

LuÃ-s C Duarte

List of Publications by Year in descending order

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71
papers

3,508
citations

201674

27
h-index

138484

58
g-index

75
all docs

75
docs citations

75
times ranked

4136
citing authors

#	ARTICLE	IF	CITATIONS
1	Hemicelluloses for fuel ethanol: A review. <i>Bioresource Technology</i> , 2010, 101, 4775-4800.	9.6	1,249
2	Pre-treatment of lignocellulosic biomass using ionic liquids: Wheat straw fractionation. <i>Bioresource Technology</i> , 2013, 142, 198-208.	9.6	258
3	Wheat Straw Autohydrolysis: Process Optimization and Products Characterization. <i>Applied Biochemistry and Biotechnology</i> , 2009, 153, 84-93.	2.9	193
4	Evaluation of the detoxification of brewery's spent grain hydrolysate for xylitol production by <i>Debaryomyces hansenii</i> CCM1 941. <i>Process Biochemistry</i> , 2005, 40, 1215-1223.	3.7	141
5	Hydrolysis of Oligosaccharides Over Solid Acid Catalysts: A Review. <i>ChemSusChem</i> , 2014, 7, 1010-1019.	6.8	100
6	Supercritical, ultrasound and conventional extracts from carob (<i>Ceratonia siliqua</i> L.) biomass: Effect on the phenolic profile and antiproliferative activity. <i>Industrial Crops and Products</i> , 2013, 47, 132-138.	5.2	92
7	Hydrothermal production and gel filtration purification of xylo-oligosaccharides from rice straw. <i>Industrial Crops and Products</i> , 2014, 62, 460-465.	5.2	68
8	Mannitol production by lactic acid bacteria grown in supplemented carob syrup. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011, 38, 221-227.	3.0	63
9	Production and purification of xylooligosaccharides from oil palm empty fruit bunch fibre by a non-isothermal process. <i>Bioresource Technology</i> , 2014, 152, 526-529.	9.6	63
10	Assessment of the bifidogenic effect of substituted xylo-oligosaccharides obtained from corn straw. <i>Carbohydrate Polymers</i> , 2016, 136, 466-473.	10.2	59
11	Comparison of Two Posthydrolysis Processes of Brewery's Spent Grain Autohydrolysis Liquor to Produce a Pentose-Containing Culture Medium. <i>Applied Biochemistry and Biotechnology</i> , 2004, 115, 1041-1058.	2.9	55
12	Biorefining strategy for maximal monosaccharide recovery from three different feedstocks: Eucalyptus residues, wheat straw and olive tree pruning. <i>Bioresource Technology</i> , 2015, 183, 203-212.	9.6	54
13	Effects of Aliphatic Acids, Furfural, and Phenolic Compounds on <i>Debaryomyces hansenii</i> CCM1 941. <i>Applied Biochemistry and Biotechnology</i> , 2005, 121, 0413-0426.	2.9	52
14	Supercritical extraction of carob kibbles (<i>Ceratonia siliqua</i> L.). <i>Journal of Supercritical Fluids</i> , 2011, 59, 36-42.	3.2	52
15	The influence of hexoses addition on the fermentation of d-xylose in <i>Debaryomyces hansenii</i> under continuous cultivation. <i>Enzyme and Microbial Technology</i> , 2000, 26, 743-747.	3.2	46
16	A cytochrome c peroxidase from <i>Pseudomonas nautica</i> 617 active at high ionic strength: expression, purification and characterization. <i>BBA - Proteins and Proteomics</i> , 1999, 1434, 248-259.	2.1	43
17	Fractionation of Hemicelluloses and Lignin from Rice Straw by Combining Autohydrolysis and Optimised Mild Organosolv Delignification. <i>BioResources</i> , 2015, 10, .	1.0	42
18	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

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19	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
20	Dilute Acid Hydrolysis of Wheat Straw Oligosaccharides. <i>Applied Biochemistry and Biotechnology</i> , 2009, 153, 116-126.	2.9	38
21	Separation of oligosaccharides from caprine milk whey, prior to prebiotic evaluation. <i>International Dairy Journal</i> , 2012, 24, 102-106.	3.0	37
22	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
23	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
24	Detoxification of hemicellulosic hydrolysates from extracted olive pomace by dnanofiltration. <i>Process Biochemistry</i> , 2014, 49, 173-180.	3.7	32
25	Techno-economic and life-cycle assessments of small-scale biorefineries for isobutene and xylo-oligosaccharides production: a comparative study in Portugal and Chile. <i>Biofuels, Bioproducts and Biorefining</i> , 2019, 13, 1321-1332.	3.7	31
26	Bioproducts from forest biomass: Essential oils and hydrolates from wastes of <i>Cupressus lusitanica</i> Mill. and <i>Cistus ladanifer</i> L.. <i>Industrial Crops and Products</i> , 2020, 144, 112034.	5.2	31
27	Selective recovery of phenolic compounds and carbohydrates from carob kibbles using water-based extraction. <i>Industrial Crops and Products</i> , 2015, 70, 443-450.	5.2	29
28	Membrane separation and characterisation of lignin and its derived products obtained by a mild ethanol organosolv treatment of rice straw. <i>Process Biochemistry</i> , 2018, 65, 136-145.	3.7	29
29	Supplementation requirements of brewery's spent grain hydrolysate for biomass and xylitol production by <i>Debaryomyces hansenii</i> CCMI 941. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2006, 33, 646-654.	3.0	27
30	<i>In vitro</i> evaluation of the fermentation properties and potential prebiotic activity of caprine cheese whey oligosaccharides in batch culture systems. <i>BioFactors</i> , 2012, 38, 440-449.	5.4	23
31	Nanofiltration and reverse osmosis as a platform for production of natural botanic extracts: The case study of carob by-products. <i>Separation and Purification Technology</i> , 2015, 149, 389-397.	7.9	23
32	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
33	Autohydrolysis of <i>Annona cherimola</i> Mill. seeds: Optimization, modeling and products characterization. <i>Biochemical Engineering Journal</i> , 2015, 104, 2-9.	3.6	22
34	Bioethanol production from extracted olive pomace: dilute acid hydrolysis. <i>Bioethanol</i> , 2016, 2, .	1.2	22
35	Yeast Biomass Production in Brewery's Spent Grains Hemicellulosic Hydrolyzate. <i>Applied Biochemistry and Biotechnology</i> , 2008, 148, 119-129.	2.9	21
36	Combined hydrothermal pre-treatment and enzymatic hydrolysis of corn fibre: Production of ferulic acid extracts and assessment of their antioxidant and antiproliferative properties. <i>Industrial Crops and Products</i> , 2021, 170, 113731.	5.2	20

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37	Distillery Residues from <i>Cistus ladanifer</i> (Rockrose) as Feedstock for the Production of Added-Value Phenolic Compounds and Hemicellulosic Oligosaccharides. <i>Bioenergy Research</i> , 2019, 12, 347-358.	3.9	19
38	Removal of inhibitory compounds from olive stone auto-hydrolysis liquors by nanofiltration. <i>Desalination and Water Treatment</i> , 2011, 27, 90-96.	1.0	18
39	Assessment of the effect of autohydrolysis treatment in banana's pseudostem pulp. <i>Waste Management</i> , 2021, 119, 306-314.	7.4	18
40	Pulp properties resulting from different pretreatments of wheat straw and their influence on enzymatic hydrolysis rate. <i>Bioresource Technology</i> , 2014, 169, 206-212.	9.6	17
41	Delignification of <i>Cistus ladanifer</i> Biomass by Organosolv and Alkali Processes. <i>Energies</i> , 2021, 14, 1127.	3.1	17
42	Recovery of Bioactive Compounds from Industrial Exhausted Olive Pomace through Ultrasound-Assisted Extraction. <i>Biology</i> , 2021, 10, 514.	2.8	17
43	Bioproducts from forest biomass II. Bioactive compounds from the steam-distillation by-products of <i>Cupressus lusitanica</i> Mill. and <i>Cistus ladanifer</i> L. wastes. <i>Industrial Crops and Products</i> , 2020, 158, 112991.	5.2	16
44	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
45	Biotechnological valorization potential indicator for lignocellulosic materials. <i>Biotechnology Journal</i> , 2007, 2, 1556-1563.	3.5	15
46	Acid-modified clays as green catalysts for the hydrolysis of hemicellulosic oligosaccharides. <i>Catalysis Science and Technology</i> , 2015, 5, 4072-4080.	4.1	14
47	Low Indirect Land Use Change (ILUC) Energy Crops to Bioenergy and Biofuels—A Review. <i>Energies</i> , 2022, 15, 4348.	3.1	14
48	Deconstruction of the Hemicellulose Fraction from Lignocellulosic Materials into Simple Sugars. , 2012, , 3-37.		13
49	Hydrothermal Treatments of <i>Cistus ladanifer</i> Industrial Residues Obtained from Essential Oil Distilleries. <i>Waste and Biomass Valorization</i> , 2019, 10, 1303-1310.	3.4	12
50	<i>Cistus ladanifer</i> as a source of chemicals: structural and chemical characterization. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 325-337.	4.6	12
51	Selective single-stage xylan-to-xylose hydrolysis and its effect on enzymatic digestibility of energy crops giant reed and cardoon for bioethanol production. <i>Industrial Crops and Products</i> , 2017, 95, 104-112.	5.2	11
52	D-Lactic acid production from <i>Cistus ladanifer</i> residues: Co-fermentation of pentoses and hexoses by <i>Escherichia coli</i> JU15. <i>Industrial Crops and Products</i> , 2022, 177, 114519.	5.2	11
53	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
54	Metabolism of biodiesel-derived glycerol in probiotic <i>Lactobacillus</i> strains. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1735-1743.	3.6	10

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55	Carob pulp syrup: A potential Mediterranean carbon source for carotenoids production by <i>Rhodosporidium toruloides</i> NCYC 921. <i>Bioresource Technology Reports</i> , 2018, 3, 177-184.	2.7	10
56	Combined Extraction and Ethanol Organosolv Fractionation of Exhausted Olive Pomace for Bioactive Compounds. <i>Advanced Sustainable Systems</i> , 0, , 2100361.	5.3	8
57	Combination of Autohydrolysis and Catalytic Hydrolysis of Biomass for the Production of Hemicellulose Oligosaccharides and Sugars. <i>Reactions</i> , 2022, 3, 30-46.	2.1	8
58	Comparison of GA and PSO performance in parameter estimation of microbial growth models: A case-study using experimental data. , 2010, , .		7
59	Valorization of glycerol from biodiesel industries as a renewable substrate for co-producing probiotic bacteria biomass and acetic acid. <i>Biomass Conversion and Biorefinery</i> , 2017, 7, 81-90.	4.6	6
60	Oligosaccharides production by enzymatic hydrolysis of banana pseudostem pulp. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 10677-10688.	4.6	5
61	The use of flow cytometry to assess <i>Rhodosporidium toruloides</i> NCYC 921 performance for lipid production using <i>Miscanthus sp.</i> hydrolysates. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 30, e00639.	4.4	4
62	D-lactic acid production from hydrothermally pretreated, alkali delignified and enzymatically saccharified rockrose with the metabolic engineered <i>Escherichia coli</i> strain JU15. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	4
63	Development of an innovative macroalgae biorefinery: Oligosaccharides as pivotal compounds. <i>Fuel</i> , 2022, 320, 123780.	6.4	4
64	Comparison of Two Posthydrolysis Processes of Brewery's Spent Grain Autohydrolysis Liquor to Produce a Pentose-Containing Culture Medium. , 2004, , 1041-1058.		3
65	Exhausted Olive Pomace Phenolic-Rich Extracts Obtention: A First Step for a Biorefinery Scheme Proposal. <i>Proceedings (mdpi)</i> , 2021, 70, 10.	0.2	2
66	The Combined Effects of Acetic Acid, Formic Acid, and Hydroquinone on <i>Debaryomyces hansenii</i> Physiology. , 2006, , 461-475.		1
67	Optimization of Brewery's Spent Grain Dilute-Acid Hydrolysis for the Production of Pentose-Rich Culture Media. , 2004, , 1059-1072.		1
68	Yeast Biomass Production in Brewery's Spent Grains Hemicellulosic Hydrolyzate. , 2007, , 637-647.		1
69	Effects of Aliphatic Acids, Furfural and Phenolic Compounds on <i>Debaryomyces hansenii</i> CCM1 941. , 2005, , 413-425.		1
70	Effective Production of Bioactive Phenolic Compounds from Olive Stones. , 2021, 6, .		0
71	Phosphate limitation stress induces xylitol overproduction by <i>Debaryomyces hansenii</i> . <i>FEMS Microbiology Letters</i> , 1999, 171, 115-120.	1.8	0