

Sarah Morais

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,145
citations

218677

26
h-index

243625

44
g-index

55
all docs

55
docs citations

55
times ranked

2003
citing authors

#	ARTICLE	IF	CITATIONS
1	Concepts and Consequences of a Core Gut Microbiota for Animal Growth and Development. Annual Review of Animal Biosciences, 2022, 10, 177-201.	7.4	16
2	Sas20 is a highly flexible starch-binding protein in the Ruminococcus bromii cell-surface amylosome. Journal of Biological Chemistry, 2022, 298, 101896.	3.4	11
3	Combinatorial assembly and optimisation of designer cellulosomes: a galactomannan case study. , 2022, 15, .		4
4	Mapping the deformability of natural and designed cellulosomes in solution. , 2022, 15, .		4
5	The rumen microbiome: balancing food security and environmental impacts. Nature Reviews Microbiology, 2021, 19, 553-566.	28.6	143
6	Structure and substrate recognition by the Ruminococcus bromii amylosome pullulanases. Journal of Structural Biology, 2021, 213, 107765.	2.8	7
7	Glycosylation of hyperthermostable designer cellulosome components yields enhanced stability and cellulose hydrolysis. FEBS Journal, 2020, 287, 4370-4388.	4.7	11
8	Impact of scaffoldin mechanostability on cellulosomal activity. Biomaterials Science, 2020, 8, 3601-3610.	5.4	7
9	Rapid adaptation for fibre degradation by changes in plasmid stoichiometry within <i>Lactobacillus plantarum</i> at the synthetic community level. Microbial Biotechnology, 2020, 13, 1748-1764.	4.2	5
10	Minimalistic Cellulosome of the Butanologenic Bacterium Clostridium saccharoperbutylacetonicum. MBio, 2020, 11, .	4.1	7
11	The Cellulosome Paradigm in An Extreme Alkaline Environment. Microorganisms, 2019, 7, 347.	3.6	20
12	Cell-surface display of designer cellulosomes by Lactobacillus plantarum. Methods in Enzymology, 2019, 617, 241-263.	1.0	6
13	The Road Not Taken: The Rumen Microbiome, Functional Groups, and Community States. Trends in Microbiology, 2019, 27, 538-549.	7.7	92
14	Islands in the stream: from individual to communal fiber degradation in the rumen ecosystem. FEMS Microbiology Reviews, 2019, 43, 362-379.	8.6	88
15	Creation of a functional hyperthermostable designer cellulosome. Biotechnology for Biofuels, 2019, 12, 44.	6.2	39
16	Sporulation capability and amylosome conservation among diverse human colonic and rumen isolates of the keystone starch-degrader <i>Ruminococcus bromii</i> . Environmental Microbiology, 2018, 20, 324-336.	3.8	79
17	The cohesin module is a major determinant of cellulosome mechanical stability. Journal of Biological Chemistry, 2018, 293, 7139-7147.	3.4	15
18	Assembly of Synthetic Functional Cellulosomal Structures onto the Cell Surface of Lactobacillus plantarum, a Potent Member of the Gut Microbiome. Applied and Environmental Microbiology, 2018, 84, .	3.1	33

#	ARTICLE	IF	CITATIONS
19	Colocalization and Disposition of Cellulosomes in <i>Clostridium clariflavum</i> as Revealed by Correlative Superresolution Imaging. <i>MBio</i> , 2018, 9, .	4.1	15
20	Advanced Cloning Tools for Construction of Designer Cellulosomes. <i>Methods in Molecular Biology</i> , 2018, 1796, 135-151.	0.9	5
21	Evaluation of Thermal Stability of Cellulosomal Hydrolases and Their Complex Formation. <i>Methods in Molecular Biology</i> , 2018, 1796, 153-166.	0.9	2
22	Methods for Discovery of Novel Cellulosomal Cellulases Using Genomics and Biochemical Tools. <i>Methods in Molecular Biology</i> , 2018, 1796, 67-84.	0.9	0
23	Complexity of the <i>Ruminococcus flavefaciens</i> FD-1 cellulosome reflects an expansion of family-related protein-protein interactions. <i>Scientific Reports</i> , 2017, 7, 42355.	3.3	31
24	Carbohydrate Depolymerization by Intricate Cellulosomal Systems. <i>Methods in Molecular Biology</i> , 2017, 1588, 93-116.	0.9	8
25	Cellulosomes: bacterial nanomachines for dismantling plant polysaccharides. <i>Nature Reviews Microbiology</i> , 2017, 15, 83-95.	28.6	336
26	Modular Organization of the <i>Thermobifida fusca</i> Exoglucanase Cel6B Impacts Cellulose Hydrolysis and Designer Cellulosome Efficiency. <i>Biotechnology Journal</i> , 2017, 12, 1700205.	3.5	9
27	Broad phylogeny and functionality of cellulosomal components in the bovine rumen microbiome. <i>Environmental Microbiology</i> , 2017, 19, 185-197.	3.8	32
28	The Electrosome: A Surface-Displayed Enzymatic Cascade in a Biofuel Cell's Anode and a High-Density Surface-Displayed Biocathodic Enzyme. <i>Nanomaterials</i> , 2017, 7, 153.	4.1	21
29	Unique organization and unprecedented diversity of the <i>Bacteroides</i> (<i>Pseudobacteroides</i>) <i>cellulosolvens</i> cellulosome system. <i>Biotechnology for Biofuels</i> , 2017, 10, 211.	6.2	29
30	Pan-Cellulosomics of Mesophilic Clostridia: Variations on a Theme. <i>Microorganisms</i> , 2017, 5, 74.	3.6	17
31	Insights into the functionality and stability of designer cellulosomes at elevated temperatures. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8731-8743.	3.6	20
32	Lysozyme activity of the <i>Ruminococcus champanellensis</i> cellulosome. <i>Environmental Microbiology</i> , 2016, 18, 5112-5122.	3.8	19
33	Toward combined delignification and saccharification of wheat straw by a laccase-containing designer cellulosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10854-10859.	7.1	77
34	Enhancement of cellulosome-mediated deconstruction of cellulose by improving enzyme thermostability. <i>Biotechnology for Biofuels</i> , 2016, 9, 164.	6.2	49
35	Enzymatic profiling of cellulosomal enzymes from the human gut bacterium, <i>Ruminococcus champanellensis</i> , reveals a fine-tuned system for cohesin-dockerin recognition. <i>Environmental Microbiology</i> , 2016, 18, 542-556.	3.8	57
36	Adaptor Scaffoldins: An Original Strategy for Extended Designer Cellulosomes, Inspired from Nature. <i>MBio</i> , 2016, 7, e00083.	4.1	50

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37	Significance of Relative Position of Cellulases in Designer Cellulosomes for Optimized Cellulolysis. PLoS ONE, 2015, 10, e0127326.	2.5	43
38	New Paradigms for Engineering Plant Cell Wall Degrading Enzymes. , 2015, , 129-149.		1
39	Ruminococcal cellulosome systems from rumen to human. Environmental Microbiology, 2015, 17, 3407-3426.	3.8	104
40	A combined cell-consortium approach for lignocellulose degradation by specialized Lactobacillus plantarum cells. Biotechnology for Biofuels, 2014, 7, 112.	6.2	40
41	Insights into enhanced thermostability of a cellulosomal enzyme. Carbohydrate Research, 2014, 389, 78-84.	2.3	12
42	Establishment of a Simple Lactobacillus plantarum Cell Consortium for Cellulase-Xylanase Synergistic Interactions. Applied and Environmental Microbiology, 2013, 79, 5242-5249.	3.1	42
43	Deconstruction of Lignocellulose into Soluble Sugars by Native and Designer Cellulosomes. MBio, 2012, 3, .	4.1	92
44	Paradigmatic status of an endo- and exoglucanase and its effect on crystalline cellulose degradation. Biotechnology for Biofuels, 2012, 5, 78.	6.2	23
45	Functional Association of Catalytic and Ancillary Modules Dictates Enzymatic Activity in Glycoside Hydrolase Family 43 β -Xylosidase. Journal of Biological Chemistry, 2012, 287, 9213-9221.	3.4	28
46	Designer Cellulosomes for Enhanced Hydrolysis of Cellulosic Substrates. Methods in Enzymology, 2012, 510, 429-452.	1.0	43
47	Affinity Electrophoresis as a Method for Determining Substrate-Binding Specificity of Carbohydrate-Active Enzymes for Soluble Polysaccharides. , 2012, 908, 119-127.		2
48	Assembly of Xylanases into Designer Cellulosomes Promotes Efficient Hydrolysis of the Xylan Component of a Natural Recalcitrant Cellulosic Substrate. MBio, 2011, 2, .	4.1	62
49	Enhanced cellulose degradation by nano-complexed enzymes: Synergism between a scaffold-linked exoglucanase and a free endoglucanase. Journal of Biotechnology, 2010, 147, 205-211.	3.8	67
50	Interplay between <i>Clostridium thermocellum</i> Family 48 and Family 9 Cellulases in Cellulosomal versus Noncellulosomal States. Applied and Environmental Microbiology, 2010, 76, 3236-3243.	3.1	64
51	Cellulase-Xylanase Synergy in Designer Cellulosomes for Enhanced Degradation of a Complex Cellulosic Substrate. MBio, 2010, 1, .	4.1	99
52	Contribution of a Xylan-Binding Module to the Degradation of a Complex Cellulosic Substrate by Designer Cellulosomes. Applied and Environmental Microbiology, 2010, 76, 3787-3796.	3.1	52
53	Nanoscale resolution of microbial fiber degradation in action. ELife, 0, 11, .	6.0	5