

Willem Heber van Zyl

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11,334
ext. citations

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#	Paper	IF	Citations
174	Microbial cellulose utilization: fundamentals and biotechnology. <i>Microbiology and Molecular Biology Reviews</i> , 2002 , 66, 506-77, table of contents	13.2	3094
173	Consolidated bioprocessing of cellulosic biomass: an update. <i>Current Opinion in Biotechnology</i> , 2005 , 16, 577-83	11.4	1103
172	Deletion of the GRE3 aldose reductase gene and its influence on xylose metabolism in recombinant strains of <i>Saccharomyces cerevisiae</i> expressing the xylA and XKS1 genes. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 5668-74	4.8	319
171	Hydrolysis and fermentation of amorphous cellulose by recombinant <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2007 , 9, 87-94	9.7	203
170	Degradation of aflatoxin B(1) by fungal laccase enzymes. <i>International Journal of Food Microbiology</i> , 2009 , 135, 47-52	5.8	178
169	Biological degradation of aflatoxin B1 by <i>Rhodococcus erythropolis</i> cultures. <i>International Journal of Food Microbiology</i> , 2006 , 109, 121-6	5.8	165
168	Degradation of aflatoxin B(1) by cell-free extracts of <i>Rhodococcus erythropolis</i> and <i>Mycobacterium fluoranthenivorans</i> sp. nov. DSM44556(T). <i>International Journal of Food Microbiology</i> , 2005 , 105, 111-7	5.8	164
167	Role of cultivation media in the development of yeast strains for large scale industrial use. <i>Microbial Cell Factories</i> , 2005 , 4, 31	6.4	142
166	Fungal β mannanases: Mannan hydrolysis, heterologous production and biotechnological applications. <i>Process Biochemistry</i> , 2010 , 45, 1203-1213	4.8	139
165	Consolidated bioprocessing for bioethanol production using <i>Saccharomyces cerevisiae</i> . <i>Advances in Biochemical Engineering/Biotechnology</i> , 2007 , 108, 205-35	1.7	127
164	Progress and challenges in the engineering of non-cellulolytic microorganisms for consolidated bioprocessing. <i>Current Opinion in Biotechnology</i> , 2015 , 33, 32-8	11.4	119
163	High level secretion of cellobiohydrolases by <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2011 , 4, 30	7.8	119
162	Engineering cellulolytic ability into bioprocessing organisms. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 1195-208	5.7	119
161	Generation of the improved recombinant xylose-utilizing <i>Saccharomyces cerevisiae</i> TMB 3400 by random mutagenesis and physiological comparison with <i>Pichia stipitis</i> CBS 6054. <i>FEMS Yeast Research</i> , 2003 , 3, 319-26	3.1	117
160	Expression of a <i>Trichoderma reesei</i> beta-xylanase gene (XYN2) in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 1996 , 62, 1036-44	4.8	110
159	Degradation of xylan to D-xylose by recombinant <i>Saccharomyces cerevisiae</i> coexpressing the <i>Aspergillus niger</i> beta-xylosidase (xlnD) and the <i>Trichoderma reesei</i> xylanase II (xyn2) genes. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 5512-9	4.8	108
158	Construction of cellobiose-growing and fermenting <i>Saccharomyces cerevisiae</i> strains. <i>Journal of Biotechnology</i> , 2005 , 120, 284-95	3.7	97

157	Molecular analysis of a <i>Saccharomyces cerevisiae</i> mutant with improved ability to utilize xylose shows enhanced expression of proteins involved in transport, initial xylose metabolism, and the pentose phosphate pathway. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 740-6	4.8	96
156	Characterization and heterologous expression of a class IIa bacteriocin, plantaricin 423 from <i>Lactobacillus plantarum</i> 423, in <i>Saccharomyces cerevisiae</i> . <i>International Journal of Food Microbiology</i> , 2003 , 81, 29-40	5.8	93
155	Functional expression of cellobiohydrolases in <i>Saccharomyces cerevisiae</i> towards one-step conversion of cellulose to ethanol. <i>Enzyme and Microbial Technology</i> , 2007 , 40, 1291-1299	3.8	86
154	Metabolic engineering of <i>Saccharomyces cerevisiae</i> for xylose utilization. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2001 , 73, 53-84	1.7	86
153	Engineering yeast for efficient cellulose degradation. <i>Yeast</i> , 1998 , 14, 67-76	3.4	83
152	The metabolic burden of the PGK1 and ADH2 promoter systems for heterologous xylanase production by <i>Saccharomyces cerevisiae</i> in defined medium. <i>Biotechnology and Bioengineering</i> , 2001 , 73, 238-45	4.9	78
151	Microbial Cellulose Utilization: Fundamentals and Biotechnology. <i>Microbiology and Molecular Biology Reviews</i> , 2002 , 66, 739-739	13.2	75
150	Engineering yeasts for raw starch conversion. <i>Applied Microbiology and Biotechnology</i> , 2012 , 95, 1377-88	5.7	69
149	Cloning and expression of the <i>Clostridium thermosulfurogenes</i> D-xylose isomerase gene (xyLA) in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 1996 , 18, 269-274	3	59
148	Cloning and expression of an <i>Aspergillus kawachii</i> endo-1,4-beta-xylanase gene in <i>Saccharomyces cerevisiae</i> . <i>Current Genetics</i> , 1995 , 28, 467-73	2.9	57
147	A novel family of hemicellulolytic alpha-glucuronidase. <i>FEBS Letters</i> , 2009 , 583, 1457-62	3.8	55
146	Consolidated bioprocessing of starchy substrates into ethanol by industrial <i>Saccharomyces cerevisiae</i> strains secreting fungal amylases. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1751-60	4.9	54
145	Co-expression of a cellobiose phosphorylase and lactose permease enables intracellular cellobiose utilisation by <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 1373-80	5.7	54
144	Exploring industrial and natural strains for the bio-based economy from biomass: the case of bioethanol. <i>Critical Reviews in Biotechnology</i> , 2019 , 39, 800-816	9.4	53
143	Utilisation of wheat bran as a substrate for bioethanol production using recombinant cellulases and amylolytic yeast. <i>Applied Energy</i> , 2015 , 160, 610-617	10.7	53
142	Exploring grape marc as trove for new thermotolerant and inhibitor-tolerant <i>Saccharomyces cerevisiae</i> strains for second-generation bioethanol production. <i>Biotechnology for Biofuels</i> , 2013 , 6, 168	7.8	50
141	The metabolic burden of cellulase expression by recombinant <i>Saccharomyces cerevisiae</i> Y294 in aerobic batch culture. <i>Applied Microbiology and Biotechnology</i> , 2012 , 96, 197-209	5.7	50
140	Expression of the <i>Aspergillus aculeatus</i> endo-beta-1,4-mannanase encoding gene (man1) in <i>Saccharomyces cerevisiae</i> and characterization of the recombinant enzyme. <i>Protein Expression and Purification</i> , 2001 , 21, 105-14	2	49

139	Cold adaptation of xylose isomerase from <i>Thermus thermophilus</i> through random PCR mutagenesis. Gene cloning and protein characterization. <i>FEBS Journal</i> , 2002 , 269, 157-63		48
138	Amino acid supplementation improves heterologous protein production by <i>Saccharomyces cerevisiae</i> in defined medium. <i>Applied Microbiology and Biotechnology</i> , 2005 , 67, 684-91	5.7	48
137	Overexpression of native PSE1 and SOD1 in <i>Saccharomyces cerevisiae</i> improved heterologous cellulase secretion. <i>Applied Energy</i> , 2013 , 102, 150-156	10.7	47
136	Biologically Based Methods for Control of Fumonisin-Producing <i>Fusarium</i> Species and Reduction of the Fumonisins. <i>Frontiers in Microbiology</i> , 2016 , 7, 548	5.7	46
135	Cellobiohydrolase secretion by yeast: Current state and prospects for improvement. <i>Process Biochemistry</i> , 2013 , 48, 1-12	4.8	45
134	Heterologous expression of a <i>Clostridium</i> minicellulosome in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2009 , 9, 1236-49	3.1	45
133	Lignocellulosic hydrolysate inhibitors selectively inhibit/deactivate cellulase performance. <i>Enzyme and Microbial Technology</i> , 2015 , 81, 16-22	3.8	43
132	Combined cell-surface display- and secretion-based strategies for production of cellulosic ethanol with <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2015 , 8, 162	7.8	43
131	Using an efficient fermenting yeast enhances ethanol production from unfiltered wheat bran hydrolysates. <i>Applied Energy</i> , 2013 , 102, 170-178	10.7	43
130	Raw starch conversion by <i>Saccharomyces cerevisiae</i> expressing <i>Aspergillus tubingensis</i> amylases. <i>Biotechnology for Biofuels</i> , 2013 , 6, 167	7.8	42
129	Constitutive expression of the <i>Trichoderma reesei</i> beta-1,4-xylanase gene (<i>xyn2</i>) and the beta-1,4-endoglucanase gene (<i>egl</i>) in <i>Aspergillus niger</i> in molasses and defined glucose media. <i>Applied Microbiology and Biotechnology</i> , 2002 , 58, 461-8	5.7	42
128	A general screen for mutant of <i>Saccharomyces cerevisiae</i> deficient in tRNA biosynthesis. <i>Genetics</i> , 1989 , 123, 55-68	4	42
127	Bioenergy and African transformation. <i>Biotechnology for Biofuels</i> , 2015 , 8, 18	7.8	41
126	Cellulase production from spent lignocellulose hydrolysates by recombinant <i>Aspergillus niger</i> . <i>Applied and Environmental Microbiology</i> , 2009 , 75, 2366-74	4.8	41
125	Cloning of the <i>Bacillus pumilus</i> beta-xylosidase gene (<i>xynB</i>) and its expression in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 1997 , 47, 262-6	5.7	41
124	A chromogenic substrate for a beta-xylosidase-coupled assay of alpha-glucuronidase. <i>Analytical Biochemistry</i> , 2000 , 286, 289-94	3.1	41
123	Cloning and expression of the alpha-L-arabinofuranosidase gene (ABF2) of <i>Aspergillus niger</i> in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 1996 , 46, 256-60	5.7	41
122	Production of bioethanol from multiple waste streams of rice milling. <i>Bioresource Technology</i> , 2017 , 244, 151-159	11	40

121	Co-expression of a Phanerochaete chrysosporium cellobiohydrolase gene and a Butyrivibrio fibrisolvens endo-beta-1,4-glucanase gene in Saccharomyces cerevisiae. <i>Current Genetics</i> , 1996 , 30, 246-50 ^{2,9}	40
120	Over-expression of the Saccharomyces cerevisiae exo-beta-1,3-glucanase gene together with the Bacillus subtilis endo-beta-1,3-1,4-glucanase gene and the Butyrivibrio fibrisolvens endo-beta-1,4-glucanase gene in yeast. <i>Journal of Biotechnology</i> , 1997 , 55, 43-53	3.7 39
119	Heterologous expression of Trametes versicolor laccase in Pichia pastoris and Aspergillus niger. <i>Applied Biochemistry and Biotechnology</i> , 2006 , 129, 195-214	3.2 39
118	A Study of the cellulases produced by three mesophilic actinomycetes grown on bagasse as substrate. <i>Biotechnology and Bioengineering</i> , 1985 , 27, 1367-73	4.9 39
117	Engineering Saccharomyces cerevisiae for next generation ethanol production. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 983-991	3.5 38
116	Consolidated bioprocessing of raw starch to ethanol by Saccharomyces cerevisiae: Achievements and challenges. <i>Biotechnology Advances</i> , 2020 , 42, 107579	17.8 36
115	Expression of the Butyrivibrio fibrisolvens endo-beta-1,4-glucanase gene together with the Erwinia pectate lyase and polygalacturonase genes in Saccharomyces cerevisiae. <i>Current Genetics</i> , 1994 , 27, 17-22 ⁹	36
114	Next-generation cellulosic ethanol technologies and their contribution to a sustainable Africa. <i>Interface Focus</i> , 2011 , 1, 196-211	3.9 35
113	Exploring improved endoglucanase expression in Saccharomyces cerevisiae strains. <i>Applied Microbiology and Biotechnology</i> , 2010 , 86, 1503-11	5.7 35
112	Engineering of a novel cellulose-adherent cellulolytic Saccharomyces cerevisiae for cellulosic biofuel production. <i>Scientific Reports</i> , 2016 , 6, 24550	4.9 34
111	Studies of the extracellular glycocalyx of the anaerobic cellulolytic bacterium Ruminococcus albus 7. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 7559-66	4.8 34
110	Enhanced xylan degradation and utilisation by Pichia stipitis overproducing fungal xylanolytic enzymes. <i>Enzyme and Microbial Technology</i> , 2003 , 33, 620-628	3.8 34
109	In situ enzymatic aided formation of xylan hydrogels and encapsulation of horse radish peroxidase for slow release. <i>Carbohydrate Polymers</i> , 2012 , 88, 1109-1117	10.3 33
108	A kinetic model for simultaneous saccharification and fermentation of Avicel with Saccharomyces cerevisiae. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 924-33	4.9 33
107	Expression of the immunity protein of plantaricin 423, produced by Lactobacillus plantarum 423, and analysis of the plasmid encoding the bacteriocin. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 7644-51	4.8 33
106	Heterologous expression of cellulase genes in natural Saccharomyces cerevisiae strains. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8241-54	5.7 33
105	Improvement of ethanol production from crystalline cellulose via optimizing cellulase ratios in cellulolytic Saccharomyces cerevisiae. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 1201-1207	4.9 32
104	Codon-optimized glucoamylase sGAI of Aspergillus awamori improves starch utilization in an industrial yeast. <i>Applied Microbiology and Biotechnology</i> , 2012 , 95, 957-68	5.7 32

103	Cloning of two Xylanase-encoding genes from <i>Aspergillus niger</i> and their expression in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 1997 , 19, 411-415	3	31
102	Xylose isomerase activity influences xylose fermentation with recombinant <i>Saccharomyces cerevisiae</i> strains expressing mutated xylA from <i>Thermus thermophilus</i> . <i>Enzyme and Microbial Technology</i> , 2003 , 32, 567-573	3.8	31
101	TPD1 of <i>Saccharomyces cerevisiae</i> encodes a protein phosphatase 2C-like activity implicated in tRNA splicing and cell separation. <i>Molecular and Cellular Biology</i> , 1994 , 14, 3634-3645	4.8	31
100	Designing industrial yeasts for the consolidated bioprocessing of starchy biomass to ethanol. <i>Bioengineered</i> , 2013 , 4, 97-102	5.7	30
99	Utilization of cellobiose by recombinant β -glucosidase-expressing strains of <i>Saccharomyces cerevisiae</i> : characterization and evaluation of the sufficiency of expression. <i>Enzyme and Microbial Technology</i> , 2005 , 37, 93-101	3.8	30
98	Xylitol production by recombinant <i>Saccharomyces cerevisiae</i> expressing the <i>Pichia stipitis</i> and <i>Candida shehatae</i> XYL1 genes. <i>Applied Microbiology and Biotechnology</i> , 2001 , 55, 76-80	5.7	30
97	Construction of industrial strains for the efficient consolidated bioprocessing of raw starch. <i>Biotechnology for Biofuels</i> , 2019 , 12, 201	7.8	29
96	Enzymatic hydrolysis of spent coffee ground. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 169, 2248-63.2		29
95	Fungal β -glucosidase expression in <i>Saccharomyces cerevisiae</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012 , 39, 1445-52	4.2	29
94	Production of the <i>Aspergillus aculeatus</i> endo-1,4-beta-mannanase in <i>A. niger</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009 , 36, 611-7	4.2	29
93	Characterization of a family 54 alpha-L-arabinofuranosidase from <i>Aureobasidium pullulans</i> . <i>Applied Microbiology and Biotechnology</i> , 2008 , 77, 975-83	5.7	29
92	Amino acid supplementation, controlled oxygen limitation and sequential double induction improves heterologous xylanase production by <i>Pichia stipitis</i> . <i>FEMS Yeast Research</i> , 2005 , 5, 677-83	3.1	29
91	Overexpression of native <i>Saccharomyces cerevisiae</i> ER-to-Golgi SNARE genes increased heterologous cellulase secretion. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 505-18	5.7	27
90	Over-expression of native <i>Saccharomyces cerevisiae</i> exocytic SNARE genes increased heterologous cellulase secretion. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5567-78	5.7	27
89	Differentiation of feruloyl esterases on synthetic substrates in alpha-arabinofuranosidase-coupled and ultraviolet-spectrophotometric assays. <i>Analytical Biochemistry</i> , 2002 , 311, 68-75	3.1	27
88	Differential expression of the <i>Trichoderma reesei</i> beta-xylanase II (xyn2) gene in the xylose-fermenting yeast <i>Pichia stipitis</i> . <i>Applied Microbiology and Biotechnology</i> , 2001 , 57, 521-7	5.7	27
87	Characterization of the <i>Aureobasidium pullulans</i> β -glucuronidase expressed in <i>Saccharomyces cerevisiae</i> . <i>Enzyme and Microbial Technology</i> , 2006 , 38, 649-656	3.8	24
86	Coexpression of the <i>Bacillus pumilus</i> beta-xylosidase (xynB) gene with the <i>Trichoderma reesei</i> beta xylanase 2 (xyn2) gene in the yeast <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2000 , 54, 195-200	5.7	24

85	A global conversation about energy from biomass: the continental conventions of the global sustainable bioenergy project. <i>Interface Focus</i> , 2011 , 1, 271-9	3.9	23
84	Xylose utilisation by recombinant strains of <i>Saccharomyces cerevisiae</i> on different carbon sources. <i>Applied Microbiology and Biotechnology</i> , 1999 , 52, 829-33	5.7	23
83	Overcoming lignocellulose-derived microbial inhibitors: advancing the <i>Saccharomyces cerevisiae</i> resistance toolbox. <i>Biofuels, Bioproducts and Biorefining</i> , 2019 , 13, 1520-1536	5.3	22
82	Application of industrial amylolytic yeast strains for the production of bioethanol from broken rice. <i>Bioresource Technology</i> , 2019 , 294, 122222	11	22
81	Enzyme-coupled assay of acetylxyylan esterases on monoacetylated 4-nitrophenyl beta-D-xylopyranosides. <i>Analytical Biochemistry</i> , 2004 , 332, 109-15	3.1	22
80	Microbial lignin peroxidases: Applications, production challenges and future perspectives. <i>Enzyme and Microbial Technology</i> , 2020 , 141, 109669	3.8	22
79	Production of ethanol from steam exploded triticale straw in a simultaneous saccharification and fermentation process. <i>Process Biochemistry</i> , 2017 , 53, 10-16	4.8	20
78	Comparison of three expression systems for heterologous xylanase production by <i>S. cerevisiae</i> in defined medium. <i>Yeast</i> , 2004 , 21, 1205-17	3.4	20
77	Differential uptake of fumarate by <i>Candida utilis</i> and <i>Schizosaccharomyces pombe</i> . <i>Applied Microbiology and Biotechnology</i> , 2000 , 54, 792-8	5.7	20
76	Isolation, characterization and enzymatic modification of water soluble xylans from <i>Eucalyptus grandis</i> wood and sugarcane bagasse. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 1419-1429	3.5	19
75	Expression of unique chimeric human papilloma virus type 16 (HPV-16) L1-L2 proteins in <i>Pichia pastoris</i> and <i>Hansenula polymorpha</i> . <i>Yeast</i> , 2018 , 35, 519-529	3.4	18
74	Rational strain engineering interventions to enhance cellulase secretion by <i>Saccharomyces cerevisiae</i> . <i>Biofuels, Bioproducts and Biorefining</i> , 2018 , 12, 108-124	5.3	18
73	Expression and evaluation of enzymes required for the hydrolysis of galactomannan. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014 , 41, 1201-9	4.2	18
72	Evaluation of <i>Aspergillus niger</i> as host for virus-like particle production, using the hepatitis B surface antigen as a model. <i>Current Genetics</i> , 2003 , 43, 439-46	2.9	18
71	Heterologous expression of the <i>Bacillus pumilus</i> endo-beta-xylanase (<i>xynA</i>) gene in the yeast <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2001 , 56, 431-4	5.7	18
70	Fruit waste streams in South Africa and their potential role in developing a bio-economy. <i>South African Journal of Science</i> , 2015 , 111,	1.3	16
69	Heterologous co-production of <i>Thermobifida fusca</i> Cel9A with other cellulases in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 1813-20	5.7	16
68	Modeling the minimum enzymatic requirements for optimal cellulose conversion. <i>Environmental Research Letters</i> , 2013 , 8, 025013	6.2	15

67	Enhancement of Rooibos (<i>Aspalathus linearis</i>) aqueous extract and antioxidant yield with fungal enzymes. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 4047-53	5.7	15
66	Novel strategy for anchorage position control of GPI-attached proteins in the yeast cell wall using different GPI-anchoring domains. <i>Metabolic Engineering</i> , 2020 , 57, 110-117	9.7	15
65	The production of eicosapentaenoic acid by representatives of the genus <i>Mortierella</i> grown on brewers spent grain. <i>Biologia (Poland)</i> , 2009 , 64, 871-876	1.5	14
64	Delineation of <i>Cylindrocladium</i> species with 1-3-septate conidia and clavate vesicles based on morphology and rDNA RFLPs. <i>Mycological Research</i> , 1997 , 101, 210-214		14
63	Development of a polysaccharide degrading strain of <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 1998 , 12, 615-619		14
62	Exploitation of for the Heterologous Production of Cellulases and Hemicellulases. <i>Open Biotechnology Journal</i> , 2008 , 2, 167-175	2	14
61	Biorefining of wood: combined production of ethanol and xylanase from waste fiber sludge. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2011 , 38, 891-9	4.2	13
60	Mating of natural <i>Saccharomyces cerevisiae</i> strains for improved glucose fermentation and lignocellulosic inhibitor tolerance. <i>Folia Microbiologica</i> , 2018 , 63, 155-168	2.8	13
59	Expression of rotavirus VP6 protein: a comparison amongst <i>Escherichia coli</i> , <i>Pichia pastoris</i> and <i>Hansenula polymorpha</i> . <i>FEMS Yeast Research</i> , 2016 , 16, fow001	3.1	12
58	Strain Breeding Enhanced Heterologous Cellobiohydrolase Secretion by <i>Saccharomyces cerevisiae</i> in a Protein Specific Manner. <i>Biotechnology Journal</i> , 2017 , 12, 1700346	5.6	12
57	New species of <i>Calonectria</i> and <i>Cylindrocladium</i> isolated from soil in the tropics. <i>Mycologia</i> , 1997 , 89, 653-660	2.4	12
56	Comparing laboratory and industrial yeast platforms for the direct conversion of cellobiose into ethanol under simulated industrial conditions. <i>FEMS Yeast Research</i> , 2019 , 19,	3.1	12
55	Engineering of <i>Saccharomyces cerevisiae</i> to utilize xylan as a sole carbohydrate source by co-expression of an endoxylanase, xylosidase and a bacterial xylose isomerase. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016 , 43, 431-40	4.2	11
54	Production of cellulosic ethanol and enzyme from waste fiber sludge using SSF, recycling of hydrolytic enzymes and yeast, and recombinant cellulase-producing <i>Aspergillus niger</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014 , 41, 1191-200	4.2	11
53	Quantitative metabolomics of a xylose-utilizing <i>Saccharomyces cerevisiae</i> strain expressing the <i>Bacteroides thetaiotaomicron</i> xylose isomerase on glucose and xylose. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 1459-1470	4.2	11
52	Production and characterisation of recombinant β -arabinofuranosidase for production of xylan hydrogels. <i>Applied Microbiology and Biotechnology</i> , 2012 , 95, 101-12	5.7	11
51	Effects of a fungal enzyme cocktail treatment of high and low forage diets on lamb growth. <i>Animal Feed Science and Technology</i> , 2008 , 145, 151-158	3	11
50	Theoretical analysis of selection-based strain improvement for microorganisms with growth dependent upon extracytoplasmic enzymes. <i>Biotechnology and Bioengineering</i> , 2005 , 92, 35-44	4.9	11

49	Improved cellulase expression in diploid yeast strains enhanced consolidated bioprocessing of pretreated corn residues. <i>Enzyme and Microbial Technology</i> , 2019 , 131, 109382	3.8	10
48	Improved raw starch amylase production by <i>Saccharomyces cerevisiae</i> using codon optimisation strategies. <i>FEMS Yeast Research</i> , 2019 , 19,	3.1	10
47	Identification of superior cellulase secretion phenotypes in haploids derived from natural <i>Saccharomyces cerevisiae</i> isolates. <i>FEMS Yeast Research</i> , 2019 , 19,	3.1	10
46	Expression and comparison of codon optimised <i>Aspergillus tubingensis</i> amylase variants in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2017 , 17,	3.1	9
45	Synergistic codon optimization and bioreactor cultivation toward enhanced secretion of fungal lignin peroxidase in <i>Pichia pastoris</i> : Enzymatic valorization of technical (industrial) lignins. <i>Enzyme and Microbial Technology</i> , 2020 , 139, 109593	3.8	9
44	Exploiting strain diversity and rational engineering strategies to enhance recombinant cellulase secretion by <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 5163-5184	5.7	9
43	The lignicolous fungus <i>Coniochaeta pulveracea</i> and its interactions with syntrophic yeasts from the woody phylloplane. <i>Microbial Ecology</i> , 2011 , 62, 609-19	4.4	9
42	Heterologous production of NpCel6A from <i>Neocallimastix patriciarum</i> in <i>Saccharomyces cerevisiae</i> . <i>Enzyme and Microbial Technology</i> , 2010 , 46, 378-383	3.8	9
41	Enrichment of maize and triticale bran with recombinant ferulic acid esterase. <i>Journal of Food Science and Technology</i> , 2017 , 54, 778-785	3.3	8
40	In situ enzyme aided adsorption of soluble xylan biopolymers onto cellulosic material. <i>Carbohydrate Polymers</i> , 2016 , 143, 172-8	10.3	8
39	Improved extraction of phytochemicals from rooibos with enzyme treatment. <i>Food and Bioprocess Technology</i> , 2014 , 92, 393-401	4.9	8
38	Systematic appraisal of species complexes within <i>Cylindrocylindrella</i> . <i>Mycological Research</i> , 1998 , 102, 273-279		8
37	Phytase activity in <i>Cryptococcus laurentii</i> ABO 510. <i>FEMS Yeast Research</i> , 2007 , 7, 442-8	3.1	8
36	Cloning, characterisation, and heterologous expression of the <i>Candida utilis</i> malic enzyme gene. <i>Current Genetics</i> , 2006 , 49, 248-58	2.9	8
35	Reliability of methods for the determination of specific substrate consumption rates in batch culture. <i>Biochemical Engineering Journal</i> , 2005 , 25, 109-112	4.2	8
34	Rational engineering of <i>Saccharomyces cerevisiae</i> towards improved tolerance to multiple inhibitors in lignocellulose fermentations. <i>Biotechnology for Biofuels</i> , 2021 , 14, 173	7.8	8
33	Valorisation of the invasive species, <i>Prosopis juliflora</i> , using the carboxylate platform to produce volatile fatty acids. <i>Bioresource Technology</i> , 2019 , 288, 121602	11	7
32	Overexpression of <i>Aspergillus tubingensis</i> faeA in protease-deficient <i>Aspergillus niger</i> enables ferulic acid production from plant material. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014 , 41, 1027-34	4.2	7

31	Recombinant hepatitis B surface antigen production in <i>Aspergillus niger</i> : evaluating the strategy of gene fusion to native glucoamylase. <i>Applied Microbiology and Biotechnology</i> , 2012 , 96, 385-94	5.7	7
30	Developing Organisms for Consolidated Bioprocessing of Biomass to Ethanol 2011 ,		7
29	Metabolomic Alterations Do Not Induce Metabolic Burden in the Industrial Yeast M2n[pBKD2]-C1 Engineered by Multiple Integration of a Fungal β -Glucosidase Gene. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 376	5.8	7
28	Expression of the <i>Ruminococcus flavefaciens</i> cellodextrinase gene in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 1995 , 17, 481-486	3	6
27	A rapid molecular technique to distinguish <i>Fusarium</i> species. <i>Mycological Research</i> , 1993 , 97, 345-346		6
26	Conversion of homothallic yeast to heterothallism through HO gene disruption. <i>Current Genetics</i> , 1993 , 23, 290-4	2.9	6
25	The in vivo detection and measurement of the unfolded protein response in recombinant cellulase producing <i>Saccharomyces cerevisiae</i> strains. <i>Biotechnology and Applied Biochemistry</i> , 2020 , 67, 82-94	2.8	6
24	Effects of preservation of rumen inoculum on volatile fatty acids production and the community dynamics during batch fermentation of fruit pomace. <i>Bioresource Technology</i> , 2021 , 321, 124518	11	6
23	QTL analysis of natural <i>Saccharomyces cerevisiae</i> isolates reveals unique alleles involved in lignocellulosic inhibitor tolerance. <i>FEMS Yeast Research</i> , 2019 , 19,	3.1	5
22	Increased Hepatitis B surface antigen production by recombinant <i>Aspergillus niger</i> through the optimization of agitation and dissolved oxygen concentration. <i>Applied Microbiology and Biotechnology</i> , 2007 , 75, 279-88	5.7	5
21	Stress modulation as a means to improve yeasts for lignocellulose bioconversion. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 4899-4918	5.7	5
20	Effect of dimorphic regulation on heterologous glucose oxidase production by <i>Mucor circinelloides</i> . <i>Yeast</i> , 2010 , 27, 849-60	3.4	4
19	Heterologous Expression of <i>Trametes versicolor</i> Laccase in <i>Pichia pastoris</i> and <i>Aspergillus niger</i> 2006 , 195-214		4
18	Heterologous production of cellulose- and starch-degrading hydrolases to expand <i>Saccharomyces cerevisiae</i> substrate utilization: Lessons learnt. <i>Biotechnology Advances</i> , 2021 , 53, 107859	17.8	4
17	Enzymatic Hydrolysis of Softwood Derived Paper Sludge by an In Vitro Recombinant Cellulase Cocktail for the Production of Fermentable Sugars. <i>Catalysts</i> , 2020 , 10, 775	4	4
16	Improving the functionality of surface-engineered yeast cells by altering the cell wall morphology of the host strain. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 5895-5904	5.7	4
15	Comparing cytosolic expression to peroxisomal targeting of the chimeric L1/L2 (Chi β -L2) gene from human papillomavirus type 16 in the methylotrophic yeasts <i>Pichia pastoris</i> and <i>Hansenula polymorpha</i> . <i>Yeast</i> , 2012 , 29, 385-93	3.4	3
14	Potential Valorization of Organic Waste Streams to Valuable Organic Acids through Microbial Conversion: A South African Case Study. <i>Catalysts</i> , 2021 , 11, 964	4	3

13	Production and in vitro evaluation of prebiotic manno-oligosaccharides prepared with a recombinant <i>Aspergillus niger</i> endo-mannanase, Man26A. <i>Enzyme and Microbial Technology</i> , 2021 , 150, 109893	3.8	3
12	Developing Cellulolytic Organisms for Consolidated Bioprocessing of Lignocellulosics 2013 , 189-220		2
11	Valorization of apple and grape wastes with malic acid-degrading yeasts. <i>Folia Microbiologica</i> , 2021 , 66, 341-354	2.8	2
10	Scalable methanol-free production of recombinant glucuronoyl esterase in <i>Pichia pastoris</i> . <i>BMC Research Notes</i> , 2019 , 12, 596	2.3	1
9	The microcyclic conidial stage of <i>Coniochaeta pulveracea</i> and its effect on selected biological interactions. <i>Folia Microbiologica</i> , 2016 , 61, 319-28	2.8	1
8	Expression of Fungal Hydrolases in <i>Saccharomyces cerevisiae</i> 2015 , 153-175		1
7	Fungal Biotechnology: Fungal Amylases and Their Applications 2021 , 326-336		1
6	Extraruminal Fermentation of Citrus, Grape and Apple Pomaces: Assessing the Potential to Serve as Feedstock for Production of Volatile Fatty acids. <i>Waste and Biomass Valorization</i> , 2021 , 12, 3671-3681	3.2	1
5	Adaptation of <i>Saccharomyces cerevisiae</i> in a concentrated spent sulphite liquor waste stream for increased inhibitor resistance. <i>Applied Microbiology and Biotechnology</i> , 2021 , 106, 455	5.7	1
4	Natural Strain Reveals Peculiar Genomic Traits for Starch-to-Bioethanol Production: the Design of an Amyolytic Consolidated Bioprocessing Yeast.. <i>Frontiers in Microbiology</i> , 2021 , 12, 768562	5.7	0
3	Rumen fluid handling affects measurements of its enzymatic activity and in vitro digestibility. <i>Animal Feed Science and Technology</i> , 2021 , 280, 115060	3	0
2	Special issue from the 20th International Symposium on Alcohol Fuels (ISAF 2013): alcohol fuels enabling sustainable future development. <i>Biotechnology for Biofuels</i> , 2013 , 6, 176	7.8	
1	Enzymatic path to bioconversion of lignocellulosic biomass 2020 , 5-32		