

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

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996975

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all docs

15
docs citations

15
times ranked

375
citing authors

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