Dietmar Haltrich

List of Publications by Citations

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	Extracellular electron transfer systems fuel cellulose oxidative degradation. *Science*, **2016**, 352, 1098-101	33.3	271
261	Increased production of laccase by the wood-degrading basidiomycete Trametes pubescens. *Enzyme and Microbial Technology*, **2002**, 30, 529-536	3.8	243
260	Characterization of the major laccase isoenzyme from Trametes pubescens and regulation of its synthesis by metal ions. *Microbiology (United Kingdom)*, **2002**, 148, 2159-2169	2.9	238
259	Production of fungal xylanases. *Bioresource Technology*, **1996**, 58, 137-161	11	234
258	A C4-oxidizing lytic polysaccharide monooxygenase cleaving both cellulose and cello-oligosaccharides. *Journal of Biological Chemistry*, **2014**, 289, 2632-42	5.4	229
257	Enhanced formation of laccase activity by the white-rot fungus Trametes pubescens in the presence of copper. *Applied Microbiology and Biotechnology*, **2001**, 56, 225-32	5.7	221
256	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
255	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
254	Cellobiose dehydrogenase--a flavocytochrome from wood-degrading, phytopathogenic and saprotropic fungi. *Current Protein and Peptide Science*, **2006**, 7, 255-80	2.8	190
253	Production of prebiotic galacto-oligosaccharides from lactose using beta-galactosidases from Lactobacillus reuteri. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 4999-5006	5.7	178
252	Structural basis for cellobiose dehydrogenase action during oxidative cellulose degradation. *Nature Communications*, **2015**, 6, 7542	17.4	153
251	Enzymatic oxygen scavenging for photostability without pH drop in single-molecule experiments. *ACS Nano*, **2012**, 6, 6364-9	16.7	135
250	Purification and characterization of pyranose oxidase from the white rot fungus Trametes multicolor. *Applied and Environmental Microbiology*, **2001**, 67, 3636-44	4.8	129
249	Direct Electron Transfer Between Ligninolytic Redox Enzymes and Electrodes. *Electroanalysis*, **2004** , 16, 1074-1092	3	118
248	A membrane-, mediator-, cofactor-less glucose/oxygen biofuel cell. *Physical Chemistry Chemical Physics*, **2008**, 10, 6093-6	3.6	109
247	Third-generation biosensor for lactose based on newly discovered cellobiose dehydrogenase. *Analytical Chemistry*, **2006**, 78, 393-8	7.8	109
246	Crystal structure of the 270 kDa homotetrameric lignin-degrading enzyme pyranose 2-oxidase. *Journal of Molecular Biology*, **2004**, 341, 781-96	6.5	107

245	Catalytic properties and classification of cellobiose dehydrogenases from ascomycetes. *Applied and Environmental Microbiology*, **2011**, 77, 1804-15	4.8	105
244	Purification and characterization of two novel beta-galactosidases from Lactobacillus reuteri. *Journal of Agricultural and Food Chemistry*, **2006**, 54, 4989-98	5.7	102
243	Purification and characterization of cellobiose dehydrogenase from the plant pathogen Sclerotium (Athelia) rolfsii. *Applied and Environmental Microbiology*, **2001**, 67, 1766-74	4.8	101
242	NAD(P)H-dependent aldose reductase from the xylose-assimilating yeast Candida tenuis. Isolation, characterization and biochemical properties of the enzyme. *Biochemical Journal*, **1997**, 326 (Pt 3), 683-92	3.8	99
241	beta-Galactosidase from Lactobacillus plantarum WCFS1: biochemical characterization and formation of prebiotic galacto-oligosaccharides. *Carbohydrate Research*, **2010**, 345, 1408-16	2.9	97
240	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
239	Direct Electron Transfer at Cellobiose Dehydrogenase Modified Anodes for Biofuel Cells. *Journal of Physical Chemistry C*, **2008**, 112, 9956-9961	3.8	86
238	Selective laccase-mediated oxidation of sugars derivatives. *Green Chemistry*, **2005**, 7, 310	10	86
237	Continuous enzymatic production of xylitol with simultaneous coenzyme regeneration in a charged membrane reactor. *Biotechnology and Bioengineering*, **1996**, 52, 387-96	4.9	85
236	Production of Galacto-oligosaccharides by the □-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
235	Detection of a C4a-hydroperoxyflavin intermediate in the reaction of a flavoprotein oxidase. *Biochemistry*, **2008**, 47, 8485-90	3.2	80
234	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
233	Highly Efficient and Versatile Anodes for Biofuel Cells Based on Cellobiose Dehydrogenase from Myriococcum thermophilum. *Journal of Physical Chemistry C*, **2008**, 112, 13668-13673	3.8	76
232	Ancestral gene fusion in cellobiose dehydrogenases reflects a specific evolution of GMC oxidoreductases in fungi. *Gene*, **2004**, 338, 1-14	3.8	76
231	Mannan biotechnology: from biofuels to health. *Critical Reviews in Biotechnology*, **2016**, 36, 32-42	9.4	75
230	Hydrolysis of isolated coffee mannan and coffee extract by mannanases of Sclerotium rolfsii. *Journal of Biotechnology*, **2000**, 80, 127-34	3.7	72
229	A simple assay for measuring cellobiose dehydrogenase activity in the presence of laccase. *Journal of Microbiological Methods*, **1999**, 35, 253-9	2.8	72
228	Characterization and molecular cloning of a heterodimeric beta-galactosidase from the probiotic strain Lactobacillus acidophilus R22. *FEMS Microbiology Letters*, **2007**, 269, 136-44	2.9	71

227	Structural basis for substrate binding and regioselective oxidation of monosaccharides at C3 by pyranose 2-oxidase. *Journal of Biological Chemistry*, **2006**, 281, 35104-15	5.4	70
226	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
225	Investigation of Graphite Electrodes Modified with Cellobiose Dehydrogenase from the Ascomycete Myriococcum thermophilum. *Electroanalysis*, **2007**, 19, 172-180	3	67
224	Continuous enzymatic regeneration of redox mediators used in biotransformation reactions employing flavoproteins. *Journal of Molecular Catalysis B: Enzymatic*, **2001**, 11, 541-550		67
223	Comparison of direct and mediated electron transfer for cellobiose dehydrogenase from Phanerochaete sordida. *Analytical Chemistry*, **2009**, 81, 2791-8	7.8	64
222	Development of an ultra-high-temperature process for the enzymatic hydrolysis of lactose. I. The properties of two thermostable beta-glycosidases. *Biotechnology and Bioengineering*, **1999**, 64, 322-32	4.9	64
221	Xylanase formation by Sclerotium rolfsii: effect of growth substrates and development of a culture medium using statistically designed experiments. *Applied Microbiology and Biotechnology*, **1994**, 42, 522-530	3.7	63
220	Amperometric Biosensors for Detection of Sugars Based on the Electrical Wiring of Different Pyranose Oxidases and Pyranose Dehydrogenases with Osmium Redox Polymer on Graphite Electrodes. *Electroanalysis*, **2007**, 19, 294-302	3	60
219	Direct electron transfer of cellobiose dehydrogenase from various biological origins at gold and graphite electrodes. *Journal of Electroanalytical Chemistry*, **2001**, 496, 76-81	4.1	60
218	Selection and characterization of mannanase-producing bacteria useful for the formation of prebiotic manno-oligosaccharides from copra meal. *World Journal of Microbiology and Biotechnology*, **2008**, 24, 1425-1433	4.4	59
217	Food-grade gene expression in lactic acid bacteria. *Biotechnology Journal*, **2011**, 6, 1147-61	5.6	58
216	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
215	Continuous Enzymatic Regeneration of Electron Acceptors Used by Flavoenzymes: Cellobiose Dehydrogenase-Catalyzed Production of Lactobionic Acid as an Example. *Biocatalysis and Biotransformation*, **2004**, 22, 97-104	2.5	58
214	From by-product to valuable components: Efficient enzymatic conversion of lactose in whey using □-galactosidase from. *Biochemical Engineering Journal*, **2016**, 116, 45-53	4.2	57
213	Homodimeric □-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
212	Continuous enzymatic production of lactobionic acid using glucose-fructose oxidoreductase in an ultrafiltration membrane reactor. *Biotechnology Letters*, **1997**, 19, 1205-1208	3	57
211	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
210	Purification and characterisation of an intracellular enzyme with beta-glucosidase and beta-galactosidase activity from the thermophilic fungus Talaromyces thermophilus CBS 236.58. *Journal of Biotechnology*, **2006**, 123, 304-13	3.7	56

209	Characterisation of cellobiose dehydrogenases from the white-rot fungi Trametes pubescens and Trametes villosa. *Applied Microbiology and Biotechnology*, **2004**, 64, 213-22	5.7	56
208	Optimization of a culture medium for increased xylanase production by a wild strain of Schizophyllum commune. *Enzyme and Microbial Technology*, **1993**, 15, 854-860	3.8	56
207	Multiplicity of enzymatic functions in the CAZy AA3 family. *Applied Microbiology and Biotechnology*, **2018**, 102, 2477-2492	5.7	55
206	Direct electron transfer--a favorite electron route for cellobiose dehydrogenase (CDH) from Trametes villosa. Comparison with CDH from Phanerochaete chrysosporium. *Langmuir*, **2006**, 22, 10801-6	4	55
205	Identification of the covalent flavin adenine dinucleotide-binding region in pyranose 2-oxidase from Trametes multicolor. *Analytical Biochemistry*, **2003**, 314, 235-42	3.1	54
204	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
203	Cloning, purification, and characterization of □-galactosidase from Bacillus licheniformis DSM 13. *Applied Microbiology and Biotechnology*, **2011**, 89, 645-54	5.7	52
202	Production of a lactose-free galacto-oligosaccharide mixture by using selective enzymatic oxidation of lactose into lactobionic acid. *Enzyme and Microbial Technology*, **2001**, 29, 434-440	3.8	52
201	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
200	Induction of Mannanase, Xylanase, and Endoglucanase Activities in Sclerotium rolfsii. *Applied and Environmental Microbiology*, **1998**, 64, 594-600	4.8	51
199	Beta-galactosidase from Lactobacillus pentosus: purification, characterization and formation of galacto-oligosaccharides. *Biotechnology Journal*, **2010**, 5, 838-47	5.6	50
198	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
197	Characterization of a heterodimeric GH2 □-galactosidase from Lactobacillus sakei Lb790 and formation of prebiotic galacto-oligosaccharides. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 3803-11	5.7	48
196	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
195	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
194	Biodegradation of tetrabromobisphenol A by oxidases in basidiomycetous fungi and estrogenic activity of the biotransformation products. *Bioresource Technology*, **2011**, 102, 9409-15	11	47
193	Kinetic mechanism of pyranose 2-oxidase from trametes multicolor. *Biochemistry*, **2009**, 48, 4170-80	3.2	47
192	Enhanced formation of extracellular laccase activity by the white-rot fungus Trametes multicolor. *Applied Biochemistry and Biotechnology*, **2002**, 98-100, 229-41	3.2	47

191	Electrochemical investigation of cellobiose dehydrogenase from new fungal sources on Au electrodes. *Biosensors and Bioelectronics*, **2005**, 20, 2010-8	11.8	47
190	Structural and functional properties of a yeast xylitol dehydrogenase, a Zn2+-containing metalloenzyme similar to medium-chain sorbitol dehydrogenases. *Biochemical Journal*, **1998**, 336 (Pt 1), 91-9	3.8	47
189	Production of lactose-free galacto-oligosaccharide mixtures: comparison of two cellobiose dehydrogenases for the selective oxidation of lactose to lactobionic acid. *Carbohydrate Research*, **2008**, 343, 2140-7	2.9	45
188	Comparison between discontinuous and continuous lactose conversion processes for the production of prebiotic galacto-oligosaccharides using beta-galactosidase from Lactobacillus reuteri. *Journal of Agricultural and Food Chemistry*, **2007**, 55, 6772-7	5.7	44
187	The Cetus Process Revisited: A Novel Enzymatic Alternative for the Production of Aldose-Free D-Fructose. *Biocatalysis and Biotransformation*, **1998**, 16, 365-382	2.5	44
186	alpha-1,4-D-glucan phosphorylase of gram-positive Corynebacterium callunae: isolation, biochemical properties and molecular shape of the enzyme from solution X-ray scattering. *Biochemical Journal*, **1997**, 326 (Pt 3), 773-83	3.8	43
185	Bubble-free oxygenation of a bi-enzymatic system: effect on biocatalyst stability. *Biotechnology and Bioengineering*, **2009**, 102, 122-31	4.9	42
184	Cloning and expression of the beta-galactosidase genes from Lactobacillus reuteri in Escherichia coli. *Journal of Biotechnology*, **2007**, 129, 581-91	3.7	42
183	Fractionation of a galacto-oligosaccharides solution at low and high temperature using nanofiltration. *Separation and Purification Technology*, **2015**, 151, 124-130	8.3	41
182	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
181	Nature and biosynthesis of galacto-oligosaccharides related to oligosaccharides in human breast milk. *FEMS Microbiology Letters*, **2014**, 353, 89-97	2.9	41
180	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
179	Cellobiose dehydrogenase from the ligninolytic basidiomycete Ceriporiopsis subvermispora. *Applied and Environmental Microbiology*, **2009**, 75, 2750-7	4.8	40
178	Mode of depolymerisation of hemicellulose by various mannanases and xylanases in relation to their ability to bleach softwood pulp. *Applied Microbiology and Biotechnology*, **1997**, 47, 658-662	5.7	40
177	Process development for the production of prebiotic galacto-oligosaccharides from lactose using beta-galactosidase from Lactobacillus sp. *Biotechnology Journal*, **2007**, 2, 480-5	5.6	40
176	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
175	Formation of xylanase by Schizophyllum commune: Effect of medium components. *Enzyme and Microbial Technology*, **1994**, 16, 229-235	3.8	39
174	The GMC superfamily of oxidoreductases revisited: analysis and evolution of fungal GMC oxidoreductases. *Biotechnology for Biofuels*, **2019**, 12, 118	7.8	38

173	Production of a novel pyranose 2-0xidase by basidiomyceteTrametes multicolor. *Applied Biochemistry and Biotechnology*, **1998**, 70-72, 237-248	3.2	38
172	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
171	A pH-controlled fed-batch process can overcome inhibition by formate in NADH-dependent enzymatic reductions using formate dehydrogenase-catalyzed coenzyme regeneration. *Biotechnology and Bioengineering*, **1998**, 60, 277-82	4.9	37
170	Screening of basidiomycete fungi for the quinone-dependent sugar C-2/C-3 oxidoreductase, pyranose dehydrogenase, and properties of the enzyme from Macrolepiota rhacodes. *Archives of Microbiology*, **2001**, 176, 178-86	3	36
169	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
168	Heterologous overexpression of Glomerella cingulata FAD-dependent glucose dehydrogenase in Escherichia coli and Pichia pastoris. *Microbial Cell Factories*, **2011**, 10, 106	6.4	35
167	Trehalose phosphorylase from Pichia fermentans and its role in the metabolism of trehalose. *Applied Microbiology and Biotechnology*, **1995**, 43, 1088-1095	5.7	35
166	A biocatalytic cascade reaction sensitive to the gas quid interface: Modeling and upscaling in a dynamic membrane aeration reactor. *Journal of Molecular Catalysis B: Enzymatic*, **2011**, 68, 154-161		34
165	Properties of pyranose dehydrogenase purified from the litter-degrading fungus Agaricus xanthoderma. *FEBS Journal*, **2007**, 274, 879-94	5.7	34
164	New biotransformations of some reducing sugars to the corresponding (di)dehydro(glycosyl) aldoses or aldonic acids using fungal pyranose dehydrogenase. *Journal of Molecular Catalysis B: Enzymatic*, **2006**, 41, 32-42		34
163	Noncovalent enzyme-substrate interactions in the catalytic mechanism of yeast aldose reductase. *Biochemistry*, **1998**, 37, 1116-23	3.2	34
162	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
161	Pyranose 2-oxidase from Phanerochaete chrysosporium--expression in E. coli and biochemical characterization. *Journal of Biotechnology*, **2009**, 142, 97-106	3.7	32
160	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
159	A convenient enzymatic procedure for the production of aldose-free D-tagatose. *Annals of the New York Academy of Sciences*, **1998**, 864, 295-9	6.5	31
158	Exploitation of a Laccase/Meldola Blue System for NAD+ Regeneration in Preparative Scale Hydroxysteroid Dehydrogenase-Catalyzed Oxidations. *Advanced Synthesis and Catalysis*, **2012**, 354, 2821-2828	5.6	30
157	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
156	Induction of aldose reductase and xylitol dehydrogenase activities in Candida tenuis CBS 4435. *FEMS Microbiology Letters*, **1997**, 149, 31-7	2.9	29

155	Enzymatic Production of Pure D-Mannitol at High Productivity. *Biocatalysis and Biotransformation*, **1998**, 16, 351-363	2.5	29
154	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
153	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	3.5	28
152	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
151	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
150	Molecular cloning of three pyranose dehydrogenase-encoding genes from Agaricus meleagris and analysis of their expression by real-time RT-PCR. *Current Genetics*, **2008**, 53, 117-27	2.9	28
149	Simple and efficient expression of Agaricus meleagris pyranose dehydrogenase in Pichia pastoris. *Applied Microbiology and Biotechnology*, **2012**, 94, 695-704	5.7	27
148	Importance of the gating segment in the substrate-recognition loop of pyranose 2-oxidase. *FEBS Journal*, **2010**, 277, 2892-909	5.7	27
147	□-Galactosidase from Talaromyces thermophilus immobilized on to Eupergit C for production of galacto-oligosaccharides during lactose hydrolysis in batch and packed-bed reactor. *World Journal of Microbiology and Biotechnology*, **2007**, 23, 759-764	4.4	27
146	Properties of neutral cellobiose dehydrogenase from the ascomycete Chaetomium sp. INBI 2-26(-) and comparison with basidiomycetous cellobiose dehydrogenases. *Journal of Biotechnology*, **2006**, 121, 34-48	3.7	27
145	Chitinase from Bacillus licheniformis DSM13: expression in Lactobacillus plantarum WCFS1 and biochemical characterisation. *Protein Expression and Purification*, **2012**, 81, 166-74	2	26
144	A Direct Electron Transfer-Based Glucose/Oxygen Biofuel Cell Operating in Human Serum. *Fuel Cells*, **2009**, 10, NA-NA	2.9	26
143	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
142	Cloning, secretory expression and characterization of recombinant □-mannanase from Bacillus circulans NT 6.7. *SpringerPlus*, **2014**, 3, 430		25
141	C-3 oxidation of non-reducing sugars by a fungal pyranose dehydrogenase: spectral characterization. *Journal of Molecular Catalysis B: Enzymatic*, **2002**, 17, 91-100		25
140	Heterologous expression of a recombinant lactobacillal □-galactosidase in Lactobacillus plantarum: effect of different parameters on the sakacin P-based expression system. *Microbial Cell Factories*, **2015**, 14, 30	6.4	24
139	Expression, purification, and characterization of galactose oxidase of Fusarium sambucinum in E. coli. *Protein Expression and Purification*, **2015**, 108, 73-79	2	24
138	Production of hemicellulose- and cellulose-degrading enzymes by various strains of Sclerotium rolfsii. *Applied Biochemistry and Biotechnology*, **1997**, 63-65, 189-201	3.2	24

137	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
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135	Glutamate Decarboxylase from Lactic Acid Bacteria-A Key Enzyme in GABA Synthesis. *Microorganisms*, **2020**, 8,	4.9	24
134	CS3, a New GABA-Producing Strain Isolated from Thai Fermented Shrimp (-). *Indian Journal of Microbiology*, **2017**, 57, 211-217	3.7	23
133	Studies of the chemoenzymatic modification of cellulosic pulps by the laccase-TEMPO system. *Holzforschung*, **2011**, 65,	2	23
132	Purification and characterization of a laccase from the white-rot fungus Trametes multicolor. *Applied Biochemistry and Biotechnology*, **2002**, 98-100, 497-507	3.2	23
131	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
130	Lactose hydrolysis and formation of galactooligosaccharides by a novel immobilized beta-galactosidase from the thermophilic fungus Talaromyces thermophilus. *Applied Biochemistry and Biotechnology*, **2006**, 129-132, 215-25	3.2	22
129	Display of a □-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
128	Purification of l-(+)-lactic acid from pre-treated fermentation broth using vapor permeation-assisted esterification. *Process Biochemistry*, **2012**, 47, 1948-1956	4.8	21
127	Improvement of direct bioelectrocatalysis by cellobiose dehydrogenase on screen printed graphite electrodes using polyaniline modification. *Bioelectrochemistry*, **2009**, 76, 87-92	5.6	21
126	Optimisation of cellobiose dehydrogenase production by the fungus Sclerotium (Athelia) rolfsii. *Applied Microbiology and Biotechnology*, **2003**, 61, 32-9	5.7	21
125	OmpA signal peptide leads to heterogenous secretion of B. subtilis chitosanase enzyme from E. coli expression system. *SpringerPlus*, **2016**, 5, 1200		21
124	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
123	Engineering a thermostable Halothermothrix orenii □-glucosidase for improved galacto-oligosaccharide synthesis. *Applied Microbiology and Biotechnology*, **2016**, 100, 3533-43	5.7	20
122	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
121	Cellulolytic and hemicellulolytic enzymes of sclerotium rolfsii: Optimization of the culture medium and enzymatic hydrolysis of lignocellulosic material. *Bioresource Technology*, **1994**, 50, 43-50	11	20
120	Engineering an enzymatic regeneration system for NAD(P)H oxidation. *Journal of Molecular Catalysis B: Enzymatic*, **2015**, 120, 38-46		19

119	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
118	Conversion of lactose to □-d-galactopyranosyl-(1 -4)-d-arabino-hexos-2-ulose-(2-dehydrolactose) and lactobiono-1,5-lactone by fungal pyranose dehydrogenase. *Journal of Molecular Catalysis B: Enzymatic*, **2004**, 30, 177-184		19
117	Technological and safety properties of newly isolated GABA-producing Lactobacillus futsaii strains. *Journal of Applied Microbiology*, **2016**, 121, 734-45	4.7	18
116	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
115	Improved operational stability of cell-free glucose-fructose oxidoreductase from Zymomonas mobilis for the efficient synthesis of sorbitol and gluconic acid in a continuous ultrafiltration membrane reactor. *Biotechnology and Bioengineering*, **1997**, 53, 623-9	4.9	18
114	Formation of galacto-oligosaccharides during lactose hydrolysis by a novel beta-galactosidase from the moderately thermophilic fungus Talaromyces thermophilus. *Biotechnology Journal*, **2006**, 1, 633-8	5.6	18
113	Simultaneous Enzymatic Synthesis of Mannitol and Gluconic Acid: II. Development of a Continuous Process for a Coupled Nad(H)-Dependent Enzyme System. *Biocatalysis and Biotransformation*, **1996**, 14, 47-65	2.5	18
112	Direct Heterogeneous Electron Transfer Reactions of Bacillus halodurans Bacterial Blue Multicopper Oxidase. *Electroanalysis*, **2008**, 20, 963-969	3	17
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