

# 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	Cellulosomes: bacterial nanomachines for dismantling plant polysaccharides. <i>Nature Reviews Microbiology</i> , 2017, 15, 83-95.	28.6	336
2	The rumen microbiome: balancing food security and environmental impacts. <i>Nature Reviews Microbiology</i> , 2021, 19, 553-566.	28.6	143
3	Ruminococcal cellulosome systems from rumen to human. <i>Environmental Microbiology</i> , 2015, 17, 3407-3426.	3.8	104
4	Cellulase-Xylanase Synergy in Designer Cellulosomes for Enhanced Degradation of a Complex Cellulosic Substrate. <i>MBio</i> , 2010, 1, .	4.1	99
5	Deconstruction of Lignocellulose into Soluble Sugars by Native and Designer Cellulosomes. <i>MBio</i> , 2012, 3, .	4.1	92
6	The Road Not Taken: The Rumen Microbiome, Functional Groups, and Community States. <i>Trends in Microbiology</i> , 2019, 27, 538-549.	7.7	92
7	Islands in the stream: from individual to communal fiber degradation in the rumen ecosystem. <i>FEMS Microbiology Reviews</i> , 2019, 43, 362-379.	8.6	88
8	Sporulation capability and amylosome conservation among diverse human colonic and rumen isolates of the keystone starch-degrader <i>Ruminococcus bromii</i> . <i>Environmental Microbiology</i> , 2018, 20, 324-336.	3.8	79
9	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
10	Enhanced cellulose degradation by nano-complexed enzymes: Synergism between a scaffold-linked exoglucanase and a free endoglucanase. <i>Journal of Biotechnology</i> , 2010, 147, 205-211.	3.8	67
11	Interplay between <i>Clostridium thermocellum</i> Family 48 and Family 9 Cellulases in Cellulosomal versus Noncellulosomal States. <i>Applied and Environmental Microbiology</i> , 2010, 76, 3236-3243.	3.1	64
12	Assembly of Xylanases into Designer Cellulosomes Promotes Efficient Hydrolysis of the Xylan Component of a Natural Recalcitrant Cellulosic Substrate. <i>MBio</i> , 2011, 2, .	4.1	62
13	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
14	Contribution of a Xylan-Binding Module to the Degradation of a Complex Cellulosic Substrate by Designer Cellulosomes. <i>Applied and Environmental Microbiology</i> , 2010, 76, 3787-3796.	3.1	52
15	Adaptor Scaffoldins: An Original Strategy for Extended Designer Cellulosomes, Inspired from Nature. <i>MBio</i> , 2016, 7, e00083.	4.1	50
16	Enhancement of cellulosome-mediated deconstruction of cellulose by improving enzyme thermostability. <i>Biotechnology for Biofuels</i> , 2016, 9, 164.	6.2	49
17	Designer Cellulosomes for Enhanced Hydrolysis of Cellulosic Substrates. <i>Methods in Enzymology</i> , 2012, 510, 429-452.	1.0	43
18	Significance of Relative Position of Cellulases in Designer Cellulosomes for Optimized Cellulolysis. <i>PLoS ONE</i> , 2015, 10, e0127326.	2.5	43

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19	Establishment of a Simple <i>Lactobacillus plantarum</i> Cell Consortium for Cellulase-Xylanase Synergistic Interactions. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5242-5249.	3.1	42
20	A combined cell-consortium approach for lignocellulose degradation by specialized <i>Lactobacillus plantarum</i> cells. <i>Biotechnology for Biofuels</i> , 2014, 7, 112.	6.2	40
21	Creation of a functional hyperthermostable designer cellulosome. <i>Biotechnology for Biofuels</i> , 2019, 12, 44.	6.2	39
22	Assembly of Synthetic Functional Cellulosomal Structures onto the Cell Surface of <i>Lactobacillus plantarum</i> , a Potent Member of the Gut Microbiome. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	33
23	Broad phylogeny and functionality of cellulosomal components in the bovine rumen microbiome. <i>Environmental Microbiology</i> , 2017, 19, 185-197.	3.8	32
24	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
25	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
26	Functional Association of Catalytic and Ancillary Modules Dictates Enzymatic Activity in Glycoside Hydrolase Family 43 Î²-Xylosidase. <i>Journal of Biological Chemistry</i> , 2012, 287, 9213-9221.	3.4	28
27	Paradigmatic status of an endo- and exoglucanase and its effect on crystalline cellulose degradation. <i>Biotechnology for Biofuels</i> , 2012, 5, 78.	6.2	23
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	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
30	The Cellulosome Paradigm in An Extreme Alkaline Environment. <i>Microorganisms</i> , 2019, 7, 347.	3.6	20
31	Lysozyme activity of the <i>Ruminococcus champanellensis</i> cellulosome. <i>Environmental Microbiology</i> , 2016, 18, 5112-5122.	3.8	19
32	Pan-Cellulosomics of Mesophilic Clostridia: Variations on a Theme. <i>Microorganisms</i> , 2017, 5, 74.	3.6	17
33	Concepts and Consequences of a Core Gut Microbiota for Animal Growth and Development. <i>Annual Review of Animal Biosciences</i> , 2022, 10, 177-201.	7.4	16
34	The cohesin module is a major determinant of cellulosome mechanical stability. <i>Journal of Biological Chemistry</i> , 2018, 293, 7139-7147.	3.4	15
35	Colocalization and Disposition of Cellulosomes in <i>Clostridium clariflavum</i> as Revealed by Correlative Superresolution Imaging. <i>MBio</i> , 2018, 9, .	4.1	15
36	Insights into enhanced thermostability of a cellulosomal enzyme. <i>Carbohydrate Research</i> , 2014, 389, 78-84.	2.3	12

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37	Glycosylation of hyperthermostable designer cellulosome components yields enhanced stability and cellulose hydrolysis. <i>FEBS Journal</i> , 2020, 287, 4370-4388.	4.7	11
38	Sas20 is a highly flexible starch-binding protein in the <i>Ruminococcus bromii</i> cell-surface amylosome. <i>Journal of Biological Chemistry</i> , 2022, 298, 101896.	3.4	11
39	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
40	Carbohydrate Depolymerization by Intricate Cellulosomal Systems. <i>Methods in Molecular Biology</i> , 2017, 1588, 93-116.	0.9	8
41	Impact of scaffoldin mechanostability on cellulosomal activity. <i>Biomaterials Science</i> , 2020, 8, 3601-3610.	5.4	7
42	Minimalistic Cellulosome of the Butanogenic Bacterium <i>Clostridium saccharoperbutylacetonicum</i> . <i>MBio</i> , 2020, 11, .	4.1	7
43	Structure and substrate recognition by the <i>Ruminococcus bromii</i> amylosome pullulanases. <i>Journal of Structural Biology</i> , 2021, 213, 107765.	2.8	7
44	Cell-surface display of designer cellulosomes by <i>Lactobacillus plantarum</i> . <i>Methods in Enzymology</i> , 2019, 617, 241-263.	1.0	6
45	Advanced Cloning Tools for Construction of Designer Cellulosomes. <i>Methods in Molecular Biology</i> , 2018, 1796, 135-151.	0.9	5
46	Rapid adaptation for fibre degradation by changes in plasmid stoichiometry within <i>Lactobacillus plantarum</i> at the synthetic community level. <i>Microbial Biotechnology</i> , 2020, 13, 1748-1764.	4.2	5
47	Nanoscale resolution of microbial fiber degradation in action. <i>ELife</i> , 0, 11, .	6.0	5
48	Combinatorial assembly and optimisation of designer cellulosomes: a galactomannan case study. , 2022, 15, .		4
49	Mapping the deformability of natural and designed cellulosomes in solution. , 2022, 15, .		4
50	Evaluation of Thermal Stability of Cellulosomal Hydrolases and Their Complex Formation. <i>Methods in Molecular Biology</i> , 2018, 1796, 153-166.	0.9	2
51	Affinity Electrophoresis as a Method for Determining Substrate-Binding Specificity of Carbohydrate-Active Enzymes for Soluble Polysaccharides. , 2012, 908, 119-127.		2
52	New Paradigms for Engineering Plant Cell Wall Degrading Enzymes. , 2015, , 129-149.		1
53	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