

João Paulo L Franco Cairo

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

562
citations

567281

15
h-index

610901

24
g-index

25
all docs

25
docs citations

25
times ranked

878
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the cellulolytic system of <i>Trichoderma harzianum</i> P49P11 and enhancing saccharification of pretreated sugarcane bagasse by supplementation with pectinase and β -l-arabinofuranosidase. <i>Bioresource Technology</i> , 2013, 131, 500-507.	9.6	81
2	Structure and Function of a Novel Cellulase 5 from Sugarcane Soil Metagenome. <i>PLoS ONE</i> , 2013, 8, e83635.	2.5	59
3	Xylooligosaccharides production from a sugarcane biomass mixture: Effects of commercial enzyme combinations on bagasse/straw hydrolysis pretreated using different strategies. <i>Food Research International</i> , 2020, 128, 108702.	6.2	42
4	Functional characterization and target discovery of glycoside hydrolases from the digestome of the lower termite <i>Coptotermes gestroi</i> . <i>Biotechnology for Biofuels</i> , 2011, 4, 50.	6.2	34
5	Development and Biotechnological Application of a Novel Endoxylanase Family GH10 Identified from Sugarcane Soil Metagenome. <i>PLoS ONE</i> , 2013, 8, e70014.	2.5	28
6	Deciphering the synergism of endogenous glycoside hydrolase families 1 and 9 from <i>Coptotermes gestroi</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 970-981.	2.7	27
7	The <i>Coptotermes gestroi</i> aldose-keto reductase: a multipurpose enzyme for biorefinery applications. <i>Biotechnology for Biofuels</i> , 2017, 10, 4.	6.2	27
8	Expanding the Knowledge on Lignocellulolytic and Redox Enzymes of Worker and Soldier Castes from the Lower Termite <i>Coptotermes gestroi</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 1518.	3.5	26
9	Recombinant <i>Trichoderma harzianum</i> endoglucanase I (Cel7B) is a highly acidic and promiscuous carbohydrate-active enzyme. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 9591-9604.	3.6	25
10	Mapping N-linked glycosylation of carbohydrate-active enzymes in the secretome of <i>Aspergillus nidulans</i> grown on lignocellulose. <i>Biotechnology for Biofuels</i> , 2016, 9, 168.	6.2	25
11	Novel redox-active enzymes for ligninolytic applications revealed from multiomics analyses of <i>Peniophora</i> sp. CBMAI 1063, a laccase hyper-producer strain. <i>Scientific Reports</i> , 2019, 9, 17564.	3.3	24
12	The characterization of a thermostable and cambialistic superoxide dismutase from <i>Thermus filiformis</i> . <i>Letters in Applied Microbiology</i> , 2013, 57, 40-46.	2.2	23
13	Biochemical and biophysical properties of a metagenome-derived GH5 endoglucanase displaying an unconventional domain architecture. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 384-393.	7.5	22
14	Enzymatic removal of inhibitory compounds from lignocellulosic hydrolysates for biomass to bioproducts applications. <i>World Journal of Microbiology and Biotechnology</i> , 2020, 36, 166.	3.6	21
15	On the roles of AA15 lytic polysaccharide monooxygenases derived from the termite <i>Coptotermes gestroi</i> . <i>Journal of Inorganic Biochemistry</i> , 2021, 216, 111316.	3.5	16
16	A Novel Member of GH16 Family Derived from Sugarcane Soil Metagenome. <i>Applied Biochemistry and Biotechnology</i> , 2015, 177, 304-317.	2.9	14
17	Microbial Communities of the Gut and Nest of the Humus- and Litter-Feeding Termite <i>Procornitermes araujoi</i> (Syntermitinae). <i>Current Microbiology</i> , 2018, 75, 1609-1618.	2.2	13
18	Food Storage by the Savanna Termite <i>Cornitermes cumulans</i> (Syntermitinae): a Strategy to Improve Hemicellulose Digestibility?. <i>Microbial Ecology</i> , 2018, 76, 492-505.	2.8	12

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19	Eucalyptus Cell Wall Architecture: Clues for Lignocellulosic Biomass Deconstruction. <i>Bioenergy Research</i> , 2016, 9, 969-979.	3.9	10
20	Microbial enrichment and meta-omics analysis identify CAZymes from mangrove sediments with unique properties. <i>Enzyme and Microbial Technology</i> , 2021, 148, 109820.	3.2	9
21	Flavonoid supplementation affects the expression of genes involved in cell wall formation and lignification metabolism and increases sugar content and saccharification in the fast-growing eucalyptus hybrid <i>E. urophylla</i> x <i>E. grandis</i> . <i>BMC Plant Biology</i> , 2014, 14, 301.	3.6	8
22	Oxidative cleavage of polysaccharides by a termite-derived <i>superoxide dismutase</i> boosts the degradation of biomass by glycoside hydrolases. <i>Green Chemistry</i> , 2022, 24, 4845-4858.	9.0	7
23	A novel mechanism of β -glucosidase stimulation through a monosaccharide binding-induced conformational change. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 1188-1196.	7.5	5
24	The periplasmic expression and purification of AA15 lytic polysaccharide monooxygenases from insect species in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2022, 190, 105994.	1.3	2
25	Deletion of AA9 Lytic Polysaccharide Monooxygenases Impacts <i>A. nidulans</i> Secretome and Growth on Lignocellulose. <i>Microbiology Spectrum</i> , 2022, 10, .	3.0	2