Claire Moulis

List of Publications by Year
in descending order

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50 papers	1,284 citations	331670 21 h-index	377865 34 g-index
50 all docs	50 docs citations	50 times ranked	1149 citing authors

#	Article	IF	Citations
1	The role of the C domain in the thermostability of GH70 enzymes investigated by domain swapping. Amylase, 2022, 6, 11-19.	1.6	0
2	Convergent Chemoenzymatic Strategy to Deliver a Diversity of <i>Shigella flexneri</i> Serotype-Specific O-Antigen Segments from a Unique Lightly Protected Tetrasaccharide Core. Journal of Organic Chemistry, 2021, 86, 2058-2075.	3.2	13
3	Redirecting substrate regioselectivity using engineered Î”N123-GBD-CD2 branching sucrases for the production of pentasaccharide repeating units of S. flexneri 3a, 4a and 4b haptens. Scientific Reports, 2021, 11, 2474.	3.3	6
4	Natural and engineered transglycosylases: Green tools for the enzyme-based synthesis of glycoproducts. Current Opinion in Chemical Biology, 2021, 61, 96-106.	6.1	19
5	Bacterial Î±-Glucan and Branching Sucrases from GH70 Family: Discovery, Structureâ€“Function Relationship Studies and Engineering. Microorganisms, 2021, 9, 1607.	3.6	19
6	Computer-aided engineering of a branching sucrase for the glucodiversification of a tetrasaccharide precursor of S. flexneri antigenic oligosaccharides. Scientific Reports, 2021, 11, 20294.	3.3	3
7	A specific oligosaccharide-binding site in the alternansucrase catalytic domain mediates alternan elongation. Journal of Biological Chemistry, 2020, 295, 9474-9489.	3.4	9
8	Processivity of dextransucrases synthesizing very-high-molar-mass dextran is mediated by sugar-binding pockets in domain V. Journal of Biological Chemistry, 2020, 295, 5602-5613.	3.4	9
9	An eco-design approach for an innovative production process of low molar mass dextran. Green Chemistry, 2019, 21, 4512-4531.	9.0	5
10	Deciphering an Undecided Enzyme: Investigations of the Structural Determinants Involved in the Linkage Specificity of Alternansucrase. ACS Catalysis, 2019, 9, 2222-2237.	11.2	27
11	Futile Encounter Engineering of the DSR-M Dextransucrase Modifies the Resulting Polymer Length. Biochemistry, 2019, 58, 2853-2859.	2.5	15
12	Harnessing glycoenzyme engineering for synthesis of bioactive oligosaccharides. Interface Focus, 2019, 9, 20180069.	3.0	37
13	Macromolecular structure and film properties of enzymatically-engineered high molar mass dextrans. Carbohydrate Polymers, 2018, 181, 337-344.	10.2	12
14	A dextran with unique rheological properties produced by the dextransucrase from Oenococcus kitaharae DSM 17330. Carbohydrate Polymers, 2018, 179, 10-18.	10.2	26
15	Engineering a branching sucrase for flavonoid glucoside diversification. Scientific Reports, 2018, 8, 15153.	3.3	15
16	Enzymatic synthesis of polysaccharide-based copolymers. Green Chemistry, 2018, 20, 4012-4022.	9.0	16
17	Engineering of anp efficient mutant of Neisseria polysaccharea amylosucrase for the synthesis of controlled size maltooligosaccharides. Carbohydrate Polymers, 2017, 173, 403-411.	10.2	7
18	Novel product specificity toward erlose and panose exhibited by multisite engineered mutants of amylosucrase. Protein Science, 2017, 26, 566-577.	7.6	7

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19	The stability of an mRNA is influenced by its concentration: a potential physical mechanism to regulate gene expression. Nucleic Acids Research, 2017, 45, 11711-11724.	14.5	64
20	Investigations on the Determinants Responsible for Low Molar Mass Dextran Formation by DSR-M Dextransucrase. ACS Catalysis, 2017, 7, 7106-7119.	11.2	37
21	Evaluation of dough rheological properties and bread texture of pearl millet-wheat flour mix. Journal of Food Science and Technology, 2016, 53, 2061-2066.	2.8	22
22	GH13 amylosucrases and GH70 branching sucrases, atypical enzymes in their respective families. Cellular and Molecular Life Sciences, 2016, 73, 2661-2679.	5.4	44
23	Characterization of the First Î±-(1â†’3) Branching Sucrases of the GH70 Family. Journal of Biological Chemistry, 2016, 291, 7687-7702.	3.4	45
24	Inventory of the <scp>GH</scp>70 enzymes encoded by <i>LeuconostocÂcitreum </i><scp>NRRL</scp> Bâ€‐1299 â€“ identification of three novel Î±â€‐transglucosylases. FEBS Journal, 2015, 282, 2115-2130.	4.7	49
25	Overview of the glucansucrase equipment of Leuconostoc citreum LBAE-E16 and LBAE-C11, two strains isolated from sourdough. FEMS Microbiology Letters, 2015, 362, 1-8.	1.8	11
26	A highly thermostable lichenase from Bacillus sp. UEB-S: Biochemical and molecular characterization. Journal of Molecular Catalysis B: Enzymatic, 2015, 115, 8-12.	1.8	4
27	Computer-Aided Engineering of a Transglycosylase for the Glucosylation of an Unnatural Disaccharide of Relevance for Bacterial Antigen Synthesis. ACS Catalysis, 2015, 5, 1186-1198.	11.2	26
28	Exopolysaccharide (EPS) Synthesis by Oenococcus oeni: From Genes to Phenotypes. PLoS ONE, 2014, 9, e98898.	2.5	65
29	Complete Genome Sequence of Leuconostoc citreum Strain NRRL B-742. Genome Announcements, 2014, 2, .	0.8	8
30	Optimizing the production of an Î±-(1â†’2) branching sucrase in Escherichia coli using statistical design. Applied Microbiology and Biotechnology, 2014, 98, 5173-5184.	3.6	15
31	CAZyme discovery and design for sweet dreams. Current Opinion in Chemical Biology, 2014, 19, 17-24.	6.1	74
32	A laundry detergent compatible lichenase: Statistical optimization for production under solid state fermentation on crude millet. Industrial Crops and Products, 2013, 43, 349-354.	5.2	11
33	Characterization of a novel dextransucrase from Weissella confusa isolated from sourdough. Applied Microbiology and Biotechnology, 2013, 97, 5413-5422.	3.6	60
34	Combinatorial Engineering of Dextransucrase Specificity. PLoS ONE, 2013, 8, e77837.	2.5	18
35	Genome Sequences of Three Leuconostoc citreum Strains, LBAE C10, LBAE C11, and LBAE E16, Isolated from Wheat Sourdoughs. Journal of Bacteriology, 2012, 194, 1610-1611.	2.2	22
36	Genome Sequence of Weissella confusa LBAE C39-2, Isolated from a Wheat Sourdough. Journal of Bacteriology, 2012, 194, 1608-1609.	2.2	25

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37	Applying Pairwise Combinations of Amino Acid Mutations for Sorting Out Highly Efficient Glucosylation Tools for Chemo-Enzymatic Synthesis of Bacterial Oligosaccharides. Journal of the American Chemical Society, 2012, 134, 18677-18688.	13.7	48
38	Structure and Property Engineering of Î±-<scp>d</scp>-Glucans Synthesized by Dextransucrase Mutants. Biomacromolecules, 2012, 13, 187-195.	5.4	26
39	NMR-Based Structural Glycomics for High-Throughput Screening of Carbohydrate-Active Enzyme Specificity. Analytical Chemistry, 2011, 83, 1202-1206.	6.5	28
40	A novel dextransucrase is produced by Leuconostoc citreum strain B/110-1-2: an isolate used for the industrial production of dextran and dextran derivatives. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1499-1506.	3.0	13
41	Isolation of a Gene from Leuconostoc citreum B/110-1-2 Encoding a Novel Dextransucrase Enzyme. Current Microbiology, 2011, 62, 1260-1266.	2.2	19
42	A pH-Based High-Throughput Screening of Sucrose-Utilizing Transglucosidases for the Development of Enzymatic Glucosylation Tools. ChemCatChem, 2010, 2, 969-975.	3.7	8
43	Synthesis of dextrans with controlled amounts of Î±-1,2 linkages using the transglucosidase GBDâ€“CD2. Applied Microbiology and Biotechnology, 2010, 86, 545-554.	3.6	33
44	Design of Î±-Transglucosidases of Controlled Specificity for Programmed Chemoenzymatic Synthesis of Antigenic Oligosaccharides. Journal of the American Chemical Society, 2009, 131, 7379-7389.	13.7	64
45	One-step synthesis of isomalto-oligosaccharide syrups and dextrans of controlled size using engineered dextransucrase. Biocatalysis and Biotransformation, 2008, 26, 141-151.	2.0	18
46	Search for a dextransucrase minimal motif involved in dextran binding. FEBS Letters, 2007, 581, 4675-4680.	2.8	12
47	High-level production and purification of a fully active recombinant dextransucrase fromLeuconostoc mesenteroidesNRRL B-512F. FEMS Microbiology Letters, 2006, 261, 203-210.	1.8	28
48	Glucansucrases of GH family 70: What are the determinants of their specificities?. Biocatalysis and Biotransformation, 2006, 24, 137-145.	2.0	4
49	Understanding the Polymerization Mechanism of Glycoside-Hydrolase Family 70 Glucansucrases. Journal of Biological Chemistry, 2006, 281, 31254-31267.	3.4	119
50	Understanding the Polymerization Mechanism of Glycoside-Hydrolase Family 70 Glucansucrases. Journal of Biological Chemistry, 2006, 281, 31254-31267.	3.4	19