engineering, 2011, 103, 123-128.	5.2	164
72	Purification, immobilization, and characterization of a specific lipase from Staphylococcus warneri EX17 by enzyme fractionating via adsorption on different hydrophobic supports. Biotechnology Progress, 2011, 27, 717-723.	2.6	12

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73	Conversion of sugars present in rice hull hydrolysates into ethanol by Spathaspora arborariae, Saccharomyces cerevisiae, and their co-fermentations. Bioresource Technology, 2011, 102, 4218-4225.	9.6	65
74	Comparison of different pretreatment methods for hydrogen production using environmental microbial consortia on residual glycerol from biodiesel. International Journal of Hydrogen Energy, 2011, 36, 4814-4819.	7.1	55
75	Optimization of probiotic and lactic acid production by Lactobacillus plantarum in submerged bioreactor systems. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 205-212.	3.0	39
76	Modulation of a lipase from Staphylococcus warneri EX17 using immobilization techniques. Journal of Molecular Catalysis B: Enzymatic, 2009, 60, 125-132.	1.8	20
77	Effect of oxygen transfer rates on alcohols production by Candida guilliermondii cultivated on soybean hull hydrolysate. Journal of Chemical Technology and Biotechnology, 2009, 84, 223-228.	3.2	13
78	Kinetics of thermal inactivation of transglutaminase from a newly isolated Bacillus circulans BL32. Journal of Chemical Technology and Biotechnology, 2009, 84, 1567-1575.	3.2	9
79	Optimization of C:N ratio and minimal initial carbon source for poly(3â€hydroxybutyrate) production by Bacillus megaterium. Journal of Chemical Technology and Biotechnology, 2009, 84, 1756-1761.	3.2	36
80	Improved Enzyme Stability in Lipase-Catalyzed Synthesis of Fatty Acid Ethyl Ester from Soybean Oil. Applied Biochemistry and Biotechnology, 2009, 152, 394-404.	2.9	17
81	Environmental Effects on Transglutaminase Production and Cell Sporulation in Submerged Cultivation of Bacillus circulans. Applied Biochemistry and Biotechnology, 2009, 158, 302-312.	2.9	3
82	Effects of oxygen volumetric mass transfer coefficient and pH on lipase production by Staphylococcus warneri EX17. Biotechnology and Bioprocess Engineering, 2009, 14, 105-111.	2.6	15
83	Effects of oxygen volumetric mass transfer coefficient on transglutaminase production by Bacillus circulans BL32. Biotechnology and Bioprocess Engineering, 2009, 14, 571-576.	2.6	7
84	Production of High-protein Hydrolysate from Poultry Industry Residue and their Molecular Profiles. Food Biotechnology, 2009, 23, 229-242.	1.5	12
85	Enzymatic Synthesis of Biodiesel from Transesterification Reactions of Vegetable Oils and Short Chain Alcohols. JAOCS, Journal of the American Oil Chemists' Society, 2008, 85, 925-930.	1.9	137
86	Solid state bioreactor production of transglutaminase by Amazonian Bacillus circulans BL32 strain. Journal of Industrial Microbiology and Biotechnology, 2008, 35, 1677-1685.	3.0	0
87	Production of organic solvent tolerant lipase by Staphylococcus caseolyticus EX17 using raw glycerol as substrate. Journal of Chemical Technology and Biotechnology, 2008, 83, 821-828.	3.2	38
88	Lipaseâ€catalyzed ethanolysis of soybean oil in a solventâ€free system using central composite design and response surface methodology. Journal of Chemical Technology and Biotechnology, 2008, 83, 849-854.	3.2	40
89	Optimization of transglutaminase extraction produced by Bacillus circulans BL32 on solidâ€state cultivation. Journal of Chemical Technology and Biotechnology, 2008, 83, 1306-1313.	3.2	9
90	Production of ethanol from soybean hull hydrolysate by osmotolerant Candida guilliermondii NRRL Y-2075. Bioresource Technology, 2008, 99, 2898-2904.	9.6	89

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91	Expression kinetics and plasmid stability of recombinant E. coli encoding urease-derived peptide with bioinsecticide activity. Enzyme and Microbial Technology, 2007, 41, 821-827.	3.2	29
92	Bioconversion of l-phenylalanine into 2-phenylethanol by Kluyveromyces marxianus in grape must cultures. World Journal of Microbiology and Biotechnology, 2007, 23, 1273-1279.	3.6	51
93	Simplified feeding strategies for fed-batch cultivation of Kluyveromyces marxianus in cheese whey. Process Biochemistry, 2007, 42, 873-877.	3.7	33
94	Statistical optimization of thermo-tolerant xylanase activity from Amazon isolated Bacillus circulans on solid-state cultivation. Bioresource Technology, 2006, 97, 1902-1906.	9.6	43
95	Purification and properties of a xylanase produced by Bacillus circulans BL53 on solid-state cultivation. Biochemical Engineering Journal, 2006, 32, 179-184.	3.6	33
96	Optimization of medium composition for the production of transglutaminase by Bacillus circulans BL32 using statistical experimental methods. Process Biochemistry, 2006, 41, 1186-1192.	3.7	28
97	Optimization of cellulase-free xylanase activity produced by Bacillus coagulans BL69 in solid-state cultivation. Process Biochemistry, 2005, 40, 107-112.	3.7	67
98	Extraction optimization of xylanases obtained by solid-state cultivation of Bacillus circulans BL53. Process Biochemistry, 2005, 40, 2891-2895.	3.7	27
99	Optimization of xylanase and mannanase production by Bacillus circulans strain BL53 on solid-state cultivation. Enzyme and Microbial Technology, 2005, 37, 417-423.	3.2	54
100	Physicochemical properties of three food proteins treated with transglutaminase. Ciencia Rural, 2004, 34, 1219-1223.	0.5	16
101	Production of transglutaminase fromBacillus circulanson solid-state and submerged cultivations. Biotechnology Letters, 2003, 25, 2029-2033.	2.2	12
102	Purification and properties of a transglutaminase produced by a Bacillus circulans strain isolated from the Amazon environment. Biotechnology and Applied Biochemistry, 2003, 37, 295.	3.1	35
103	Changes in the microbiological and physicochemical characteristics of Serrano cheese during manufacture and ripening. Brazilian Journal of Microbiology, 2003, 34, 260.	2.0	36
104	Title is missing!. Biotechnology Letters, 2000, 22, 285-289.	2.2	16
105	Exponential Fed-Batch Cultures of Klebsiella pneumoniae under Anaerobiosis Using Raw Glycerol as a Substrate to Obtain Value-Added Bioproducts. Journal of the Brazilian Chemical Society, 0, , .	0.6	4