Solange Inês Mussatto

List of Publications by Citations

190 papers	11,137 citations	50 h-index	101 g-index
206 ext. papers	12,813 ext. citations	6 avg, IF	6.89 L-index

#	Paper	IF	Citations
190	Alternatives for detoxification of diluted-acid lignocellulosic hydrolyzates for use in fermentative processes: a review. *Bioresource Technology*, **2004**, 93, 1-10	11	611
189	Brewers' spent grain: generation, characteristics and potential applications. *Journal of Cereal Science*, **2006**, 43, 1-14	3.8	546
188	Non-digestible oligosaccharides: A review. *Carbohydrate Polymers*, **2007**, 68, 587-597	10.3	538
187	Production, Composition, and Application of Coffee and Its Industrial Residues. *Food and Bioprocess Technology*, **2011**, 4, 661-672	5.1	511
186	Technological trends, global market, and challenges of bio-ethanol production. *Biotechnology Advances*, **2010**, 28, 817-30	17.8	504
185	Bioactive phenolic compounds: production and extraction by solid-state fermentation. A review. *Biotechnology Advances*, **2011**, 29, 365-73	17.8	434
184	Chemical, Functional, and Structural Properties of Spent Coffee Grounds and Coffee Silverskin. *Food and Bioprocess Technology*, **2014**, 7, 3493-3503	5.1	355
183	Brewer's spent grain: a valuable feedstock for industrial applications. *Journal of the Science of Food and Agriculture*, **2014**, 94, 1264-75	4.3	270
182	Microwave-assisted extraction of sulfated polysaccharides (fucoidan) from brown seaweed. *Carbohydrate Polymers*, **2011**, 86, 1137-1144	10.3	262
181	A study on chemical constituents and sugars extraction from spent coffee grounds. *Carbohydrate Polymers*, **2011**, 83, 368-374	10.3	257
180	Effect of hemicellulose and lignin on enzymatic hydrolysis of cellulose from brewer's spent grain. *Enzyme and Microbial Technology*, **2008**, 43, 124-129	3.8	246
179	Extraction of antioxidant phenolic compounds from spent coffee grounds. *Separation and Purification Technology*, **2011**, 83, 173-179	8.3	240
178	Influence of extraction solvents on the recovery of antioxidant phenolic compounds from brewer's spent grains. *Separation and Purification Technology*, **2013**, 108, 152-158	8.3	211
177	Encapsulation of antioxidant phenolic compounds extracted from spent coffee grounds by freeze-drying and spray-drying using different coating materials. *Food Chemistry*, **2017**, 237, 623-631	8.5	197
176	Dilute-acid hydrolysis for optimization of xylose recovery from rice straw in a semi-pilot reactor. *Industrial Crops and Products*, **2003**, 17, 171-176	5.9	176
175	Ferulic and p-coumaric acids extraction by alkaline hydrolysis of brewer's spent grain. *Industrial Crops and Products*, **2007**, 25, 231-237	5.9	161
174	The effect of organosolv pretreatment variables on enzymatic hydrolysis of sugarcane bagasse. *Chemical Engineering Journal*, **2011**, 168, 1157-1162	14.7	159

173	Sugars metabolism and ethanol production by different yeast strains from coffee industry wastes hydrolysates. *Applied Energy*, **2012**, 92, 763-768	10.7	150
172	Characterisation of volatile compounds in an alcoholic beverage produced by whey fermentation. *Food Chemistry*, **2009**, 112, 929-935	8.5	137
171	Acid hydrolysis and fermentation of brewer's spent grain to produce xylitol. *Journal of the Science of Food and Agriculture*, **2005**, 85, 2453-2460	4.3	126
170	Chemical characterization and liberation of pentose sugars from brewer's spent grain. *Journal of Chemical Technology and Biotechnology*, **2006**, 81, 268-274	3.5	123
169	Exploitation of agro industrial wastes as immobilization carrier for solid-state fermentation. *Industrial Crops and Products*, **2009**, 30, 24-27	5.9	100
168	Characterization of polysaccharides extracted from spent coffee grounds by alkali pretreatment. *Carbohydrate Polymers*, **2015**, 127, 347-54	10.3	99
167	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. *Journal of Cleaner Production*, **2020**, 270, 122462	10.3	97
166	Innovation and strategic orientations for the development of advanced biorefineries. *Bioresource Technology*, **2020**, 302, 122847	11	92
165	Production, characterization and application of activated carbon from brewer's spent grain lignin. *Bioresource Technology*, **2010**, 101, 2450-7	11	92
164	Lignin recovery from brewer spent grain black liquor. *Carbohydrate Polymers*, **2007**, 70, 218-223	10.3	92
163	Effects of medium supplementation and pH control on lactic acid production from brewer's spent grain. *Biochemical Engineering Journal*, **2008**, 40, 437-444	4.2	87
162	Techno-economic analysis for brewer's spent grains use on a biorefinery concept: the Brazilian case. *Bioresource Technology*, **2013**, 148, 302-10	11	85
161	Advances and opportunities in biomass conversion technologies and biorefineries for the development of a bio-based economy. *Biomass and Bioenergy*, **2018**, 119, 54-60	5.3	83
160	Extraction of polysaccharides by autohydrolysis of spent coffee grounds and evaluation of their antioxidant activity. *Carbohydrate Polymers*, **2017**, 157, 258-266	10.3	78
159	Biotechnological production and application of fructooligosaccharides. *Critical Reviews in Biotechnology*, **2016**, 36, 259-67	9.4	76
158	Synthesis and characterization of silver nanoparticles loaded poly(vinyl alcohol)-lignin electrospun nanofibers and their antimicrobial activity. *International Journal of Biological Macromolecules*, **2018**, 120, 763-767	7.9	74
157	Fructooligosaccharides and Fructofuranosidase production by Aspergillus japonicus immobilized on lignocellulosic materials. *Journal of Molecular Catalysis B: Enzymatic*, **2009**, 59, 76-81		72
156	Optimal experimental condition for hemicellulosic hydrolyzate treatment with activated charcoal for xylitol production. *Biotechnology Progress*, **2004**, 20, 134-9	2.8	70

155	Optimization of autohydrolysis conditions to extract antioxidant phenolic compounds from spent coffee grounds. *Journal of Food Engineering*, **2017**, 199, 1-8	6	65
154	Growth of fungal strains on coffee industry residues with removal of polyphenolic compounds. *Biochemical Engineering Journal*, **2012**, 60, 87-90	4.2	64
153	The effect of agitation speed, enzyme loading and substrate concentration on enzymatic hydrolysis of cellulose from brewer's spent grain. *Cellulose*, **2008**, 15, 711-721	5.5	64
152	Hydrolysate detoxification with activated charcoal for xylitol production by Candida guilliermondii **2001**, 23, 1681-1684		64
151	Xylitol production by Debaryomyces hansenii and Candida guilliermondii from rapeseed straw hemicellulosic hydrolysate. *Bioresource Technology*, **2018**, 247, 736-743	11	61
150	The influence of initial xylose concentration, agitation, and aeration on ethanol production by Pichia stipitis from rice straw hemicellulosic hydrolysate. *Applied Biochemistry and Biotechnology*, **2010**, 162, 1306-15	3.2	61
149	Green synthesis of silver nanoparticles using acacia lignin, their cytotoxicity, catalytic, metal ion sensing capability and antibacterial activity. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103296	6.8	60
148	Increase in the fructooligosaccharides yield and productivity by solid-state fermentation with Aspergillus japonicus using agro-industrial residues as support and nutrient source. *Biochemical Engineering Journal*, **2010**, 53, 154-157	4.2	59
147	Selection of the Solvent and Extraction Conditions for Maximum Recovery of Antioxidant Phenolic Compounds from Coffee Silverskin. *Food and Bioprocess Technology*, **2014**, 7, 1322-1332	5.1	57
146	Fermentation medium and oxygen transfer conditions that maximize the xylose conversion to ethanol by Pichia stipitis. *Renewable Energy*, **2012**, 37, 259-265	8.1	54
145	Optimal fermentation conditions for maximizing the ethanol production by Kluyveromyces fragilis from cheese whey powder. *Biomass and Bioenergy*, **2011**, 35, 1977-1982	5.3	53
144	Brewer's spent grain as raw material for lactic acid production by Lactobacillus delbrueckii. *Biotechnology Letters*, **2007**, 29, 1973-6	3	52
143	Comparison of different procedures for the detoxification of eucalyptus hemicellulosic hydrolysate for use in fermentative processes. *Journal of Chemical Technology and Biotechnology*, **2006**, 81, 152-157	3.5	52
142	Extraction of sulfated polysaccharides by autohydrolysis of brown seaweed Fucus vesiculosus. *Journal of Applied Phycology*, **2013**, 25, 31-39	3.2	51
141	Techno-economic assessment of biorefinery technologies for aviation biofuels supply chains in Brazil. *Biofuels, Bioproducts and Biorefining*, **2017**, 11, 67-91	5.3	50
140	Establishment of the optimum initial xylose concentration and nutritional supplementation of brewer's spent grain hydrolysate for xylitol production by Candida guilliermondii. *Process Biochemistry*, **2008**, 43, 540-546	4.8	50
139	Optimum operating conditions for brewer's spent grain soda pulping. *Carbohydrate Polymers*, **2006**, 64, 22-28	10.3	50
138	Alkaline deacetylation as a strategy to improve sugars recovery and ethanol production from rice straw hemicellulose and cellulose. *Industrial Crops and Products*, **2017**, 106, 65-73	5.9	49

137	Effect of pH and activated charcoal adsorption on hemicellulosic hydrolysate detoxification for xylitol production. *Journal of Chemical Technology and Biotechnology*, **2004**, 79, 590-596	3.5	49
136	Colonization of Aspergillus japonicus on synthetic materials and application to the production of fructooligosaccharides. *Carbohydrate Research*, **2009**, 344, 795-800	2.9	48
135	An approach to optimization of enzymatic hydrolysis from sugarcane bagasse based on organosolv pretreatment. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, 1092-1098	3.5	48
134	Isolation of polyphenols from spent coffee grounds and silverskin by mild hydrothermal pretreatment. *Preparative Biochemistry and Biotechnology*, **2016**, 46, 406-9	2.4	47
133	Integrated 1st and 2nd generation sugarcane bio-refinery for jet fuel production in Brazil: Techno-economic and greenhouse gas emissions assessment. *Renewable Energy*, **2018**, 129, 733-747	8.1	47
132	Maximization of Fructooligosaccharides and β-Fructofuranosidase Production by Aspergillus japonicus under Solid-State Fermentation Conditions. *Food and Bioprocess Technology*, **2013**, 6, 2128-2134	5.1	46
131	Fructooligosaccharide production by Penicillium expansum. *Biotechnology Letters*, **2010**, 32, 837-40	3	46
130	Chemical composition and antioxidant activity of sulphated polysaccharides extracted from Fucus vesiculosus using different hydrothermal processes. *Chemical Papers*, **2014**, 68,	1.9	44
129	Hydrodynamic cavitation as a strategy to enhance the efficiency of lignocellulosic biomass pretreatment. *Critical Reviews in Biotechnology*, **2018**, 38, 483-493	9.4	44
128	Production and physicochemical properties of carboxymethyl cellulose films enriched with spent coffee grounds polysaccharides. *International Journal of Biological Macromolecules*, **2018**, 106, 647-655	7.9	44
127	Influence of aeration rate and carrier concentration on xylitol production from sugarcane bagasse hydrolyzate in immobilized-cell fluidized bed reactor. *Process Biochemistry*, **2005**, 40, 113-118	4.8	42
126	Techno-economic evaluation of strategies based on two steps organosolv pretreatment and enzymatic hydrolysis of sugarcane bagasse for ethanol production. *Renewable Energy*, **2016**, 86, 270-279	8.1	41
125	Sugarcane bagasse hydrolysate as a potential feedstock for red pigment production by Monascus ruber. *Food Chemistry*, **2018**, 245, 786-791	8.5	41
124	Evaluation of different pretreatment strategies for protein extraction from brewer's spent grains. *Industrial Crops and Products*, **2018**, 125, 443-453	5.9	41
123	Anaerobic digestion process: technological aspects and recent developments. *International Journal of Environmental Science and Technology*, **2018**, 15, 2033-2046	3.3	41
122	Antibacterial activity of crude methanolic extract and fractions obtained from Larrea tridentata leaves. *Industrial Crops and Products*, **2013**, 41, 306-311	5.9	40
121	Influence of the toxic compounds present in brewer's spent grain hemicellulosic hydrolysate on xylose-to-xylitol bioconversion by Candida guilliermondii. *Process Biochemistry*, **2005**, 40, 3801-3806	4.8	40
120	Production, chemical characterization, and sensory profile of a novel spirit elaborated from spent coffee ground. *LWT - Food Science and Technology*, **2013**, 54, 557-563	5.4	39

119	Xylitol production from high xylose concentration: evaluation of the fermentation in bioreactor under different stirring rates. *Journal of Applied Microbiology*, **2003**, 95, 331-7	4.7	39
118	Bench scale steam explosion pretreatment of acid impregnated elephant grass biomass and its impacts on biomass composition, structure and hydrolysis. *Industrial Crops and Products*, **2017**, 106, 48-58	5.9	38
117	Ethanol production by a new pentose-fermenting yeast strain, Scheffersomyces stipitis UFMG-IMH 43.2, isolated from the Brazilian forest. *Yeast*, **2011**, 28, 547-54	3.4	38
116	Study of xylitol production by Candida guilliermondii on a bench bioreactor. *Journal of Food Engineering*, **2006**, 75, 115-119	6	38
115	Bioactive compounds (phytoestrogens) recovery from Larrea tridentata leaves by solvents extraction. *Separation and Purification Technology*, **2012**, 88, 163-167	8.3	37
114	Adaptation of a flocculent Saccharomyces cerevisiae strain to lignocellulosic inhibitors by cell recycle batch fermentation. *Applied Energy*, **2013**, 102, 124-130	10.7	37
113	Hydrogen peroxide bleaching of cellulose pulps obtained from brewer□s spent grain. *Cellulose*, **2008** , 15, 641-649	5.5	37
112	Detoxification of sugarcane bagasse hemicellulosic hydrolysate with ion-exchange resins for xylitol production by calcium alginate-entrapped cells. *Journal of Chemical Technology and Biotechnology*, **2004**, 79, 863-868	3.5	36
111	Evaluation of porous glass and zeolite as cells carriers for xylitol production from sugarcane bagasse hydrolysate. *Biochemical Engineering Journal*, **2005**, 23, 1-9	4.2	36
110	Enhancement of fructosyltransferase and fructooligosaccharides production by A. oryzae DIA-MF in Solid-State Fermentation using aguamiel as culture medium. *Bioresource Technology*, **2016**, 213, 276-282	11	36
109	Ethanol Production from Brewers□Spent Grain Pretreated by Dilute Phosphoric Acid. *Energy & Fuels*, **2018**, 32, 5226-5233	4.1	35
108	Malolactic fermentation of wines with immobilised lactic acid bacteria - influence of concentration, type of support material and storage conditions. *Food Chemistry*, **2013**, 138, 1510-4	8.5	35
107	beta-Fructofuranosidase production by repeated batch fermentation with immobilized Aspergillus japonicus. *Journal of Industrial Microbiology and Biotechnology*, **2009**, 36, 923-8	4.2	35
106	Production of biofuel precursors and value-added chemicals from hydrolysates resulting from hydrothermal processing of biomass: A review. *Biomass and Bioenergy*, **2019**, 130, 105397	5.3	34
105	Ethanol production from xylose by Pichia stipitis NRRL Y-7124 in a stirred tank bioreactor. *Brazilian Journal of Chemical Engineering*, **2011**, 28, 151-156	1.7	34
104	Evaluating the potential of wine-making residues and corn cobs as support materials for cell immobilization for ethanol production. *Industrial Crops and Products*, **2011**, 34, 979-985	5.9	34
103	Fucoidan-degrading fungal strains: screening, morphometric evaluation, and influence of medium composition. *Applied Biochemistry and Biotechnology*, **2010**, 162, 2177-88	3.2	34
102	Lipid and carotenoid production from wheat straw hydrolysates by different oleaginous yeasts. *Journal of Cleaner Production*, **2020**, 249, 119308	10.3	34

101	Fungal fucoidanase production by solid-state fermentation in a rotating drum bioreactor using algal biomass as substrate. *Food and Bioproducts Processing*, **2013**, 91, 587-594	4.9	33
100	Inhibitory action of toxic compounds present in lignocellulosic hydrolysates on xylose to xylitol bioconversion by Candida guilliermondii. *Journal of Industrial Microbiology and Biotechnology*, **2011**, 38, 71-8	4.2	33
99	Kinetic behavior of Candida guilliermondii yeast during xylitol production from highly concentrated hydrolysate. *Process Biochemistry*, **2004**, 39, 1433-1439	4.8	33
98	Integration of subcritical water pretreatment and anaerobic digestion technologies for valorization of açaí processing industries residues. *Journal of Cleaner Production*, **2019**, 228, 1131-1142	10.3	32
97	Kinetic study of nordihydroguaiaretic acid recovery from Larrea tridentata by microwave-assisted extraction. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, 1142-1147	3.5	32
96	Interference of some aqueous two-phase system phase-forming components in protein determination by the Bradford method. *Analytical Biochemistry*, **2012**, 421, 719-24	3.1	31
95	Production of thermostable xylanase by thermophilic fungal strains isolated from maize silage. *CYTA - Journal of Food*, **2016**, 14, 302-308	2.3	29
94	Restructuring the processes for furfural and xylose production from sugarcane bagasse in a biorefinery concept for ethanol production. *Chemical Engineering and Processing: Process Intensification*, **2014**, 85, 196-202	3.7	29
93	Start-up phase of a two-stage anaerobic co-digestion process: hydrogen and methane production from food waste and vinasse from ethanol industry. *Biofuel Research Journal*, **2018**, 5, 813-820	13.9	28
92	Development of an acetic acid tolerant Spathaspora passalidarum strain through evolutionary engineering with resistance to inhibitors compounds of autohydrolysate of Eucalyptus globulus. *Industrial Crops and Products*, **2017**, 106, 5-11	5.9	26
91	Production of fructooligosaccharides and β-fructofuranosidase by batch and repeated batch fermentation with immobilized cells of Penicillium expansum. *European Food Research and Technology*, **2012**, 235, 13-22	3.4	26
90	Pretreatment of switchgrass by steam explosion in a semi-continuous pre-pilot reactor. *Biomass and Bioenergy*, **2019**, 121, 41-47	5.3	26
89	Biotechnological Potential of Brewing Industry By-Products **2009**, 313-326		25
88	High Gravity Brewing by Continuous Process Using Immobilised Yeast: Effect of Wort Original Gravity on Fermentation Performance. *Journal of the Institute of Brewing*, **2007**, 113, 391-398	2	25
87	Reactive dyes and textile effluent decolorization by a mediator system of salt-tolerant laccase from Peniophora cinerea. *Separation and Purification Technology*, **2014**, 135, 183-189	8.3	24
86	Cell immobilization and xylitol production using sugarcane bagasse as raw material. *Applied Biochemistry and Biotechnology*, **2007**, 141, 215-27	3.2	24
85	Xylitol production in a bubble column bioreactor: Influence of the aeration rate and immobilized system concentration. *Process Biochemistry*, **2007**, 42, 258-262	4.8	24
84	Techno-economic assessment of bioenergy and fertilizer production by anaerobic digestion of brewer's spent grains in a biorefinery concept. *Journal of Cleaner Production*, **2021**, 297, 126600	10.3	24

83	Recovery of Peniophora cinerea laccase using aqueous two-phase systems composed by ethylene oxide/propylene oxide copolymer and potassium phosphate salts. *Journal of Chromatography A*, **2013**, 1321, 14-20	4.5	23
82	Biomass Pretreatment, Biorefineries, and Potential Products for a Bioeconomy Development **2016**, 1-22		23
81	Xylitol production in immobilized cultures: a recent review. *Critical Reviews in Biotechnology*, **2016**, 36, 691-704	9.4	22
80	Production of white wine by Saccharomyces cerevisiae immobilized on grape pomace. *Journal of the Institute of Brewing*, **2012**, 118, 163-173	2	21
79	Economic analysis and environmental impact assessment of three different fermentation processes for fructooligosaccharides production. *Bioresource Technology*, **2015**, 198, 673-81	11	20
78	Laccase production by free and immobilized mycelia of Peniophora cinerea and Trametes versicolor: a comparative study. *Bioprocess and Biosystems Engineering*, **2013**, 36, 365-73	3.7	20
77	Kinetic behavior of Candida guilliermondii yeast during xylitol production from Brewer's spent grain hemicellulosic hydrolysate. *Biotechnology Progress*, **2005**, 21, 1352-6	2.8	20
76	Solid-state fermentation as a strategy to improve the bioactive compounds recovery from Larrea tridentata leaves. *Applied Biochemistry and Biotechnology*, **2013**, 171, 1227-39	3.2	19
75	Evaluation of nutrient supplementation to charcoal-treated and untreated rice straw hydrolysate for xylitol production by Candida guilliermondii. *Brazilian Archives of Biology and Technology*, **2005**, 48, 497-502	1.8	19
74	Decolorization of salt-alkaline effluent with industrial reactive dyes by laccase-producing Basidiomycetes strains. *Letters in Applied Microbiology*, **2013**, 56, 283-90	2.9	18
73	Xilitol: edulcorante com efeitos benficos para a sade humana. *BJPS: Brazilian Journal of Pharmaceutical Sciences*, **2002**, 38, 401-413		18
72	Increasing the Sustainability of the Coffee Agro-Industry: Spent Coffee Grounds as a Source of New Beverages. *Beverages*, **2018**, 4, 105	3.4	18
71	Exploiting new biorefinery models using non-conventional yeasts and their implications for sustainability. *Bioresource Technology*, **2020**, 309, 123374	11	17
70	Purification of xylitol from fermented hemicellulosic hydrolyzate using liquid-liquid extraction and precipitation techniques. *Biotechnology Letters*, **2005**, 27, 1113-5	3	17
69	Influence of temperature on continuous high gravity brewing with yeasts immobilized on spent grains. *European Food Research and Technology*, **2008**, 228, 257-264	3.4	16
68	Fermentation performance of Candida guilliermondii for xylitol production on single and mixed substrate media. *Applied Microbiology and Biotechnology*, **2006**, 72, 681-6	5.7	16
67	Strategies for an improved extraction and separation of lipids and carotenoids from oleaginous yeast. *Separation and Purification Technology*, **2021**, 257, 117946	8.3	16
66	Gallic Acid Production with Mouldy Polyurethane Particles Obtained from Solid State Culture of Aspergillus niger GH1. *Applied Biochemistry and Biotechnology*, **2015**, 176, 1131-40	3.2	15

65	Production of Itaconic Acid from Cellulose Pulp: Feedstock Feasibility and Process Strategies for an Efficient Microbial Performance. *Energies*, **2020**, 13, 1654	3.1	15
64	A closer look at the developments and impact of biofuels in transport and environment; what are the next steps?. *Biofuel Research Journal*, **2016**, 3, 331-331	13.9	15
63	An overview of subcritical and supercritical water treatment of different biomasses for protein and amino acids production and recovery. *Journal of Environmental Chemical Engineering*, **2020**, 8, 104406	6.8	15
62	Isolation and physicochemical characterization of different lignin streams generated during the second-generation ethanol production process. *International Journal of Biological Macromolecules*, **2019**, 129, 497-510	7.9	14
61	Integrated continuous winemaking process involving sequential alcoholic and malolactic fermentations with immobilized cells. *Process Biochemistry*, **2014**, 49, 1-9	4.8	14
60	A study on the recovery of xylitol by batch adsorption and crystallization from fermented sugarcane bagasse hydrolysate. *Journal of Chemical Technology and Biotechnology*, **2006**, 81, 1840-1845	3.5	14
59	Adaptive laboratory evolution of Rhodosporidium toruloides to inhibitors derived from lignocellulosic biomass and genetic variations behind evolution. *Bioresource Technology*, **2021**, 333, 125171	11	14
58	Influence of thermal effect on sugars composition of Mexican Agave syrup. *CYTA - Journal of Food*, **2015**, 1-6	2.3	13
57	Ethanol Production from High Solid Loading of Rice Straw by Simultaneous Saccharification and Fermentation in a Non-Conventional Reactor. *Energies*, **2020**, 13, 2090	3.1	13
56	Fructo-oligosaccharides (FOS) production by fungal submerged culture using aguamiel as a low-cost by-product. *LWT - Food Science and Technology*, **2019**, 102, 75-79	5.4	13
55	Synthesis and Application of Heterogeneous Catalysts Based on Heteropolyacids for 5-Hydroxymethylfurfural Production from Glucose. *Energies*, **2020**, 13, 655	3.1	12
54	Production of xylitol and carotenoids from switchgrass and Eucalyptus globulus hydrolysates obtained by intensified steam explosion pretreatment. *Industrial Crops and Products*, **2021**, 170, 113800	5.9	12
53	Consecutive alcoholic fermentations of white grape musts with yeasts immobilized on grape skins Effect of biocatalyst storage and SO2 concentration on wine characteristics. *LWT - Food Science and Technology*, **2014**, 59, 1114-1122	5.4	11
52	Variables that affect xylitol production from sugarcane bagasse hydrolysate in a zeolite fluidized bed reactor. *Biotechnology Progress*, **2005**, 21, 1639-43	2.8	11
51	A spatially explicit assessment of sugarcane vinasse as a sustainable by-product. *Science of the Total Environment*, **2021**, 765, 142717	10.2	11
50	Generating Biomedical Polyphenolic Compounds from Spent Coffee or Silverskin **2015**, 93-106		10
49	Improvement on D-xylose to Xylitol Biotransformation by Candida guilliermondii Using Cells Permeabilized with Triton X-100 and Selected Process Conditions. *Applied Biochemistry and Biotechnology*, **2016**, 180, 969-979	3.2	10
48	Immobilized cells cultivated in semi-continuous mode in a fluidized bed reactor for xylitol production from sugarcane bagasse. *World Journal of Microbiology and Biotechnology*, **2005**, 21, 531-535	4.4	10

47	Application of Xylitol in Food Formulations and Benefits for Health **2012**, 309-323		9
46	Cellulose: a key polymer for a greener, healthier, and bio-based future. *Biofuel Research Journal*, **2016**, 3, 482-482	13.9	9
45	Biomass Pretreatment With Acids **2016**, 169-185		9
44	A bibliometric analysis on potential uses of brewer's spent grains in a biorefinery for the circular economy transition of the beer industry. *Biofuels, Bioproducts and Biorefining*,	5.3	9
43	An approach to cellulase recovery from enzymatic hydrolysis of pretreated sugarcane bagasse with high lignin content. *Biocatalysis and Biotransformation*, **2015**, 33, 287-297	2.5	8
42	Brazilian biorefineries from second generation biomass: critical insights from industry and future perspectives. *Biofuels, Bioproducts and Biorefining*, **2021**, 15, 1190	5.3	8
41	Hyaluronidase-inhibitory activities of glycosaminoglycans from Liparis tessellatus eggs. *Carbohydrate Polymers*, **2017**, 161, 16-20	10.3	7
40	A robotic platform to screen aqueous two-phase systems for overcoming inhibition in enzymatic reactions. *Bioresource Technology*, **2019**, 280, 37-50	11	7
39	Enzyme-assisted extraction of anticoagulant polysaccharide from Liparis tessellatus eggs. *International Journal of Biological Macromolecules*, **2015**, 74, 601-7	7.9	7
38	Effects of inhibitory compounds derived from lignocellulosic biomass on the growth of the wild-type and evolved oleaginous yeast Rhodosporidium toruloides. *Industrial Crops and Products*, **2021**, 170, 113799	5.9	7
37	New trends in bioprocesses for lignocellulosic biomass and CO2 utilization. *Renewable and Sustainable Energy Reviews*, **2021**, 152, 111620	16.2	7
36	Optimal glucose and inoculum concentrations for production of bioactive molecules by Paenibacillus polymyxa RNC-D. *Chemical Papers*, **2012**, 66,	1.9	6
35	Techno-economic assessment of subcritical water hydrolysis process for sugars production from brewer□s spent grains. *Industrial Crops and Products*, **2021**, 171, 113836	5.9	6
34	Microwave-Assisted Extraction of Fucoidan from Marine Algae. *Methods in Molecular Biology*, **2015**, 1308, 151-7	1.4	5
33	Influence of trace elements supplementation on the production of recombinant frutalin by Pichia pastoris KM71H in fed-batch process. *Chemical Papers*, **2013**, 67,	1.9	5
32	Avaliaõ de diferentes tipos de carvõ ativo na destoxificaõ de hidrolisado de palha de arroz para produõ de xilitol. *Food Science and Technology*, **2004**, 24, 94-100	2	5
31	Aloe vera and Probiotics: A New Alternative to Symbiotic Functional Foods. *Annual Research & Review in Biology*, **2016**, 9, 1-11	0.8	5
30	Scaling up xylitol bioproduction: Challenges to achieve a profitable bioprocess. *Renewable and Sustainable Energy Reviews*, **2022**, 154, 111789	16.2	5

29	A vertical ball mill as a new reactor design for biomass hydrolysis and fermentation process. *Renewable Energy*, **2017**, 114, 775-780	8.1	5
28	Waste Management Strategies; the State of the Art. *Biofuel and Biorefinery Technologies*, **2018**, 1-33	1	4
27	TYPICAL MEXICAN AGROINDUSTRIAL RESIDUES AS SUPPORTS FOR SOLID-STATE FERMENTATION. *American Journal of Agricultural and Biological Science*, **2014**, 9, 289-293	1.7	4
26	Utilizaõ de mostos concentrados na produõ de cervejas pelo processo contõuo: novas tendõncias para o aumento da produtividade. *Food Science and Technology*, **2007**, 27, 37-40	2	4
25	Production of 5-Hydroxymethylfurfural from Direct Conversion of Cellulose Using Heteropolyacid/Nb2O5 as Catalyst. *Catalysts*, **2020**, 10, 1417	4	4
24	Fixed-Bed Column Process as a Strategy for Separation and Purification of Cephamycin C from Fermented Broth. *Industrial & Engineering Chemistry Research*, **2015**, 54, 3018-3026	3.9	3
23	Bacteriocin-like inhibitory substances production by Enterococcus faecium 135 in co-culture with Ligilactobacillus salivarius and Limosilactobacillus reuteri.. *Brazilian Journal of Microbiology*, **2022**, 53, 131	2.2	3
22	Technoeconomic Considerations for Biomass Fractionation in a Biorefinery Context **2016**, 587-610		3
21	Production of a Transfructosylating Enzymatic Activity Associated to Fructooligosaccharides. *Energy, Environment, and Sustainability*, **2019**, 345-355	0.8	3
20	Xylanase pretreatment of energy cane enables facile cellulose nanocrystal isolation. *Cellulose*, **2021** , 28, 799-812	5.5	3
19	Bioprocess intensification: Cases that (don't) work. *New Biotechnology*, **2021**, 61, 108-115	6.4	3
18	Maximizing the simultaneous production of lipids and carotenoids by Rhodosporidium toruloides from wheat straw hydrolysate and perspectives for large-scale implementation. *Bioresource Technology*, **2021**, 340, 125598	11	3
17	Comparative evaluation of acid and alkaline sulfite pretreatments for enzymatic saccharification of bagasses from three different sugarcane hybrids. *Biotechnology Progress*, **2018**, 34, 944-951	2.8	2
16	Optimization of sulphated polysaccharides recovery from brown seaweeds by microwave-assisted extraction. *Journal of Biotechnology*, **2010**, 150, 394-395	3.7	2
15	Antioxidant capacity and NDGA content of Larrea tridentata (a desert bush) leaves extracted with different solvents. *Journal of Biotechnology*, **2010**, 150, 500-500	3.7	2
14	Dry Anaerobic Digestion of Food Industry by-Products and Bioenergy Recovery: A Perspective to Promote the Circular Economy Transition. *Waste and Biomass Valorization*,1	3.2	2
13	Surrogate Modelling Based Uncertainty and Sensitivity Analysis for the Downstream Process Design of a Xylitol Biorefinery. *Computer Aided Chemical Engineering*, **2020**, 1663-1668	0.6	2
12	L-asparaginase Production by in a Bench-Scale Bioreactor With Co-production of Lipids. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 576511	5.8	2

11	Enzymatic Hydrolysis of Sugarcane Bagasse in Aqueous Two-Phase Systems (ATPS): Exploration and Conceptual Process Design. *Frontiers in Chemistry*, **2020**, 8, 587	5	2
10	A critical assessment of the Flory-Huggins (FH) theory to predict aqueous two-phase behaviour. *Separation and Purification Technology*, **2021**, 255, 117636	8.3	2
9	Biotechnological Production of Oligosaccharides: Advances and Challenges381-392		2
8	Physicochemical Characterization of the Yeast Cells and Lignocellulosic Waste Used in Cell Immobilization for Ethanol Production **2017**,		1
7	Properties and volatile profile of process flavorings prepared from d-xylose with glycine, alanine or valine by direct extrusion method. *Food Bioscience*, **2021**, 44, 101371	4.9	1
6	Valorization of Pinus taeda hemicellulosic hydrolysate for the production of value-added compounds in an ethanol biorefinery. *Fuel*, **2022**, 318, 123489	7.1	1
5	Subcritical water hydrolysis of poultry feathers for amino acids production. *Journal of Supercritical Fluids*, **2022**, 181, 105492	4.2	0
4	Model development for the optimization of operational conditions of the pretreatment of wheat straw. *Chemical Engineering Journal*, **2021**, 430, 133106	14.7	0
3	Effects of Inhibitory Compounds Present in Lignocellulosic Biomass Hydrolysates on the Growth of Bacillus subtilis. *Energies*, **2021**, 14, 8419	3.1	0
2	Beer. *Contemporary Food Engineering*, **2013**, 429-444		
1	Preparation and properties of biodegradable cat litter produced from cassava (Manihot esculenta L. Crantz) trunk. *E3S Web of Conferences*, **2021**, 302, 02017	0.5	