

Francisco J Plou

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149
papers

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43
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71
g-index

156
ext. papers

6,722
ext. citations

4.9
avg, IF

5.64
L-index

#	Paper	IF	Citations
149	Environmental biocatalysis: from remediation with enzymes to novel green processes. <i>Trends in Biotechnology</i> , 2006 , 24, 281-7	15.1	308
148	Engineering and Applications of fungal laccases for organic synthesis. <i>Microbial Cell Factories</i> , 2008 , 7, 32	6.4	251
147	Laccases and their applications: a patent review. <i>Recent Patents on Biotechnology</i> , 2008 , 2, 10-24	2.2	219
146	Decolorization of synthetic dyes by laccase immobilized on epoxy-activated carriers. <i>Process Biochemistry</i> , 2008 , 43, 169-178	4.8	196
145	Synthesis of sugar esters in solvent mixtures by lipases from <i>Thermomyces lanuginosus</i> and <i>Candida antarctica</i> B, and their antimicrobial properties. <i>Enzyme and Microbial Technology</i> , 2005 , 36, 391-398	3.8	191
144	Enzymatic acylation of di- and trisaccharides with fatty acids: choosing the appropriate enzyme, support and solvent. <i>Journal of Biotechnology</i> , 2002 , 96, 55-66	3.7	172
143	Novel polyphenol oxidase mined from a metagenome expression library of bovine rumen: biochemical properties, structural analysis, and phylogenetic relationships. <i>Journal of Biological Chemistry</i> , 2006 , 281, 22933-42	5.4	146
142	Transformation of polycyclic aromatic hydrocarbons by laccase is strongly enhanced by phenolic compounds present in soil. <i>Environmental Science & Technology</i> , 2007 , 41, 2964-71	10.3	131
141	Purification and kinetic characterization of a fructosyltransferase from <i>Aspergillus aculeatus</i> . <i>Journal of Biotechnology</i> , 2007 , 128, 204-11	3.7	124
140	Lipase-catalyzed regioselective acylation of sucrose in two-solvent mixtures. <i>Biotechnology and Bioengineering</i> , 1999 , 65, 10-6	4.9	116
139	Comparative Surface Activities of Di- and Trisaccharide Fatty Acid Esters. <i>Langmuir</i> , 2002 , 18, 667-673	4	102
138	The Chemistry of Reactive Oxygen Species (ROS) Revisited: Outlining Their Role in Biological Macromolecules (DNA, Lipids and Proteins) and Induced Pathologies. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	102
137	In vitro evolution of a fungal laccase in high concentrations of organic cosolvents. <i>Chemistry and Biology</i> , 2007 , 14, 1052-64		97
136	Characterization of a beta-fructofuranosidase from <i>Schwanniomyces occidentalis</i> with transfructosylating activity yielding the prebiotic 6-kestose. <i>Journal of Biotechnology</i> , 2007 , 132, 75-81	3.7	94
135	Galactooligosaccharides formation during enzymatic hydrolysis of lactose: towards a prebiotic-enriched milk. <i>Food Chemistry</i> , 2014 , 145, 388-94	8.5	91
134	Immobilization on Eupergit C of cyclodextrin glucosyltransferase (CGTase) and properties of the immobilized biocatalyst. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003 , 21, 299-308		91
133	Detailed analysis of galactooligosaccharides synthesis with β -galactosidase from <i>Aspergillus oryzae</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 1081-7	5.7	90

132	Galacto-oligosaccharide synthesis from lactose solution or skim milk using the β Galactosidase from <i>Bacillus circulans</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 6391-8	5.7	86
131	Immobilisation of fructosyltransferase from <i>Aspergillus aculeatus</i> on epoxy-activated Sepabeads EC for the synthesis of fructo-oligosaccharides. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005 , 35, 19-27		86
130	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, 10477-84	5.7	83
129	Influence of reaction conditions on the selectivity of the synthesis of lactulose with microbial β Galactosidases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011 , 72, 206-212		80
128	Molecular and biochemical characterization of a beta-fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Applied and Environmental Microbiology</i> , 2009 , 75, 1065-73	4.8	80
127	A Simple Procedure for the Regioselective Synthesis of Fatty Acid Esters of Maltose, Leucrose, Maltotriose and n-Dodecyl Maltosides. <i>Tetrahedron</i> , 2000 , 56, 4053-4061	2.4	72
126	High-yield production of mono- and di-oleylglycerol by lipase-catalyzed hydrolysis of triolein. <i>Enzyme and Microbial Technology</i> , 1996 , 18, 66-71	3.8	71
125	Synthesis of 1-Naphthol by a Natural Peroxygenase Engineered by Directed Evolution. <i>ChemBioChem</i> , 2016 , 17, 341-9	3.8	64
124	Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. <i>Biotechnology Letters</i> , 1998 , 12, 183-186		60
123	Regioselective lipase-catalyzed synthesis of 3-o-acyl derivatives of resveratrol and study of their antioxidant properties. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 807-13	5.7	58
122	Effect of carbohydrate fatty acid esters on <i>Streptococcus sobrinus</i> and glucosyltransferase activity. <i>Carbohydrate Research</i> , 2004 , 339, 1029-34	2.9	56
121	Analysis of neofructooligosaccharides production mediated by the extracellular β Fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Bioresource Technology</i> , 2012 , 109, 123-30	11	55
120	Screening mutant libraries of fungal laccases in the presence of organic solvents. <i>Journal of Biomolecular Screening</i> , 2005 , 10, 624-31		55
119	Altering the laccase functionality by in vivo assembly of mutant libraries with different mutational spectra. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 71, 250-60	4.2	54
118	Glucosyltransferases acting on starch or sucrose for the synthesis of oligosaccharides. <i>Canadian Journal of Chemistry</i> , 2002 , 80, 743-752	0.9	54
117	Immobilization of dextranucrase from <i>Leuconostoc mesenteroides</i> NRRL B-512F on Eupergit C supports. <i>Biotechnology Progress</i> , 2004 , 20, 1414-20	2.8	53
116	Prebiotic effect of xylooligosaccharides produced from birchwood xylan by a novel fungal GH11 xylanase. <i>Food Chemistry</i> , 2017 , 232, 105-113	8.5	52
115	Enzymatic Synthesis of β Glucosides of Resveratrol with Surfactant Activity. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 1077-1086	5.6	52

114	Transformation of maltose into prebiotic isomaltooligosaccharides by a novel <i>E</i> glucosidase from <i>Xantophyllomyces dendrorhous</i> . <i>Process Biochemistry</i> , 2007 , 42, 1530-1536	4.8	49
113	Antioxidant activity of resveratrol in several fish lipid matrices: effect of acylation and glucosylation. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 9778-86	5.7	48
112	Genetically engineered proteins with two active sites for enhanced biocatalysis and synergistic chemo- and biocatalysis. <i>Nature Catalysis</i> , 2020 , 3, 319-328	36.5	48
111	Levan versus fructooligosaccharide synthesis using the levansucrase from <i>Zymomonas mobilis</i> : Effect of reaction conditions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 119, 18-25		47
110	Beet sugar syrup and molasses as low-cost feedstock for the enzymatic production of fructo-oligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 2964-8	5.7	46
109	Dried alginate-entrapped enzymes (DALGEEs) and their application to the production of fructooligosaccharides. <i>Process Biochemistry</i> , 2013 , 48, 677-682	4.8	45
108	Analysis of fermentation selectivity of purified galacto-oligosaccharides by in vitro human faecal fermentation. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 5743-52	5.7	44
107	Acetylation of vitamin E by <i>Candida antarctica</i> lipase B immobilized on different carriers. <i>Process Biochemistry</i> , 2008 , 43, 145-153	4.8	43
106	Production, isolation and characterization of a sterol esterase from <i>Ophiostoma piceae</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2002 , 1599, 28-35	4	43
105	Widening the pH activity profile of a fungal laccase by directed evolution. <i>ChemBioChem</i> , 2013 , 14, 934-7.8	3.8	42
104	Immobilization of <i>pycnoporus coccineus</i> laccase on Eupergit C: Stabilization and treatment of olive oil mill wastewaters. <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 130-134	2.5	41
103	Parameters affecting productivity in the lipase-catalysed synthesis of sucrose palmitate. <i>Biocatalysis and Biotransformation</i> , 2005 , 23, 19-27	2.5	38
102	Enzymatic production of fully deacetylated chitooligosaccharides and their neuroprotective and anti-inflammatory properties. <i>Biocatalysis and Biotransformation</i> , 2018 , 36, 57-67	2.5	36
101	An efficient continuous flow process for the synthesis of a non-conventional mixture of fructooligosaccharides. <i>Food Chemistry</i> , 2016 , 190, 607-613	8.5	36
100	A novel alpha-glucosidase from the acidophilic archaeon <i>Ferroplasma acidiphilum</i> strain Y with high transglycosylation activity and an unusual catalytic nucleophile. <i>Biochemical Journal</i> , 2005 , 391, 269-76	3.8	36
99	Biochemical and structural features of a novel cyclodextrinase from cow rumen metagenome. <i>Biotechnology Journal</i> , 2007 , 2, 207-13	5.6	35
98	Effect of the Immobilization Method of Lipase from <i>Thermomyces lanuginosus</i> on Sucrose Acylation. <i>Biocatalysis and Biotransformation</i> , 2002 , 20, 63-71	2.5	35
97	Combinatorial saturation mutagenesis by in vivo overlap extension for the engineering of fungal laccases. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2006 , 9, 719-27	1.3	33

96	Synthesis and Properties of Ascorbyl Esters Catalyzed by Lipozyme TL IM using Triglycerides as Acyl Donors. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2011 , 88, 57-64	1.8	32
95	Solubility of Glucose in Mixtures Containing 2-Methyl-2-butanol, Dimethyl Sulfoxide, Acids, Esters, and Water. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 807-810	2.8	32
94	Structural and kinetic insights reveal that the amino acid pair Gln-228/Asn-254 modulates the transfructosylating specificity of Schwanniomyces occidentalis β -fructofuranosidase, an enzyme that produces prebiotics. <i>Journal of Biological Chemistry</i> , 2012 , 287, 19674-86	5.4	31
93	Characterization of the electrostatic perturbation of a catalytic site (Cys)-S-/(His)-Im+H ion-pair in one type of serine proteinase architecture by kinetic and computational studies on chemically mutated subtilisin variants. <i>Journal of Molecular Biology</i> , 1996 , 257, 1088-111	6.5	31
92	Continuous Packed Bed Reactor with Immobilized β -Galactosidase for Production of Galactooligosaccharides (GOS). <i>Catalysts</i> , 2016 , 6, 189	4	31
91	Encapsulation in LentiKats of Dextranucrase from <i>Leuconostoc mesenteroides</i> NRRL B-1299, and its Effect on Product Selectivity. <i>Biocatalysis and Biotransformation</i> , 2003 , 21, 325-331	2.5	30
90	Continuous production of chitooligosaccharides by an immobilized enzyme in a dual-reactor system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 133, 211-217		30
89	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	4.8	29
88	Biochemical characterization of a beta-fructofuranosidase from <i>Rhodotorula dairenensis</i> with transfructosylating activity. <i>FEMS Yeast Research</i> , 2009 , 9, 768-73	3.1	29
87	Combinatorial saturation mutagenesis of the <i>Myceliophthora thermophila</i> laccase T2 mutant: the connection between the C-terminal plug and the conserved (509)VSG(511) tripeptide. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2008 , 11, 807-16	1.3	29
86	Antitumour activity of fatty acid maltotriose esters obtained by enzymatic synthesis. <i>Biotechnology and Applied Biochemistry</i> , 2005 , 42, 35-9	2.8	29
85	Conversion of a carboxylesterase into a triacylglycerol lipase by a random mutation. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7553-7	16.4	29
84	Chemical modification of lysine side chains of cyclodextrin glycosyltransferase from <i>Thermoanaerobacter</i> causes a shift from cyclodextrin glycosyltransferase to alpha-amylase specificity. <i>FEBS Letters</i> , 1999 , 445, 333-7	3.8	29
83	Improved synthesis of sucrose fatty acid monoesters. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2001 , 78, 541-546	1.8	28
82	Immobilization of native and dextran-free dextranucrases from <i>Leuconostoc mesenteroides</i> NRRL B-512F for the synthesis of glucooligosaccharides. <i>Biotechnology Letters</i> , 1999 , 13, 749-755		28
81	Synthesis of Malto-Oligosaccharides Via the Acceptor Reaction Catalyzed by Cyclodextrin Glycosyltransferases. <i>Biocatalysis and Biotransformation</i> , 2001 , 19, 21-35	2.5	26
80	Heterologous overproduction of β -fructofuranosidase from yeast <i>Xanthophyllomyces dendrorhous</i> , an enzyme producing prebiotic sugars. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 3459-67	5.7	25
79	Recombinant sterol esterase from <i>Ophiostoma piceae</i> : an improved biocatalyst expressed in <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2012 , 11, 73	6.4	25

78	Application of Glycosidases and Transglycosidases in the Synthesis of Oligosaccharides 2007 , 141-157		25
77	Purification and properties of a lipase from <i>Penicillium chrysogenum</i> isolated from industrial wastes. <i>Journal of Chemical Technology and Biotechnology</i> , 2000 , 75, 569-576	3.5	25
76	Vinyl sulfone-activated silica for efficient covalent immobilization of alkaline unstable enzymes: application to levansucrase for fructooligosaccharide synthesis. <i>RSC Advances</i> , 2016 , 6, 64175-64181	3.7	24
75	Benchmarking of laboratory evolved unspecific peroxygenases for the synthesis of human drug metabolites. <i>Tetrahedron</i> , 2019 , 75, 1827-1831	2.4	23
74	Removal of lactose in crude galacto-oligosaccharides by β -galactosidase from <i>Kluyveromyces lactis</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016 , 133, 85-91		23
73	Production of bioethanol from carrot discards. <i>Bioresource Technology</i> , 2012 , 123, 727-32	11	23
72	Characterization and application of a sterol esterase immobilized on polyacrylate epoxy-activated carriers (Dilbeads [®]). <i>Catalysis Communications</i> , 2008 , 9, 539-545	3.2	23
71	Synthesis of maltooligosyl fructofuranosides catalyzed by immobilized cyclodextrin glucosyltransferase using starch as donor. <i>Tetrahedron</i> , 2004 , 60, 529-534	2.4	23
70	Using Evaporation-Induced Self-Assembly for the Direct Drug Templating of Therapeutic Vectors with High Loading Fractions, Tunable Drug Release, and Controlled Degradation. <i>Chemistry of Materials</i> , 2013 , 25, 4671-4678	9.6	22
69	Synthesis of methyl alpha-D-glucooligosaccharides by entrapped dextransucrase from <i>Leuconostoc mesenteroides</i> B-1299. <i>Journal of Biotechnology</i> , 2006 , 124, 439-45	3.7	22
68	Enzymatic Modification for Ascorbic Acid and Alpha-Tocopherol to Enhance their Stability in Food and Nutritional Application. <i>The Open Food Science Journal</i> , 2008 , 2, 1-9	0.6	21
67	Bioremediation of polycyclic aromatic hydrocarbons by fungal laccases engineered by directed evolution. <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 219-228	2.5	20
66	Diolefin and carbonyl rhodium(I) and iridium(I) complexes with phosphine sulphide ligands. Crystal structure of $[\text{Rh}(\text{COD})(\text{Et}_2\text{P}(\text{S})(\text{S})\text{PEt}_2)]\text{ClO}_4$. <i>Journal of Organometallic Chemistry</i> , 1989 , 373, 269-278	2.3	20
65	Tailored Enzymatic Synthesis of Chitooligosaccharides with Different Deacetylation Degrees and Their Anti-Inflammatory Activity. <i>Catalysts</i> , 2019 , 9, 405	4	18
64	Synthesis and emulsifying properties of carbohydrate fatty acid esters produced from Agave tequilana fructans by enzymatic acylation. <i>Food Chemistry</i> , 2016 , 204, 437-443	8.5	18
63	Enzymatic Synthesis of a Novel Neuroprotective Hydroxytyrosyl Glycoside. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 10526-10533	5.7	18
62	Ants impact the energy reserves of natural enemies through the shared honeydew exploitation. <i>Ecological Entomology</i> , 2015 , 40, 687-695	2.1	18
61	Molecular characterization and heterologous expression of a <i>Xanthophyllomyces dendrorhous</i> β -glucosidase with potential for prebiotics production. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 3125-35	5.7	17

60	Succinylation of cyclodextrin glycosyltransferase from <i>Thermoanaerobacter</i> sp. 501 enhances its transferase activity using starch as donor. <i>Journal of Biotechnology</i> , 2001 , 86, 71-80	3.7	16
59	Efficient conversion of chitosan into chitoooligosaccharides by a chitosanalytic activity from <i>Bacillus thuringiensis</i> . <i>Process Biochemistry</i> , 2018 , 73, 102-108	4.8	15
58	Enzymatic Synthesis of a Novel Pterostilbene β -Glucoside by the Combination of Cyclodextrin Glucanotransferase and Amyloglucosidase. <i>Molecules</i> , 2018 , 23,	4.8	15
57	Selective Synthesis of Galactooligosaccharides Containing β (1- α) Linkages with β -Galactosidase from (<i>Saphera</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 4930-4938	5.7	15
56	Effect of β -Glucosylation on the Stability, Antioxidant Properties, Toxicity, and Neuroprotective Activity of (-)-Epigallocatechin Gallate. <i>Frontiers in Nutrition</i> , 2019 , 6, 30	6.2	14
55	Directed -in vitro- evolution of Precambrian and extant Rubiscos. <i>Scientific Reports</i> , 2018 , 8, 5532	4.9	14
54	Synthesis of 6-Kestose using an Efficient β -Fructofuranosidase Engineered by Directed Evolution. <i>Advanced Synthesis and Catalysis</i> , 2013 , 355, 1698-1702	5.6	14
53	Effect of chemical modification of isoenzymes A and B from <i>C. rugosa</i> on their activity and stability. <i>Biotechnology Letters</i> , 1995 , 17, 171-176	3	14
52	Enzymatic synthesis of partially acylated sucroses. <i>Annals of the New York Academy of Sciences</i> , 1995 , 750, 332-7	6.5	14
51	Efficient β -Glucosylation of Epigallocatechin Gallate Catalyzed by Cyclodextrin Glucanotransferase from <i>Thermoanaerobacter</i> Species. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 7402-7408	5.7	14
50	Exploring the transferase activity of β -fructofuranosidase from <i>Schwanniomyces occidentalis</i> , a β -fructofuranosidase showing high fructosyl-acceptor promiscuity. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8769-78	5.7	13
49	Trichoderma Enzymes for Food Industries 2014 , 339-344		13
48	Synthesis, reactivity, and X-ray crystal structure of $[\text{Rh}\{\text{C}_6\text{H}_4\text{N}(\text{O})\text{O}-2\}(\text{EC}_5\text{Me}_5)\text{Cl}]$. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990 , 1459-1462		13
47	Sweet-and-salty biocatalysis: Fructooligosaccharides production using <i>Cladosporium cladosporioides</i> in seawater. <i>Process Biochemistry</i> , 2015 , 50, 1086-1090	4.8	12
46	A Three-Step Process for the Bioconversion of Whey Permeate into a Glucose-Free D-Tagatose Syrup. <i>Catalysts</i> , 2020 , 10, 647	4	12
45	Screening β -fructofuranosidases mutant libraries to enhance the transglycosylation rates of β (2- α) fructooligosaccharides. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2011 , 14, 730-8	1.3	12
44	Kinetic and Enantioselective Behaviour of Isoenzymes A and B from <i>Candida Rugosa</i> Lipase in the Hydrolysis of Lipids and Esters. <i>Biocatalysis and Biotransformation</i> , 1997 , 15, 75-89	2.5	12
43	Effect of Surfactants on Activity and Stability of Native and Chemically Modified Lipases A and B from <i>Candida Rugosa</i> . <i>Biocatalysis and Biotransformation</i> , 1996 , 13, 271-285	2.5	12

42	Immobilization of the glucose isomerase from <i>Caldicoprobacter algeriensis</i> on Sepabeads EC-HA and its efficient application in continuous High Fructose Syrup production using packed bed reactor. <i>Food Chemistry</i> , 2020 , 309, 125710	8.5	12
41	Optimization of Regioselective α -Glucosylation of Hesperetin Catalyzed by Cyclodextrin Glucanotransferase. <i>Molecules</i> , 2018 , 23,	4.8	12
40	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	3.7	12
39	Structure-Guided Immobilization of an Evolved Unspecific Peroxygenase. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	11
38	Micro-scale procedure for enzyme immobilization screening and operational stability assays. <i>Biotechnology Letters</i> , 2015 , 37, 1593-600	3	11
37	Galactooligosaccharide Production from <i>Pantoea anthophila</i> Strains Isolated from "Mejuino" a Mexican Traditional Fermented Beverage. <i>Catalysts</i> , 2017 , 7, 242	4	11
36	Immobilization of the α -Fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> by Entrapment in Polyvinyl Alcohol and Its Application to Neo-Fructooligosaccharides Production. <i>Catalysts</i> , 2018 , 8, 201	4	11
35	Fructosylation of Hydroxytyrosol by the α -Fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> : Insights into the Molecular Basis of the Enzyme Specificity. <i>ChemCatChem</i> , 2018 , 10, 4878-4887	5.2	11
34	Effect of chemical modification of cyclodextrin glycosyltransferase (CGTase) from <i>Thermoanaerobacter</i> sp. on its activity and product selectivity. <i>Annals of the New York Academy of Sciences</i> , 1998 , 864, 183-7	6.5	10
33	Solubility Measurements of Fatty Acid Glucose and Sucrose Esters in 2-Methyl-2-butanol and Mixtures of 2-Methyl-2-butanol with Dimethyl Sulfoxide. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 1517-1520	2.8	10
32	Synthesis and x-ray structure of the heterotrimeric complex [Pd{(ECl)(η -EP(O)(OMe) ₂ Rh(cod)) ₂]. An unusual bridging coordination mode involving phosphonate ligands. <i>Inorganica Chimica Acta</i> , 1988 , 150, 157-159	2.7	10
31	Enzymatic Synthesis and Characterization of Different Families of Chitooligosaccharides and Their Bioactive Properties. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3212	2.6	10
30	Efficient production of isomelezitose by a glucosyltransferase activity in <i>Metschnikowia reukaufii</i> cell extracts. <i>Microbial Biotechnology</i> , 2019 , 12, 1274-1285	6.3	8
29	Environmental biocatalysis: From remediation with enzymes to novel green processes. <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 113-113	2.5	8
28	Chemical modification of carboxylic residues in a cyclodextrin glucanotransferase and its implication in the hydrolysis/transglycosylation ratio of the α -amylase family. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003 , 26, 57-67		8
27	Production and Surfactant Properties of Tert-Butyl β -D-Glucopyranosides Catalyzed by Cyclodextrin Glucanotransferase. <i>Catalysts</i> , 2019 , 9, 575	4	7
26	Acylation of subtilisin with long fatty acyl residues affects its activity and thermostability in aqueous medium. <i>FEBS Letters</i> , 1994 , 339, 200-4	3.8	7
25	Lipase-catalyzed modification of phenolic antioxidants. <i>Methods in Molecular Biology</i> , 2012 , 861, 435-43	1.4	6

24	Synthesis of (1- β) and (1- α) galactooligosaccharides from lactose and whey using a recombinant β galactosidase from <i>Pantoea anthophila</i> . <i>Electronic Journal of Biotechnology</i> , 2021 , 49, 14-21	3.1	6
23	Covalent immobilization of cyclodextrin glucosyltransferase (CGTase) in activated silica and Sepharose. <i>Indian Journal of Biochemistry and Biophysics</i> , 2002 , 39, 229-34		6
22	Lipase-catalyzed preparation of mono- and diesters of ferulic acid. <i>Biocatalysis and Biotransformation</i> , 2015 , 33, 89-97	2.5	5
21	Application of Immobilized Enzymes for the Synthesis of Bioactive Fructooligosaccharides 2014 , 200-216		5
20	Computational studies of subtilisin-catalyzed transesterification of sucrose: importance of entropic effects. <i>ChemBioChem</i> , 2002 , 3, 907-10	3.8	5
19	-chitinase Chit33 specificity on different chitinolytic materials allows the production of unexplored chitooligosaccharides with antioxidant activity. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2020 , 27, e00500	5.3	5
18	Impact of Zinc, Glutathione, and Polyphenols as Antioxidants in the Immune Response against SARS-CoV-2. <i>Processes</i> , 2021 , 9, 506	2.9	5
17	Effect of High Hydrostatic Pressure, alkaline and combined treatments on corn starch granules metal binding: Structure, swelling behavior and thermal properties assessment. <i>Food and Bioproducts Processing</i> , 2017 , 102, 241-249	4.9	4
16	On the Enzyme Specificity for the Synthesis of Prebiotic Galactooligosaccharides 2013 , 23-39		4
15	The Nitration of Proteins, Lipids and DNA by Peroxynitrite Derivatives-Chemistry Involved and Biological Relevance. <i>Stresses</i> , 2022 , 2, 53-64		3
14	New insights into the molecular mechanism behind mannitol and erythritol fructosylation by β fructofuranosidase from <i>Schwanniomyces occidentalis</i> . <i>Scientific Reports</i> , 2021 , 11, 7158	4.9	3
13	Enzymatic Synthesis of Oleins in Organic Media. <i>Annals of the New York Academy of Sciences</i> , 1995 , 750, 242-245	6.5	2
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