Fernando Segato

List of Publications by Year in descending order

52 papers	1,301 citations	361413 20 h-index	377865 34 g-index
52 all docs	52 docs citations	52 times ranked	1474 citing authors

#	Article	IF	Citations
1	Genomics Review of Holocellulose Deconstruction by Aspergilli. Microbiology and Molecular Biology Reviews, 2014, 78, 588-613.	6.6	99
2	Feruloyl esterases: Biocatalysts to overcome biomass recalcitrance and for the production of bioactive compounds. Bioresource Technology, 2019, 278, 408-423.	9.6	90
3	Functional characterization and synergic action of fungal xylanase and arabinofuranosidase for production of xylooligosaccharides. Bioresource Technology, 2012, 119, 293-299.	9.6	86
4	High-yield secretion of multiple client proteins in Aspergillus. Enzyme and Microbial Technology, 2012, 51, 100-106.	3.2	72
5	Production of xylooligosaccharides (XOS) from delignified sugarcane bagasse by peroxide-HAc process using recombinant xylanase from Bacillus subtilis. Industrial Crops and Products, 2013, 51, 123-129.	5.2	67
6	Heterologous expression of an Aspergillus niveus xylanase GH11 in Aspergillus nidulans and its characterization and application. Process Biochemistry, 2011, 46, 1236-1242.	3.7	50
7	Transcriptional profiling reveals the expression of novel genes in response to various stimuli in the human dermatophyte Trichophyton rubrum. BMC Microbiology, 2010, 10, 39.	3.3	49
8	Biomass-to-bio-products application of feruloyl esterase from Aspergillus clavatus. Applied Microbiology and Biotechnology, 2013, 97, 6759-6767.	3.6	49
9	Exploring glycoside hydrolases and accessory proteins from wood decay fungi to enhance sugarcane bagasse saccharification. Biotechnology for Biofuels, 2016, 9, 110.	6.2	47
10	Functional characterization and oligomerization of a recombinant xyloglucan-specific endo-Î²-1,4-glucanase (GH12) from Aspergillus niveus. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 461-467.	2.3	45
11	High-Temperature Enzymatic Breakdown of Cellulose. Applied and Environmental Microbiology, 2011, 77, 5199-5206.	3.1	41
12	Cellulase immobilization on superparamagnetic nanoparticles for reuse in cellulosic biomass conversion. AIMS Bioengineering, 2016, 3, 264-276.	1.1	35
13	Xyloglucan breakdown by endo-xyloglucanase family 74 from Aspergillus fumigatus. Applied Microbiology and Biotechnology, 2017, 101, 2893-2903.	3.6	33
14	Cloning, heterologous expression and biochemical characterization of a non-specific endoglucanase family 12 from Aspergillus terreus NIH2624. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 395-403.	2.3	32
15	Analysis ofTrichophyton rubrumgene expression in response to cytotoxic drugs. FEMS Microbiology Letters, 2007, 271, 180-186.	1.8	30
16	Exploring lignin depolymerization by a bi-enzyme system containing aryl alcohol oxidase and lignin peroxidase in aqueous biocompatible ionic liquids. Bioresource Technology, 2021, 338, 125564.	9.6	29
17	Insights on How the Activity of an Endoglucanase Is Affected by Physical Properties of Insoluble Celluloses. Journal of Physical Chemistry B, 2012, 116, 6128-6136.	2.6	27
18	Co-cultivation of Aspergillus nidulans Recombinant Strains Produces an Enzymatic Cocktail as Alternative to Alkaline Sugarcane Bagasse Pretreatment. Frontiers in Microbiology, 2016, 7, 583.	3.5	23

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19	A Transcript Finishing Initiative for Closing Gaps in the Human Transcriptome. Genome Research, 2004, 14, 1413-1423.	5.5	22
20	Two structurally discrete GH7-cellobiohydrolases compete for the same cellulosic substrate fiber. Biotechnology for Biofuels, 2012, 5, 21.	6.2	22
21	Functional characterization and comparative analysis of two heterologous endoglucanases from diverging subfamilies of glycosyl hydrolase family 45. Enzyme and Microbial Technology, 2019, 120, 23-35.	3.2	22
22	Fed-batch production of Thermothelomyces thermophilus lignin peroxidase using a recombinant Aspergillus nidulans strain in stirred-tank bioreactor. Bioresource Technology, 2021, 325, 124700.	9.6	20
23	The Secretome of Phanerochaete chrysosporium and Trametes versicolor Grown in Microcrystalline Cellulose and Use of the Enzymes for Hydrolysis of Lignocellulosic Materials. Frontiers in Bioengineering and Biotechnology, 2020, 8, 826.	4.1	18
24	OUP accepted manuscript. Medical Mycology, 2018, 56, 378-381.	0.7	18
25	The functional properties of a xyloglucanase (GH12) of Aspergillus terreus expressed in Aspergillus nidulans may increase performance of biomass degradation. Applied Microbiology and Biotechnology, 2016, 100, 9133-9144.	3.6	17
26	Optimization of process parameters and fermentation strategy for xylanase production in a stirred tank reactor using a mutant Aspergillus nidulans strain. Biotechnology Reports (Amsterdam,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457	4.4	17
27	Exploring oyster mushroom (Pleurotus ostreatus) substrate preparation by varying phase I composting time: changes in bacterial communities and physicochemical composition of biomass impacting mushroom yields. Journal of Applied Microbiology, 2019, 126, 931-944.	3.1	16
28	Production of cellulases by Aureobasidium pullulans LB83: optimization, characterization, and hydrolytic potential for the production of cellulosic sugars. Preparative Biochemistry and Biotechnology, 2021, 51, 153-163.	1.9	16
29	Understanding the function of conserved variations in the catalytic loops of fungal glycoside hydrolase family 12. Biotechnology and Bioengineering, 2014, 111, 1494-1505.	3.3	15
30	The secretome of two representative lignocellulose-decay basidiomycetes growing on sugarcane bagasse solid-state cultures. Enzyme and Microbial Technology, 2019, 130, 109370.	3.2	15
31	Over-expression of genes coding for proline oxidase, riboflavin kinase, cytochrome c oxidase and an MFS transporter induced by acriflavin inTrichophyton rubrum. Medical Mycology, 2008, 46, 135-139.	0.7	14
32	Heterologous expression and functional characterization of a GH10 endoxylanase from Aspergillus fumigatus var. niveus with potential biotechnological application. Biotechnology Reports (Amsterdam, Netherlands), 2019, 24, e00382.	4.4	14
33	Light-stimulated T. thermophilus two-domain LPMO9H: Low-resolution SAXS model and synergy with cellulases. Carbohydrate Polymers, 2021, 260, 117814.	10.2	14
34	Functional characterization of a novel thermophilic exo-arabinanase from Thermothielavioides terrestris. Applied Microbiology and Biotechnology, 2020, 104, 8309-8326.	3.6	13
35	The profile secretion of Aspergillus clavatus: Different pre-treatments of sugarcane bagasse distinctly induces holocellulases for the lignocellulosic biomass conversion into sugar. Renewable Energy, 2021, 165, 748-757.	8.9	13
36	Comparative analysis of two recombinant LPMOs from Aspergillus fumigatus and their effects on sugarcane bagasse saccharification. Enzyme and Microbial Technology, 2021, 144, 109746.	3.2	13

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37	Improvement of fungal arabinofuranosidase thermal stability by reversible immobilization. Process Biochemistry, 2012, 47, 2411-2417.	3.7	12
38	The Genome of a Thermo Tolerant, Pathogenic Albino Aspergillus fumigatus. Frontiers in Microbiology, 2018, 9, 1827.	3.5	12
39	ANTIFUNGAL SUSCEPTIBILITY TESTING AND GENOTYPING CHARACTERIZATION OF Cryptococcus neoformans AND gattii ISOLATES FROM HIV-INFECTED PATIENTS OF RIBEIRÃƒO PRETO, SÃƒO PAULO, BRAZIL. Revista Do Instituto De Medicina Tropical De Sao Paulo, 2016, 58, 69.	1.1	11
40	Continuous xylanase production with Aspergillus nidulans under pyridoxine limitation using a trickle bed reactor. Bioresource Technology, 2015, 188, 219-225.	9.6	10
41	Polymer ultrastructure governs AA9 lytic polysaccharide monooxygenases functionalization and deconstruction efficacy on cellulose nano-crystals. Bioresource Technology, 2022, 347, 126375.	9.6	9
42	High-yield recombinant xylanase production by Aspergillus nidulans under pyridoxine limitation. Journal of Industrial Microbiology and Biotechnology, 2014, 41, 1563-1570.	3.0	8
43	Optimization of nutrient medium components for production of a client endo-Î²-1,4-xylanase from Aspergillus fumigatus var. niveus using a recombinant Aspergillus nidulans strain. Biocatalysis and Agricultural Biotechnology, 2019, 20, 101267.	3.1	8
44	Expression, purification, crystallization and preliminary X-ray diffraction analysis of Aspergillus terreus endo-Î²-1,4-glucanase from glycoside hydrolase family 12. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 267-270.	0.8	6
45	Editorial: Advances in the Regulation and Production of Fungal Enzymes by Transcriptomics, Proteomics and Recombinant Strains Design. Frontiers in Bioengineering and Biotechnology, 2019, 7, 157.	4.1	5
46	Functional and structural characterization of an Î±-ÊŸ-arabinofuranosidase from Thermothielavioides terrestris and its exquisite domain-swapped Î²-propeller fold crystal packing. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140533.	2.3	5
47	Effect of enzymatic pretreatment of sugarcane bagasse with recombinant hemicellulases and esterase prior to the application of the cellobiohydrolase CBH I MegazymeÂ®. Biomass Conversion and Biorefinery, 2022, 12, 491-499.	4.6	5
48	Immobilization of a recombinant endo-1,5-arabinanase secreted by Aspergillus nidulans strain A773. Journal of Molecular Catalysis B: Enzymatic, 2012, , .	1.8	2
49	The Use of Synthetic Biology Tools in Biorefineries to Increase the Building Blocks Diversification. , 2018, , 41-72.		2
50	Integrated bioinformatics, modelling, and gene expression analysis of the putative pentose transporter from Candida tropicalis during xylose fermentation with and without glucose addition. Applied Microbiology and Biotechnology, 2022, 106, 4587-4606.	3.6	2
51	System biology in lignocellulose and algae refineries. , 2022, , 151-173.		1
52	Immune Response, Detection of IgE and PGE2 during Vaginal Candidiasis in Mice. American Journal of Immunology, 2016, 12, 29-36.	0.1	0