# Dietmar Haltrich

## List of Publications by Year in Descending Order



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| 262 papers | 9,838 citations | 55 h-index | 85 g-index |
| 274 ext. papers | 10,720 ext. citations | 4.7 avg, IF | 6 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 262 | Manno-oligosaccharides from copra meal: optimization of its enzymatic production and evaluation its potential as prebiotic. *Bioactive Carbohydrates and Dietary Fibre*, **2021**, 100292 | 3.4 | 1 |
| 261 | Microbial Production and Enzymatic Biosynthesis of Aminobutyric Acid (GABA) Using Lactobacillus plantarum FNCC 260 Isolated from Indonesian Fermented Foods. *Processes*, **2021**, 9, 22 | 2.9 | 5 |
| 260 | Crystallization, structural characterization and kinetic analysis of a GH26 -mannanase from Klebsiella oxytoca KUB-CW2-3. *Acta Crystallographica Section D: Structural Biology*, **2021**, 77, 1425-1436 | 5.5 | 0 |
| 259 | Engineering the Turnover Stability of Cellobiose Dehydrogenase toward Long-Term Bioelectronic Applications. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 7086-7100 | 8.3 | 6 |
| 258 | Efficient Secretion and Recombinant Production of a Lactobacillal -amylase in WCFS1: Analysis and Comparison of the Secretion Using Different Signal Peptides. *Frontiers in Microbiology*, **2021**, 12, 689413 | 5.7 | 0 |
| 257 | Genomic Comparison of AP and DR131 with Emphasis on the Butyric Acid Biosynthetic Pathways. *Microorganisms*, **2021**, 9, | 4.9 | 2 |
| 256 | Analysis and Reconstitution of the Menaquinone Biosynthesis Pathway in and. *Microorganisms*, **2021**, 9, | 4.9 | 2 |
| 255 | Influence of spore morphology on spectrophotometric quantification of inocula. *BioTechniques*, **2020**, 68, 279-282 | 2.5 | 3 |
| 254 | Structural Comparison of Different Galacto-oligosaccharide Mixtures Formed by -Galactosidases from Lactic Acid Bacteria and Bifidobacteria. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 4437-4446 | 5.7 | 8 |
| 253 | Co-production of gallic acid and a novel cell-associated tannase by a pigment-producing yeast, Sporidiobolus ruineniae A45.2. *Microbial Cell Factories*, **2020**, 19, 95 | 6.4 | 9 |
| 252 | Characterization of pyranose oxidase variants for bioelectrocatalytic applications. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2020**, 1868, 140335 | 4 | 3 |
| 251 | Pyranose oxidase: A versatile sugar oxidoreductase for bioelectrochemical applications. *Bioelectrochemistry*, **2020**, 132, 107409 | 5.6 | 11 |
| 250 | Glutamate Decarboxylase from Lactic Acid Bacteria-A Key Enzyme in GABA Synthesis. *Microorganisms*, **2020**, 8, | 4.9 | 24 |
| 249 | Twenty-Eight Fungal Secondary Metabolites Detected in Pig Feed Samples: Their Occurrence, Relevance and Cytotoxic Effects In Vitro. *Toxins*, **2019**, 11, | 4.9 | 10 |
| 248 | Expression and biochemical characterization of a new alkaline tannase from Lactobacillus pentosus. *Protein Expression and Purification*, **2019**, 157, 36-41 | 2 | 13 |
| 247 | The GMC superfamily of oxidoreductases revisited: analysis and evolution of fungal GMC oxidoreductases. *Biotechnology for Biofuels*, **2019**, 12, 118 | 7.8 | 38 |
| 246 | Constitutive expression and cell-surface display of a bacterial -mannanase in Lactobacillus plantarum. *Microbial Cell Factories*, **2019**, 18, 76 | 6.4 | 8 |

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| 245 | Versatile Oxidase and Dehydrogenase Activities of Bacterial Pyranose 2-Oxidase Facilitate Redox Cycling with Manganese Peroxidase. *Applied and Environmental Microbiology*, **2019**, 85, | 4.8 | 8 |
| 244 | Expression of a leptospiral leucine-rich repeat protein using a food-grade vector in , as a strategy for vaccine delivery. *3 Biotech*, **2019**, 9, 324 | 2.8 | 2 |
| 243 | Amperometric Flow Injection Analysis of Glucose and Galactose Based on Engineered Pyranose 2-Oxidases and Osmium Polymers for Biosensor Applications. *Electroanalysis*, **2018**, 30, 1496-1504 | 3 | 12 |
| 242 | Multiplicity of enzymatic functions in the CAZy AA3 family. *Applied Microbiology and Biotechnology*, **2018**, 102, 2477-2492 | 5.7 | 55 |
| 241 | Tuna condensate as a promising low-cost substrate for glutamic acid and GABA formation using Candida rugosa and Lactobacillus futsaii. *Process Biochemistry*, **2018**, 70, 29-35 | 4.8 | 13 |
| 240 | Molecular structure of cyclomaltodextrinase derived from amylolytic lactic acid bacterium Enterococcus faecium K-1 and properties of recombinant enzymes expressed in Escherichia coli and Lactobacillus plantarum. *International Journal of Biological Macromolecules*, **2018**, 107, 898-905 | 7.9 | 7 |
| 239 | Fermentability of a Novel Galacto-Oligosaccharide Mixture by spp. and spp. *Molecules*, **2018**, 23, | 4.8 | 13 |
| 238 | Characterization of three pyranose dehydrogenase isoforms from the litter-decomposing basidiomycete Leucoagaricus meleagris (syn. Agaricus meleagris). *Applied Microbiology and Biotechnology*, **2017**, 101, 2879-2891 | 5.7 | 5 |
| 237 | Rational Combination of Promiscuous Enzymes Yields a Versatile Enzymatic Fuel Cell with Improved Coulombic Efficiency. *Journal of the Electrochemical Society*, **2017**, 164, H3073-H3082 | 3.9 | 16 |
| 236 | Expression and comparative characterization of complete and C-terminally truncated forms of saccharifying □-amylase from Lactobacillus plantarum S21. *International Journal of Biological Macromolecules*, **2017**, 103, 1294-1301 | 7.9 | 2 |
| 235 | Immobilization of □□-Galactosidases from Lactobacillus on Chitin Using a Chitin-Binding Domain. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 2965-2976 | 5.7 | 16 |
| 234 | Evolving stability and pH-dependent activity of the high redox potential Botrytis aclada laccase for enzymatic fuel cells. *Scientific Reports*, **2017**, 7, 13688 | 4.9 | 20 |
| 233 | Secretory expression of □□-mannanase from Bacillus circulans NT 6.7 in Lactobacillus plantarum. *Protein Expression and Purification*, **2017**, 139, 29-35 | 2 | 7 |
| 232 | Enhancement of gamma-aminobutyric acid (GABA) levels using an autochthonous Lactobacillus futsaii CS3 as starter culture in Thai fermented shrimp (Kung-Som). *World Journal of Microbiology and Biotechnology*, **2017**, 33, 152 | 4.4 | 16 |
| 231 | CS3, a New GABA-Producing Strain Isolated from Thai Fermented Shrimp (-). *Indian Journal of Microbiology*, **2017**, 57, 211-217 | 3.7 | 23 |
| 230 | Mannan biotechnology: from biofuels to health. *Critical Reviews in Biotechnology*, **2016**, 36, 32-42 | 9.4 | 75 |
| 229 | Secretory production of a beta-mannanase and a chitosanase using a Lactobacillus plantarum expression system. *Microbial Cell Factories*, **2016**, 15, 81 | 6.4 | 16 |
| 228 | Electrochemical characterization of the pyranose 2-oxidase variant N593C shows a complete loss of the oxidase function with full preservation of substrate (dehydrogenase) activity. *Physical Chemistry Chemical Physics*, **2016**, 18, 32072-32077 | 3.6 | 5 |

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| 227 | Display of a β-mannanase and a chitosanase on the cell surface of Lactobacillus plantarum towards the development of whole-cell biocatalysts. *Microbial Cell Factories*, **2016**, 15, 169 | 6.4 | 21 |
| 226 | Transcription analysis of pyranose dehydrogenase from the basidiomycete Agaricus bisporus and characterization of the recombinantly expressed enzyme. *Protein Expression and Purification*, **2016**, 119, 36-44 | 2 | 5 |
| 225 | From by-product to valuable components: Efficient enzymatic conversion of lactose in whey using β-galactosidase from. *Biochemical Engineering Journal*, **2016**, 116, 45-53 | 4.2 | 57 |
| 224 | Technological and safety properties of newly isolated GABA-producing Lactobacillus futsaii strains. *Journal of Applied Microbiology*, **2016**, 121, 734-45 | 4.7 | 18 |
| 223 | Transferase Activity of Lactobacillal and Bifidobacterial β-Galactosidases with Various Sugars as Galactosyl Acceptors. *Journal of Agricultural and Food Chemistry*, **2016**, 64, 2604-11 | 5.7 | 4 |
| 222 | Engineering a thermostable Halothermothrix orenii β-glucosidase for improved galacto-oligosaccharide synthesis. *Applied Microbiology and Biotechnology*, **2016**, 100, 3533-43 | 5.7 | 20 |
| 221 | Oxidation of Phe454 in the Gating Segment Inactivates Trametes multicolor Pyranose Oxidase during Substrate Turnover. *PLoS ONE*, **2016**, 11, e0148108 | 3.7 | 5 |
| 220 | Extracellular electron transfer systems fuel cellulose oxidative degradation. *Science*, **2016**, 352, 1098-101 | 33.3 | 271 |
| 219 | OmpA signal peptide leads to heterogenous secretion of B. subtilis chitosanase enzyme from E. coli expression system. *SpringerPlus*, **2016**, 5, 1200 | | 21 |
| 218 | Engineering an enzymatic regeneration system for NAD(P)H oxidation. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 120, 38-46 | | 19 |
| 217 | Fractionation of a galacto-oligosaccharides solution at low and high temperature using nanofiltration. *Separation and Purification Technology*, **2015**, 151, 124-130 | 8.3 | 41 |
| 216 | Characterization of a maltose-forming α-amylase from an amylolytic lactic acid bacterium Lactobacillus plantarum S21. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 120, 1-8 | | 15 |
| 215 | Structural basis for cellobiose dehydrogenase action during oxidative cellulose degradation. *Nature Communications*, **2015**, 6, 7542 | 17.4 | 153 |
| 214 | UDP-sulfoquinovose formation by Sulfolobus acidocaldarius. *Extremophiles*, **2015**, 19, 451-67 | 3 | 8 |
| 213 | Heterologous expression of a recombinant lactobacillal β-galactosidase in Lactobacillus plantarum: effect of different parameters on the sakacin P-based expression system. *Microbial Cell Factories*, **2015**, 14, 30 | 6.4 | 24 |
| 212 | Reaction of pyranose dehydrogenase from Agaricus meleagris with its carbohydrate substrates. *FEBS Journal*, **2015**, 282, 4218-41 | 5.7 | 12 |
| 211 | Efficient secretory expression of gene encoding a broad pH-stable maltose-forming amylase from Lactobacillus plantarum S21 in food-grade lactobacilli host **2015**, 58, 901-908 | | 4 |
| 210 | Phenolic antioxidants and their role in quenching of reactive molecular species in the human skin injury. *Lipid Technology*, **2015**, 27, 36-39 | | 3 |

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| 209 | A Versatile Family 3 Glycoside Hydrolase from Bifidobacterium adolescentis Hydrolyzes □-Glucosides of the Fusarium Mycotoxins Deoxynivalenol, Nivalenol, and HT-2 Toxin in Cereal Matrices. *Applied and Environmental Microbiology*, **2015**, 81, 4885-93 | 4.8 | 18 |
| 208 | Expression, purification, and characterization of galactose oxidase of Fusarium sambucinum in E. coli. *Protein Expression and Purification*, **2015**, 108, 73-79 | 2 | 24 |
| 207 | Biochemical and structural characterization of a thermostable □-glucosidase from Halothermothrix orenii for galacto-oligosaccharide synthesis. *Applied Microbiology and Biotechnology*, **2015**, 99, 1731-44 | 5.7 | 47 |
| 206 | A C4-oxidizing lytic polysaccharide monooxygenase cleaving both cellulose and cello-oligosaccharides. *Journal of Biological Chemistry*, **2014**, 289, 2632-42 | 5.4 | 229 |
| 205 | L-Arabinose isomerase and D-xylose isomerase from Lactobacillus reuteri: characterization, coexpression in the food grade host Lactobacillus plantarum, and application in the conversion of D-galactose and D-glucose. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 1617-24 | 5.7 | 41 |
| 204 | Engineering of pyranose 2-oxidase for modified oxygen reactivity. *New Biotechnology*, **2014**, 31, S21 | 6.4 | 1 |
| 203 | Agaricus meleagris pyranose dehydrogenase: influence of covalent FAD linkage on catalysis and stability. *Archives of Biochemistry and Biophysics*, **2014**, 558, 111-9 | 4.1 | 6 |
| 202 | Cloning, secretory expression and characterization of recombinant □-mannanase from Bacillus circulans NT 6.7. *SpringerPlus*, **2014**, 3, 430 | | 25 |
| 201 | Engineering of pyranose dehydrogenase for increased oxygen reactivity. *PLoS ONE*, **2014**, 9, e91145 | 3.7 | 15 |
| 200 | Pyranose dehydrogenase ligand promiscuity: a generalized approach to simulate monosaccharide solvation, binding, and product formation. *PLoS Computational Biology*, **2014**, 10, e1003995 | 5 | 8 |
| 199 | Nature and biosynthesis of galacto-oligosaccharides related to oligosaccharides in human breast milk. *FEMS Microbiology Letters*, **2014**, 353, 89-97 | 2.9 | 41 |
| 198 | Cellulose surface degradation by a lytic polysaccharide monooxygenase and its effect on cellulase hydrolytic efficiency. *Journal of Biological Chemistry*, **2014**, 289, 35929-38 | 5.4 | 192 |
| 197 | Fungal secretomes enhance sugar beet pulp hydrolysis. *Biotechnology Journal*, **2014**, 9, 483-92 | 5.6 | 16 |
| 196 | Convenient microtiter plate-based, oxygen-independent activity assays for flavin-dependent oxidoreductases based on different redox dyes. *Biotechnology Journal*, **2014**, 9, 474-82 | 5.6 | 13 |
| 195 | Production of Recombinant □-Galactosidase in Lactobacillus plantarum, Using a pSIP-Based Food-Grade Expression System. *Advanced Materials Research*, **2014**, 931-932, 1518-1523 | 0.5 | 3 |
| 194 | Structural basis for binding of fluorinated glucose and galactose to Trametes multicolor pyranose 2-oxidase variants with improved galactose conversion. *PLoS ONE*, **2014**, 9, e86736 | 3.7 | 7 |
| 193 | Galactose oxidase from Fusarium oxysporum--expression in E. coli and P. pastoris and biochemical characterization. *PLoS ONE*, **2014**, 9, e100116 | 3.7 | 12 |
| 192 | Two □-galactosidases from the human isolate Bifidobacterium breve DSM 20213: molecular cloning and expression, biochemical characterization and synthesis of galacto-oligosaccharides. *PLoS ONE*, **2014**, 9, e104056 | 3.7 | 26 |

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| 191 | Engineering pyranose 2-oxidase for modified oxygen reactivity. *PLoS ONE*, **2014**, 9, e109242 | 3.7 | 13 |
| 190 | Molecular dynamics simulations give insight into D-glucose dioxidation at C2 and C3 by Agaricus meleagris pyranose dehydrogenase. *Journal of Computer-Aided Molecular Design*, **2013**, 27, 295-304 | 4.2 | 28 |
| 189 | Crystal structures of Phanerochaete chrysosporium pyranose 2-oxidase suggest that the N-terminus acts as a propeptide that assists in homotetramer assembly. *FEBS Open Bio*, **2013**, 3, 496-504 | 2.7 | 15 |
| 188 | Pyranose Dehydrogenase from Agaricus campestris and Agaricus xanthoderma: Characterization and Applications in Carbohydrate Conversions. *Biomolecules*, **2013**, 3, 535-52 | 5.9 | 10 |
| 187 | The 1.6 Å crystal structure of pyranose dehydrogenase from Agaricus meleagris rationalizes substrate specificity and reveals a flavin intermediate. *PLoS ONE*, **2013**, 8, e53567 | 3.7 | 40 |
| 186 | Characterization of mannanase S1 from Klebsiella oxytoca KUB-CW2-3 and its application in copra mannan hydrolysis. *ScienceAsia*, **2013**, 39, 236 | 1.4 | 10 |
| 185 | Heterologous expression and biochemical characterization of novel pyranose 2-oxidases from the ascomycetes Aspergillus nidulans and Aspergillus oryzae. *Applied Microbiology and Biotechnology*, **2012**, 93, 1157-66 | 5.7 | 10 |
| 184 | Exploitation of a Laccase/Meldola's Blue System for NAD+ Regeneration in Preparative Scale Hydroxysteroid Dehydrogenase-Catalyzed Oxidations. *Advanced Synthesis and Catalysis*, **2012**, 354, 2821-2828 | 5.6 | 30 |
| 183 | A chloride tolerant laccase from the plant pathogen ascomycete Botrytis aclada expressed at high levels in Pichia pastoris. *Journal of Biotechnology*, **2012**, 157, 304-14 | 3.7 | 53 |
| 182 | Heterologous expression and characterization of an N-acetyl-β-D-hexosaminidase from Lactococcus lactis ssp. lactis IL1403. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 3275-81 | 5.7 | 13 |
| 181 | Simple and efficient expression of Agaricus meleagris pyranose dehydrogenase in Pichia pastoris. *Applied Microbiology and Biotechnology*, **2012**, 94, 695-704 | 5.7 | 27 |
| 180 | Chitinase from Bacillus licheniformis DSM13: expression in Lactobacillus plantarum WCFS1 and biochemical characterisation. *Protein Expression and Purification*, **2012**, 81, 166-74 | 2 | 26 |
| 179 | Production of four Neurospora crassa lytic polysaccharide monooxygenases in Pichia pastoris monitored by a fluorimetric assay. *Biotechnology for Biofuels*, **2012**, 5, 79 | 7.8 | 213 |
| 178 | Investigation of the mediated electron transfer mechanism of cellobiose dehydrogenase at cytochrome c-modified gold electrodes. *Bioelectrochemistry*, **2012**, 87, 9-14 | 5.6 | 14 |
| 177 | Purification of l-(+)-lactic acid from pre-treated fermentation broth using vapor permeation-assisted esterification. *Process Biochemistry*, **2012**, 47, 1948-1956 | 4.8 | 21 |
| 176 | Enzymatic oxygen scavenging for photostability without pH drop in single-molecule experiments. *ACS Nano*, **2012**, 6, 6364-9 | 16.7 | 135 |
| 175 | Homodimeric β-galactosidase from Lactobacillus delbrueckii subsp. bulgaricus DSM 20081: expression in Lactobacillus plantarum and biochemical characterization. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 1713-21 | 5.7 | 57 |
| 174 | High-throughput screening for cellobiose dehydrogenases by Prussian Blue in situ formation. *Biotechnology Journal*, **2012**, 7, 919-30 | 5.6 | 5 |

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| 173 | Preparation of immobilized Trametes pubescens laccase on a cryogel-type polymeric carrier and application of the biocatalyst to apple juice phenolic compounds oxidation. *European Food Research and Technology*, **2012**, 234, 655-662 | 3.4 | 22 |
| 172 | Biochemical characteristics of Trametes multicolor pyranose oxidase and Aspergillus niger glucose oxidase and implications for their functionality in wheat flour dough. *Food Chemistry*, **2012**, 131, 1485-1492 | 8.5 | 28 |
| 171 | Constitutive expression of Botrytis aclada laccase in Pichia pastoris. *Bioengineered*, **2012**, 3, 232-5 | 5.7 | 12 |
| 170 | Production of Galacto-oligosaccharides by the β-Galactosidase from Kluyveromyces lactis : comparative analysis of permeabilized cells versus soluble enzyme. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 10477-84 | 5.7 | 83 |
| 169 | Characterization of a heterodimeric GH2 β-galactosidase from Lactobacillus sakei Lb790 and formation of prebiotic galacto-oligosaccharides. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 3803-11 | 5.7 | 48 |
| 168 | Regioselective control of β-d-glucose oxidation by pyranose 2-oxidase is intimately coupled to conformational degeneracy. *Journal of Molecular Biology*, **2011**, 409, 588-600 | 6.5 | 15 |
| 167 | A food-grade system for inducible gene expression in Lactobacillus plantarum using an alanine racemase-encoding selection marker. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 5617-24 | 5.7 | 51 |
| 166 | A biocatalytic cascade reaction sensitive to the gas–liquid interface: Modeling and upscaling in a dynamic membrane aeration reactor. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 68, 154-161 | | 34 |
| 165 | Biodegradation of tetrabromobisphenol A by oxidases in basidiomycetous fungi and estrogenic activity of the biotransformation products. *Bioresource Technology*, **2011**, 102, 9409-15 | 11 | 47 |
| 164 | In situ generation of hydrogen peroxide by carbohydrate oxidase and cellobiose dehydrogenase for bleaching purposes. *Biotechnology Journal*, **2011**, 6, 224-30 | 5.6 | 16 |
| 163 | Cellobiose dehydrogenase of Chaetomium sp. INBI 2-26(-): structural basis of enhanced activity toward glucose at neutral pH. *Biotechnology Journal*, **2011**, 6, 538-53 | 5.6 | 6 |
| 162 | Food-grade gene expression in lactic acid bacteria. *Biotechnology Journal*, **2011**, 6, 1147-61 | 5.6 | 58 |
| 161 | Enhanced production of recombinant galactose oxidase from Fusarium graminearum in E. coli. *World Journal of Microbiology and Biotechnology*, **2011**, 27, 1349-53 | 4.4 | 7 |
| 160 | Cloning, purification, and characterization of β-galactosidase from Bacillus licheniformis DSM 13. *Applied Microbiology and Biotechnology*, **2011**, 89, 645-54 | 5.7 | 52 |
| 159 | Enzyme characteristics of aminotransferase FumI of Sphingopyxis sp. MTA144 for deamination of hydrolyzed fumonisin B *Applied Microbiology and Biotechnology*, **2011**, 91, 757-68 | 5.7 | 35 |
| 158 | Heterologous overexpression of Glomerella cingulata FAD-dependent glucose dehydrogenase in Escherichia coli and Pichia pastoris. *Microbial Cell Factories*, **2011**, 10, 106 | 6.4 | 35 |
| 157 | Quantitative transcript analysis of the inducible expression system pSIP: comparison of the overexpression of Lactobacillus spp. β-galactosidases in Lactobacillus plantarum. *Microbial Cell Factories*, **2011**, 10, 46 | 6.4 | 7 |
| 156 | Crystallization and preliminary crystallographic analysis of β-mannanase from Bacillus licheniformis. *Acta Crystallographica Section F: Structural Biology Communications*, **2011**, 67, 217-20 | | 6 |

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| 155 | Catalytic properties and classification of cellobiose dehydrogenases from ascomycetes. *Applied and Environmental Microbiology*, **2011**, 77, 1804-15 | 4.8 | 105 |
| 154 | Studies of the chemoenzymatic modification of cellulosic pulps by the laccase-TEMPO system. *Holzforschung*, **2011**, 65, | 2 | 23 |
| 153 | Importance of the gating segment in the substrate-recognition loop of pyranose 2-oxidase. *FEBS Journal*, **2010**, 277, 2892-909 | 5.7 | 27 |
| 152 | A conserved active-site threonine is important for both sugar and flavin oxidations of pyranose 2-oxidase. *Journal of Biological Chemistry*, **2010**, 285, 9697-9705 | 5.4 | 49 |
| 151 | Thermostable variants of pyranose 2-oxidase showing altered substrate selectivity for glucose and galactose. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 3465-71 | 5.7 | 13 |
| 150 | H-bonding and positive charge at the N5/O4 locus are critical for covalent flavin attachment in trametes pyranose 2-oxidase. *Journal of Molecular Biology*, **2010**, 402, 578-94 | 6.5 | 28 |
| 149 | High-level expression of Lactobacillus beta-galactosidases in Lactococcus lactis using the food-grade, nisin-controlled expression system NICE. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 2279-87 | 5.7 | 31 |
| 148 | Low pH dye decolorization with ascomycete Lamprospora wrightii laccase. *Biotechnology Journal*, **2010**, 5, 857-70 | 5.6 | 11 |
| 147 | Beta-galactosidase from Lactobacillus pentosus: purification, characterization and formation of galacto-oligosaccharides. *Biotechnology Journal*, **2010**, 5, 838-47 | 5.6 | 50 |
| 146 | Evaluation of different expression systems for the heterologous expression of pyranose 2-oxidase from Trametes multicolor in E. coli. *Microbial Cell Factories*, **2010**, 9, 14 | 6.4 | 19 |
| 145 | Efficient recombinant expression and secretion of a thermostable GH26 mannan endo-1,4-beta-mannosidase from Bacillus licheniformis in Escherichia coli. *Microbial Cell Factories*, **2010**, 9, 20 | 6.4 | 68 |
| 144 | Characterisation of recombinant pyranose oxidase from the cultivated mycorrhizal basidiomycete Lyophyllum shimeji (hon-shimeji). *Microbial Cell Factories*, **2010**, 9, 57 | 6.4 | 12 |
| 143 | Enhancement of solubility in Escherichia coli and purification of an aminotransferase from Sphingopyxis sp. MTA144 for deamination of hydrolyzed fumonisin B(1). *Microbial Cell Factories*, **2010**, 9, 62 | 6.4 | 29 |
| 142 | Engineered Pyranose 2-Oxidase: Efficiently Turning Sugars into Electrical Energy. *Electroanalysis*, **2010**, 22, 813-820 | 3 | 15 |
| 141 | beta-Galactosidase from Lactobacillus plantarum WCFS1: biochemical characterization and formation of prebiotic galacto-oligosaccharides. *Carbohydrate Research*, **2010**, 345, 1408-16 | 2.9 | 97 |
| 140 | Comparing soluble Trametes pubescens laccase and cross-linked enzyme crystals (CLECs) for enzymatic modification of cellulose 10th EWLP, Stockholm, Sweden, August 25–28, 2008. *Holzforschung*, **2009**, 63, | 2 | 5 |
| 139 | Cellobiose dehydrogenase from the ligninolytic basidiomycete Ceriporiopsis subvermispora. *Applied and Environmental Microbiology*, **2009**, 75, 2750-7 | 4.8 | 40 |
| 138 | Membrane-Less Biofuel Cell Based on Cellobiose Dehydrogenase (Anode)/Laccase (Cathode) Wired via Specific Os-Redox Polymers. *Fuel Cells*, **2009**, 9, 53-62 | 2.9 | 78 |

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| 137 | A Direct Electron Transfer-Based Glucose/Oxygen Biofuel Cell Operating in Human Serum. *Fuel Cells*, **2009**, 10, NA-NA | 2.9 | 26 |
| 136 | Bubble-free oxygenation of a bi-enzymatic system: effect on biocatalyst stability. *Biotechnology and Bioengineering*, **2009**, 102, 122-31 | 4.9 | 42 |
| 135 | Kinetic modeling of a bi-enzymatic system for efficient conversion of lactose to lactobionic acid. *Biotechnology and Bioengineering*, **2009**, 102, 1475-82 | 4.9 | 37 |
| 134 | Improvement of direct bioelectrocatalysis by cellobiose dehydrogenase on screen printed graphite electrodes using polyaniline modification. *Bioelectrochemistry*, **2009**, 76, 87-92 | 5.6 | 21 |
| 133 | Substrate specificity of Myriococcum thermophilum cellobiose dehydrogenase on mono-, oligo-, and polysaccharides related to in situ production of H2O2. *Applied Microbiology and Biotechnology*, **2009**, 85, 75-83 | 5.7 | 28 |
| 132 | Improving thermostability and catalytic activity of pyranose 2-oxidase from Trametes multicolor by rational and semi-rational design. *FEBS Journal*, **2009**, 276, 776-92 | 5.7 | 33 |
| 131 | Engineering of pyranose 2-oxidase: improvement for biofuel cell and food applications through semi-rational protein design. *Journal of Biotechnology*, **2009**, 139, 250-7 | 3.7 | 39 |
| 130 | Pyranose 2-oxidase from Phanerochaete chrysosporium--expression in E. coli and biochemical characterization. *Journal of Biotechnology*, **2009**, 142, 97-106 | 3.7 | 32 |
| 129 | Biocatalytic cascade oxidation using laccase for pyranose 2-oxidase regeneration. *Bioresource Technology*, **2009**, 100, 5566-73 | 11 | 10 |
| 128 | A thermostable triple mutant of pyranose 2-oxidase from Trametes multicolor with improved properties for biotechnological applications. *Biotechnology Journal*, **2009**, 4, 525-34 | 5.6 | 20 |
| 127 | Probing active-site residues of pyranose 2-oxidase from Trametes multicolor by semi-rational protein design. *Biotechnology Journal*, **2009**, 4, 535-43 | 5.6 | 9 |
| 126 | Comparison of direct and mediated electron transfer for cellobiose dehydrogenase from Phanerochaete sordida. *Analytical Chemistry*, **2009**, 81, 2791-8 | 7.8 | 64 |
| 125 | Kinetic mechanism of pyranose 2-oxidase from trametes multicolor. *Biochemistry*, **2009**, 48, 4170-80 | 3.2 | 47 |
| 124 | Cloning, expression in Pichia pastoris, and characterization of a thermostable GH5 mannan endo-1,4-beta-mannosidase from Aspergillus niger BK01. *Microbial Cell Factories*, **2009**, 8, 59 | 6.4 | 95 |
| 123 | Direct Electron Transfer at Cellobiose Dehydrogenase Modified Anodes for Biofuel Cells. *Journal of Physical Chemistry C*, **2008**, 112, 9956-9961 | 3.8 | 86 |
| 122 | High-level expression of recombinant beta-galactosidases in Lactobacillus plantarum and Lactobacillus sakei using a Sakacin P-based expression system. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 4710-9 | 5.7 | 58 |
| 121 | Detection of a C4a-hydroperoxyflavin intermediate in the reaction of a flavoprotein oxidase. *Biochemistry*, **2008**, 47, 8485-90 | 3.2 | 80 |
| 120 | Cloning, sequence analysis and heterologous expression in Pichia pastoris of a gene encoding a thermostable cellobiose dehydrogenase from Myriococcum thermophilum. *Protein Expression and Purification*, **2008**, 59, 258-65 | 2 | 56 |

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| 119 | Characterization of pyranose dehydrogenase from Agaricus meleagris and its application in the C-2 specific conversion of D-galactose. *Journal of Biotechnology*, **2008**, 133, 334-42 | 3.7 | 48 |
| 118 | Comparing soluble and co-immobilized catalysts for 2-ketoaldose production by pyranose 2-oxidase and auxiliary enzymes. *Journal of Biotechnology*, **2008**, 135, 281-90 | 3.7 | 24 |
| 117 | A membrane-, mediator-, cofactor-less glucose/oxygen biofuel cell. *Physical Chemistry Chemical Physics*, **2008**, 10, 6093-6 | 3.6 | 109 |
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| 115 | Mutations of Thr169 affect substrate specificity of pyranose 2-oxidase from Trametes multicolor. *Biocatalysis and Biotransformation*, **2008**, 26, 120-127 | 2.5 | 15 |
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