Willem Heber van Zyl

List of Publications by Year in Descending Order

174 papers	10,390 citations	43 h-index	98 g-index
177 ext. papers	11,334 ext. citations	5.1 avg, IF	6.27 L-index

#	Paper	IF	Citations
174	Natural Strain Reveals Peculiar Genomic Traits for Starch-to-Bioethanol Production: the Design of an Amylolytic Consolidated Bioprocessing Yeast.. *Frontiers in Microbiology*, **2021**, 12, 768562	5.7	0
173	Heterologous production of cellulose- and starch-degrading hydrolases to expand Saccharomyces cerevisiae substrate utilization: Lessons learnt. *Biotechnology Advances*, **2021**, 53, 107859	17.8	4
172	Stress modulation as a means to improve yeasts for lignocellulose bioconversion. *Applied Microbiology and Biotechnology*, **2021**, 105, 4899-4918	5.7	5
171	Improving the functionality of surface-engineered yeast cells by altering the cell wall morphology of the host strain. *Applied Microbiology and Biotechnology*, **2021**, 105, 5895-5904	5.7	4
170	Fungal Biotechnology: Fungal Amylases and Their Applications **2021**, 326-336		1
169	Extraruminal Fermentation of Citrus, Grape and Apple Pomaces: Assessing the Potential to Serve as Feedstock for Production of Volatile Fatty acids. *Waste and Biomass Valorization*, **2021**, 12, 3671-3681	3.2	1
168	Effects of preservation of rumen inoculum on volatile fatty acids production and the community dynamics during batch fermentation of fruit pomace. *Bioresource Technology*, **2021**, 321, 124518	11	6
167	Valorization of apple and grape wastes with malic acid-degrading yeasts. *Folia Microbiologica*, **2021**, 66, 341-354	2.8	2
166	Potential Valorization of Organic Waste Streams to Valuable Organic Acids through Microbial Conversion: A South African Case Study. *Catalysts*, **2021**, 11, 964	4	3
165	Rational engineering of Saccharomyces cerevisiae towards improved tolerance to multiple inhibitors in lignocellulose fermentations. *Biotechnology for Biofuels*, **2021**, 14, 173	7.8	8
164	Production and in vitro evaluation of prebiotic manno-oligosaccharides prepared with a recombinant Aspergillus niger endo-mannanase, Man26A. *Enzyme and Microbial Technology*, **2021**, 150, 109893	3.8	3
163	Rumen fluid handling affects measurements of its enzymatic activity and in vitro digestibility. *Animal Feed Science and Technology*, **2021**, 280, 115060	3	0
162	Adaptation of Saccharomyces cerevisiae in a concentrated spent sulphite liquor waste stream for increased inhibitor resistance. *Applied Microbiology and Biotechnology*, **2021**, 106, 455	5.7	1
161	Synergistic codon optimization and bioreactor cultivation toward enhanced secretion of fungal lignin peroxidase in Pichia pastoris: Enzymatic valorization of technical (industrial) lignins. *Enzyme and Microbial Technology*, **2020**, 139, 109593	3.8	9
160	Consolidated bioprocessing of raw starch to ethanol by Saccharomyces cerevisiae: Achievements and challenges. *Biotechnology Advances*, **2020**, 42, 107579	17.8	36
159	Exploiting strain diversity and rational engineering strategies to enhance recombinant cellulase secretion by Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2020**, 104, 5163-5184	5.7	9
158	Novel strategy for anchorage position control of GPI-attached proteins in the yeast cell wall using different GPI-anchoring domains. *Metabolic Engineering*, **2020**, 57, 110-117	9.7	15

157	The in vivo detection and measurement of the unfolded protein response in recombinant cellulase producing Saccharomyces cerevisiae strains. *Biotechnology and Applied Biochemistry*, **2020**, 67, 82-94	2.8	6
156	Enzymatic Hydrolysis of Softwood Derived Paper Sludge by an In Vitro Recombinant Cellulase Cocktail for the Production of Fermentable Sugars. *Catalysts*, **2020**, 10, 775	4	4
155	Enzymatic path to bioconversion of lignocellulosic biomass **2020**, 5-32		
154	Microbial lignin peroxidases: Applications, production challenges and future perspectives. *Enzyme and Microbial Technology*, **2020**, 141, 109669	3.8	22
153	Overcoming lignocellulose-derived microbial inhibitors: advancing the Saccharomyces cerevisiae resistance toolbox. *Biofuels, Bioproducts and Biorefining*, **2019**, 13, 1520-1536	5.3	22
152	Construction of industrial strains for the efficient consolidated bioprocessing of raw starch. *Biotechnology for Biofuels*, **2019**, 12, 201	7.8	29
151	Scalable methanol-free production of recombinant glucuronoyl esterase in Pichia pastoris. *BMC Research Notes*, **2019**, 12, 596	2.3	1
150	Application of industrial amylolytic yeast strains for the production of bioethanol from broken rice. *Bioresource Technology*, **2019**, 294, 122222	11	22
149	Exploring industrial and natural strains for the bio-based economy from biomass: the case of bioethanol. *Critical Reviews in Biotechnology*, **2019**, 39, 800-816	9.4	53
148	Valorisation of the invasive species, Prosopis juliflora, using the carboxylate platform to produce volatile fatty acids. *Bioresource Technology*, **2019**, 288, 121602	11	7
147	Improved cellulase expression in diploid yeast strains enhanced consolidated bioprocessing of pretreated corn residues. *Enzyme and Microbial Technology*, **2019**, 131, 109382	3.8	10
146	QTL analysis of natural Saccharomyces cerevisiae isolates reveals unique alleles involved in lignocellulosic inhibitor tolerance. *FEMS Yeast Research*, **2019**, 19,	3.1	5
145	Comparing laboratory and industrial yeast platforms for the direct conversion of cellobiose into ethanol under simulated industrial conditions. *FEMS Yeast Research*, **2019**, 19,	3.1	12
144	Metabolomic Alterations Do Not Induce Metabolic Burden in the Industrial Yeast M2n[pBKD2-]-C1 Engineered by Multiple Integration of a Fungal Glucosidase Gene. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 376	5.8	7
143	Improved raw starch amylase production by Saccharomyces cerevisiae using codon optimisation strategies. *FEMS Yeast Research*, **2019**, 19,	3.1	10
142	Identification of superior cellulase secretion phenotypes in haploids derived from natural Saccharomyces cerevisiae isolates. *FEMS Yeast Research*, **2019**, 19,	3.1	10
141	Expression of unique chimeric human papilloma virus type 16 (HPV-16) L1-L2 proteins in Pichia pastoris and Hansenula polymorpha. *Yeast*, **2018**, 35, 519-529	3.4	18
140	Rational strain engineering interventions to enhance cellulase secretion by Saccharomyces cerevisiae. *Biofuels, Bioproducts and Biorefining*, **2018**, 12, 108-124	5.3	18

139	Mating of natural Saccharomyces cerevisiae strains for improved glucose fermentation and lignocellulosic inhibitor tolerance. *Folia Microbiologica*, **2018**, 63, 155-168	2.8	13
138	Improvement of ethanol production from crystalline cellulose via optimizing cellulase ratios in cellulolytic Saccharomyces cerevisiae. *Biotechnology and Bioengineering*, **2017**, 114, 1201-1207	4.9	32
137	Enrichment of maize and triticale bran with recombinant ferulic acid esterase. *Journal of Food Science and Technology*, **2017**, 54, 778-785	3.3	8
136	Production of ethanol from steam exploded triticale straw in a simultaneous saccharification and fermentation process. *Process Biochemistry*, **2017**, 53, 10-16	4.8	20
135	Expression and comparison of codon optimised Aspergillus tubingensis amylase variants in Saccharomyces cerevisiae. *FEMS Yeast Research*, **2017**, 17,	3.1	9
134	Strain Breeding Enhanced Heterologous Cellobiohydrolase Secretion by Saccharomyces cerevisiae in a Protein Specific Manner. *Biotechnology Journal*, **2017**, 12, 1700346	5.6	12
133	Quantitative metabolomics of a xylose-utilizing Saccharomyces cerevisiae strain expressing the Bacteroides thetaiotaomicron xylose isomerase on glucose and xylose. *Journal of Industrial Microbiology and Biotechnology*, **2017**, 44, 1459-1470	4.2	11
132	Production of bioethanol from multiple waste streams of rice milling. *Bioresource Technology*, **2017**, 244, 151-159	11	40
131	Overexpression of native Saccharomyces cerevisiae ER-to-Golgi SNARE genes increased heterologous cellulase secretion. *Applied Microbiology and Biotechnology*, **2016**, 100, 505-18	5.7	27
130	Engineering of a novel cellulose-adherent cellulolytic Saccharomyces cerevisiae for cellulosic biofuel production. *Scientific Reports*, **2016**, 6, 24550	4.9	34
129	The microcyclic conidial stage of Coniochaeta pulveracea and its effect on selected biological interactions. *Folia Microbiologica*, **2016**, 61, 319-28	2.8	1
128	Engineering of Saccharomyces cerevisiae to utilize xylan as a sole carbohydrate source by co-expression of an endoxylanase, xylosidase and a bacterial xylose isomerase. *Journal of Industrial Microbiology and Biotechnology*, **2016**, 43, 431-40	4.2	11
127	Expression of rotavirus VP6 protein: a comparison amongst Escherichia coli, Pichia pastoris and Hansenula polymorpha. *FEMS Yeast Research*, **2016**, 16, fow001	3.1	12
126	In situ enzyme aided adsorption of soluble xylan biopolymers onto cellulosic material. *Carbohydrate Polymers*, **2016**, 143, 172-8	10.3	8
125	Biologically Based Methods for Control of Fumonisin-Producing Fusarium Species and Reduction of the Fumonisins. *Frontiers in Microbiology*, **2016**, 7, 548	5.7	46
124	Heterologous expression of cellulase genes in natural Saccharomyces cerevisiae strains. *Applied Microbiology and Biotechnology*, **2016**, 100, 8241-54	5.7	33
123	Bioenergy and African transformation. *Biotechnology for Biofuels*, **2015**, 8, 18	7.8	41
122	Consolidated bioprocessing of starchy substrates into ethanol by industrial Saccharomyces cerevisiae strains secreting fungal amylases. *Biotechnology and Bioengineering*, **2015**, 112, 1751-60	4.9	54

121	Lignocellulosic hydrolysate inhibitors selectively inhibit/deactivate cellulase performance. *Enzyme and Microbial Technology*, **2015**, 81, 16-22	3.8	43
120	Utilisation of wheat bran as a substrate for bioethanol production using recombinant cellulases and amylolytic yeast. *Applied Energy*, **2015**, 160, 610-617	10.7	53
119	Combined cell-surface display- and secretion-based strategies for production of cellulosic ethanol with Saccharomyces cerevisiae. *Biotechnology for Biofuels*, **2015**, 8, 162	7.8	43
118	Progress and challenges in the engineering of non-cellulolytic microorganisms for consolidated bioprocessing. *Current Opinion in Biotechnology*, **2015**, 33, 32-8	11.4	119
117	Fruit waste streams in South Africa and their potential role in developing a bio-economy. *South African Journal of Science*, **2015**, 111,	1.3	16
116	Expression of Fungal Hydrolases in Saccharomyces cerevisiae **2015**, 153-175		1
115	Over-expression of native Saccharomyces cerevisiae exocytic SNARE genes increased heterologous cellulase secretion. *Applied Microbiology and Biotechnology*, **2014**, 98, 5567-78	5.7	27
114	Production of cellulosic ethanol and enzyme from waste fiber sludge using SSF, recycling of hydrolytic enzymes and yeast, and recombinant cellulase-producing Aspergillus niger. *Journal of Industrial Microbiology and Biotechnology*, **2014**, 41, 1191-200	4.2	11
113	Expression and evaluation of enzymes required for the hydrolysis of galactomannan. *Journal of Industrial Microbiology and Biotechnology*, **2014**, 41, 1201-9	4.2	18
112	Overexpression of Aspergillus tubingensis faeA in protease-deficient Aspergillus niger enables ferulic acid production from plant material. *Journal of Industrial Microbiology and Biotechnology*, **2014**, 41, 1027-34	4.2	7
111	Improved extraction of phytochemicals from rooibos with enzyme treatment. *Food and Bioproducts Processing*, **2014**, 92, 393-401	4.9	8
110	Enzymatic hydrolysis of spent coffee ground. *Applied Biochemistry and Biotechnology*, **2013**, 169, 2248-62	3.2	29
109	Exploring grape marc as trove for new thermotolerant and inhibitor-tolerant Saccharomyces cerevisiae strains for second-generation bioethanol production. *Biotechnology for Biofuels*, **2013**, 6, 168	7.8	50
108	Raw starch conversion by Saccharomyces cerevisiae expressing Aspergillus tubingensis amylases. *Biotechnology for Biofuels*, **2013**, 6, 167	7.8	42
107	Using an efficient fermenting yeast enhances ethanol production from unfiltered wheat bran hydrolysates. *Applied Energy*, **2013**, 102, 170-178	10.7	43
106	Cellobiohydrolase secretion by yeast: Current state and prospects for improvement. *Process Biochemistry*, **2013**, 48, 1-12	4.8	45
105	Developing Cellulolytic Organisms for Consolidated Bioprocessing of Lignocellulosics **2013**, 189-220		2
104	Engineering Saccharomyces cerevisiae for next generation ethanol production. *Journal of Chemical Technology and Biotechnology*, **2013**, 88, 983-991	3.5	38

103	Overexpression of native PSE1 and SOD1 in Saccharomyces cerevisiae improved heterologous cellulase secretion. *Applied Energy*, **2013**, 102, 150-156	10.7	47
102	Modeling the minimum enzymatic requirements for optimal cellulose conversion. *Environmental Research Letters*, **2013**, 8, 025013	6.2	15
101	Designing industrial yeasts for the consolidated bioprocessing of starchy biomass to ethanol. *Bioengineered*, **2013**, 4, 97-102	5.7	30
100	Special issue from the 20th International Symposium on Alcohol Fuels (ISAF 2013): alcohol fuels enabling sustainable future development. *Biotechnology for Biofuels*, **2013**, 6, 176	7.8	
99	Isolation, characterization and enzymatic modification of water soluble xylans from Eucalyptus grandis wood and sugarcane bagasse. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 1419-1429	3.5	19
98	Fungal β-glucosidase expression in Saccharomyces cerevisiae. *Journal of Industrial Microbiology and Biotechnology*, **2012**, 39, 1445-52	4.2	29
97	Comparing cytosolic expression to peroxisomal targeting of the chimeric L1/L2 (ChiB-L2) gene from human papillomavirus type 16 in the methylotrophic yeasts Pichia pastoris and Hansenula polymorpha. *Yeast*, **2012**, 29, 385-93	3.4	3
96	Recombinant hepatitis B surface antigen production in Aspergillus niger: evaluating the strategy of gene fusion to native glucoamylase. *Applied Microbiology and Biotechnology*, **2012**, 96, 385-94	5.7	7
95	The metabolic burden of cellulase expression by recombinant Saccharomyces cerevisiae Y294 in aerobic batch culture. *Applied Microbiology and Biotechnology*, **2012**, 96, 197-209	5.7	50
94	Codon-optimized glucoamylase sGAI of Aspergillus awamori improves starch utilization in an industrial yeast. *Applied Microbiology and Biotechnology*, **2012**, 95, 957-68	5.7	32
93	Engineering yeasts for raw starch conversion. *Applied Microbiology and Biotechnology*, **2012**, 95, 1377-88	5.7	69
92	Production and characterisation of recombinant α-L-arabinofuranosidase for production of xylan hydrogels. *Applied Microbiology and Biotechnology*, **2012**, 95, 101-12	5.7	11
91	In situ enzymatic aided formation of xylan hydrogels and encapsulation of horse radish peroxidase for slow release. *Carbohydrate Polymers*, **2012**, 88, 1109-1117	10.3	33
90	High level secretion of cellobiohydrolases by Saccharomyces cerevisiae. *Biotechnology for Biofuels*, **2011**, 4, 30	7.8	119
89	A global conversation about energy from biomass: the continental conventions of the global sustainable bioenergy project. *Interface Focus*, **2011**, 1, 271-9	3.9	23
88	Developing Organisms for Consolidated Bioprocessing of Biomass to Ethanol **2011**,		7
87	Biorefining of wood: combined production of ethanol and xylanase from waste fiber sludge. *Journal of Industrial Microbiology and Biotechnology*, **2011**, 38, 891-9	4.2	13
86	The lignicolous fungus Coniochaeta pulveracea and its interactions with syntrophic yeasts from the woody phylloplane. *Microbial Ecology*, **2011**, 62, 609-19	4.4	9

85	Co-expression of a cellobiose phosphorylase and lactose permease enables intracellular cellobiose utilisation by Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2011**, 90, 1373-80	5.7	54
84	A kinetic model for simultaneous saccharification and fermentation of Avicel with Saccharomyces cerevisiae. *Biotechnology and Bioengineering*, **2011**, 108, 924-33	4.9	33
83	Next-generation cellulosic ethanol technologies and their contribution to a sustainable Africa. *Interface Focus*, **2011**, 1, 196-211	3.9	35
82	Exploring improved endoglucanase expression in Saccharomyces cerevisiae strains. *Applied Microbiology and Biotechnology*, **2010**, 86, 1503-11	5.7	35
81	Heterologous co-production of Thermobifida fusca Cel9A with other cellulases in Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2010**, 87, 1813-20	5.7	16
80	Engineering cellulolytic ability into bioprocessing organisms. *Applied Microbiology and Biotechnology*, **2010**, 87, 1195-208	5.7	119
79	Fungal β-mannanases: Mannan hydrolysis, heterologous production and biotechnological applications. *Process Biochemistry*, **2010**, 45, 1203-1213	4.8	139
78	Heterologous production of NpCel6A from Neocallimastix patriciarum in Saccharomyces cerevisiae. *Enzyme and Microbial Technology*, **2010**, 46, 378-383	3.8	9
77	Effect of dimorphic regulation on heterologous glucose oxidase production by Mucor circinelloides. *Yeast*, **2010**, 27, 849-60	3.4	4
76	Cellulase production from spent lignocellulose hydrolysates by recombinant Aspergillus niger. *Applied and Environmental Microbiology*, **2009**, 75, 2366-74	4.8	41
75	A novel family of hemicellulolytic alpha-glucuronidase. *FEBS Letters*, **2009**, 583, 1457-62	3.8	55
74	Production of the Aspergillus aculeatus endo-1,4-beta-mannanase in A. niger. *Journal of Industrial Microbiology and Biotechnology*, **2009**, 36, 611-7	4.2	29
73	Heterologous expression of a Clostridium minicellulosome in Saccharomyces cerevisiae. *FEMS Yeast Research*, **2009**, 9, 1236-49	3.1	45
72	The production of eicosapentaenoic acid by representatives of the genus Mortierella grown on brewers' spent grain. *Biologia (Poland)*, **2009**, 64, 871-876	1.5	14
71	Degradation of aflatoxin B(1) by fungal laccase enzymes. *International Journal of Food Microbiology*, **2009**, 135, 47-52	5.8	178
70	Effects of a fungal enzyme cocktail treatment of high and low forage diets on lamb growth. *Animal Feed Science and Technology*, **2008**, 145, 151-158	3	11
69	Enhancement of Rooibos (Aspalathus linearis) aqueous extract and antioxidant yield with fungal enzymes. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 4047-53	5.7	15
68	Characterization of a family 54 alpha-L-arabinofuranosidase from Aureobasidium pullulans. *Applied Microbiology and Biotechnology*, **2008**, 77, 975-83	5.7	29

67	Exploitation of for the Heterologous Production of Cellulases and Hemicellulases. *Open Biotechnology Journal*, **2008**, 2, 167-175	2	14
66	Hydrolysis and fermentation of amorphous cellulose by recombinant Saccharomyces cerevisiae. *Metabolic Engineering*, **2007**, 9, 87-94	9.7	203
65	Functional expression of cellobiohydrolases in Saccharomyces cerevisiae towards one-step conversion of cellulose to ethanol. *Enzyme and Microbial Technology*, **2007**, 40, 1291-1299	3.8	86
64	Phytase activity in Cryptococcus laurentii ABO 510. *FEMS Yeast Research*, **2007**, 7, 442-8	3.1	8
63	Increased Hepatitis B surface antigen production by recombinant Aspergillus niger through the optimization of agitation and dissolved oxygen concentration. *Applied Microbiology and Biotechnology*, **2007**, 75, 279-88	5.7	5
62	Consolidated bioprocessing for bioethanol production using Saccharomyces cerevisiae. *Advances in Biochemical Engineering/Biotechnology*, **2007**, 108, 205-35	1.7	127
61	Cloning, characterisation, and heterologous expression of the Candida utilis malic enzyme gene. *Current Genetics*, **2006**, 49, 248-58	2.9	8
60	Biological degradation of aflatoxin B1 by Rhodococcus erythropolis cultures. *International Journal of Food Microbiology*, **2006**, 109, 121-6	5.8	165
59	Studies of the extracellular glycocalyx of the anaerobic cellulolytic bacterium Ruminococcus albus 7. *Applied and Environmental Microbiology*, **2006**, 72, 7559-66	4.8	34
58	Heterologous Expression of Trametes versicolor Laccase in Pichia pastoris and Aspergillus niger **2006**, 195-214		4
57	Expression of the immunity protein of plantaricin 423, produced by Lactobacillus plantarum 423, and analysis of the plasmid encoding the bacteriocin. *Applied and Environmental Microbiology*, **2006**, 72, 7644-51	4.8	33
56	Characterization of the Aureobasidium pullulans β-glucuronidase expressed in Saccharomyces cerevisiae. *Enzyme and Microbial Technology*, **2006**, 38, 649-656	3.8	24
55	Heterologous expression of Trametes versicolor laccase in Pichia pastoris and Aspergillus niger. *Applied Biochemistry and Biotechnology*, **2006**, 129, 195-214	3.2	39
54	Construction of cellobiose-growing and fermenting Saccharomyces cerevisiae strains. *Journal of Biotechnology*, **2005**, 120, 284-95	3.7	97
53	Role of cultivation media in the development of yeast strains for large scale industrial use. *Microbial Cell Factories*, **2005**, 4, 31	6.4	142
52	Utilization of cellobiose by recombinant β-glucosidase-expressing strains of Saccharomyces cerevisiae: characterization and evaluation of the sufficiency of expression. *Enzyme and Microbial Technology*, **2005**, 37, 93-101	3.8	30
51	Amino acid supplementation, controlled oxygen limitation and sequential double induction improves heterologous xylanase production by Pichia stipitis. *FEMS Yeast Research*, **2005**, 5, 677-83	3.1	29
50	Consolidated bioprocessing of cellulosic biomass: an update. *Current Opinion in Biotechnology*, **2005** , 16, 577-83	11.4	1103

49	Reliability of methods for the determination of specific substrate consumption rates in batch culture. *Biochemical Engineering Journal*, **2005**, 25, 109-112	4.2	8
48	Degradation of aflatoxin B(1) by cell-free extracts of Rhodococcus erythropolis and Mycobacterium fluoranthenivorans sp. nov. DSM44556(T). *International Journal of Food Microbiology*, **2005**, 105, 111-7	5.8	164
47	Theoretical analysis of selection-based strain improvement for microorganisms with growth dependent upon extracytoplasmic enzymes. *Biotechnology and Bioengineering*, **2005**, 92, 35-44	4.9	11
46	Amino acid supplementation improves heterologous protein production by Saccharomyces cerevisiae in defined medium. *Applied Microbiology and Biotechnology*, **2005**, 67, 684-91	5.7	48
45	Comparison of three expression systems for heterologous xylanase production by S. cerevisiae in defined medium. *Yeast*, **2004**, 21, 1205-17	3.4	20
44	Enzyme-coupled assay of acetylxylan esterases on monoacetylated 4-nitrophenyl beta-D-xylopyranosides. *Analytical Biochemistry*, **2004**, 332, 109-15	3.1	22
43	Evaluation of Aspergillus niger as host for virus-like particle production, using the hepatitis B surface antigen as a model. *Current Genetics*, **2003**, 43, 439-46	2.9	18
42	Characterization and heterologous expression of a class IIa bacteriocin, plantaricin 423 from Lactobacillus plantarum 423, in Saccharomyces cerevisiae. *International Journal of Food Microbiology*, **2003**, 81, 29-40	5.8	93
41	Xylose isomerase activity influences xylose fermentation with recombinant Saccharomyces cerevisiae strains expressing mutated xylA from Thermus thermophilus. *Enzyme and Microbial Technology*, **2003**, 32, 567-573	3.8	31
40	Enhanced xylan degradation and utilisation by Pichia stipitis overproducing fungal xylanolytic enzymes. *Enzyme and Microbial Technology*, **2003**, 33, 620-628	3.8	34
39	Generation of the improved recombinant xylose-utilizing Saccharomyces cerevisiae TMB 3400 by random mutagenesis and physiological comparison with Pichia stipitis CBS 6054. *FEMS Yeast Research*, **2003**, 3, 319-26	3.1	117
38	Molecular analysis of a Saccharomyces cerevisiae mutant with improved ability to utilize xylose shows enhanced expression of proteins involved in transport, initial xylose metabolism, and the pentose phosphate pathway. *Applied and Environmental Microbiology*, **2003**, 69, 740-6	4.8	96
37	Constitutive expression of the Trichoderma reesei beta-1,4-xylanase gene (xyn2) and the beta-1,4-endoglucanase gene (egl) in Aspergillus niger in molasses and defined glucose media. *Applied Microbiology and Biotechnology*, **2002**, 58, 461-8	5.7	42
36	Cold adaptation of xylose isomerase from Thermus thermophilus through random PCR mutagenesis. Gene cloning and protein characterization. *FEBS Journal*, **2002**, 269, 157-63		48
35	Differentiation of feruloyl esterases on synthetic substrates in alpha-arabinofuranosidase-coupled and ultraviolet-spectrophotometric assays. *Analytical Biochemistry*, **2002**, 311, 68-75	3.1	27
34	Microbial cellulose utilization: fundamentals and biotechnology. *Microbiology and Molecular Biology Reviews*, **2002**, 66, 506-77, table of contents	13.2	3094
33	Microbial Cellulose Utilization: Fundamentals and Biotechnology. *Microbiology and Molecular Biology Reviews*, **2002**, 66, 739-739	13.2	75
32	Xylitol production by recombinant Saccharomyces cerevisiae expressing the Pichia stipitis and Candida shehatae XYL1 genes. *Applied Microbiology and Biotechnology*, **2001**, 55, 76-80	5.7	30

31	Heterologous expression of the Bacillus pumilus endo-beta-xylanase (xynA) gene in the yeast Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2001**, 56, 431-4	5.7	18
30	Differential expression of the Trichoderma reesei beta-xylanase II (xyn2) gene in the xylose-fermenting yeast Pichia stipitis. *Applied Microbiology and Biotechnology*, **2001**, 57, 521-7	5.7	27
29	The metabolic burden of the PGK1 and ADH2 promoter systems for heterologous xylanase production by Saccharomyces cerevisiae in defined medium. *Biotechnology and Bioengineering*, **2001**, 73, 238-45	4.9	78
28	Deletion of the GRE3 aldose reductase gene and its influence on xylose metabolism in recombinant strains of Saccharomyces cerevisiae expressing the xylA and XKS1 genes. *Applied and Environmental Microbiology*, **2001**, 67, 5668-74	4.8	319
27	Degradation of xylan to D-xylose by recombinant Saccharomyces cerevisiae coexpressing the Aspergillus niger beta-xylosidase (xlnD) and the Trichoderma reesei xylanase II (xyn2) genes. *Applied and Environmental Microbiology*, **2001**, 67, 5512-9	4.8	108
26	Metabolic engineering of Saccharomyces cerevisiae for xylose utilization. *Advances in Biochemical Engineering/Biotechnology*, **2001**, 73, 53-84	1.7	86
25	Expression of the Aspergillus aculeatus endo-beta-1,4-mannanase encoding gene (man1) in Saccharomyces cerevisiae and characterization of the recombinant enzyme. *Protein Expression and Purification*, **2001**, 21, 105-14	2	49
24	A chromogenic substrate for a beta-xylosidase-coupled assay of alpha-glucuronidase. *Analytical Biochemistry*, **2000**, 286, 289-94	3.1	41
23	Coexpression of the Bacillus pumilus beta-xylosidase (xynB) gene with the Trichoderma reesei beta xylanase 2 (xyn2) gene in the yeast Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2000**, 54, 195-200	5.7	24
22	Differential uptake of fumarate by Candida utilis and Schizosaccharomyces pombe. *Applied Microbiology and Biotechnology*, **2000**, 54, 792-8	5.7	20
21	Xylose utilisation by recombinant strains of Saccharomyces cerevisiae on different carbon sources. *Applied Microbiology and Biotechnology*, **1999**, 52, 829-33	5.7	23
20	Development of a polysacharide degrading strain of Saccharomyces cerevisiae. *Biotechnology Letters*, **1998**, 12, 615-619		14
19	Systematic appraisal of species complexes within Cylindrocladiella. *Mycological Research*, **1998**, 102, 273-279		8
18	Engineering yeast for efficient cellulose degradation. *Yeast*, **1998**, 14, 67-76	3.4	83
17	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. *Journal of Biotechnology*, **1997**, 55, 43-53	3.7	39
16	New species of Calonectria and Cylindrocladium isolated from soil in the tropics. *Mycologia*, **1997**, 89, 653-660	2.4	12
15	Delineation of Cylindrocladium species with 1-3-septate conidia and clavate vesicles based on morphology and rDNA RFLPs. *Mycological Research*, **1997**, 101, 210-214		14
14	Cloning of two xylanase-encoding genes from Aspergillus niger and their expression in Saccharomyces cerevisiae. *Biotechnology Letters*, **1997**, 19, 411-415	3	31

13	Cloning of the Bacillus pumilus beta-xylosidase gene (xynB) and its expression in Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **1997**, 47, 262-6	5.7	41
12	Cloning and expression of the alpha-L-arabinofuranosidase gene (ABF2) of Aspergillus niger in Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **1996**, 46, 256-60	5.7	41
11	Co-expression of a Phanerochaete chrysosporium cellobiohydrolase gene and a Butyrivibrio fibrisolvens endo-beta-1,4-glucanase gene in Saccharomyces cerevisiae. *Current Genetics*, **1996**, 30, 246-50	2.9	40
10	Cloning and expression of the Clostridium thermosulfurogenes D-xylose isomerase gene (xyLA) in Saccharomyces cerevisiae. *Biotechnology Letters*, **1996**, 18, 269-274	3	59
9	Expression of a Trichoderma reesei beta-xylanase gene (XYN2) in Saccharomyces cerevisiae. *Applied and Environmental Microbiology*, **1996**, 62, 1036-44	4.8	110
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