

# Antonio Olmo Ballesteros

## List of Publications by Year in descending order

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87  
papers

4,639  
citations

101496

36  
h-index

106281

65  
g-index

89  
all docs

89  
docs citations

89  
times ranked

4440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reuse of Immobilized <i>Komagataella phaffii</i> Cells for the Elimination of $\alpha$ -Glucose in Syrups of Bioactive Carbohydrates. <i>ACS Food Science &amp; Technology</i> , 2022, 2, 682-690.	1.3	4
2	Synthesis of $\beta$ (1 $\rightarrow$ 3) and $\beta$ (1 $\rightarrow$ 6) galactooligosaccharides from lactose and whey using a recombinant $\beta$ -galactosidase from <i>Pantoea anthophila</i> . <i>Electronic Journal of Biotechnology</i> , 2021, 49, 14-21.	1.2	20
3	Enzymatic Synthesis and Characterization of Different Families of Chitooligosaccharides and Their Bioactive Properties. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3212.	1.3	27
4	Enzymatic Synthesis of Phloretin $\beta$ -Glucosides Using a Sucrose Phosphorylase Mutant and its Effect on Solubility, Antioxidant Properties and Skin Absorption. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3079-3089.	2.1	10
5	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.	4.2	25
6	Selective Synthesis of Galactooligosaccharides Containing $\beta$ (1 $\rightarrow$ 3) Linkages with $\beta$ -Galactosidase from <i>Bifidobacterium bifidum</i> (Saphera). <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4930-4938.	2.4	27
7	Production and Surfactant Properties of Tert-Butyl $\beta$ -D-Glucopyranosides Catalyzed by Cyclodextrin Glucanotransferase. <i>Catalysts</i> , 2019, 9, 575.	1.6	10
8	Tailored Enzymatic Synthesis of Chitooligosaccharides with Different Deacetylation Degrees and Their Anti-Inflammatory Activity. <i>Catalysts</i> , 2019, 9, 405.	1.6	29
9	Effect of $\beta$ -Glucosylation on the Stability, Antioxidant Properties, Toxicity, and Neuroprotective Activity of ( $\beta$ )-Epigallocatechin Gallate. <i>Frontiers in Nutrition</i> , 2019, 6, 30.	1.6	29
10	Deciphering the molecular specificity of phenolic compounds as inhibitors or glycosyl acceptors of $\beta$ -fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Scientific Reports</i> , 2019, 9, 17441.	1.6	5
11	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
12	Optimization of Regioselective $\beta$ -Glucosylation of Hesperetin Catalyzed by Cyclodextrin Glucanotransferase. <i>Molecules</i> , 2018, 23, 2885.	1.7	19
13	Fructosylation of Hydroxytyrosol by the $\beta$ -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
14	Efficient $\beta$ -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.	2.4	20
15	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
16	Enzymatic Synthesis of a Novel Pterostilbene $\beta$ -Glucoside by the Combination of Cyclodextrin Glucanotransferase and Amyloglucosidase. <i>Molecules</i> , 2018, 23, 1271.	1.7	19
17	Immobilization of the $\beta$ -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
18	Editorial "farewell to Prof. David Leak. <i>Biocatalysis and Biotransformation</i> , 2018, 36, 279-279.	1.1	0

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19	Lipase-Catalyzed Synthesis of Fatty Acid Esters of Trisaccharides. <i>Methods in Molecular Biology</i> , 2018, 1835, 287-296.	0.4	2
20	Galactooligosaccharide Production from <i>Pantoea anthophila</i> Strains Isolated from Tejuino, a Mexican Traditional Fermented Beverage. <i>Catalysts</i> , 2017, 7, 242.	1.6	15
21	Continuous Packed Bed Reactor with Immobilized $\beta$ -Galactosidase for Production of Galactooligosaccharides (GOS). <i>Catalysts</i> , 2016, 6, 189.	1.6	39
22	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.	1.7	28
23	Evolved alkaline fungal laccase secreted by <i>Saccharomyces cerevisiae</i> as useful tool for the synthesis of $\beta$ -N heteropolymeric dye. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 134, 323-330.	1.8	24
24	Low-Lactose, Prebiotic-Enriched Milk. , 2016, , 47-57.		1
25	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.	1.8	66
26	Lipase-catalyzed preparation of mono- and diesters of ferulic acid. <i>Biocatalysis and Biotransformation</i> , 2015, 33, 89-97.	1.1	11
27	Micro-scale procedure for enzyme immobilization screening and operational stability assays. <i>Biotechnology Letters</i> , 2015, 37, 1593-1600.	1.1	14
28	Galactooligosaccharides formation during enzymatic hydrolysis of lactose: Towards a prebiotic-enriched milk. <i>Food Chemistry</i> , 2014, 145, 388-394.	4.2	104
29	Analysis of fermentation selectivity of purified galacto-oligosaccharides by in vitro human faecal fermentation. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 5743-5752.	1.7	51
30	Dried alginate-entrapped enzymes (DALGEEs) and their application to the production of fructooligosaccharides. <i>Process Biochemistry</i> , 2013, 48, 677-682.	1.8	53
31	Widening the pH Activity Profile of a Fungal Laccase by Directed Evolution. <i>ChemBioChem</i> , 2013, 14, 934-937.	1.3	52
32	Switching from blue to yellow: altering the spectral properties of a high redox potential laccase by directed evolution. <i>Biocatalysis and Biotransformation</i> , 2013, 31, 8-21.	1.1	25
33	Detailed Analysis of Galactooligosaccharides Synthesis with $\beta$ -Galactosidase from <i>Aspergillus oryzae</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 1081-1087.	2.4	108
34	On the Enzyme Specificity for the Synthesis of Prebiotic Galactooligosaccharides. , 2013, , 23-39.		5
35	Galacto-oligosaccharide Synthesis from Lactose Solution or Skim Milk Using the $\beta$ -Galactosidase from <i>Bacillus circulans</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 6391-6398.	2.4	96
36	Immobilized Biocatalysts: Novel Approaches and Tools for Binding Enzymes to Supports. <i>Advanced Materials</i> , 2011, 23, 5275-5282.	11.1	152

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37	Synthesis and Properties of Ascorbyl Esters Catalyzed by Lipozyme TL IM using Triglycerides as Acyl Donors. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2011, 88, 57-64.	0.8	36
38	Enzymatic Synthesis of $\beta$ -D-Glucosides of Resveratrol with Surfactant Activity. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 1077-1086.	2.1	64
39	Laboratory Evolution of High-Redox Potential Laccases. <i>Chemistry and Biology</i> , 2010, 17, 1030-1041.	6.2	147
40	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, 807-813.	2.4	68
41	Altering the laccase functionality by <i>in vivo</i> assembly of mutant libraries with different mutational spectra. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 250-260.	1.5	56
42	Characterization and application of a sterol esterase immobilized on polyacrylate epoxy-activated carriers (Dilbeads <sup>®</sup> , <i>c</i> ). <i>Catalysis Communications</i> , 2008, 9, 539-545.	1.6	26
43	Combinatorial Saturation Mutagenesis of the <i>Myceliophthora thermophila</i> Laccase T2 Mutant: the Connection between the C-Terminal Plug and the Conserved VSG Tripeptide. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2008, 11, 807-816.	0.6	32
44	Laccases and Their Applications: A Patent Review. <i>Recent Patents on Biotechnology</i> , 2008, 2, 10-24.	0.4	251
45	Immobilization of <i>Trichoderma reesei</i> laccase on Eupergit C: Stabilization and treatment of olive oil mill wastewaters. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 130-134.	1.1	48
46	Purification and kinetic characterization of a fructosyltransferase from <i>Aspergillus aculeatus</i> . <i>Journal of Biotechnology</i> , 2007, 128, 204-211.	1.9	140
47	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.	1.9	106
48	Bioremediation of polycyclic aromatic hydrocarbons by fungal laccases engineered by directed evolution. <i>Biocatalysis and Biotransformation</i> , 2007, 25, 219-228.	1.1	23
49	In Vitro Evolution of a Fungal Laccase in High Concentrations of Organic Cosolvents. <i>Chemistry and Biology</i> , 2007, 14, 1052-1064.	6.2	104
50	Synthesis of methyl $\beta$ -D-glucooligosaccharides by entrapped dextransucrase from <i>Leuconostoc mesenteroides</i> B-1299. <i>Journal of Biotechnology</i> , 2006, 124, 439-445.	1.9	23
51	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, 2964-2968.	2.4	56
52	Novel Polyphenol Oxidase Mined from a Metagenome Expression Library of Bovine Rumen. <i>Journal of Biological Chemistry</i> , 2006, 281, 22933-22942.	1.6	168
53	Environmental biocatalysis: from remediation with enzymes to novel green processes. <i>Trends in Biotechnology</i> , 2006, 24, 281-287.	4.9	352
54	Combinatorial Saturation Mutagenesis by In Vivo Overlap Extension for the Engineering of Fungal Laccases. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2006, 9, 719-727.	0.6	37

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55	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.	1.6	219
56	Antitumour activity of fatty acid maltotriose esters obtained by enzymatic synthesis. <i>Biotechnology and Applied Biochemistry</i> , 2005, 42, 35.	1.4	32
57	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.	1.8	97
58	Conversion of a Carboxylesterase into a Triacylglycerol Lipase by a Random Mutation. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7553-7557.	7.2	32
59	Screening Mutant Libraries of Fungal Laccases in the Presence of Organic Solvents. <i>Journal of Biomolecular Screening</i> , 2005, 10, 624-631.	2.6	62
60	Parameters affecting productivity in the lipase-catalysed synthesis of sucrose palmitate. <i>Biocatalysis and Biotransformation</i> , 2005, 23, 19-27.	1.1	42
61	Immobilization of Dextranucrase from <i>Leuconostoc mesenteroides</i> NRRL B-512F on Eupergit C Supports. <i>Biotechnology Progress</i> , 2004, 20, 1414-1420.	1.3	56
62	Synthesis of maltooligosyl fructofuranosides catalyzed by immobilized cyclodextrin glucosyltransferase using starch as donor. <i>Tetrahedron</i> , 2004, 60, 529-534.	1.0	24
63	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.	1.8	99
64	Chemical modification of carboxylic residues in a cyclodextrin glucanotransferase and its implication in the hydrolysis/transglycosylation ratio of the $\alpha$ -amylase family. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2003, 26, 57-67.	1.8	9
65	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.	1.1	32
66	Effect of the Immobilization Method of Lipase from <i>Thermomyces lanuginosus</i> on Sucrose Acylation. <i>Biocatalysis and Biotransformation</i> , 2002, 20, 63-71.	1.1	41
67	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 &amp; Engineering Data</i> , 2002, 47, 1517-1520.	1.0	10
68	Comparative Surface Activities of Di- and Trisaccharide Fatty Acid Esters. <i>Langmuir</i> , 2002, 18, 667-673.	1.6	109
69	Glucosyltransferases acting on starch or sucrose for the synthesis of oligosaccharides. <i>Canadian Journal of Chemistry</i> , 2002, 80, 743-752.	0.6	59
70	Computational Studies of Subtilisin-Catalyzed Transesterification of Sucrose: Importance of Entropic Effects.. <i>ChemBioChem</i> , 2002, 3, 907-910.	1.3	6
71	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.	1.9	183
72	Succinylation of cyclodextrin glucosyltransferase from <i>Thermoanaerobacter</i> sp. 501 enhances its transferase activity using starch as donor. <i>Journal of Biotechnology</i> , 2001, 86, 71-80.	1.9	20

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73	Improved synthesis of sucrose fatty acid monoesters. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2001, 78, 541-546.	0.8	33
74	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.	1.0	73
75	Title is missing!. <i>Biotechnology Letters</i> , 1999, 13, 749-755.	0.5	30
76	Lipase-catalyzed regioselective acylation of sucrose in two-solvent mixtures. , 1999, 65, 10-16.		139
77	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, 333-337.	1.3	33
78	Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. <i>Biotechnology Letters</i> , 1998, 12, 183-186.	0.5	85
79	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, 183-187.	1.8	10
80	Stability in the presence of organic solvents of dextransucrase from <i>Leuconostoc mesenteroides</i> NRRL B-512F immobilized in calcium-alginate beads. <i>Progress in Biotechnology</i> , 1998, 15, 535-540.	0.2	2
81	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.	1.1	14
82	High-yield production of mono- and di-oleylglycerol by lipase-catalyzed hydrolysis of triolein. <i>Enzyme and Microbial Technology</i> , 1996, 18, 66-71.	1.6	77
83	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.	1.1	13
84	Enzymatic Synthesis of Oleins in Organic Media. <i>Annals of the New York Academy of Sciences</i> , 1995, 750, 242-245.	1.8	2
85	Enzymatic Synthesis of Partially Acylated Sucroses. <i>Annals of the New York Academy of Sciences</i> , 1995, 750, 332-337.	1.8	16
86	Acylation of subtilisin with long fatty acyl residues affects its activity and thermostability in aqueous medium. <i>FEBS Letters</i> , 1994, 339, 200-204.	1.3	8
87	Kinetic properties of ATP phosphoribosyltransferase of <i>Escherichia coli</i> . <i>Molecular and Cellular Biochemistry</i> , 1976, 11, 131-136.	1.4	16