

Francisco M GÃ-rio

List of Publications by Year in descending order

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78
papers

3,042
citations

117625

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h-index

168389

53
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81
all docs

81
docs citations

81
times ranked

3436
citing authors

#	ARTICLE	IF	CITATIONS
1	Wheat Straw Autohydrolysis: Process Optimization and Products Characterization. Applied Biochemistry and Biotechnology, 2009, 153, 84-93.	2.9	193
2	In vitro fermentation of xylo-oligosaccharides from corn cobs autohydrolysis by Bifidobacterium and Lactobacillus strains. LWT - Food Science and Technology, 2007, 40, 963-972.	5.2	166
3	Cellular death of two non-Saccharomyces wine-related yeasts during mixed fermentations with Saccharomyces cerevisiae. International Journal of Food Microbiology, 2006, 108, 336-45.	4.7	137
4	Saccharomyces cerevisiae CCMI 885 secretes peptides that inhibit the growth of some non-Saccharomyces wine-related strains. Applied Microbiology and Biotechnology, 2010, 86, 965-972.	3.6	116
5	Conversion of recycled paper sludge to ethanol by SHF and SSF using Pichia stipitis. Biomass and Bioenergy, 2008, 32, 400-406.	5.7	110
6	The effects of the oxygen transfer coefficient and substrate concentration on the xylose fermentation by Debaryomyces hansenii. Archives of Microbiology, 1991, 156, 484-490.	2.2	108
7	Lactic acid production from recycled paper sludge by simultaneous saccharification and fermentation. Biochemical Engineering Journal, 2008, 41, 210-216.	3.6	108
8	Exploring xylose metabolism in Spathaspora species: XYL1.2 from Spathaspora passalidarum as the key for efficient anaerobic xylose fermentation in metabolic engineered Saccharomyces cerevisiae. Biotechnology for Biofuels, 2016, 9, 167.	6.2	93
9	Supercritical, ultrasound and conventional extracts from carob (Ceratonia siliqua L.) biomass: Effect on the phenolic profile and antiproliferative activity. Industrial Crops and Products, 2013, 47, 132-138.	5.2	92
10	Application of fluorescence in situ hybridisation (FISH) to the analysis of yeast population dynamics in winery and laboratory grape must fermentations. International Journal of Food Microbiology, 2006, 108, 376-84.	4.7	76
11	Gasification of lignin-rich residues for the production of biofuels via syngas fermentation: Comparison of gasification technologies. Fuel, 2019, 251, 580-592.	6.4	72
12	Production, purification and characterisation of oligosaccharides from olive tree pruning autohydrolysis. Industrial Crops and Products, 2012, 40, 225-231.	5.2	70
13	Desulfurization of Dibenzothiophene, Benzothiophene, and Other Thiophene Analogs by a Newly Isolated Bacterium, <i>Gordonia alkanivorans</i> Strain 1B. Applied Biochemistry and Biotechnology, 2005, 120, 199-208.	2.9	68
14	Mannitol production by lactic acid bacteria grown in supplemented carob syrup. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 221-227.	3.0	63
15	Effect of oxygen transfer rate on levels of key enzymes of xylose metabolism in Debaryomyces hansenii. Enzyme and Microbial Technology, 1994, 16, 1074-1078.	3.2	62
16	Kinetic Modeling of Brewery's Spent Grain Autohydrolysis. Biotechnology Progress, 2008, 21, 233-243.	2.6	62
17	Comparison of Two Posthydrolysis Processes of Brewery's Spent Grain Autohydrolysis Liquor to Produce a Pentose-Containing Culture Medium. Applied Biochemistry and Biotechnology, 2004, 115, 1041-1058.	2.9	55
18	Biorefining strategy for maximal monosaccharide recovery from three different feedstocks: Eucalyptus residues, wheat straw and olive tree pruning. Bioresource Technology, 2015, 183, 203-212.	9.6	54

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19	Effects of Aliphatic Acids, Furfural, and Phenolic Compounds on <i>Debaryomyces hansenii</i> CCMI 941. <i>Applied Biochemistry and Biotechnology</i> , 2005, 121, 0413-0426.	2.9	52
20	Supercritical extraction of carob kibbles (<i>Ceratonia siliqua</i> L.). <i>Journal of Supercritical Fluids</i> , 2011, 59, 36-42.	3.2	52
21	Water availability and water usage solutions for electrolysis in hydrogen production. <i>Journal of Cleaner Production</i> , 2021, 315, 128124.	9.3	49
22	Dibenzothiophene desulfurization by <i>Gordonia alkanivorans</i> strain 1B using recycled paper sludge hydrolyzate. <i>Chemosphere</i> , 2008, 70, 967-973.	8.2	48
23	The Effect of the Chemical Character of Ionic Liquids on Biomass Pre-Treatment and Posterior Enzymatic Hydrolysis. <i>Molecules</i> , 2019, 24, 808.	3.8	48
24	Life cycle assessment of advanced bioethanol production from pulp and paper sludge. <i>Bioresource Technology</i> , 2016, 208, 100-109.	9.6	47
25	Enzymatic and physiological study of d-xylose metabolism by <i>Candida shehatae</i> . <i>Applied Microbiology and Biotechnology</i> , 1989, 32, 199-204.	3.6	46
26	In vitro fermentation of selected xylo-oligosaccharides by piglet intestinal microbiota. <i>LWT - Food Science and Technology</i> , 2008, 41, 1952-1961.	5.2	42
27	Targeting sustainable bioeconomy: A new development strategy for Southern European countries. The Manifesto of the European Mezzogiorno. <i>Journal of Cleaner Production</i> , 2018, 172, 3931-3941.	9.3	42
28	Characterization of xylitol dehydrogenase from <i>debaryomyces hansenii</i> . <i>Applied Biochemistry and Biotechnology</i> , 1996, 56, 79-87.	2.9	40
29	Hydrothermal pretreatment of several lignocellulosic mixtures containing wheat straw and two hardwood residues available in Southern Europe. <i>Bioresource Technology</i> , 2015, 183, 213-220.	9.6	39
30	A physiological and enzymatic study of <i>Debaryomyces hansenii</i> growth on xylose- and oxygen-limited chemostats. <i>Applied Microbiology and Biotechnology</i> , 2002, 59, 509-516.	3.6	38
31	Dilute Acid Hydrolysis of Wheat Straw Oligosaccharides. <i>Applied Biochemistry and Biotechnology</i> , 2009, 153, 116-126.	2.9	38
32	Xylitol production by <i>Debaryomyces hansenii</i> in brewery spent grain dilute-acid hydrolysate: effect of supplementation. <i>Biotechnology Letters</i> , 2007, 29, 1887-1891.	2.2	36
33	The effect of acid stress on lactate production and growth kinetics in <i>Lactobacillus rhamnosus</i> cultures. <i>Process Biochemistry</i> , 2008, 43, 356-361.	3.7	36
34	Optimization of Brewery's Spent Grain Dilute-Acid Hydrolysis for the Production of Pentose-Rich Culture Media. <i>Applied Biochemistry and Biotechnology</i> , 2004, 115, 1059-1072.	2.9	33
35	Identification and characterisation of xylanolytic yeasts isolated from decaying wood and sugarcane bagasse in Brazil. <i>Antonie Van Leeuwenhoek</i> , 2014, 105, 1107-1119.	1.7	33
36	Effects of experimental conditions and of addition of natural minerals on syngas production from lignin by oxy-gasification: Comparison of bench- and pilot scale gasification. <i>Fuel</i> , 2015, 140, 62-72.	6.4	32

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37	Techno-economic and life-cycle assessments of small-scale biorefineries for isobutene and xylooligosaccharides production: a comparative study in Portugal and Chile. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 1321-1332.	3.7	31
38	Diversity of microfungi in the phylloplane of plants growing in a Mediterranean ecosystem. <i>Journal of Basic Microbiology</i> , 2002, 42, 396-407.	3.3	29
39	Characterization of a Thermotolerant and Alkalotolerant Xylanase from a <i>Bacillus</i> sp.. <i>Applied Biochemistry and Biotechnology</i> , 1998, 73, 159-172.	2.9	28
40	Process simulation and techno-economic assessment for direct production of advanced bioethanol using a genetically modified <i>Synechocystis</i> sp.. <i>Bioresource Technology Reports</i> , 2019, 6, 113-122.	2.7	28
41	Supplementation requirements of brewery's spent grain hydrolysate for biomass and xylitol production by <i>Debaryomyces hansenii</i> CCM1 941. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006, 33, 646-654.	3.0	27
42	Use of interdelta polymorphisms of <i>Saccharomyces cerevisiae</i> strains to monitor population evolution during wine fermentation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011, 38, 127-132.	3.0	23
43	Ca ²⁺ and the bacterial peroxidases: the cytochrome c peroxidase from <i>Pseudomonas stutzeri</i> . <i>Journal of Biological Inorganic Chemistry</i> , 2003, 8, 29-37.	2.6	22
44	Yeast Biomass Production in Brewery's Spent Grains Hemicellulosic Hydrolyzate. <i>Applied Biochemistry and Biotechnology</i> , 2008, 148, 119-129.	2.9	21
45	Evaluation of the ethanol tolerance for wild and mutant <i>Synechocystis</i> strains by flow cytometry. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2018, 17, 137-147.	4.4	21
46	A novel strain of <i>Streptomyces malaysiensis</i> isolated from Brazilian soil produces high endo- α -1,4-xylanase titres. <i>World Journal of Microbiology and Biotechnology</i> , 2003, 19, 879-881.	3.6	20
47	Evaluation of the Potential of Biomass to Energy in Portugal – Conclusions from the CONVERTE Project. <i>Energies</i> , 2020, 13, 937.	3.1	20
48	Lactic acid production from recycled paper sludge: Process intensification by running fed-batch into a membrane-recycle bioreactor. <i>Biochemical Engineering Journal</i> , 2017, 120, 63-72.	3.6	17
49	Evidence for the role of zinc on the performance of dibenzothiophene desulfurization by <i>Gordonia alkanivorans</i> strain 1B. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008, 35, 69-73.	3.0	16
50	Pulsed fed-batch strategy towards intensified process for lactic acid production using recycled paper sludge. <i>Biomass Conversion and Biorefinery</i> , 2017, 7, 127-137.	4.6	16
51	Physiological behaviour of in aerobic glucose-limited continuous cultures. <i>FEMS Yeast Research</i> , 2003, 3, 211-216.	2.3	15
52	The Combined Effects of Acetic Acid, Formic Acid, and Hydroquinone on <i>Debaryomyces hansenii</i> Physiology. <i>Applied Biochemistry and Biotechnology</i> , 2006, 130, 461-475.	2.9	15
53	Biotechnological valorization potential indicator for lignocellulosic materials. <i>Biotechnology Journal</i> , 2007, 2, 1556-1563.	3.5	15
54	PCR monitoring of <i>Lactobacillus</i> and <i>Bifidobacterium</i> dynamics in fermentations by piglet intestinal microbiota. <i>Journal of Basic Microbiology</i> , 2007, 47, 148-157.	3.3	14

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55	Low Indirect Land Use Change (ILUC) Energy Crops to Bioenergy and Biofuels – A Review. <i>Energies</i> , 2022, 15, 4348.	3.1	14
56	Yield improvements in carob sugar extraction. <i>Process Biochemistry</i> , 1991, 26, 179-182.	3.7	13
57	The effect of molybdate and tungstate ions on the metabolic rates and enzyme activities in methanol-grown <i>Methylobacterium</i> sp. RXM. <i>Applied Microbiology and Biotechnology</i> , 1994, 40, 898-903.	3.6	13
58	Deconstruction of the Hemicellulose Fraction from Lignocellulosic Materials into Simple Sugars. , 2012, , 3-37.		13
59	Transition metal requirement to express high level NAD ⁺ -dependent formate dehydrogenase from a serine-type methylotrophic bacterium. <i>FEMS Microbiology Letters</i> , 1992, 97, 161-166.	1.8	10
60	Determination of the kinetic parameters in continuous cultivation by <i>Debaryomyces hansenii</i> grown on D-xylose. <i>Biotechnology Letters</i> , 1994, 8, 859-864.	0.5	10
61	Ethanol Production from Sugarcane Bagasse Using Phosphoric Acid-Catalyzed Steam Explosion. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	10
62	Biorefineries in the World. <i>Lecture Notes in Energy</i> , 2017, , 227-281.	0.3	10
63	Kinetic and metabolic effects of nitrogen, magnesium and sulphur restriction in <i>Xanthomonas campestris</i> batch cultures. <i>Journal of Applied Bacteriology</i> , 1993, 75, 381-386.	1.1	9
64	The Effect of the Simultaneous Addition of Molybdenum and Tungsten to the Culture Medium on the Formate Dehydrogenase Activity from <i>Methylobacterium</i> sp. RXM. <i>Current Microbiology</i> , 1998, 36, 337-340.	2.2	8
65	An overview of lignin pathways of valorization: from isolation to refining and conversion into value-added products. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3183-3207.	4.6	8
66	Physiological responses of a methylotrophic bacterium after sudden shifts from C-limited chemostat to C-excess batch growth conditions. <i>Journal of Applied Bacteriology</i> , 1995, 79, 409-416.	1.1	6
67	Enzymatic hydrolyses of pretreated eucalyptus residues, wheat straw or olive tree pruning, and their mixtures towards flexible sugar-based biorefineries. <i>Biomass Conversion and Biorefinery</i> , 2016, 6, 385-396.	4.6	5
68	The use of flow cytometry to assess <i>Rhodospiridium toruloides</i> NCYC 921 performance for lipid production using <i>Miscanthus</i> sp. hydrolysates. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 30, e00639.	4.4	4
69	Imidazole Processing of Wheat Straw and Eucalyptus Residues – Comparison of Pre-Treatment Conditions and Their Influence on Enzymatic Hydrolysis. <i>Molecules</i> , 2021, 26, 7591.	3.8	4
70	Comparison of Two Posthydrolysis Processes of Brewery's Spent Grain Autohydrolysis Liquor to Produce a Pentose-Containing Culture Medium. , 2004, , 1041-1058.		3
71	Lignin Syngas Bioconversion by <i>Butyribacterium methylotrophicum</i> : Advancing towards an Integrated Biorefinery. <i>Energies</i> , 2021, 14, 7124.	3.1	3
72	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 2003, 19, 201-208.	3.6	2

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73	Innovation on Bioenergy. , 2019, , 405-433.		2
74	The Combined Effects of Acetic Acid, Formic Acid, and Hydroquinone on <i>Debaryomyces hansenii</i> Physiology. , 2006, , 461-475.		1
75	Optimization of Brewery's Spent Grain Dilute-Acid Hydrolysis for the Production of Pentose-Rich Culture Media. , 2004, , 1059-1072.		1
76	A New Dehydrogenase Specific Towards Aromatic Aldehydes From A Halophilic Bacterium. Protein and Peptide Letters, 2003, 10, 449-457.	0.9	1
77	A Thermotolerant Xylan-Degrading Enzyme Is Produced by <i>Streptomyces malaysiensis</i> AMT-3 Using by-Products From the Food Industry. Brazilian Archives of Biology and Technology, 0, 63, .	0.5	1
78	Effects of Aliphatic Acids, Furfural and Phenolic Compounds on <i>Debaryomyces hansenii</i> CCMI 941. , 2005, , 413-425.		1