

# Fernando Segato

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Effect of enzymatic pretreatment of sugarcane bagasse with recombinant hemicellulases and esterase prior to the application of the cellobiohydrolase CBH I Megazyme®. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 491-499.	4.6	5
2	System biology in lignocellulose and algae refineries. , 2022, , 151-173.		1
3	Polymer ultrastructure governs AA9 lytic polysaccharide monoxygenases functionalization and deconstruction efficacy on cellulose nano-crystals. <i>Bioresource Technology</i> , 2022, 347, 126375.	9.6	9
4	Integrated bioinformatics, modelling, and gene expression analysis of the putative pentose transporter from <i>Candida tropicalis</i> during xylose fermentation with and without glucose addition. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 4587-4606.	3.6	2
5	Production of cellulases by <i>Aureobasidium pullulans</i> LB83: optimization, characterization, and hydrolytic potential for the production of cellulosic sugars. <i>Preparative Biochemistry and Biotechnology</i> , 2021, 51, 153-163.	1.9	16
6	The profile secretion of <i>Aspergillus clavatus</i> : Different pre-treatments of sugarcane bagasse distinctly induces holocellulases for the lignocellulosic biomass conversion into sugar. <i>Renewable Energy</i> , 2021, 165, 748-757.	8.9	13
7	Comparative analysis of two recombinant LPMOs from <i>Aspergillus fumigatus</i> and their effects on sugarcane bagasse saccharification. <i>Enzyme and Microbial Technology</i> , 2021, 144, 109746.	3.2	13
8	Fed-batch production of <i>Thermothelomyces thermophilus</i> lignin peroxidase using a recombinant <i>Aspergillus nidulans</i> strain in stirred-tank bioreactor. <i>Bioresource Technology</i> , 2021, 325, 124700.	9.6	20
9	Light-stimulated <i>T. thermophilus</i> two-domain LPMO9H: Low-resolution SAXS model and synergy with cellulases. <i>Carbohydrate Polymers</i> , 2021, 260, 117814.	10.2	14
10	Exploring lignin depolymerization by a bi-enzyme system containing aryl alcohol oxidase and lignin peroxidase in aqueous biocompatible ionic liquids. <i>Bioresource Technology</i> , 2021, 338, 125564.	9.6	29
11	Functional and structural characterization of an $\alpha$ -D-arabinofuranosidase from <i>Thermothelavioides terrestris</i> and its exquisite domain-swapped $\beta$ -propeller fold crystal packing. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140533.	2.3	5
12	The Secretome of <i>Phanerochaete chrysosporium</i> and <i>Trametes versicolor</i> Grown in Microcrystalline Cellulose and Use of the Enzymes for Hydrolysis of Lignocellulosic Materials. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 826.	4.1	18
13	Functional characterization of a novel thermophilic exo-arabinanase from <i>Thermothelavioides terrestris</i> . <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8309-8326.	3.6	13
14	Optimization of process parameters and fermentation strategy for xylanase production in a stirred tank reactor using a mutant <i>Aspergillus nidulans</i> strain. <i>Biotechnology Reports (Amsterdam)</i> , Tj ETQq0 0 0 rgBT /Overlock 1017f 50 217		17
15	The secretome of two representative lignocellulose-decay basidiomycetes growing on sugarcane bagasse solid-state cultures. <i>Enzyme and Microbial Technology</i> , 2019, 130, 109370.	3.2	15
16	Optimization of nutrient medium components for production of a client endo- $\beta$ -1,4-xylanase from <i>Aspergillus fumigatus</i> var. <i>niveus</i> using a recombinant <i>Aspergillus nidulans</i> strain. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101267.	3.1	8
17	Editorial: Advances in the Regulation and Production of Fungal Enzymes by Transcriptomics, Proteomics and Recombinant Strains Design. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 157.	4.1	5
18	Heterologous expression and functional characterization of a GH10 endoxylanase from <i>Aspergillus fumigatus</i> var. <i>niveus</i> with potential biotechnological application. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 24, e00382.	4.4	14

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19	Feruloyl esterases: Biocatalysts to overcome biomass recalcitrance and for the production of bioactive compounds. <i>Bioresource Technology</i> , 2019, 278, 408-423.	9.6	90
20	Exploring oyster mushroom ( <i>Pleurotus ostreatus</i> ) substrate preparation by varying phase I composting time: changes in bacterial communities and physicochemical composition of biomass impacting mushroom yields. <i>Journal of Applied Microbiology</i> , 2019, 126, 931-944.	3.1	16
21	Functional characterization and comparative analysis of two heterologous endoglucanases from diverging subfamilies of glycosyl hydrolase family 45. <i>Enzyme and Microbial Technology</i> , 2019, 120, 23-35.	3.2	22
22	The Genome of a Thermo Tolerant, Pathogenic Albino <i>Aspergillus fumigatus</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 1827.	3.5	12
23	The Use of Synthetic Biology Tools in Biorefineries to Increase the Building Blocks Diversification. , 2018, , 41-72.		2
24	OUP accepted manuscript. <i>Medical Mycology</i> , 2018, 56, 378-381.	0.7	18
25	Cloning, heterologous expression and biochemical characterization of a non-specific endoglucanase family 12 from <i>Aspergillus terreus</i> NIH2624. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 395-403.	2.3	32
26	Xyloglucan breakdown by endo-xyloglucanase family 74 from <i>Aspergillus fumigatus</i> . <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2893-2903.	3.6	33
27	Immune Response, Detection of IgE and PGE2 during Vaginal Candidiasis in Mice. <i>American Journal of Immunology</i> , 2016, 12, 29-36.	0.1	0
28	ANTIFUNGAL SUSCEPTIBILITY TESTING AND GENOTYPING CHARACTERIZATION OF <i>Cryptococcus neoformans</i> AND <i>gattii</i> ISOLATES FROM HIV-INFECTED PATIENTS OF RIBEIRÃO PRETO, SÃO PAULO, BRAZIL. <i>Revista Do Instituto De Medicina Tropical De Sao Paulo</i> , 2016, 58, 69.	1.1	11
29	Co-cultivation of <i>Aspergillus nidulans</i> Recombinant Strains Produces an Enzymatic Cocktail as Alternative to Alkaline Sugarcane Bagasse Pretreatment. <i>Frontiers in Microbiology</i> , 2016, 7, 583.	3.5	23
30	Exploring glycoside hydrolases and accessory proteins from wood decay fungi to enhance sugarcane bagasse saccharification. <i>Biotechnology for Biofuels</i> , 2016, 9, 110.	6.2	47
31	The functional properties of a xyloglucanase (GH12) of <i>Aspergillus terreus</i> expressed in <i>Aspergillus nidulans</i> may increase performance of biomass degradation. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9133-9144.	3.6	17
32	Cellulase immobilization on superparamagnetic nanoparticles for reuse in cellulosic biomass conversion. <i>AIMS Bioengineering</i> , 2016, 3, 264-276.	1.1	35
33	Continuous xylanase production with <i>Aspergillus nidulans</i> under pyridoxine limitation using a trickle bed reactor. <i>Bioresource Technology</i> , 2015, 188, 219-225.	9.6	10
34	Genomics Review of Holocellulose Deconstruction by <i>Aspergilli</i> . <i>Microbiology and Molecular Biology Reviews</i> , 2014, 78, 588-613.	6.6	99
35	Expression, purification, crystallization and preliminary X-ray diffraction analysis of <i>Aspergillus terreus</i> endo- $\beta$ -1,4-glucanase from glycoside hydrolase family 12. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 267-270.	0.8	6
36	Understanding the function of conserved variations in the catalytic loops of fungal glycoside hydrolase family 12. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1494-1505.	3.3	15

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37	High-yield recombinant xylanase production by <i>Aspergillus nidulans</i> under pyridoxine limitation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 1563-1570.	3.0	8
38	Biomass-to-bio-products application of feruloyl esterase from <i>Aspergillus clavatus</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6759-6767.	3.6	49
39	Production of xylooligosaccharides (XOS) from delignified sugarcane bagasse by peroxide-HAc process using recombinant xylanase from <i>Bacillus subtilis</i> . <i>Industrial Crops and Products</i> , 2013, 51, 123-129.	5.2	67
40	Functional characterization and oligomerization of a recombinant xyloglucan-specific endo- $\beta$ -1,4-glucanase (GH12) from <i>Aspergillus niveus</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 461-467.	2.3	45
41	Functional characterization and synergic action of fungal xylanase and arabinofuranosidase for production of xylooligosaccharides. <i>Bioresource Technology</i> , 2012, 119, 293-299.	9.6	86
42	Two structurally discrete GH7-cellobiohydrolases compete for the same cellulosic substrate fiber. <i>Biotechnology for Biofuels</i> , 2012, 5, 21.	6.2	22
43	Improvement of fungal arabinofuranosidase thermal stability by reversible immobilization. <i>Process Biochemistry</i> , 2012, 47, 2411-2417.	3.7	12
44	Insights on How the Activity of an Endoglucanase Is Affected by Physical Properties of Insoluble Celluloses. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6128-6136.	2.6	27
45	High-yield secretion of multiple client proteins in <i>Aspergillus</i> . <i>Enzyme and Microbial Technology</i> , 2012, 51, 100-106.	3.2	72
46	Immobilization of a recombinant endo-1,5-arabinanase secreted by <i>Aspergillus nidulans</i> strain A773. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, , .	1.8	2
47	Heterologous expression of an <i>Aspergillus niveus</i> xylanase GH11 in <i>Aspergillus nidulans</i> and its characterization and application. <i>Process Biochemistry</i> , 2011, 46, 1236-1242.	3.7	50
48	High-Temperature Enzymatic Breakdown of Cellulose. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5199-5206.	3.1	41
49	Transcriptional profiling reveals the expression of novel genes in response to various stimuli in the human dermatophyte <i>Trichophyton rubrum</i> . <i>BMC Microbiology</i> , 2010, 10, 39.	3.3	49
50	Over-expression of genes coding for proline oxidase, riboflavin kinase, cytochrome c oxidase and an MFS transporter induced by acriflavin in <i>Trichophyton rubrum</i> . <i>Medical Mycology</i> , 2008, 46, 135-139.	0.7	14
51	Analysis of <i>Trichophyton rubrum</i> gene expression in response to cytotoxic drugs. <i>FEMS Microbiology Letters</i> , 2007, 271, 180-186.	1.8	30
52	A Transcript Finishing Initiative for Closing Gaps in the Human Transcriptome. <i>Genome Research</i> , 2004, 14, 1413-1423.	5.5	22