

Maria Elena Ortiz-Soto

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

308
citations

759233

12
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

375
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic Synthesis of Artificial Polysaccharides. ACS Sustainable Chemistry and Engineering, 2020, 8, 11853-11871.	6.7	27
2	Implications of the mutation S164A on Bacillus subtilis levansucrase product specificity and insights into protein interactions acting upon levan synthesis. International Journal of Biological Macromolecules, 2020, 161, 898-908.	7.5	13
3	Exploring the sequence variability of polymerization-involved residues in the production of levan- and inulin-type fructooligosaccharides with a levansucrase. Scientific Reports, 2019, 9, 7720.	3.3	17
4	Identification of a potential allosteric site of Golgi β -mannosidase II using computer-aided drug design. PLoS ONE, 2019, 14, e0216132.	2.5	5
5	A close look at the structural features and reaction conditions that modulate the synthesis of low and high molecular weight fructans by levansucrases. Carbohydrate Polymers, 2019, 219, 130-142.	10.2	39
6	Tuning the Product Spectrum of a Glycoside Hydrolase Enzyme by a Combination of Site-Directed Mutagenesis and Tyrosine-Specific Chemical Modification. Chemistry - A European Journal, 2019, 25, 6533-6541.	3.3	13
7	Structural and functional role of disulphide bonds and substrate binding residues of the human beta-galactoside alpha-2,3-sialyltransferase 1 (hST3Gal1). Scientific Reports, 2019, 9, 17993.	3.3	5
8	Product-oriented chemical surface modification of a levansucrase (SacB) via an ene-type reaction. Chemical Science, 2018, 9, 5312-5321.	7.4	19
9	Mechanistical Insights into the Bioconjugation Reaction of Triazolinediones with Tyrosine. Journal of Organic Chemistry, 2018, 83, 10248-10260.	3.2	15
10	Impaired coordination of nucleophile and increased hydrophobicity in the +1 subsite shift levansucrase activity towards transfructosylation. Glycobiology, 2017, 27, 755-765.	2.5	18
11	Expression of Functional Human Sialyltransferases ST3Gal1 and ST6Gal1 in Escherichia coli. PLoS ONE, 2016, 11, e0155410.	2.5	21
12	Biotechnological Synthesis and Transformation of Valuable Sugars in the Food and Pharmaceutical Industry. Current Organic Chemistry, 2014, 18, 964-986.	1.6	8
13	Fructooligosaccharide production by a truncated <i>Leuconostoc citreum</i> inulosucrase mutant. Biocatalysis and Biotransformation, 2010, 28, 51-59.	2.0	18
14	Evaluation of cross-linked aggregates from purified Bacillus subtilis levansucrase mutants for transfructosylation reactions. BMC Biotechnology, 2009, 9, 68.	3.3	28
15	Selected mutations in Bacillus subtilis levansucrase semi-conserved regions affecting its biochemical properties. Protein Engineering, Design and Selection, 2008, 21, 589-595.	2.1	62