Jose Miguel ManchÃ±o

List of Publications by Year
in descending order

86 papers	3,472 citations	136950 32 h-index	149698 56 g-index
86 all docs	86 docs citations	86 times ranked	3554 citing authors

#	Article	IF	Citations
1	Food phenolics and lactic acid bacteria. International Journal of Food Microbiology, 2009, 132, 79-90.	4.7	494
2	Crystal and Electron Microscopy Structures of Sticholysin II Actinoporin Reveal Insights into the Mechanism of Membrane Pore Formation. Structure, 2003, 11, 1319-1328.	3.3	218
3	Characterization of a Feruloyl Esterase from Lactobacillus plantarum. Applied and Environmental Microbiology, 2013, 79, 5130-5136.	3.1	120
4	Structural Analysis of the Laetiporus sulphureus Hemolytic Pore-forming Lectin in Complex with Sugars. Journal of Biological Chemistry, 2005, 280, 17251-17259.	3.4	109
5	Mechanism of the leakage induced on lipid model membranes by the hemolytic protein sticholysin II from the sea anemone Stichodactyla helianthus. FEBS Journal, 1998, 252, 284-289.	0.2	102
6	Characterization of the Antifungal Protein Secreted by the MouldAspergillus giganteus. Archives of Biochemistry and Biophysics, 1995, 324, 273-281.	3.0	101
7	Sticholysins, two pore-forming toxins produced by the Caribbean Sea anemone Stichodactyla helianthus: Their interaction with membranes. Toxicon, 2009, 54, 1135-1147.	1.6	100
8	Tannin Degradation by a Novel Tannase Enzyme Present in Some Lactobacillus plantarum Strains. Applied and Environmental Microbiology, 2014, 80, 2991-2997.	3.1	97
9	Structural Insights into the Lipase/esterase Behavior in the Candida rugosa Lipases Family: Crystal Structure of the Lipase 2 Isoenzyme at 1.97Ã... Resolution. Journal of Molecular Biology, 2003, 332, 1059-1069.	4.2	95
10	Characterization of the p-Coumaric Acid Decarboxylase from Lactobacillus plantarum CECT 748^T. Journal of Agricultural and Food Chemistry, 2008, 56, 3068-3072.	5.2	81
11	Production and Physicochemical Properties of Recombinant Lactobacillus plantarum Tannase. Journal of Agricultural and Food Chemistry, 2009, 57, 6224-6230.	5.2	79
12	BzdR, a Repressor That Controls the Anaerobic Catabolism of Benzoate in Azoarcus sp. CIB, Is the First Member of a New Subfamily of Transcriptional Regulators. Journal of Biological Chemistry, 2005, 280, 10683-10694.	3.4	77
13	Hydralysins, a New Category of Î²-Pore-forming Toxins in Cnidaria. Journal of Biological Chemistry, 2005, 280, 22847-22855.	3.4	75
14	Overproduction and purification of biologically active native fungal Î±-sarcin in Escherichia coli. Gene, 1994, 142, 147-151.	2.2	64
15	Characterization of a halotolerant lipase from the lactic acid bacteria Lactobacillus plantarum useful in food fermentations. LWT - Food Science and Technology, 2015, 60, 246-252.	5.2	56
16	Sticholysin II, a cytolysin from the sea anemoneStichodactyla helianthus, is a monomer-tetramer associating protein. FEBS Letters, 1999, 455, 27-30.	2.8	55
17	Gene cloning, expression, and characterization of phenolic acid decarboxylase from Lactobacillus brevis RM84. Journal of Industrial Microbiology and Biotechnology, 2010, 37, 617-624.	3.0	55
18	pâ€Coumaric acid decarboxylase from Lactobacillus plantarum: Structural insights into the active site and decarboxylation catalytic mechanism. Proteins: Structure, Function and Bioinformatics, 2010, 78, 1662-1676.	2.6	52

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19	Release of Lipid Vesicle Contents by an Antibacterial Cecropin Aâ^'Melittin Hybrid Peptide. Biochemistry, 1996, 35, 9892-9899.	2.5	50
20	Deletion of the NH2-terminal Î²-Hairpin of the Ribotoxin Î±-Sarcin Produces a Nontoxic but Active Ribonuclease. Journal of Biological Chemistry, 2002, 277, 18632-18639.	3.4	48
21	Food mustard allergen interaction with phospholipid vesicles. FEBS Journal, 1994, 225, 609-615.	0.2	47
22	Role of histidine-50, glutamic acid-96, and histidine-137 in the ribonucleolytic mechanism of the ribotoxin ?-sarcin. , 1999, 37, 474-484.		47
23	The pURI family of expression vectors: A versatile set of ligation independent cloning plasmids for producing recombinant His-fusion proteins. Protein Expression and Purification, 2011, 76, 44-53.	1.3	45
24	RNase U2 and Î±-Sarcin: A Study of Relationships. Methods in Enzymology, 2001, 341, 335-351.	1.0	44
25	The cytotoxin Î±-sarcin behaves as a cyclizing ribonuclease. FEBS Letters, 1998, 424, 46-48.	2.8	36
26	Overproduction in Escherichia coli and Purification of the Hemolytic Protein Sticholysin II from the Sea Anemone Stichodactyla helianthus. Protein Expression and Purification, 2000, 18, 71-76.	1.3	36
27	Two-Dimensional Crystallization on Lipid Monolayers and Three-Dimensional Structure of Sticholysin II, a Cytolysin from the Sea Anemone Stichodactyla helianthus. Biophysical Journal, 2000, 78, 3186-3194.	0.5	36
28	Characterization of a Cold-Active Esterase from Lactobacillus plantarum Suitable for Food Fermentations. Journal of Agricultural and Food Chemistry, 2014, 62, 5126-5132.	5.2	36
29	The role of electrostatic interactions in the antitumor activity of dimeric RNases. FEBS Journal, 2006, 273, 3687-3697.	4.7	35
30	Phenotypic selection and characterization of randomly produced non-haemolytic mutants of the toxic sea anemone protein sticholysin II. FEBS Letters, 2004, 575, 14-18.	2.8	34
31	High-resolution structural insights on the sugar-recognition and fusion tag properties of a versatile Î²-trefoil lectin domain from the mushroom Laetiporus sulphureus. Glycobiology, 2011, 21, 1349-1361.	2.5	34
32	Predictive study of the conformation of the cytotoxic protein Î±-sarcin: a structural model to explain Î±-sarcin-membrane interaction. Journal of Theoretical Biology, 1995, 172, 259-267.	1.7	33
33	The Antifungal Protein AFP of Aspergillus giganteusIs an Oligonucleotide/Oligosaccharide Binding (OB) Fold-containing Protein That Produces Condensation of DNA. Journal of Biological Chemistry, 2002, 277, 46179-46183.	3.4	33
34	Biochemical Characterization of the Transcriptional Regulator BzdR from Azoarcus sp. CIB. Journal of Biological Chemistry, 2010, 285, 35694-35705.	3.4	33
35	Secretion of Recombinant Pro- and Mature Fungal Î±-Sarcin Ribotoxin by the Methylotrophic YeastPichia pastoris:The Lysâ€“Arg Motif Is Required for Maturation. Protein Expression and Purification, 1998, 12, 315-322.	1.3	32
36	Structure, biochemical characterization and analysis of the pleomorphism of carboxylesterase Cest-2923 fromLactobacillusÂplantarumWCFS1. FEBS Journal, 2013, 280, 6658-6671.	4.7	32

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37	Bovine Seminal Ribonuclease Destabilizes Negatively Charged Membranes. Biochemical and Biophysical Research Communications, 1994, 199, 119-124.	2.1	31
38	Characterization of a natural larger form of the antifungal protein (AFP) from Aspergillus giganteus. BBA - Proteins and Proteomics, 1997, 1340, 81-87.	2.1	31
39	Involvement of the amino-terminal Î²-hairpin of theAspergillusribotoxins on the interaction with membrances and nonspecific ribonuclease activity. Protein Science, 2001, 10, 1658-1668.	7.6	30
40	Assignment of the contribution of the tryptophan residues to the spectroscopic and functional properties of the ribotoxin ?-sarcin. Proteins: Structure, Function and Bioinformatics, 2000, 41, 350-361.	2.6	29
41	Insights into the activation of brain serine racemase by the multiâ€PDZ domain glutamate receptor interacting protein, divalent cations and ATP. FEBS Journal, 2007, 274, 4561-4571.	4.7	29
42	Laetiporus sulphureus Lectin and Aerolysin Protein Family. Advances in Experimental Medicine and Biology, 2010, 677, 67-80.	1.6	28
43	Enzymatic Synthesis of Therapeutic Nucleosides using a Highly Versatile Purine Nucleoside 2â€™â€Deoxyribosyltransferase from Trypanosoma brucei. ChemCatChem, 2018, 10, 4406-4416.	3.7	28
44	Kinetic study of the aggregation and lipid mixing produced by alpha-sarcin on phosphatidylglycerol and phosphatidylserine vesicles: stopped-flow light scattering and fluorescence energy transfer measurements. Biophysical Journal, 1994, 67, 1117-1125.	0.5	27
45	Partially folded states of the cytolytic protein sticholysin II. BBA - Proteins and Proteomics, 2001, 1545, 122-131.	2.1	25
46	Sequence Determination and Molecular Characterization of Gigantin, a Cytotoxic Protein Produced by the MouldAspergillus giganteusIFO 5818. Archives of Biochemistry and Biophysics, 1997, 343, 188-193.	3.0	24
47	Arginine 121 is a crucial residue for the specific cytotoxic activity of the ribotoxin Î±-sarcin. FEBS Journal, 2001, 268, 6190-6196.	0.2	24
48	Expression Vectors for Enzyme Restriction- and Ligation-Independent Cloning for Producing Recombinant His-Fusion Proteins. Biotechnology Progress, 2008, 23, 680-686.	2.6	23
49	Esterase LpEst1 from Lactobacillus plantarum: A Novel and Atypical Member of the Î±Î² Hydrolase Superfamily of Enzymes. PLoS ONE, 2014, 9, e92257.	2.5	23
50	A complementary microscopy analysis of Sticholysin II crystals on lipid films: Atomic force and transmission electron characterizations. Biophysical Chemistry, 2006, 119, 219-223.	2.8	22
51	Cloning, production, purification and preliminary crystallographic analysis of a glycosidase from the food lactic acid bacterium Lactobacillus plantarum CECT 748T. Protein Expression and Purification, 2009, 68, 177-182.	1.3	22
52	The Lp_3561 and Lp_3562 Enzymes Support a Functional Divergence Process in the Lipase/Esterase Toolkit from Lactobacillus plantarum. Frontiers in Microbiology, 2016, 7, 1118.	3.5	22
53	Directed, Strong, and Reversible Immobilization of Proteins Tagged with a Î²-Trefoil Lectin Domain: A Simple Method to Immobilize Biomolecules on Plain Agarose Matrixes. Bioconjugate Chemistry, 2012, 23, 565-573.	3.6	20
54	2â€²-Deoxyribosyltransferase from Leishmania mexicana, an efficient biocatalyst for one-pot, one-step synthesis of nucleosides from poorly soluble purine bases. Applied Microbiology and Biotechnology, 2017, 101, 7187-7200.	3.6	20

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55	Characterization of a Versatile Arylesterase from Lactobacillus plantarum Active on Wine Esters. Journal of Agricultural and Food Chemistry, 2014, 62, 5118-5125.	5.2	19
56	Improving Properties of a Novel Î²-Galactosidase from Lactobacillus plantarum by Covalent Immobilization. Molecules, 2015, 20, 7874-7889.	3.8	19
57	2â€²-Deoxyribosyltransferase from Bacillus psychrosaccharolyticus: A Mesophilic-Like Biocatalyst for the Synthesis of Modified Nucleosides from a Psychrotolerant Bacterium. Catalysts, 2018, 8, 8.	3.5	18
58	A peptide of nine amino acid residues from Î±â€sarcin cytotoxin is a membraneâ€perturbing structure. Chemical Biology and Drug Design, 1998, 51, 142-148.	1.1	17
59	Crystal Structure of the Hexameric Catabolic Ornithine Transcarbamylase from Lactobacillus hilgardii: Structural Insights into the Oligomeric Assembly and Metal Binding. Journal of Molecular Biology, 2009, 393, 425-434.	4.2	17
60	Identification of a highly active tannase enzyme from the oral pathogen Fusobacterium nucleatum subsp. polymorphum. Microbial Cell Factories, 2018, 17, 33.	4.0	17
61	Characterization of an atypical, thermostable, organic solvent- and acid-tolerant 2â€²-deoxyribosyltransferase from Chroococcidiopsis thermalis. Applied Microbiology and Biotechnology, 2018, 102, 6947-6957.	3.6	17
62	GSE4, a Small Dyskerin- and GSE24.2-Related Peptide, Induces Telomerase Activity, Cell Proliferation and Reduces DNA Damage, Oxidative Stress and Cell Senescence in Dyskerin Mutant Cells. PLoS ONE, 2015, 10, e0142980.	2.5	16
63	Two-Photon Fluorescence Anisotropy Imaging to Elucidate the Dynamics and the Stability of Immobilized Proteins. Journal of Physical Chemistry B, 2016, 120, 485-491.	2.6	16
64	Crystallization and preliminary crystallographic analysis of a novel haemolytic lectin from the mushroomLaetiporus sulphureus. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1139-1141.	2.5	15
65	Oligomerization of the cytotoxin Î±-sarcin associated with phospholipid membranes. Molecular Membrane Biology, 1998, 15, 141-144.	2.0	13
66	Identification of a Missing Link in the Evolution of an Enzyme into a Transcriptional Regulator. PLoS ONE, 2013, 8, e57518.	2.5	13
67	Refactoring the Î» phage lytic/lysogenic decision with a synthetic regulator. MicrobiologyOpen, 2016, 5, 575-581.	3.0	12
68	Ribonuclease U2: cloning, production inPichia pastorisand affinity chromatography purification of the active recombinant protein. FEMS Microbiology Letters, 2000, 189, 165-169.	1.8	8
69	Ribonuclease U2: cloning, production in Pichia pastoris and affinity chromatography purification of the active recombinant protein. FEMS Microbiology Letters, 2000, 189, 165-169.	1.8	8
70	Overexpression, purification, crystallization and preliminary structural studies ofp-coumaric acid decarboxylase fromLactobacillus plantarum. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 300-303.	0.7	8
71	Crystallization and preliminary crystallographic analysis of the catalytic module of endolysin from Cp-7, a phage infectingStreptococcus pneumoniae. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 670-673.	0.7	7
72	The crystal structure of galactitolâ€1â€phosphate 5â€dehydrogenase from Escherichia coli K12 provides insights into its anomalous behavior on IMAC processes. FEBS Letters, 2012, 586, 3127-3133.	2.8	7

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73	Crystallization of a proteolyzed form of the horse pancreatic lipase-related protein 2: structural basis for the specific detergent requirement. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 2107-2109.	2.5	6
74	Enantioselective oxidation of galactitol 1-phosphate by galactitol-1-phosphate 5-dehydrogenase fromEscherichia coli. Acta Crystallographica Section D: Biological Crystallography, 2015, 71, 1540-1554.	2.5	6
75	Structural basis of the substrate specificity and instability in solution of a glycosidase from Lactobacillus plantarum. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1227-1236.	2.3	6
76	Crystallization and preliminary X-ray diffraction studies of two different crystal forms of the lipase 2 isoform from the yeastCandida rugosa. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 499-501.	2.5	5
77	A preliminary crystallographic study of recombinant NicX, an Fe²⁺-dependent 2,5-dihydroxypyridine dioxygenase fromPseudomonas putidaKT2440. Acta Crystallographica Section F: Structural Biology Communications, 2010, 66, 549-553.	0.7	4
78	Biochemical and structural studies of two tetrameric nucleoside 2â€²-deoxyribosyltransferases from psychrophilic and mesophilic bacteria: Insights into cold-adaptation. International Journal of Biological Macromolecules, 2021, 192, 138-150.	7.5	4
79	Escherichia coli JA221 can suppress the UAG stop signal. Letters in Applied Microbiology, 1995, 21, 96-98.	2.2	3
80	Crystallization and preliminary X-ray diffraction studies of the water-soluble state of the pore-forming toxin sticholysin II from the sea anemoneStichodactyla helianthus. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1229-1231.	2.5	3
81	Preliminary X-ray analysis of twinned crystals of the Q88Y25_Lacpl esterase fromLactobacillus plantarumWCFS1. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1436-1439.	0.7	3
82	A structurally unique Fusobacterium nucleatum tannase provides detoxicant activity against gallotannins and pathogen resistance. Microbial Biotechnology, 2020, , .	4.2	3
83	Oriented Attachment of Recombinant Proteins to Agarose-Coated Magnetic Nanoparticles by Means of a Î²-Trefoil Lectin Domain. Bioconjugate Chemistry, 2016, 27, 2734-2743.	3.6	1
84	X-ray and Neutron Diffraction Approaches to the Structural Analysis of Protein-Lipid Interactions. , 2006, , 63-110.		1
85	Molecular Interactions Involved in the Passage of the Cytotoxic Protein Î±-Sarcin Across Membranes. , 1994, , 269-276.		1
86	Personal perspectives. Arbor, 2015, 191, a223.	0.3	0