

Maria Fernandez-Lobato

List of Publications by Year in descending order

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78
papers

1,765
citations

304602

22
h-index

315616

38
g-index

80
all docs

80
docs citations

80
times ranked

1500
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of a β -fructofuranosidase from <i>Schwanniomyces occidentalis</i> with transfructosylating activity yielding the prebiotic 6-kestose. <i>Journal of Biotechnology</i> , 2007, 132, 75-81.	1.9	106
2	Production of Galacto-oligosaccharides by the β -Galactosidase from <i>Kluyveromyces lactis</i> : Comparative Analysis of Permeabilized Cells versus Soluble Enzyme. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 10477-10484.	2.4	92
3	Molecular and Biochemical Characterization of a β -Fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 1065-1073.	1.4	87
4	The Two Nonstructural Proteins from Wheat Dwarf Virus Involved in Viral Gene Expression and Replication Are Retinoblastoma-Binding Proteins. <i>Virology</i> , 1996, 219, 324-329.	1.1	71
5	Structural and Kinetic Analysis of <i>Schwanniomyces occidentalis</i> Invertase Reveals a New Oligomerization Pattern and the Role of Its Supplementary Domain in Substrate Binding. <i>Journal of Biological Chemistry</i> , 2010, 285, 13930-13941.	1.6	71
6	Analysis of neofructooligosaccharides production mediated by the extracellular β -fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Bioresource Technology</i> , 2012, 109, 123-130.	4.8	61
7	Use of chitin and chitosan to produce new chitooligosaccharides by chitinase Chit42: enzymatic activity and structural basis of protein specificity. <i>Microbial Cell Factories</i> , 2018, 17, 47.	1.9	58
8	Transformation of maltose into prebiotic isomaltooligosaccharides by a novel β -glucosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Process Biochemistry</i> , 2007, 42, 1530-1536.	1.8	56
9	Enzymatic production of fully deacetylated chitooligosaccharides and their neuroprotective and anti-inflammatory properties. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 57-67.	1.1	55
10	Dried alginate-entrapped enzymes (DALGEEs) and their application to the production of fructooligosaccharides. <i>Process Biochemistry</i> , 2013, 48, 677-682.	1.8	53
11	Structural Analysis of β -Fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> Reveals Unique Features and the Crucial Role of N-Glycosylation in Oligomerization and Activity. <i>Journal of Biological Chemistry</i> , 2016, 291, 6843-6857.	1.6	50
12	Expression of the <i>Schwanniomyces occidentalis</i> SWA2 amylase in <i>Saccharomyces cerevisiae</i> : role of N-glycosylation on activity, stability and secretion. <i>Biochemical Journal</i> , 1998, 329, 65-71.	1.7	46
13	Structural and Kinetic Insights Reveal That the Amino Acid Pair Gln-228/Asn-254 Modulates the Transfructosylating Specificity of <i>Schwanniomyces occidentalis</i> β -Fructofuranosidase, an Enzyme That Produces Prebiotics. <i>Journal of Biological Chemistry</i> , 2012, 287, 19674-19686.	1.6	39
14	New Insights into the Fructosyltransferase Activity of <i>Schwanniomyces occidentalis</i> β -Fructofuranosidase, Emerging from Nonconventional Codon Usage and Directed Mutation. <i>Applied and Environmental Microbiology</i> , 2010, 76, 7491-7499.	1.4	37
15	Biochemical characterization of a β -fructofuranosidase from <i>Rhodotorula dairenensis</i> with transfructosylating activity. <i>FEMS Yeast Research</i> , 2009, 9, 768-773.	1.1	36
16	Production of fructooligosaccharides by mycelium-bound transfructosylation activity present in <i>Cladosporium cladosporioides</i> and <i>Penicillium sizovae</i> . <i>Process Biochemistry</i> , 2014, 49, 2174-2180.	1.8	36
17	Heterologous overproduction of β -fructofuranosidase from yeast <i>Xanthophyllomyces dendrorhous</i> , an enzyme producing prebiotic sugars. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 3459-3467.	1.7	31
18	Effect of prolactin and glucocorticoids on P-enolpyruvate carboxykinase activity in liver and mammary gland from diabetic and lactating rats. <i>Molecular and Cellular Biochemistry</i> , 1985, 67, 19-23.	1.4	30

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19	Tailored Enzymatic Synthesis of Chitooligosaccharides with Different Deacetylation Degrees and Their Anti-Inflammatory Activity. <i>Catalysts</i> , 2019, 9, 405.	1.6	29
20	Enzymatic Synthesis and Characterization of Different Families of Chitooligosaccharides and Their Bioactive Properties. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3212.	1.3	27
21	Malic enzyme levels are increased by the activation of NADPH-consuming pathways: detoxification processes. <i>FEBS Letters</i> , 1986, 202, 102-106.	1.3	26
22	Sterol Regulatory Element-Binding Protein (Sre1) Promotes the Synthesis of Carotenoids and Sterols in <i>Xanthophyllomyces dendrorhous</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 586.	1.5	26
23	The Involvement of Mig1 from <i>Xanthophyllomyces dendrorhous</i> in Catabolic Repression: An Active Mechanism Contributing to the Regulation of Carotenoid Production. <i>PLoS ONE</i> , 2016, 11, e0162838.	1.1	24
24	Purification and biochemical characterization of an α -glucosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Yeast</i> , 2006, 23, 117-125.	0.8	23
25	Efficient conversion of chitosan into chitooligosaccharides by a chitosanolytic activity from <i>Bacillus thuringiensis</i> . <i>Process Biochemistry</i> , 2018, 73, 102-108.	1.8	22
26	Production and characterization of chitooligosaccharides by the fungal chitinase Chit42 immobilized on magnetic nanoparticles and chitosan beads: selectivity, specificity and improved operational utility. <i>RSC Advances</i> , 2021, 11, 5529-5536.	1.7	21
27	Regulation of MSV and WDV virion-sense promoters by WDV nonstructural proteins: a role for their retinoblastoma protein-binding motifs. <i>Virology</i> , 2003, 306, 313-323.	1.1	20
28	Molecular characterization and heterologous expression of a <i>Xanthophyllomyces dendrorhous</i> α -glucosidase with potential for prebiotics production. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 3125-3135.	1.7	20
29	Integration of lipid metabolism in the mammary gland and adipose tissue by prolactin during lactation. <i>Molecular and Cellular Biochemistry</i> , 1990, 93, 185-94.	1.4	19
30	Enzymatic Synthesis of a Novel Pterostilbene α -Glucoside by the Combination of Cyclodextrin Glucanotransferase and Amyloglucosidase. <i>Molecules</i> , 2018, 23, 1271.	1.7	19
31	Endo-chitinase Chit33 specificity on different chitinolytic materials allows the production of unexplored chitooligosaccharides with antioxidant activity. <i>Biotechnology Reports (Amsterdam)</i> , 2021, 11, 0784314.	1.4	19
32	A Three-Step Process for the Bioconversion of Whey Permeate into a Glucose-Free D-Tagatose Syrup. <i>Catalysts</i> , 2020, 10, 647.	1.6	19
33	Isolation of a new gene (SW A2) encoding an α -amylase from <i>Schwanniomyces occidentalis</i> and its expression in <i>Saccharomyces cerevisiae</i> . <i>FEBS Letters</i> , 1991, 279, 41-44.	1.3	18
34	Regioselective synthesis of neo-erlose by the β -fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Process Biochemistry</i> , 2014, 49, 423-429.	1.8	18
35	Immobilization of the β -fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> by Entrapment in Polyvinyl Alcohol and Its Application to Neo-Fructooligosaccharides Production. <i>Catalysts</i> , 2018, 8, 201.	1.6	18
36	Molecular structure of the SWA2 gene encoding an AMY1-related α -amylase from <i>Schwanniomyces occidentalis</i> . <i>Current Genetics</i> , 1993, 24, 75-83.	0.8	17

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37	Construction of an efficient amylolytic industrial yeast strain containing DNA exclusively derived from yeast. <i>FEMS Microbiology Letters</i> , 2001, 201, 249-253.	0.7	17
38	Assessment of <i>Schwanniomyces occidentalis</i> as a host for protein production using the wide-range Xplor [®] 2 expression platform. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 4443-4456.	1.7	17
39	Synthesis of 6-kestose using an Efficient β -Fructofuranosidase Engineered by Directed Evolution. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 1698-1702.	2.1	17
40	Regulation of carotenogenesis in the red yeast <i>Xanthophyllomyces dendrorhous</i> : the role of the transcriptional co-repressor complex Cyc8-Tup1 involved in catabolic repression. <i>Microbial Cell Factories</i> , 2016, 15, 193.	1.9	17
41	Yeast cultures expressing the Ffase from <i>Schwanniomyces occidentalis</i> , a simple system to produce the potential prebiotic sugar 6-kestose. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 279-289.	1.7	17
42	Exploring the transferase activity of Ffase from <i>Schwanniomyces occidentalis</i> , a β -fructofuranosidase showing high fructosyl-acceptor promiscuity. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8769-8778.	1.7	16
43	Presence of Cytosolic Phosphoenolpyruvate Carboxykinase Activity in Rat Mammary Gland. <i>Enzyme</i> , 1983, 30, 265-268.	0.7	15
44	Isolation and expression in <i>Saccharomyces cerevisiae</i> of a gene encoding an α -amylase from <i>Schwanniomyces castellii</i> . <i>FEBS Letters</i> , 1989, 255, 455-459.	1.3	15
45	Efficient production of isomelezitose by a glucosyltransferase activity in <i>Metschnikowia reukaufii</i> cell extracts. <i>Microbial Biotechnology</i> , 2019, 12, 1274-1285.	2.0	15
46	Coordination of Glucose Metabolism and NADPH Formation in the Adipose Tissue and Mammary Gland during the Lactation-Weaning Transition. <i>Enzyme</i> , 1983, 30, 38-47.	0.7	14
47	Fructosylation of Hydroxytyrosol by the β -Fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> : Insights into the Molecular Basis of the Enzyme Specificity. <i>ChemCatChem</i> , 2018, 10, 4878-4887.	1.8	14
48	Aging in Male Wistar Rats Associates With Changes in Intestinal Microbiota, Gut Structure, and Cholecystokinin-Mediated Gut-Brain Axis Function. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, 76, 1915-1921.	1.7	14
49	Screening β -Fructofuranosidases Mutant Libraries to Enhance the Transglycosylation Rates of β -Fructooligosaccharides. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011, 14, 730-738.	0.6	13
50	Expression in <i>Escherichia coli</i> of a recombinant adenosine kinase from <i>Saccharomyces cerevisiae</i> : purification, kinetics and substrate analyses. <i>Yeast</i> , 2003, 20, 1145-1150.	0.8	11
51	Molecular characterization and heterologous expression of two α -glucosidases from <i>Metschnikowia</i> spp, both producers of honey sugars. <i>Microbial Cell Factories</i> , 2020, 19, 140.	1.9	11
52	Influence of Starvation / Refeeding Transition on Lipogenesis and NADPH Producing Systems in Adipose Tissue, Mammary Gland and Liver at Mid-Lactation. <i>Hormone and Metabolic Research</i> , 1985, 17, 226-229.	0.7	10
53	Involvement of diminution of glutathione, produced by deficiency of methionine in the diet, in the elevation of malic enzyme level in rat liver. <i>Lipids and Lipid Metabolism</i> , 1991, 1084, 48-52.	2.6	10
54	Characterization of the biosynthetic gene cluster (ata) for the A201A aminonucleoside antibiotic from <i>Saccharothrix mutabilis</i> subsp. <i>capreolus</i> . <i>Journal of Antibiotics</i> , 2017, 70, 404-413.	1.0	10

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55	Nutritional and hormonal regulation of malic enzyme synthesis in rat mammary gland. <i>Biochemical Journal</i> , 1986, 236, 441-445.	1.7	9
56	The pur6 gene of the puromycin biosynthetic gene cluster from <i>Streptomyces alboniger</i> encodes a tyrosinyl-aminonucleoside synthetase. <i>FEBS Letters</i> , 2004, 577, 371-375.	1.3	9
57	Structural inspection and protein motions modelling of a fungal glycoside hydrolase family 18 chitinase by crystallography depicts a dynamic enzymatic mechanism. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5466-5478.	1.9	9
58	Generation of Astaxanthin Mutants in <i>Xanthophyllomyces dendrorhous</i> Using a Double Recombination Method Based on Hygromycin Resistance. <i>Methods in Molecular Biology</i> , 2012, 898, 219-234.	0.4	8
59	Fatty Acyl-CoAs as feedback regulators of hexose monophosphate shunt in rat adipocytes. <i>Molecular and Cellular Biochemistry</i> , 1984, 63, 119-23.	1.4	7
60	Crystallization and preliminary X-ray diffraction analysis of the fructofuranosidase from <i>Schwanniomyces occidentalis</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 1162-1165.	0.7	7
61	Structure-Function Insights into the Fungal Endo-Chitinase Chit33 Depict its Mechanism on Chitinous Material. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7599.	1.8	7
62	Crystallization and preliminary X-ray diffraction analysis of the fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2010, 66, 1441-1444.	0.7	6
63	Polyglucosylation of Rutin Catalyzed by Cyclodextrin Glucanotransferase from <i>Geobacillus</i> sp.: Optimization and Chemical Characterization of Products. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 18651-18659.	1.8	6
64	Molecular and functional analysis of a MIG1 homologue from the yeast <i>Schwanniomyces occidentalis</i> . <i>Yeast</i> , 2002, 19, 459-465.	0.8	5
65	On the Enzyme Specificity for the Synthesis of Prebiotic Galactooligosaccharides. , 2013, , 23-39.		5
66	Deciphering the molecular specificity of phenolic compounds as inhibitors or glycosyl acceptors of Î²-fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Scientific Reports</i> , 2019, 9, 17441.	1.6	5
67	New insights into the molecular mechanism behind mannitol and erythritol fructosylation by Î²-fructofuranosidase from <i>Schwanniomyces occidentalis</i> . <i>Scientific Reports</i> , 2021, 11, 7158.	1.6	5
68	Tailoring fructooligosaccharides composition with engineered <i>Zymomonas mobilis</i> ZM4. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 4617-4626.	1.7	5
69	The Î²-Fructofuranosidase from <i>Rhodotorula dairenensis</i> : Molecular Cloning, Heterologous Expression, and Evaluation of Its Transferase Activity. <i>Catalysts</i> , 2021, 11, 476.	1.6	4
70	Reuse of Immobilized <i>Komagataella phaffii</i> Cells for the Elimination of α -Glucose in Syrups of Bioactive Carbohydrates. <i>ACS Food Science & Technology</i> , 2022, 2, 682-690.	1.3	4
71	Enzymatic synthesis of novel fructosylated compounds by Ffase from <i>Schwanniomyces occidentalis</i> in green solvents. <i>RSC Advances</i> , 2021, 11, 24312-24319.	1.7	3
72	Characterization of virus-like particles and identification of capsid proteins in <i>Xanthophyllomyces dendrorhous</i> . <i>Virus Genes</i> , 2015, 50, 253-259.	0.7	2

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73	TheSCR1 gene from <i>Schwanniomyces occidentalis</i> encodes a highly hydrophobic polypeptide, which confers ribosomal resistance to cycloheximide. <i>Yeast</i> , 2002, 19, 735-743.	0.8	1
74	Thepur3 gene from thepur cluster encodes a monophosphatase essential for puromycin biosynthesis in <i>Streptomyces</i> . <i>FEBS Letters</i> , 2006, 580, 1807-1811.	1.3	1
75	Isolation and Characterization of Extrachromosomal Double-Stranded RNA Elements in <i>Xanthophyllomyces dendrorhous</i> . <i>Methods in Molecular Biology</i> , 2012, 898, 195-205.	0.4	1
76	Engineering <i>Saccharomyces cerevisiae</i> for the one-step production of a functional sweetening mixture towards food applications. <i>Food and Bioproducts Processing</i> , 2022, , .	1.8	1
77	High-level and low-level resistance to trichodermin in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Society Transactions</i> , 1987, 15, 1041-1042.	1.6	0
78	Isolation and Characterization of Extrachromosomal Double-Stranded RNA Elements from Carotenogenic Yeasts. <i>Methods in Molecular Biology</i> , 2018, 1852, 327-339.	0.4	0