Youg-Su Jin

List of Publications by Citations

206 papers	8,137 citations	47 h-index	84 g-index
212 ext. papers	9,416 ext. citations	6.5 avg, IF	6.41 L-index

#	Paper	IF	Citations
206	Marine macroalgae: an untapped resource for producing fuels and chemicals. *Trends in Biotechnology*, **2013**, 31, 70-7	15.1	421
205	Engineered Saccharomyces cerevisiae capable of simultaneous cellobiose and xylose fermentation. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 504-9	11.5	398
204	Genome sequence of the lignocellulose-bioconverting and xylose-fermenting yeast Pichia stipitis. *Nature Biotechnology*, **2007**, 25, 319-26	44.5	393
203	Identifying gene targets for the metabolic engineering of lycopene biosynthesis in Escherichia coli. *Metabolic Engineering*, **2005**, 7, 155-64	9.7	385
202	Metabolic engineering for improved fermentation of pentoses by yeasts. *Applied Microbiology and Biotechnology*, **2004**, 63, 495-509	5.7	373
201	Maternal fucosyltransferase 2 status affects the gut bifidobacterial communities of breastfed infants. *Microbiome*, **2015**, 3, 13	16.6	244
200	Strain engineering of Saccharomyces cerevisiae for enhanced xylose metabolism. *Biotechnology Advances*, **2013**, 31, 851-61	17.8	169
199	Simultaneous co-fermentation of mixed sugars: a promising strategy for producing cellulosic ethanol. *Trends in Biotechnology*, **2012**, 30, 274-82	15.1	162
198	Production of fuels and chemicals from xylose by engineered Saccharomyces cerevisiae: a review and perspective. *Microbial Cell Factories*, **2017**, 16, 82	6.4	151
197	Enhanced biofuel production through coupled acetic acid and xylose consumption by engineered yeast. *Nature Communications*, **2013**, 4, 2580	17.4	151
196	Optimal growth and ethanol production from xylose by recombinant Saccharomyces cerevisiae require moderate D-xylulokinase activity. *Applied and Environmental Microbiology*, **2003**, 69, 495-503	4.8	144
195	Rational and evolutionary engineering approaches uncover a small set of genetic changes efficient for rapid xylose fermentation in Saccharomyces cerevisiae. *PLoS ONE*, **2013**, 8, e57048	3.7	139
194	Markerless chromosomal gene deletion in Clostridium beijerinckii using CRISPR/Cas9 system. *Journal of Biotechnology*, **2015**, 200, 1-5	3.7	131
193	Global metabolic interaction network of the human gut microbiota for context-specific community-scale analysis. *Nature Communications*, **2017**, 8, 15393	17.4	129
192	Saccharomyces cerevisiae engineered for xylose metabolism exhibits a respiratory response. *Applied and Environmental Microbiology*, **2004**, 70, 6816-25	4.8	127
191	Multi-dimensional gene target search for improving lycopene biosynthesis in Escherichia coli. *Metabolic Engineering*, **2007**, 9, 337-47	9.7	124
190	Improvement of xylose uptake and ethanol production in recombinant Saccharomyces cerevisiae through an inverse metabolic engineering approach. *Applied and Environmental Microbiology*, **2005**, 71, 8249-56	4.8	122

189	Ethanol and thermotolerance in the bioconversion of xylose by yeasts. *Advances in Applied Microbiology*, **2000**, 47, 221-68	4.9	122
188	Bacterial Genome Editing with CRISPR-Cas9: Deletion, Integration, Single Nucleotide Modification, and Desirable "Clean" Mutant Selection in Clostridium beijerinckii as an Example. *ACS Synthetic Biology*, **2016**, 5, 721-32	5.7	112
187	Construction of a quadruple auxotrophic mutant of an industrial polyploid saccharomyces cerevisiae strain by using RNA-guided Cas9 nuclease. *Applied and Environmental Microbiology*, **2014**, 80, 7694-701	4.8	90
186	Production of 2,3-butanediol by engineered Saccharomyces cerevisiae. *Bioresource Technology*, **2013**, 146, 274-281	11	90
185	Recent advances in biological production of sugar alcohols. *Current Opinion in Biotechnology*, **2016**, 37, 105-113	11.4	86
184	Enhanced xylitol production through simultaneous co-utilization of cellobiose and xylose by engineered Saccharomyces cerevisiae. *Metabolic Engineering*, **2013**, 15, 226-34	9.7	86
183	Improved galactose fermentation of Saccharomyces cerevisiae through inverse metabolic engineering. *Biotechnology and Bioengineering*, **2011**, 108, 621-31	4.9	84
182	Metabolic network reconstruction and genome-scale model of butanol-producing strain Clostridium beijerinckii NCIMB 8052. *BMC Systems Biology*, **2011**, 5, 130	3.5	82
181	Whole cell biosynthesis of a functional oligosaccharide, 2Sfucosyllactose, using engineered Escherichia coli. *Microbial Cell Factories*, **2012**, 11, 48	6.4	81
180	Overcoming the limited availability of human milk oligosaccharides: challenges and opportunities for research and application. *Nutrition Reviews*, **2016**, 74, 635-44	6.4	77
179	Isobutanol production in engineered Saccharomyces cerevisiae by overexpression of 2-ketoisovalerate decarboxylase and valine biosynthetic enzymes. *Bioprocess and Biosystems Engineering*, **2012**, 35, 1467-75	3.7	73
178	Production of biofuels and chemicals from xylose using native and engineered yeast strains. *Biotechnology Advances*, **2019**, 37, 271-283	17.8	71
177	Cofermentation of cellobiose and galactose by an engineered Saccharomyces cerevisiae strain. *Applied and Environmental Microbiology*, **2011**, 77, 5822-5	4.8	68
176	Molecular cloning of XYL3 (D-xylulokinase) from Pichia stipitis and characterization of its physiological function. *Applied and Environmental Microbiology*, **2002**, 68, 1232-9	4.8	67
175	PHO13 deletion-induced transcriptional activation prevents sedoheptulose accumulation during xylose metabolism in engineered Saccharomyces cerevisiae. *Metabolic Engineering*, **2016**, 34, 88-96	9.7	66
174	Engineering of NADPH regenerators in Escherichia coli for enhanced biotransformation. *Applied Microbiology and Biotechnology*, **2013**, 97, 2761-72	5.7	65
173	Combining C6 and C5 sugar metabolism for enhancing microbial bioconversion. *Current Opinion in Chemical Biology*, **2015**, 29, 49-57	9.7	64
172	Identification of gene targets eliciting improved alcohol tolerance in Saccharomyces cerevisiae through inverse metabolic engineering. *Journal of Biotechnology*, **2010**, 149, 52-9	3.7	62

171	Stoichiometric network constraints on xylose metabolism by recombinant Saccharomyces cerevisiae. *Metabolic Engineering*, **2004**, 6, 229-38	9.7	61
170	Enhanced tolerance of Saccharomyces cerevisiae to multiple lignocellulose-derived inhibitors through modulation of spermidine contents. *Metabolic Engineering*, **2015**, 29, 46-55	9.7	60
169	Changing flux of xylose metabolites by altering expression of xylose reductase and xylitol dehydrogenase in recombinant Saccharomyces cerevisiae. *Applied Biochemistry and Biotechnology*, **2003**, 105 -108, 277-86	3.2	59
168	Simultaneous utilization of cellobiose, xylose, and acetic acid from lignocellulosic biomass for biofuel production by an engineered yeast platform. *ACS Synthetic Biology*, **2015**, 4, 707-13	5.7	56
167	Rapid and marker-free refactoring of xylose-fermenting yeast strains with Cas9/CRISPR. *Biotechnology and Bioengineering*, **2015**, 112, 2406-11	4.9	54
166	Production of 2,3-butanediol from xylose by engineered Saccharomyces cerevisiae. *Journal of Biotechnology*, **2014**, 192 Pt B, 376-82	3.7	54
165	High expression of XYL2 coding for xylitol dehydrogenase is necessary for efficient xylose fermentation by engineered Saccharomyces cerevisiae. *Metabolic Engineering*, **2012**, 14, 336-43	9.7	53
164	Bioethanol production from cellulosic hydrolysates by engineered industrial Saccharomyces cerevisiae. *Bioresource Technology*, **2017**, 228, 355-361	11	51
163	Development of a gene knockout system using mobile group II introns (Targetron) and genetic disruption of acid production pathways in Clostridium beijerinckii. *Applied and Environmental Microbiology*, **2013**, 79, 5853-63	4.8	50
162	Integrated, systems metabolic picture of acetone-butanol-ethanol fermentation by Clostridium acetobutylicum. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 8505-10	11.5	49
161	Energetic benefits and rapid cellobiose fermentation by Saccharomyces cerevisiae expressing cellobiose phosphorylase and mutant cellodextrin transporters. *Metabolic Engineering*, **2013**, 15, 134-43	9.7	49
160	Deletion of PHO13, encoding haloacid dehalogenase type IIA phosphatase, results in upregulation of the pentose phosphate pathway in Saccharomyces cerevisiae. *Applied and Environmental Microbiology*, **2015**, 81, 1601-9	4.8	48
159	Production of a human milk oligosaccharide 2Sfucosyllactose by metabolically engineered Saccharomyces cerevisiae. *Microbial Cell Factories*, **2018**, 17, 101	6.4	46
158	Enhanced isoprenoid production from xylose by engineered Saccharomyces cerevisiae. *Biotechnology and Bioengineering*, **2017**, 114, 2581-2591	4.9	45
157	Metabolic Engineering of Probiotic Saccharomyces boulardii. *Applied and Environmental Microbiology*, **2016**, 82, 2280-2287	4.8	43
156	Analysis of cellodextrin transporters from Neurospora crassa in Saccharomyces cerevisiae for cellobiose fermentation. *Applied Microbiology and Biotechnology*, **2014**, 98, 1087-94	5.7	43
155	Fermentation of rice bran and defatted rice bran for butanol 5 production using clostridium beijerinckii NCIMB 8052. *Journal of Microbiology and Biotechnology*, **2009**, 19, 482-90	3.3	43
154	Simultaneous saccharification and fermentation by engineered Saccharomyces cerevisiae without supplementing extracellular □glucosidase. *Journal of Biotechnology*, **2013**, 167, 316-22	3.7	42

153	Expression of Lactococcus lactis NADH oxidase increases 2,3-butanediol production in Pdc-deficient Saccharomyces cerevisiae. *Bioresource Technology*, **2015**, 191, 512-9	11	41
152	Recycling Carbon Dioxide during Xylose Fermentation by Engineered Saccharomyces cerevisiae. *ACS Synthetic Biology*, **2017**, 6, 276-283	5.7	41
151	Lactic acid production from xylose by engineered Saccharomyces cerevisiae without PDC or ADH deletion. *Applied Microbiology and Biotechnology*, **2015**, 99, 8023-33	5.7	41
150	Bacterial persisters tolerate antibiotics by not producing hydroxyl radicals. *Biochemical and Biophysical Research Communications*, **2011**, 413, 105-10	3.4	41
149	Sh ble and Cre adapted for functional genomics and metabolic engineering of Pichia stipitis. *Enzyme and Microbial Technology*, **2006**, 38, 741-747	3.8	39
148	Development and physiological characterization of cellobiose-consuming Yarrowia lipolytica. *Biotechnology and Bioengineering*, **2015**, 112, 1012-22	4.9	38
147	Comparison of xylose fermentation by two high-performance engineered strains of. *Biotechnology Reports (Amsterdam, Netherlands)*, **2016**, 9, 53-56	5.3	38
146	Enhanced production of 2,3-butanediol by engineered through fine-tuning of pyruvate decarboxylase and NADH oxidase activities. *Biotechnology for Biofuels*, **2016**, 9, 265	7.8	38
145	Identification of gene disruptions for increased poly-3-hydroxybutyrate accumulation in Synechocystis PCC 6803. *Biotechnology Progress*, **2009**, 25, 1236-43	2.8	37
144	Improved squalene production through increasing lipid contents in Saccharomyces cerevisiae. *Biotechnology and Bioengineering*, **2018**, 115, 1793-1800	4.9	36
143	Characterization of Saccharomyces cerevisiae promoters for heterologous gene expression in Kluyveromyces marxianus. *Applied Microbiology and Biotechnology*, **2013**, 97, 2029-41	5.7	36
142	Xylitol production by a Pichia stipitis D-xylulokinase mutant. *Applied Microbiology and Biotechnology* , **2005**, 68, 42-5	5.7	36
141	Gene transcription repression in Clostridium beijerinckii using CRISPR-dCas9. *Biotechnology and Bioengineering*, **2016**, 113, 2739-2743	4.9	35
140	Optimization of an acetate reduction pathway for producing cellulosic ethanol by engineered yeast. *Biotechnology and Bioengineering*, **2016**, 113, 2587-2596	4.9	35
139	Glucose repression can be alleviated by reducing glucose phosphorylation rate in Saccharomyces cerevisiae. *Scientific Reports*, **2018**, 8, 2613	4.9	33
138	Xylitol does not inhibit xylose fermentation by engineered Saccharomyces cerevisiae expressing xylA as severely as it inhibits xylose isomerase reaction in vitro. *Applied Microbiology and Biotechnology*, **2011**, 92, 77-84	5.7	33
137	Overexpression of RCK1 improves acetic acid tolerance in Saccharomyces cerevisiae. *Journal of Biotechnology*, **2019**, 292, 1-4	3.7	33
136	Value-added biotransformation of cellulosic sugars by engineered Saccharomyces cerevisiae. *Bioresource Technology*, **2018**, 260, 380-394	11	32

135	2,3-butanediol production from cellobiose by engineered Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2014**, 98, 5757-64	5.7	31
134	Expanding xylose metabolism in yeast for plant cell wall conversion to biofuels. *ELife*, **2015**, 4,	8.9	30
133	Combined biomimetic and inorganic acids hydrolysis of hemicellulose in Miscanthus for bioethanol production. *Bioresource Technology*, **2012**, 110, 278-87	11	27
132	Feasibility of xylose fermentation by engineered Saccharomyces cerevisiae overexpressing endogenous aldose reductase (GRE3), xylitol dehydrogenase (XYL2), and xylulokinase (XYL3) from Scheffersomyces stipitis. *FEMS Yeast Research*, **2013**, 13, 312-21	3.1	27
131	Metabolic engineering of yeast for lignocellulosic biofuel production. *Current Opinion in Chemical Biology*, **2017**, 41, 99-106	9.7	27
130	Two-stage acidic-alkaline hydrothermal pretreatment of lignocellulose for the high recovery of cellulose and hemicellulose sugars. *Applied Biochemistry and Biotechnology*, **2013**, 169, 1069-87	3.2	26
129	Single amino acid substitutions in HXT2.4 from Scheffersomyces stipitis lead to improved cellobiose fermentation by engineered Saccharomyces cerevisiae. *Applied and Environmental Microbiology*, **2013**, 79, 1500-7	4.8	25
128	Vitamin A Production by Engineered from Xylose Two-Phase Extraction. *ACS Synthetic Biology*, **2019** , 8, 2131-2140	5.7	24
127	Molecular cloning and expression of fungal cellobiose transporters and □glucosidases conferring efficient cellobiose fermentation in Saccharomyces cerevisiae. *Journal of Biotechnology*, **2014**, 169, 34-41	3.7	24
126	Lactic acid production from cellobiose and xylose by engineered Saccharomyces cerevisiae. *Biotechnology and Bioengineering*, **2016**, 113, 1075-83	4.9	24
125	Xylose assimilation enhances the production of isobutanol in engineered Saccharomyces cerevisiae. *Biotechnology and Bioengineering*, **2020**, 117, 372-381	4.9	24
124	Continuous co-fermentation of cellobiose and xylose by engineered Saccharomyces cerevisiae. *Bioresource Technology*, **2013**, 149, 525-31	11	23
123	Biosynthesis of a Functional Human Milk Oligosaccharide, 2SFucosyllactose, and l-Fucose Using Engineered Saccharomyces cerevisiae. *ACS Synthetic Biology*, **2018**, 7, 2529-2536	5.7	23
122	Leveraging transcription factors to speed cellobiose fermentation by Saccharomyces cerevisiae. *Biotechnology for Biofuels*, **2014**, 7, 126	7.8	22
121	Overcoming inefficient cellobiose fermentation by cellobiose phosphorylase in the presence of xylose. *Biotechnology for Biofuels*, **2014**, 7, 85	7.8	22
120	Deletion of FPS1, encoding aquaglyceroporin Fps1p, improves xylose fermentation by engineered Saccharomyces cerevisiae. *Applied and Environmental Microbiology*, **2013**, 79, 3193-201	4.8	22
119	Xylose utilization stimulates mitochondrial production of isobutanol and 2-methyl-1-butanol in. *Biotechnology for Biofuels*, **2019**, 12, 223	7.8	21
118	Fumarate-Mediated Persistence of Escherichia coli against Antibiotics. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 2232-40	5.9	21

117	Combinatorial genetic perturbation to refine metabolic circuits for producing biofuels and biochemicals. *Biotechnology Advances*, **2013**, 31, 976-85	17.8	21
116	Leveraging transcription factors to speed cellobiose fermentation by. *Biotechnology for Biofuels*, **2014**, 7, 126	7.8	21
115	Overcoming the thermodynamic equilibrium of an isomerization reaction through oxidoreductive reactions for biotransformation. *Nature Communications*, **2019**, 10, 1356	17.4	20
114	GroE chaperonins assisted functional expression of bacterial enzymes in Saccharomyces cerevisiae. *Biotechnology and Bioengineering*, **2016**, 113, 2149-55	4.9	20
113	Gene Amplification on Demand Accelerates Cellobiose Utilization in Engineered Saccharomyces cerevisiae. *Applied and Environmental Microbiology*, **2016**, 82, 3631-3639	4.8	20
112	Construction of efficient xylose-fermenting Saccharomyces cerevisiae through a synthetic isozyme system of xylose reductase from Scheffersomyces stipitis. *Bioresource Technology*, **2017**, 241, 88-94	11	19
111	Tuning structural durability of yeast-encapsulating alginate gel beads with interpenetrating networks for sustained bioethanol production. *Biotechnology and Bioengineering*, **2012**, 109, 63-73	4.9	19
110	Characterization of a Clostridium beijerinckii spo0A mutant and its application for butyl butyrate production. *Biotechnology and Bioengineering*, **2017**, 114, 106-112	4.9	19
109	Engineering of Saccharomyces cerevisiae for efficient fermentation of cellulose. *FEMS Yeast Research*, **2020**, 20,	3.1	19
108	Sustainable Lactic Acid Production from Lignocellulosic Biomass. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 1341-1351	8.3	18
107	Production of galactitol from galactose by the oleaginous yeast IFO0880. *Biotechnology for Biofuels* , **2019**, 12, 250	7.8	17
106	Lactose fermentation by engineered Saccharomyces cerevisiae capable of fermenting cellobiose. *Journal of Biotechnology*, **2016**, 234, 99-104	3.7	17
105	Metabolic engineering of a haploid strain derived from a triploid industrial yeast for producing cellulosic ethanol. *Metabolic Engineering*, **2017**, 40, 176-185	9.7	16
104	Comparative global metabolite profiling of xylose-fermenting Saccharomyces cerevisiae SR8 and Scheffersomyces stipitis. *Applied Microbiology and Biotechnology*, **2019**, 103, 5435-5446	5.7	16
103	Construction of an efficient xylose-fermenting diploid Saccharomyces cerevisiae strain through mating of two engineered haploid strains capable of xylose assimilation. *Journal of Biotechnology*, **2013**, 164, 105-11	3.7	16
102	Direct fermentation of Jerusalem artichoke tuber powder for production of l-lactic acid and d-lactic acid by metabolically engineered Kluyveromyces marxianus. *Journal of Biotechnology*, **2018**, 266, 27-33	3.7	16
101	Improved ethanol production by engineered Saccharomyces cerevisiae expressing a mutated cellobiose transporter during simultaneous saccharification and fermentation. *Journal of Biotechnology*, **2017**, 245, 1-8	3.7	15
100	Elimination of the cryptic plasmid in Leuconostoc citreum by CRISPR/Cas9 system. *Journal of Biotechnology*, **2017**, 251, 151-155	3.7	15

99	Short communication: Conversion of lactose and whey into lactic acid by engineered yeast. *Journal of Dairy Science*, **2017**, 100, 124-128	4	15
98	Repeated-batch fermentations of xylose and glucose-xylose mixtures using a respiration-deficient Saccharomyces cerevisiae engineered for xylose metabolism. *Journal of Biotechnology*, **2010**, 150, 404-7	3.7	14
97	A search for synthetic peptides that inhibit soluble N-ethylmaleimide sensitive-factor attachment receptor-mediated membrane fusion. *FEBS Journal*, **2008**, 275, 3051-63	5.7	14
96	Uncovering the nutritional landscape of food. *PLoS ONE*, **2015**, 10, e0118697	3.7	14
95	High-level β-carotene production from xylose by engineered Saccharomyces cerevisiae without overexpression of a truncated HMG1 (tHMG1). *Biotechnology and Bioengineering*, **2020**, 117, 3522-3532	4.9	14
94	Rapid and efficient galactose fermentation by engineered Saccharomyces cerevisiae. *Journal of Biotechnology*, **2016**, 229, 13-21	3.7	14
93	Production of xylose enriched hydrolysate from bioenergy sorghum and its conversion to β-carotene using an engineered Saccharomyces cerevisiae. *Bioresource Technology*, **2020**, 308, 123275	11	14
92	Enhanced production of 2,3-butanediol in pyruvate decarboxylase-deficient Saccharomyces cerevisiae through optimizing ratio of glucose/galactose. *Biotechnology Journal*, **2016**, 11, 1424-1432	5.6	12
91	Promiscuous activities of heterologous enzymes lead to unintended metabolic rerouting in engineered to assimilate various sugars from renewable biomass. *Biotechnology for Biofuels*, **2018**, 11, 140	7.8	12
90	Expression of Gre2p improves tolerance of engineered xylose-fermenting Saccharomyces cerevisiae to glycolaldehyde under xylose metabolism. *Applied Microbiology and Biotechnology*, **2018**, 102, 8121-8133	5.7	12
89	Synchronization of stochastic expressions drives the clustering of functionally related genes. *Science Advances*, **2019**, 5, eaax6525	14.3	12
88	Investigation of the functional role of aldose 1-epimerase in engineered cellobiose utilization. *Journal of Biotechnology*, **2013**, 168, 1-6	3.7	12
87	Redirection of the Glycolytic Flux Enhances Isoprenoid Production in Saccharomyces cerevisiae. *Biotechnology Journal*, **2020**, 15, e1900173	5.6	12
86	Metabolic engineering of Saccharomyces cerevisiae for production of spermidine under optimal culture conditions. *Enzyme and Microbial Technology*, **2017**, 101, 30-35	3.8	11
85	Investigation of protein expression profiles of erythritol-producing Candida magnoliae in response to glucose perturbation. *Enzyme and Microbial Technology*, **2013**, 53, 174-80	3.8	11
84	Genomic, Transcriptional, and Phenotypic Analysis of the Glucose Derepressed Clostridium beijerinckii Mutant Exhibiting Acid Crash Phenotype. *Biotechnology Journal*, **2017**, 12, 1700182	5.6	11
83	Bioprocessing and technoeconomic feasibility analysis of simultaneous production of d-psicose and ethanol using engineered yeast strain KAM-2GD. *Bioresource Technology*, **2019**, 275, 27-34	11	11
82	Development of an oxygen-independent flavin mononucleotide-based fluorescent reporter system in Clostridium beijerinckii and its potential applications. *Journal of Biotechnology*, **2018**, 265, 119-126	3.7	11

81	Effects of acclimation and pH on ammonia inhibition for mesophilic methanogenic microflora. *Waste Management*, **2018**, 80, 218-223	8.6	11
80	Enhanced ethanol fermentation by engineered Saccharomyces cerevisiae strains with high spermidine contents. *Bioprocess and Biosystems Engineering*, **2017**, 40, 683-691	3.7	10
79	Enhanced xylose fermentation by engineered yeast expressing NADH oxidase through high cell density inoculums. *Journal of Industrial Microbiology and Biotechnology*, **2017**, 44, 387-395	4.2	10
78	Deletion of JEN1 and ADY2 reduces lactic acid yield from an engineered Saccharomyces cerevisiae, in xylose medium, expressing a heterologous lactate dehydrogenase. *FEMS Yeast Research*, **2019**, 19,	3.1	10
77	A Mutation in Causing Inefficient Galactose Metabolism in the Probiotic Yeast Saccharomyces boulardii. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	10
76	Deletion of glycerol-3-phosphate dehydrogenase genes improved 2,3-butanediol production by reducing glycerol production in pyruvate decarboxylase-deficient Saccharomyces cerevisiae. *Journal of Biotechnology*, **2019**, 304, 31-37	3.7	10
75	Evaluation of Ethanol Production Activity by Engineered Saccharomyces cerevisiae Fermenting Cellobiose through the Phosphorolytic Pathway in Simultaneous Saccharification and Fermentation of Cellulose. *Journal of Microbiology and Biotechnology*, **2017**, 27, 1649-1656	3.3	10
74	Engineering and Evolution of Saccharomyces cerevisiae to Produce Biofuels and Chemicals. *Advances in Biochemical Engineering/Biotechnology*, **2018**, 162, 175-215	1.7	10
73	Mitigating health risks associated with alcoholic beverages through metabolic engineering. *Current Opinion in Biotechnology*, **2016**, 37, 173-181	11.4	9
72	Yeast Derived LysA2 Can Control Bacterial Contamination in Ethanol Fermentation. *Viruses*, **2018**, 10,	6.2	9
71	Bacterial Genome Editing with CRISPR-Cas9: Taking Clostridium beijerinckii as an Example. *Methods in Molecular Biology*, **2018**, 1772, 297-325	1.4	9
70	Yeast synthetic biology toolbox and applications for biofuel production. *FEMS Yeast Research*, **2015** , 15, 1-15	3.1	9
69	In-depth understanding of molecular mechanisms of aldehyde toxicity to engineer robust Saccharomyces cerevisiae. *Applied Microbiology and Biotechnology*, **2021**, 105, 2675-2692	5.7	9
68	Engineering xylose metabolism in yeasts to produce biofuels and chemicals. *Current Opinion in Biotechnology*, **2021**, 67, 15-25	11.4	9
67	Transporter engineering for cellobiose fermentation under lower pH conditions by engineered Saccharomyces cerevisiae. *Bioresource Technology*, **2017**, 245, 1469-1475	11	8
66	Effects of genetic variation and growing condition of prairie cordgrass on feedstock composition and ethanol yield. *Bioresource Technology*, **2015**, 183, 70-7	11	8
65	Restoration of growth phenotypes of Escherichia coli DH5alpha in minimal media through reversal of a point mutation in purB. *Applied and Environmental Microbiology*, **2010**, 76, 6307-9	4.8	8
64	Assembly of Coenzyme Q10 nanostructure resembling nascent discoidal high density lipoprotein particle. *Biochemical and Biophysical Research Communications*, **2009**, 388, 217-21	3.4	8

63	Metabolic engineering considerations for the heterologous expression of xylose-catabolic pathways in Saccharomyces cerevisiae. *PLoS ONE*, **2020**, 15, e0236294	3.7	8
62	Overproduction of Exopolysaccharide Colanic Acid by Escherichia coli by Strain Engineering and Media Optimization. *Applied Biochemistry and Biotechnology*, **2021**, 193, 111-127	3.2	8
61	Production of (S)-3-hydroxybutyrate by metabolically engineered Saccharomyces cerevisiae. *Journal of Biotechnology*, **2015**, 209, 23-30	3.7	7
60	Biological upgrading of 3,6-anhydro-L-galactose from agarose to a new platform chemical. *Green Chemistry*, **2020**, 22, 1776-1785	10	7
59	Metabolomic elucidation of the effects of media and carbon sources on fatty acid production by Yarrowia lipolytica. *Journal of Biotechnology*, **2018**, 272-273, 7-13	3.7	7
58	Enhanced cellobiose fermentation by engineered Saccharomyces cerevisiae expressing a mutant cellodextrin facilitator and cellobiose phosphorylase. *Journal of Biotechnology*, **2018**, 275, 53-59	3.7	7
57	Phenotypic evaluation and characterization of 21 industrial Saccharomyces cerevisiae yeast strains. *FEMS Yeast Research*, **2018**, 18,	3.1	7
56	Metabolic engineering of Saccharomyces cerevisiae by using the CRISPR-Cas9 system for enhanced fatty acid production. *Process Biochemistry*, **2018**, 73, 23-28	4.8	7
55	Laboratory-scale production of 13C-labeled lycopene and phytoene by bioengineered Escherichia coli. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 9996-10005	5.7	7
54	Increased Accumulation of Squalene in Engineered Yarrowia lipolytica through Deletion of and. *Applied and Environmental Microbiology*, **2021**, 87, e0048121	4.8	7
53	Enhanced hexose fermentation by Saccharomyces cerevisiae through integration of stoichiometric modeling and genetic screening. *Journal of Biotechnology*, **2015**, 194, 48-57	3.7	6
52	Enhanced 2SFucosyllactose production by engineered Saccharomyces cerevisiae using xylose as a co-substrate. *Metabolic Engineering*, **2020**, 62, 322-329	9.7	6
51	A comparative phenotypic and genomic analysis of Clostridium beijerinckii mutant with enhanced solvent production. *Journal of Biotechnology*, **2021**, 329, 49-55	3.7	6
50	A SWEET surprise: Anaerobic fungal sugar transporters and chimeras enhance sugar uptake in yeast. *Metabolic Engineering*, **2021**, 66, 137-147	9.7	6
49	Xylose Assimilation for the Efficient Production of Biofuels and Chemicals by Engineered Saccharomyces cerevisiae. *Biotechnology Journal*, **2021**, 16, e2000142	5.6	6
48	Biosynthetic Routes for Producing Various Fucosyl-Oligosaccharides. *ACS Synthetic Biology*, **2019**, 8, 415-424	5.7	5
47	L-Fucose production by engineered Escherichia coli. *Biotechnology and Bioengineering*, **2019**, 116, 904-914	4.9	5
46	Complete and efficient conversion of plant cell wall hemicellulose into high-value bioproducts by engineered yeast. *Nature Communications*, **2021**, 12, 4975	17.4	5

45	Direct conversion of cellulose into ethanol and ethyl-□-glucoside via engineered Saccharomyces cerevisiae. *Biotechnology and Bioengineering*, **2018**, 115, 2859-2868	4.9	4
44	In Vitro Prebiotic and Anti-Colon Cancer Activities of Agar-Derived Sugars from Red Seaweeds. *Marine Drugs*, **2021**, 19,	6	4
43	Domesticating a food spoilage yeast into an organic acid-tolerant metabolic engineering host: Lactic acid production by engineered Zygosaccharomyces bailii. *Biotechnology and Bioengineering*, **2021**, 118, 372-382	4.9	4
42	Identification and analysis of sugar transporters capable of co-transporting glucose and xylose simultaneously. *Biotechnology Journal*, **2021**, 16, e2100238	5.6	4
41	An extra copy of the □glucosidase gene improved the cellobiose fermentation capability of an engineered strain. *3 Biotech*, **2019**, 9, 367	2.8	3
40	Development of fluorescent Escherichia coli for a whole-cell sensor of 2Sfucosyllactose. *Scientific Reports*, **2020**, 10, 10514	4.9	3
39	Synthetic Whole-Cell Biodevices for Targeted Degradation of Antibiotics. *Scientific Reports*, **2018**, 8, 2906	4.9	3
38	Towards a microarray of functional membrane proteins: Assembly of a surface-attachable, membrane-protein-anchored membrane structure using apolipoprotein A-1. *Enzyme and Microbial Technology*, **2009**, 44, 217-222	3.8	3
37	Next-Generation Genetic and Fermentation Technologies for Safe and Sustainable Production of Food Ingredients: Colors and Flavorings.. *Annual Review of Food Science and Technology*, **2022**,	14.7	3
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