

# Francisco J Plou

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

149  
papers

5,961  
citations

43  
h-index

71  
g-index

156  
ext. papers

6,722  
ext. citations

4.9  
avg, IF

5.64  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 149 | The Nitration of Proteins, Lipids and DNA by Peroxynitrite Derivatives-Chemistry Involved and Biological Relevance. <i>Stresses</i> , <b>2022</b> , 2, 53-64   |      | 3         |
| 148 | Nitration of Flavonoids and Tocopherols as Potential Modulators of Nitrosative Stress: A Study Based on Their Conformational Structures and Energy Content. <i>Stresses</i> , <b>2022</b> , 2, 213-230   |      | 0         |
| 147 | Lytic Polysaccharide Monooxygenase from with an Enigmatic Linker-like Region: The Role of This Enzyme on Cellulose Saccharification.. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,   | 6.3  | 1         |
| 146 | The bone-degrading enzyme machinery: From multi-component understanding to the treatment of residues from the meat industry.. <i>Computational and Structural Biotechnology Journal</i> , <b>2021</b> , 19, 6328-6342  | 6.8  | 1         |
| 145 | Impact of Zinc, Glutathione, and Polyphenols as Antioxidants in the Immune Response against SARS-CoV-2. <i>Processes</i> , <b>2021</b> , 9, 506  | 2.9  | 5         |
| 144 | Enzymatic Synthesis and Characterization of Different Families of Chitoooligosaccharides and Their Bioactive Properties. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3212  | 2.6  | 10        |
| 143 | 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> , <b>2021</b> , 22,                           | 6.3  | 102       |
| 142 | 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> , <b>2021</b> , 363, 3079-3089                       | 5.6  | 0         |
| 141 | Theoretical Three-Dimensional Zinc Complexes with Glutathione, Amino Acids and Flavonoids. <i>Stresses</i> , <b>2021</b> , 1, 123-141  |      | 1         |
| 140 | Synthesis of $(1 \rightarrow 6)$ and $(1 \rightarrow 4)$ galactooligosaccharides from lactose and whey using a recombinant $\beta$ -galactosidase from <i>Pantoea anthophila</i> . <i>Electronic Journal of Biotechnology</i> , <b>2021</b> , 49, 14-21          | 3.1  | 6         |
| 139 | New insights into the molecular mechanism behind mannitol and erythritol fructosylation by $\beta$ -fructofuranosidase from <i>Schwanniomyces occidentalis</i> . <i>Scientific Reports</i> , <b>2021</b> , 11, 7158  | 4.9  | 3         |
| 138 | Production and characterization of chitoooligosaccharides by the fungal chitinase Chit42 immobilized on magnetic nanoparticles and chitosan beads: selectivity, specificity and improved operational utility.. <i>RSC Advances</i> , <b>2021</b> , 11, 5529-5536 | 3.7  | 12        |
| 137 | A Three-Step Process for the Bioconversion of Whey Permeate into a Glucose-Free D-Tagatose Syrup. <i>Catalysts</i> , <b>2020</b> , 10, 647   | 4    | 12        |
| 136 | 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> , <b>2020</b> , 309, 125710       | 8.5  | 12        |
| 135 | Genetically engineered proteins with two active sites for enhanced biocatalysis and synergistic chemo- and biocatalysis. <i>Nature Catalysis</i> , <b>2020</b> , 3, 319-328  | 36.5 | 48        |
| 134 | $\beta$ -chitinase Chit33 specificity on different chitinolytic materials allows the production of unexplored chitoooligosaccharides with antioxidant activity. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2020</b> , 27, e00500                 | 5.3  | 5         |
| 133 | Molecular characterization and heterologous expression of two $\beta$ -glucosidases from <i>Metschnikowia</i> spp, both producers of honey sugars. <i>Microbial Cell Factories</i> , <b>2020</b> , 19, 140   | 6.4  | 2         |

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| 132 | Selective Synthesis of Galactooligosaccharides Containing (1-3) Linkages with $\beta$ -Galactosidase from ( <i>Sapheira</i> ). <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 4930-4938                       | 5.7 | 15 |
| 131 | Efficient production of isomelezitose by a glucosyltransferase activity in <i>Metschnikowia reukaufii</i> cell extracts. <i>Microbial Biotechnology</i> , <b>2019</b> , 12, 1274-1285  | 6.3 | 8  |
| 130 | Tailored Enzymatic Synthesis of Chitooligosaccharides with Different Deacetylation Degrees and Their Anti-Inflammatory Activity. <i>Catalysts</i> , <b>2019</b> , 9, 405   | 4   | 18 |
| 129 | Effect of $\beta$ -Glucosylation on the Stability, Antioxidant Properties, Toxicity, and Neuroprotective Activity of (-)-Epigallocatechin Gallate. <i>Frontiers in Nutrition</i> , <b>2019</b> , 6, 30                               | 6.2 | 14 |
| 128 | Structure-Guided Immobilization of an Evolved Unspecific Peroxygenase. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,  | 6.3 | 11 |
| 127 | Benchmarking of laboratory evolved unspecific peroxygenases for the synthesis of human drug metabolites. <i>Tetrahedron</i> , <b>2019</b> , 75, 1827-1831  | 2.4 | 23 |
| 126 | Production and Surfactant Properties of Tert-Butyl $\beta$ -Glucopyranosides Catalyzed by Cyclodextrin Glucanotransferase. <i>Catalysts</i> , <b>2019</b> , 9, 575   | 4   | 7  |
| 125 | Deciphering the molecular specificity of phenolic compounds as inhibitors or glycosyl acceptors of $\beta$ -fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Scientific Reports</i> , <b>2019</b> , 9, 17441        | 4.9 | 2  |
| 124 | Directed -in vitro- evolution of Precambrian and extant Rubiscos. <i>Scientific Reports</i> , <b>2018</b> , 8, 5532  | 4.9 | 14 |
| 123 | Biocatalysis in Spain: A field of success and innovation. <i>Biocatalysis and Biotransformation</i> , <b>2018</b> , 36, 180-183  | 4.8 | 3  |
| 122 | Enzymatic production of fully deacetylated chitooligosaccharides and their neuroprotective and anti-inflammatory properties. <i>Biocatalysis and Biotransformation</i> , <b>2018</b> , 36, 57-67                                     | 2.5 | 36 |
| 121 | Efficient conversion of chitosan into chitooligosaccharides by a chitosanolytic activity from <i>Bacillus thuringiensis</i> . <i>Process Biochemistry</i> , <b>2018</b> , 73, 102-108  | 4.8 | 15 |
| 120 | Enzymatic Synthesis of a Novel Pterostilbene $\beta$ -Glucoside by the Combination of Cyclodextrin Glucanotransferase and Amyloglucosidase. <i>Molecules</i> , <b>2018</b> , 23,   | 4.8 | 15 |
| 119 | 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> , <b>2018</b> , 8, 201 | 4   | 11 |
| 118 | Lipase-Catalyzed Synthesis of Fatty Acid Esters of Trisaccharides. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1835, 287-296   | 1.4 | 1  |
| 117 | Optimization of Regioselective $\beta$ -Glucosylation of Hesperetin Catalyzed by Cyclodextrin Glucanotransferase. <i>Molecules</i> , <b>2018</b> , 23,   | 4.8 | 12 |
| 116 | Fructosylation of Hydroxytyrosol by the $\beta$ -Fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> : Insights into the Molecular Basis of the Enzyme Specificity. <i>ChemCatChem</i> , <b>2018</b> , 10, 4878-4887        | 5.3 | 11 |
| 115 | Efficient $\beta$ -Glucosylation of Epigallocatechin Gallate Catalyzed by Cyclodextrin Glucanotransferase from <i>Thermoanaerobacter</i> Species. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 7402-7408    | 5.7 | 14 |

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| 114 | 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> , <b>2017</b> , 102, 241-249 | 4.9 | 4  |
| 113 | Prebiotic effect of xylooligosaccharides produced from birchwood xylan by a novel fungal GH11 xylanase. <i>Food Chemistry</i> , <b>2017</b> , 232, 105-113   | 8.5 | 52 |
| 112 | Galactooligosaccharide Production from <i>Pantoea anthophila</i> Strains Isolated from "Mejuino" Mexican Traditional Fermented Beverage. <i>Catalysts</i> , <b>2017</b> , 7, 242   | 4   | 11 |
| 111 | Enzymatic Synthesis of a Novel Neuroprotective Hydroxytyrosyl Glycoside. <i>Journal of Agricultural and Food Chemistry</i> , <b>2017</b> , 65, 10526-10533   | 5.7 | 18 |
| 110 | Removal of lactose in crude galacto-oligosaccharides by $\beta$ galactosidase from <i>Kluyveromyces lactis</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2016</b> , 133, 85-91   |     | 23 |
| 109 | Exploring the transferase activity of Ffase From <i>Schwanniomyces occidentalis</i> , a $\beta$ fructofuranosidase showing high fructosyl-acceptor promiscuity. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 8769-78       | 5.7 | 13 |
| 108 | An efficient continuous flow process for the synthesis of a non-conventional mixture of fructooligosaccharides. <i>Food Chemistry</i> , <b>2016</b> , 190, 607-613   | 8.5 | 36 |
| 107 | Molecular characterization and heterologous expression of a <i>Xanthophyllomyces dendrorhous</i> $\beta$ glucosidase with potential for prebiotics production. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 3125-35        | 5.7 | 17 |
| 106 | Synthesis and emulsifying properties of carbohydrate fatty acid esters produced from Agave tequilana fructans by enzymatic acylation. <i>Food Chemistry</i> , <b>2016</b> , 204, 437-443   | 8.5 | 18 |
| 105 | Low-Lactose, Prebiotic-Enriched Milk <b>2016</b> , 47-57   |     | 1  |
| 104 | Continuous Packed Bed Reactor with Immobilized $\beta$ Galactosidase for Production of Galactooligosaccharides (GOS). <i>Catalysts</i> , <b>2016</b> , 6, 189  | 4   | 31 |
| 103 | Synthesis of 1-Naphthol by a Natural Peroxygenase Engineered by Directed Evolution. <i>ChemBioChem</i> , <b>2016</b> , 17, 341-9   | 3.8 | 64 |
| 102 | Vinyl sulfone-activated silica for efficient covalent immobilization of alkaline unstable enzymes: application to levansucrase for fructooligosaccharide synthesis. <i>RSC Advances</i> , <b>2016</b> , 6, 64175-64181                           | 3.7 | 24 |
| 101 | Continuous production of chitooligosaccharides by an immobilized enzyme in a dual-reactor system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2016</b> , 133, 211-217  |     | 30 |
| 100 | Lipase-catalyzed preparation of mono- and diesters of ferulic acid. <i>Biocatalysis and Biotransformation</i> , <b>2015</b> , 33, 89-97  | 2.5 | 5  |
| 99  | Heterologous overproduction of $\beta$ fructofuranosidase from yeast <i>Xanthophyllomyces dendrorhous</i> , an enzyme producing prebiotic sugars. <i>Applied Microbiology and Biotechnology</i> , <b>2015</b> , 99, 3459-67                      | 5.7 | 25 |
| 98  | Micro-scale procedure for enzyme immobilization screening and operational stability assays. <i>Biotechnology Letters</i> , <b>2015</b> , 37, 1593-600  | 3   | 11 |
| 97  | Sweet-and-salty biocatalysis: Fructooligosaccharides production using <i>Cladosporium cladosporioides</i> in seawater. <i>Process Biochemistry</i> , <b>2015</b> , 50, 1086-1090   | 4.8 | 12 |

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| 96 | Ants impact the energy reserves of natural enemies through the shared honeydew exploitation. <i>Ecological Entomology</i> , <b>2015</b> , 40, 687-695  | 2.1 | 18 |
| 95 | Levan versus fructooligosaccharide synthesis using the levansucrase from <i>Zymomonas mobilis</i> : Effect of reaction conditions. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2015</b> , 119, 18-25   |     | 47 |
| 94 | Trichoderma Enzymes for Food Industries <b>2014</b> , 339-344  |     | 13 |
| 93 | Production of fructooligosaccharides by mycelium-bound transfructosylation activity present in <i>Cladosporium cladosporioides</i> and <i>Penicillium sizovae</i> . <i>Process Biochemistry</i> , <b>2014</b> , 49, 2174-2180  | 4.8 | 29 |
| 92 | Application of Immobilized Enzymes for the Synthesis of Bioactive Fructooligosaccharides <b>2014</b> , 200-216   |     | 5  |
| 91 | Galactooligosaccharides formation during enzymatic hydrolysis of lactose: towards a prebiotic-enriched milk. <i>Food Chemistry</i> , <b>2014</b> , 145, 388-94   | 8.5 | 91 |
| 90 | Analysis of fermentation selectivity of purified galacto-oligosaccharides by in vitro human faecal fermentation. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 5743-52   | 5.7 | 44 |
| 89 | Dried alginate-entrapped enzymes (DALGEEs) and their application to the production of fructooligosaccharides. <i>Process Biochemistry</i> , <b>2013</b> , 48, 677-682  | 4.8 | 45 |
| 88 | Widening the pH activity profile of a fungal laccase by directed evolution. <i>ChemBioChem</i> , <b>2013</b> , 14, 934-7.8   |     | 42 |
| 87 | Detailed analysis of galactooligosaccharides synthesis with $\beta$ galactosidase from <i>Aspergillus oryzae</i> . <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 1081-7  | 5.7 | 90 |
| 86 | 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> , <b>2013</b> , 25, 4671-4678   | 9.6 | 22 |
| 85 | On the Enzyme Specificity for the Synthesis of Prebiotic Galactooligosaccharides <b>2013</b> , 23-39   |     | 4  |
| 84 | Synthesis of 6-Kestose using an Efficient $\beta$ Fructofuranosidase Engineered by Directed Evolution. <i>Advanced Synthesis and Catalysis</i> , <b>2013</b> , 355, 1698-1702  | 5.6 | 14 |
| 83 | Analysis of neofructooligosaccharides production mediated by the extracellular $\beta$ Fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Bioresource Technology</i> , <b>2012</b> , 109, 123-30  | 11  | 55 |
| 82 | Recombinant sterol esterase from <i>Ophiostoma piceae</i> : an improved biocatalyst expressed in <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , <b>2012</b> , 11, 73   | 6.4 | 25 |
| 81 | Production of bioethanol from carrot discards. <i>Bioresource Technology</i> , <b>2012</b> , 123, 727-32   | 11  | 23 |
| 80 | 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> , <b>2012</b> , 60, 6391-8   | 5.7 | 86 |
| 79 | Structural and kinetic insights reveal that the amino acid pair Gln-228/Asn-254 modulates the transfructosylating specificity of <i>Schwanniomyces occidentalis</i> $\beta$ Fructofuranosidase, an enzyme that produces prebiotics. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 19674-86 | 5.4 | 31 |

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|----|---|-----|-----|
| 78 | Lipase-catalyzed modification of phenolic antioxidants. <i>Methods in Molecular Biology</i> , <b>2012</b> , 861, 435-43   | 1.4 | 6   |
| 77 | Production of Galacto-oligosaccharides by the $\beta$ -Galactosidase from <i>Kluyveromyces lactis</i> : comparative analysis of permeabilized cells versus soluble enzyme. <i>Journal of Agricultural and Food Chemistry</i> , <b>2011</b> , 59, 10477-84                       | 5.7 | 83  |
| 76 | Influence of reaction conditions on the selectivity of the synthesis of lactulose with microbial $\beta$ -galactosidases. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2011</b> , 72, 206-212  |     | 80  |
| 75 | 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> , <b>2011</b> , 88, 57-64  | 1.8 | 32  |
| 74 | Enzymatic Synthesis of $\beta$ -Glucosides of Resveratrol with Surfactant Activity. <i>Advanced Synthesis and Catalysis</i> , <b>2011</b> , 353, 1077-1086  | 5.6 | 52  |
| 73 | Screening $\beta$ -fructofuranosidases mutant libraries to enhance the transglycosylation rates of $\beta$ (2-6) fructooligosaccharides. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2011</b> , 14, 730-8   | 1.3 | 12  |
| 72 | 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> , <b>2010</b> , 58, 807-13  | 5.7 | 58  |
| 71 | Antioxidant activity of resveratrol in several fish lipid matrices: effect of acylation and glucosylation. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 9778-86  | 5.7 | 48  |
| 70 | Biochemical characterization of a beta-fructofuranosidase from <i>Rhodotorula dairenensis</i> with transfructosylating activity. <i>FEMS Yeast Research</i> , <b>2009</b> , 9, 768-73   | 3.1 | 29  |
| 69 | Molecular and biochemical characterization of a beta-fructofuranosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 1065-73   | 4.8 | 80  |
| 68 | Characterization and application of a sterol esterase immobilized on polyacrylate epoxy-activated carriers (Dilbeads <sup>®</sup> ). <i>Catalysis Communications</i> , <b>2008</b> , 9, 539-545   | 3.2 | 23  |
| 67 | Engineering and Applications of fungal laccases for organic synthesis. <i>Microbial Cell Factories</i> , <b>2008</b> , 7, 32  | 6.4 | 251 |
| 66 | 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> , <b>2008</b> , 11, 807-16 | 1.3 | 29  |
| 65 | Laccases and their applications: a patent review. <i>Recent Patents on Biotechnology</i> , <b>2008</b> , 2, 10-24   | 2.2 | 219 |
| 64 | Decolorization of synthetic dyes by laccase immobilized on epoxy-activated carriers. <i>Process Biochemistry</i> , <b>2008</b> , 43, 169-178  | 4.8 | 196 |
| 63 | Altering the laccase functionality by in vivo assembly of mutant libraries with different mutational spectra. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2008</b> , 71, 250-60  | 4.2 | 54  |
| 62 | Acetylation of vitamin E by <i>Candida antarctica</i> lipase B immobilized on different carriers. <i>Process Biochemistry</i> , <b>2008</b> , 43, 145-153   | 4.8 | 43  |
| 61 | Enzymatic Modification for Ascorbic Acid and Alpha-Tocopherol to Enhance their Stability in Food and Nutritional Application. <i>The Open Food Science Journal</i> , <b>2008</b> , 2, 1-9   | 0.6 | 21  |

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| 60 | Transformation of polycyclic aromatic hydrocarbons by laccase is strongly enhanced by phenolic compounds present in soil. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 2964-71                                    | 10.3 | 131 |
| 59 | Bioremediation of polycyclic aromatic hydrocarbons by fungal laccases engineered by directed evolution. <i>Biocatalysis and Biotransformation</i> , <b>2007</b> , 25, 219-228  | 2.5  | 20  |
| 58 | In vitro evolution of a fungal laccase in high concentrations of organic cosolvents. <i>Chemistry and Biology</i> , <b>2007</b> , 14, 1052-64  |      | 97  |
| 57 | Biochemical and structural features of a novel cyclodextrinase from cow rumen metagenome. <i>Biotechnology Journal</i> , <b>2007</b> , 2, 207-13   | 5.6  | 35  |
| 56 | Transformation of maltose into prebiotic isomaltooligosaccharides by a novel $\beta$ -glucosidase from <i>Xanthophyllomyces dendrorhous</i> . <i>Process Biochemistry</i> , <b>2007</b> , 42, 1530-1536                                | 4.8  | 49  |
| 55 | Immobilization of <i>pycnoporus coccineus</i> laccase on Eupergit C: Stabilization and treatment of olive oil mill wastewaters. <i>Biocatalysis and Biotransformation</i> , <b>2007</b> , 25, 130-134                                  | 2.5  | 41  |
| 54 | Environmental biocatalysis: From remediation with enzymes to novel green processes. <i>Biocatalysis and Biotransformation</i> , <b>2007</b> , 25, 113-113  | 2.5  | 8   |
| 53 | Purification and kinetic characterization of a fructosyltransferase from <i>Aspergillus aculeatus</i> . <i>Journal of Biotechnology</i> , <b>2007</b> , 128, 204-11  | 3.7  | 124 |
| 52 | Characterization of a beta-fructofuranosidase from <i>Schwanniomyces occidentalis</i> with transfructosylating activity yielding the prebiotic 6-kestose. <i>Journal of Biotechnology</i> , <b>2007</b> , 132, 75-81                   | 3.7  | 94  |
| 51 | Application of Glycosidases and Transglycosidases in the Synthesis of Oligosaccharides <b>2007</b> , 141-157   |      | 25  |
| 50 | Environmental biocatalysis: from remediation with enzymes to novel green processes. <i>Trends in Biotechnology</i> , <b>2006</b> , 24, 281-7   | 15.1 | 308 |
| 49 | Combinatorial saturation mutagenesis by in vivo overlap extension for the engineering of fungal laccases. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2006</b> , 9, 719-27                                       | 1.3  | 33  |
| 48 | Synthesis of methyl alpha-D-glucooligosaccharides by entrapped dextranucrase from <i>Leuconostoc mesenteroides</i> B-1299. <i>Journal of Biotechnology</i> , <b>2006</b> , 124, 439-45   | 3.7  | 22  |
| 47 | Beet sugar syrup and molasses as low-cost feedstock for the enzymatic production of fructo-oligosaccharides. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 2964-8  | 5.7  | 46  |
| 46 | 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> , <b>2006</b> , 281, 22933-42 | 5.4  | 146 |
| 45 | Parameters affecting productivity in the lipase-catalysed synthesis of sucrose palmitate. <i>Biocatalysis and Biotransformation</i> , <b>2005</b> , 23, 19-27  | 2.5  | 38  |
| 44 | 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> , <b>2005</b> , 391, 269-76     | 3.8  | 36  |
| 43 | 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> , <b>2005</b> , 36, 391-398   | 3.8  | 191 |

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|----|---|------|-----|
| 42 | Antitumour activity of fatty acid maltotriose esters obtained by enzymatic synthesis. <i>Biotechnology and Applied Biochemistry</i> , <b>2005</b> , 42, 35-9  | 2.8  | 29  |
| 41 | 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> , <b>2005</b> , 35, 19-27                           |      | 86  |
| 40 | Conversion of a carboxylesterase into a triacylglycerol lipase by a random mutation. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 7553-7  | 16.4 | 29  |
| 39 | Screening mutant libraries of fungal laccases in the presence of organic solvents. <i>Journal of Biomolecular Screening</i> , <b>2005</b> , 10, 624-31  |      | 55  |
| 38 | Immobilization of dextranucrase from <i>Leuconostoc mesenteroides</i> NRRL B-512F on Eupergit C supports. <i>Biotechnology Progress</i> , <b>2004</b> , 20, 1414-20   | 2.8  | 53  |
| 37 | Effect of carbohydrate fatty acid esters on <i>Streptococcus sobrinus</i> and glucosyltransferase activity. <i>Carbohydrate Research</i> , <b>2004</b> , 339, 1029-34   | 2.9  | 56  |
| 36 | Synthesis of maltooligosyl fructofuranosides catalyzed by immobilized cyclodextrin glucosyltransferase using starch as donor. <i>Tetrahedron</i> , <b>2004</b> , 60, 529-534  | 2.4  | 23  |
| 35 | Encapsulation in LentiKats of Dextranucrase from <i>Leuconostoc mesenteroides</i> NRRL B-1299, and its Effect on Product Selectivity. <i>Biocatalysis and Biotransformation</i> , <b>2003</b> , 21, 325-331   | 2.5  | 30  |
| 34 | Immobilization on Eupergit C of cyclodextrin glucosyltransferase (CGTase) and properties of the immobilized biocatalyst. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2003</b> , 21, 299-308   |      | 91  |
| 33 | Chemical modification of carboxylic residues in a cyclodextrin glucanotransferase and its implication in the hydrolysis/transglycosylation ratio of the $\beta$ -amylase family. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2003</b> , 26, 57-67 |      | 8   |
| 32 | Computational studies of subtilisin-catalyzed transesterification of sucrose: importance of entropic effects. <i>ChemBioChem</i> , <b>2002</b> , 3, 907-10  | 3.8  | 5   |
| 31 | Production, isolation and characterization of a sterol esterase from <i>Ophiostoma piceae</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2002</b> , 1599, 28-35  | 4    | 43  |
| 30 | Enzymatic acylation of di- and trisaccharides with fatty acids: choosing the appropriate enzyme, support and solvent. <i>Journal of Biotechnology</i> , <b>2002</b> , 96, 55-66   | 3.7  | 172 |
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| 27 | 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> , <b>2002</b> , 47, 1517-1520                            | 2.8  | 10  |
| 26 | Comparative Surface Activities of Di- and Trisaccharide Fatty Acid Esters. <i>Langmuir</i> , <b>2002</b> , 18, 667-673  | 4    | 102 |
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| 23 | Improved synthesis of sucrose fatty acid monoesters. <i>JAACS, Journal of the American Oil Chemists Society</i> , <b>2001</b> , 78, 541-546   | 1.8 | 28  |
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| 20 | Purification and properties of a lipase from <i>Penicillium chrysogenum</i> isolated from industrial wastes. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2000</b> , 75, 569-576  | 3.5 | 25  |
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| 16 | 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> , <b>1999</b> , 445, 333-7  | 3.8 | 29  |
| 15 | Analysis of Tween 80 as an esterase/ lipase substrate for lipolytic activity assay. <i>Biotechnology Letters</i> , <b>1998</b> , 12, 183-186  |     | 60  |
| 14 | 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> , <b>1998</b> , 864, 183-7   | 6.5 | 10  |
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| 12 | 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> , <b>1997</b> , 15, 75-89  | 2.5 | 12  |
| 11 | 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> , <b>1996</b> , 257, 1088-111 | 6.5 | 31  |
| 10 | High-yield production of mono- and di-oleylglycerol by lipase-catalyzed hydrolysis of triolein. <i>Enzyme and Microbial Technology</i> , <b>1996</b> , 18, 66-71  | 3.8 | 71  |
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| 2 | Synthesis and x-ray structure of the heterotrinnuclear complex $[\text{Pd}\{\{\text{ECI}\}(\text{O}-\text{EP}(\text{O})(\text{OMe})_2)\text{Rh}(\text{cod})\}_2]$ . An unusual bridging coordination mode involving phosphonate ligands. <i>Inorganica Chimica Acta</i> , <b>1988</b> , 150, 157-159 | 2.7 | 10 |
| 1 | Efficient Fructooligosaccharide Synthesis with a Fructosyltransferase from <i>Aspergillus aculeatus</i> 153-171  |     |    |