

# Ayla Sant Ana da Silva

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

1,405  
citations

430442

18  
h-index

476904

29  
g-index

34  
all docs

34  
docs citations

34  
times ranked

1807  
citing authors

#	ARTICLE	IF	CITATIONS
1	Milling pretreatment of sugarcane bagasse and straw for enzymatic hydrolysis and ethanol fermentation. <i>Bioresource Technology</i> , 2010, 101, 7402-7409.	4.8	322
2	Constraints and advances in high-solids enzymatic hydrolysis of lignocellulosic biomass: a critical review. <i>Biotechnology for Biofuels</i> , 2020, 13, 58.	6.2	140
3	Amino acids interference on the quantification of reducing sugars by the 3,5-dinitrosalicylic acid assay mislead carbohydrase activity measurements. <i>Carbohydrate Research</i> , 2012, 363, 33-37.	1.1	107
4	Major improvement in the rate and yield of enzymatic saccharification of sugarcane bagasse via pretreatment with the ionic liquid 1-ethyl-3-methylimidazolium acetate ([Emim] [Ac]). <i>Bioresource Technology</i> , 2011, 102, 10505-10509.	4.8	105
5	Solvent-free esterifications mediated by immobilized lipases: a review from thermodynamic and kinetic perspectives. <i>Catalysis Science and Technology</i> , 2021, 11, 5696-5711.	2.1	72
6	Continuous pretreatment of sugarcane bagasse at high loading in an ionic liquid using a twin-screw extruder. <i>Green Chemistry</i> , 2013, 15, 1991.	4.6	71
7	Combined pollution of copper nanoparticles and atrazine in soil: Effects on dissipation of the pesticide and on microbiological community profiles. <i>Journal of Hazardous Materials</i> , 2019, 361, 228-236.	6.5	55
8	Combining biomass wet disk milling and endoglucanase/ $\beta$ -glucosidase hydrolysis for the production of cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2015, 128, 75-81.	5.1	53
9	Acetic acid increases the phage-encoded enterotoxin A expression in <i>Staphylococcus aureus</i> . <i>BMC Microbiology</i> , 2010, 10, 147.	1.3	45
10	Sequential white-rot and brown-rot fungal pretreatment of wheat straw as a promising alternative for complementary mild treatments. <i>Waste Management</i> , 2018, 79, 240-250.	3.7	43
11	High-solids content enzymatic hydrolysis of hydrothermally pretreated sugarcane bagasse using a laboratory-made enzyme blend and commercial preparations. <i>Process Biochemistry</i> , 2016, 51, 1561-1567.	1.8	42
12	Continuous pretreatment of sugarcane biomass using a twin-screw extruder. <i>Industrial Crops and Products</i> , 2017, 97, 509-517.	2.5	42
13	Chemical characterization, antioxidant and antimicrobial activities of a <i>Euterpe oleracea</i> Tj ETQq1 1 0.784314 rgBT /Overl 109830.	2.5	37
14	High concentration and yield production of mannose from a <i>Euterpe oleracea</i> Mart.) seeds via mannanase-catalyzed hydrolysis. <i>Scientific Reports</i> , 2019, 9, 10939.	1.6	33
15	Efficient production of lignocellulolytic enzymes xylanase, $\beta$ -xylosidase, ferulic acid esterase and $\beta$ -glucosidase by the mutant strain <i>Aspergillus awamori</i> 2B.361 U2/1. <i>Brazilian Journal of Microbiology</i> , 2013, 44, 569-576.	0.8	31
16	Biohydrogen production using xylose or xylooligosaccharides derived from sugarcane bagasse obtained by hydrothermal and acid pretreatments. <i>Renewable Energy</i> , 2020, 146, 2408-2415.	4.3	31
17	A validated Folin-Ciocalteu method for total phenolics quantification of condensed tannin-rich <i>Euterpe oleracea</i> Mart.) seeds extract. <i>Journal of Food Science and Technology</i> , 2021, 58, 4693-4702.	1.4	31
18	Modification of microcrystalline cellulose structural properties by ball-milling and ionic liquid treatments and their correlation to enzymatic hydrolysis rate and yield. <i>Cellulose</i> , 2019, 26, 7323-7335.	2.4	22

#	ARTICLE	IF	CITATIONS
19	Biomass pretreatment: a critical choice for biomass utilization via biotechnological routes. BMC Proceedings, 2014, 8, .	1.8	19
20	Use of cellobiohydrolase-free cellulase blends for the hydrolysis of microcrystalline cellulose and sugarcane bagasse pretreated by either ball milling or ionic liquid [Emim][Ac]. Bioresource Technology, 2013, 149, 551-555.	4.8	18
21	Milling pretreatment of sugarcane bagasse and straw for enzymatic hydrolysis and ethanol fermentation. Bioresource Technology, 2010, 101, 7402-9.	4.8	16
22	A novel <i>Trichoderma harzianum</i> strain from the Amazon Forest with high cellulolytic capacity. Biocatalysis and Agricultural Biotechnology, 2018, 14, 183-188.	1.5	14
23	Simplified Method to Optimize Enzymatic Esters Syntheses in Solvent-Free Systems: Validation Using Literature and Experimental Data. Catalysts, 2021, 11, 1357.	1.6	10
24	Production of cellulases and $\beta$ -glucosidases by <i>Trichoderma reesei</i> Rut C30 using steam-pretreated sugarcane bagasse: an integrated approach for onsite enzyme production. Brazilian Journal of Chemical Engineering, 2021, 38, 435-442.	0.7	8
25	Dry extrusion pretreatment of cassava starch aided by sugarcane bagasse for improved starch saccharification. Carbohydrate Polymers, 2022, 285, 119256.	5.1	8
26	Synthesis of disaccharides using $\beta$ -glucosidases from <i>Aspergillus niger</i> , <i>A. awamori</i> and <i>Prunus dulcis</i> . Biotechnology Letters, 2017, 39, 1717-1723.	1.1	6
27	A practical approach to obtain high yield lipase-mediated synthesis of octyl caprylate with Novozym 435. Biocatalysis and Biotransformation, 0, , 1-11.	1.1	6
28	Comparative performance and reusability studies of lipases on syntheses of octyl esters with an economic approach. Bioprocess and Biosystems Engineering, 2022, 45, 131-145.	1.7	5
29	Productive Chain of Biofuels and Industrial Biocatalysis. , 2017, , 545-581.		4
30	AÃaÃ-waste valorization via mannose and polyphenols production: techno-economic and environmental assessment. Biomass Conversion and Biorefinery, 2024, 14, 3739-3752.	2.9	4
31	A Prior Biological Delignification Treatment as an Aid for the Hydrothermal Pretreatment of Sugarcane Straw. Waste and Biomass Valorization, 2022, 13, 4881-4895.	1.8	3
32	<i>Aspergillus awamori</i> endoglucanase-rich supernatant enhances lignocellulosic biomass liquefaction in high-solids enzymatic hydrolysis. Biochemical Engineering Journal, 2022, 183, 108448.	1.8	2
33	Chlorine-Free Biomass Processing: Enzymatic Alternatives for Bleaching and Hydrolysis of Lignocellulosic Materials. , 2016, , 241-268.		0