

Youg-Su Jin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Next-Generation Genetic and Fermentation Technologies for Safe and Sustainable Production of Food Ingredients: Colors and Flavorings.. <i>Annual Review of Food Science and Technology</i> , 2022 ,	14.7	3
205	Dissection and enhancement of prebiotic properties of yeast cell wall oligosaccharides through metabolic engineering.. <i>Biomaterials</i> , 2022 , 282, 121379	15.6	0
204	Genome-edited <i>Saccharomyces cerevisiae</i> strains for improving quality, safety, and flavor of fermented foods.. <i>Food Microbiology</i> , 2022 , 104, 103971	6	1
203	Xylo-Oligosaccharide Utilization by Engineered to Produce Ethanol.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 825981	5.8	0
202	Near-Complete Genome Sequence of <i>Zygosaccharomyces rouxii</i> NRRL Y-64007, a Yeast Capable of Growing on Lignocellulosic Hydrolysates.. <i>Microbiology Resource Announcements</i> , 2022 , e0005022	1.3	
201	Effects of engineered fermenting cellobiose through low-energy-consuming phosphorolytic pathway in simultaneous saccharification and fermentation.. <i>Journal of Microbiology and Biotechnology</i> , 2021 , 32,	3.3	1
200	Photoautotrophic organic acid production: Glycolic acid production by microalgal cultivation. <i>Chemical Engineering Journal</i> , 2021 , 133636	14.7	2
199	Directed evolution and secretory expression of xylose isomerase for improved utilisation of xylose in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2021 , 14, 223	7.8	2
198	Yeast metabolic engineering for carbon dioxide fixation and its application. <i>Bioresource Technology</i> , 2021 , 126349	11	0
197	Microalgal metabolic engineering strategies for the production of fuels and chemicals.. <i>Bioresource Technology</i> , 2021 , 345, 126529	11	3
196	In-depth understanding of molecular mechanisms of aldehyde toxicity to engineer robust <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 2675-2692	5.7	9
195	A comparative phenotypic and genomic analysis of <i>Clostridium beijerinckii</i> mutant with enhanced solvent production. <i>Journal of Biotechnology</i> , 2021 , 329, 49-55	3.7	6
194	Transcriptomic Changes Induced by Deletion of Transcriptional Regulator on Pentose Sugar Metabolism in. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 654177	5.8	1
193	In Vitro Prebiotic and Anti-Colon Cancer Activities of Agar-Derived Sugars from Red Seaweeds. <i>Marine Drugs</i> , 2021 , 19,	6	4
192	Investigating the role of the transcriptional regulator Ure2 on the metabolism of <i>Saccharomyces cerevisiae</i> : a multi-omics approach. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 5103-5112	5.7	0
191	Conversion of High-Solids Hydrothermally Pretreated Bioenergy Sorghum to Lipids and Ethanol Using Yeast Cultures. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8515-8525	8.3	3
190	A SWEET surprise: Anaerobic fungal sugar transporters and chimeras enhance sugar uptake in yeast. <i>Metabolic Engineering</i> , 2021 , 66, 137-147	9.7	6

189	Xylose Assimilation for the Efficient Production of Biofuels and Chemicals by Engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2021 , 16, e2000142	5.6	6
188	Domesticating a food spoilage yeast into an organic acid-tolerant metabolic engineering host: Lactic acid production by engineered <i>Zygosaccharomyces bailii</i> . <i>Biotechnology and Bioengineering</i> , 2021 , 118, 372-382	4.9	4
187	Engineering xylose metabolism in yeasts to produce biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2021 , 67, 15-25	11.4	9
186	Overproduction of Exopolysaccharide Colanic Acid by <i>Escherichia coli</i> by Strain Engineering and Media Optimization. <i>Applied Biochemistry and Biotechnology</i> , 2021 , 193, 111-127	3.2	8
185	Sustainable Lactic Acid Production from Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1341-1351	8.3	18
184	Metabolic and enzymatic elucidation of cooperative degradation of red seaweed agarose by two human gut bacteria. <i>Scientific Reports</i> , 2021 , 11, 13955	4.9	2
183	Observation of Cellodextrin Accumulation Resulted from Non-Conventional Secretion of Intracellular α -Glucosidase by Engineered Fermenting Cellobiose. <i>Journal of Microbiology and Biotechnology</i> , 2021 , 31, 1035-1043	3.3	0
182	Glycolate production by a <i>Chlamydomonas reinhardtii</i> mutant lacking carbon-concentrating mechanism. <i>Journal of Biotechnology</i> , 2021 , 335, 39-46	3.7	3
181	Metabolic engineering of non-pathogenic microorganisms for 2,3-butanediol production. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 5751-5767	5.7	1
180	L-malic acid production from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2021 , e2000431	5.6	2
179	Complete and efficient conversion of plant cell wall hemicellulose into high-value bioproducts by engineered yeast. <i>Nature Communications</i> , 2021 , 12, 4975	17.4	5
178	Increased Accumulation of Squalene in Engineered <i>Yarrowia lipolytica</i> through Deletion of and. <i>Applied and Environmental Microbiology</i> , 2021 , 87, e0048121	4.8	7
177	Production of neoagarooligosaccharides by probiotic yeast <i>Saccharomyces cerevisiae</i> var. <i>boulardii</i> engineered as a microbial cell factory. <i>Microbial Cell Factories</i> , 2021 , 20, 160	6.4	3
176	Enhancing acid tolerance of <i>Escherichia coli</i> via viroporin-mediated export of protons and its application for efficient whole-cell biotransformation. <i>Metabolic Engineering</i> , 2021 , 67, 277-284	9.7	2
175	Increased Production of Colanic Acid by an Engineered <i>Escherichia coli</i> Strain, Mediated by Genetic and Environmental Perturbations. <i>Applied Biochemistry and Biotechnology</i> , 2021 , 193, 4083-4096	3.2	0
174	Metabolic engineering of the oleaginous yeast <i>Yarrowia lipolytica</i> PO1f for production of erythritol from glycerol. <i>Biotechnology for Biofuels</i> , 2021 , 14, 188	7.8	3
173	Improved bio-hydrogen production by overexpression of glucose-6-phosphate dehydrogenase and FeFe hydrogenase in <i>Clostridium acetobutylicum</i> . <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 36687-36687	6.7	1
172	Identification and analysis of sugar transporters capable of co-transporting glucose and xylose simultaneously. <i>Biotechnology Journal</i> , 2021 , 16, e2100238	5.6	4

171	Integrating transcriptomic and metabolomic analysis of the oleaginous yeast <i>Rhodospiridium toruloides</i> IFO0880 during growth under different carbon sources. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 7411-7425	5.7	2
170	2SFucosyllactose production in engineered <i>Escherichia coli</i> with deletion of <i>waaF</i> and <i>wcaJ</i> and overexpression of <i>FucT2</i> . <i>Journal of Biotechnology</i> , 2021 , 340, 30-38	3.7	1
169	Fast filtration with a vacuum manifold system as a rapid and robust metabolome sampling method for <i>Saccharomyces cerevisiae</i> . <i>Process Biochemistry</i> , 2021 , 110, 195-200	4.8	0
168	Process design and techno-economic analysis of 2SFucosyllactose enriched distiller's dried grains with solubles production in dry grind ethanol process using genetically engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2021 , 341, 125919	11	0
167	Development of fluorescent <i>Escherichia coli</i> for a whole-cell sensor of 2SFucosyllactose. <i>Scientific Reports</i> , 2020 , 10, 10514	4.9	3
166	Biological upgrading of 3,6-anhydro-L-galactose from agarose to a new platform chemical. <i>Green Chemistry</i> , 2020 , 22, 1776-1785	10	7
165	Engineering of <i>Saccharomyces cerevisiae</i> for efficient fermentation of cellulose. <i>FEMS Yeast Research</i> , 2020 , 20,	3.1	19
164	High-level β -carotene production from xylose by engineered <i>Saccharomyces cerevisiae</i> without overexpression of a truncated <i>HMG1</i> (<i>tHMG1</i>). <i>Biotechnology and Bioengineering</i> , 2020 , 117, 3522-3532	4.9	14
163	Metabolic engineering considerations for the heterologous expression of xylose-catabolic pathways in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2020 , 15, e0236294	3.7	8
162	Enhanced 2SFucosyllactose production by engineered <i>Saccharomyces cerevisiae</i> using xylose as a co-substrate. <i>Metabolic Engineering</i> , 2020 , 62, 322-329	9.7	6
161	The pH-stat Butyric Acid Feeding Strategy Coupled with Gas-Stripping for n-Butanol Production by <i>Clostridium beijerinckii</i> . <i>Waste and Biomass Valorization</i> , 2020 , 11, 1077-1084	3.2	1
160	Redirection of the Glycolytic Flux Enhances Isoprenoid Production in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2020 , 15, e1900173	5.6	12
159	Xylose assimilation enhances the production of isobutanol in engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2020 , 117, 372-381	4.9	24
158	Production of xylose enriched hydrolysate from bioenergy sorghum and its conversion to β -carotene using an engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2020 , 308, 123275	11	14
157	Metabolic engineering considerations for the heterologous expression of xylose-catabolic pathways in <i>Saccharomyces cerevisiae</i> 2020 , 15, e0236294		
156	Metabolic engineering considerations for the heterologous expression of xylose-catabolic pathways in <i>Saccharomyces cerevisiae</i> 2020 , 15, e0236294		
155	Metabolic engineering considerations for the heterologous expression of xylose-catabolic pathways in <i>Saccharomyces cerevisiae</i> 2020 , 15, e0236294		
154	Metabolic engineering considerations for the heterologous expression of xylose-catabolic pathways in <i>Saccharomyces cerevisiae</i> 2020 , 15, e0236294		

153	Production of galactitol from galactose by the oleaginous yeast IFO0880. <i>Biotechnology for Biofuels</i> , 2019 , 12, 250	7.8	17
152	Deletion of JEN1 and ADY2 reduces lactic acid yield from an engineered <i>Saccharomyces cerevisiae</i> , in xylose medium, expressing a heterologous lactate dehydrogenase. <i>FEMS Yeast Research</i> , 2019 , 19,	3.1	10
151	Xylose utilization stimulates mitochondrial production of isobutanol and 2-methyl-1-butanol in. <i>Biotechnology for Biofuels</i> , 2019 , 12, 223	7.8	21
150	An extra copy of the <i>Eglucosidase</i> gene improved the cellobiose fermentation capability of an engineered strain. <i>3 Biotech</i> , 2019 , 9, 367	2.8	3
149	Biosynthetic Routes for Producing Various Fucosyl-Oligosaccharides. <i>ACS Synthetic Biology</i> , 2019 , 8, 415-424	4.7	5
148	Comparative global metabolite profiling of xylose-fermenting <i>Saccharomyces cerevisiae</i> SR8 and <i>Scheffersomyces stipitis</i> . <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 5435-5446	5.7	16
147	Overcoming the thermodynamic equilibrium of an isomerization reaction through oxidoreductive reactions for biotransformation. <i>Nature Communications</i> , 2019 , 10, 1356	17.4	20
146	Vitamin A Production by Engineered from Xylose Two-Phase Extraction. <i>ACS Synthetic Biology</i> , 2019 , 8, 2131-2140	5.7	24
145	Synchronization of stochastic expressions drives the clustering of functionally related genes. <i>Science Advances</i> , 2019 , 5, eaax6525	14.3	12
144	Deletion of glycerol-3-phosphate dehydrogenase genes improved 2,3-butanediol production by reducing glycerol production in pyruvate decarboxylase-deficient <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2019 , 304, 31-37	3.7	10
143	L-Fucose production by engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2019 , 116, 904-914	14.9	5
142	Production of biofuels and chemicals from xylose using native and engineered yeast strains. <i>Biotechnology Advances</i> , 2019 , 37, 271-283	17.8	71
141	Overexpression of RCK1 improves acetic acid tolerance in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2019 , 292, 1-4	3.7	33
140	Bioprocessing and techno-economic feasibility analysis of simultaneous production of d-psicose and ethanol using engineered yeast strain KAM-2GD. <i>Bioresource Technology</i> , 2019 , 275, 27-34	11	11
139	Metabolomic elucidation of the effects of media and carbon sources on fatty acid production by <i>Yarrowia lipolytica</i> . <i>Journal of Biotechnology</i> , 2018 , 272-273, 7-13	3.7	7
138	Improved squalene production through increasing lipid contents in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2018 , 115, 1793-1800	4.9	36
137	Value-added biotransformation of cellulosic sugars by engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2018 , 260, 380-394	11	32
136	Enhanced cellobiose fermentation by engineered <i>Saccharomyces cerevisiae</i> expressing a mutant cellodextrin facilitator and cellobiose phosphorylase. <i>Journal of Biotechnology</i> , 2018 , 275, 53-59	3.7	7

135	Synthetic Whole-Cell Biodevices for Targeted Degradation of Antibiotics. <i>Scientific Reports</i> , 2018 , 8, 2906-9	4.9	3
134	Glucose repression can be alleviated by reducing glucose phosphorylation rate in <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , 2018 , 8, 2613	4.9	33
133	Phenotypic evaluation and characterization of 21 industrial <i>Saccharomyces cerevisiae</i> yeast strains. <i>FEMS Yeast Research</i> , 2018 , 18,	3.1	7
132	Microbial Metabolic Engineering for Production of Food Ingredients 2018 , 359-372		2
131	A Mutation in Causing Inefficient Galactose Metabolism in the Probiotic Yeast <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	10
130	Metabolic engineering of <i>Saccharomyces cerevisiae</i> by using the CRISPR-Cas9 system for enhanced fatty acid production. <i>Process Biochemistry</i> , 2018 , 73, 23-28	4.8	7
129	Promiscuous activities of heterologous enzymes lead to unintended metabolic rerouting in engineered to assimilate various sugars from renewable biomass. <i>Biotechnology for Biofuels</i> , 2018 , 11, 140	7.8	12
128	Yeast Derived LysA2 Can Control Bacterial Contamination in Ethanol Fermentation. <i>Viruses</i> , 2018 , 10,	6.2	9
127	Direct conversion of cellulose into ethanol and ethyl- β -glucoside via engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2859-2868	4.9	4
126	Production of a human milk oligosaccharide 2Sfucosyllactose by metabolically engineered <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2018 , 17, 101	6.4	46
125	Expression of Gre2p improves tolerance of engineered xylose-fermenting <i>Saccharomyces cerevisiae</i> to glycolaldehyde under xylose metabolism. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 8121-8133	5.7	12
124	Bacterial Genome Editing with CRISPR-Cas9: Taking <i>Clostridium beijerinckii</i> as an Example. <i>Methods in Molecular Biology</i> , 2018 , 1772, 297-325	1.4	9
123	Engineering and Evolution of <i>Saccharomyces cerevisiae</i> to Produce Biofuels and Chemicals. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2018 , 162, 175-215	1.7	10
122	Direct fermentation of Jerusalem artichoke tuber powder for production of l-lactic acid and d-lactic acid by metabolically engineered <i>Kluyveromyces marxianus</i> . <i>Journal of Biotechnology</i> , 2018 , 266, 27-33	3.7	16
121	Development of an oxygen-independent flavin mononucleotide-based fluorescent reporter system in <i>Clostridium beijerinckii</i> and its potential applications. <i>Journal of Biotechnology</i> , 2018 , 265, 119-126	3.7	11
120	Effects of acclimation and pH on ammonia inhibition for mesophilic methanogenic microflora. <i>Waste Management</i> , 2018 , 80, 218-223	8.6	11
119	Biosynthesis of a Functional Human Milk Oligosaccharide, 2Sfucosyllactose, and l-Fucose Using Engineered <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2018 , 7, 2529-2536	5.7	23
118	Enhanced ethanol fermentation by engineered <i>Saccharomyces cerevisiae</i> strains with high spermidine contents. <i>Bioprocess and Biosystems Engineering</i> , 2017 , 40, 683-691	3.7	10

117	Improved ethanol production by engineered <i>Saccharomyces cerevisiae</i> expressing a mutated cellobiose transporter during simultaneous saccharification and fermentation. <i>Journal of Biotechnology</i> , 2017 , 245, 1-8	3.7	15
116	Enhanced xylose fermentation by engineered yeast expressing NADH oxidase through high cell density inoculums. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 387-395	4.2	10
115	Metabolic engineering of a haploid strain derived from a triploid industrial yeast for producing cellulosic ethanol. <i>Metabolic Engineering</i> , 2017 , 40, 176-185	9.7	16
114	Elimination of the cryptic plasmid in <i>Leuconostoc citreum</i> by CRISPR/Cas9 system. <i>Journal of Biotechnology</i> , 2017 , 251, 151-155	3.7	15
113	Production of fuels and chemicals from xylose by engineered <i>Saccharomyces cerevisiae</i> : a review and perspective. <i>Microbial Cell Factories</i> , 2017 , 16, 82	6.4	15 ¹
112	Global metabolic interaction network of the human gut microbiota for context-specific community-scale analysis. <i>Nature Communications</i> , 2017 , 8, 15393	17.4	129
111	Construction of efficient xylose-fermenting <i>Saccharomyces cerevisiae</i> through a synthetic isozyme system of xylose reductase from <i>Scheffersomyces stipitis</i> . <i>Bioresource Technology</i> , 2017 , 241, 88-94	11	19
110	Transporter engineering for cellobiose fermentation under lower pH conditions by engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2017 , 245, 1469-1475	11	8
109	Metabolic engineering of <i>Saccharomyces cerevisiae</i> for production of spermidine under optimal culture conditions. <i>Enzyme and Microbial Technology</i> , 2017 , 101, 30-35	3.8	11
108	Bioethanol production from cellulosic hydrolysates by engineered industrial <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2017 , 228, 355-361	11	51
107	Enhanced isoprenoid production from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2581-2591	4.9	45
106	Genomic, Transcriptional, and Phenotypic Analysis of the Glucose Derepressed <i>Clostridium beijerinckii</i> Mutant Exhibiting Acid Crash Phenotype. <i>Biotechnology Journal</i> , 2017 , 12, 1700182	5.6	11
105	Metabolic engineering of yeast for lignocellulosic biofuel production. <i>Current Opinion in Chemical Biology</i> , 2017 , 41, 99-106	9.7	27
104	Short communication: Conversion of lactose and whey into lactic acid by engineered yeast. <i>Journal of Dairy Science</i> , 2017 , 100, 124-128	4	15
103	Recycling Carbon Dioxide during Xylose Fermentation by Engineered <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2017 , 6, 276-283	5.7	41
102	Characterization of a <i>Clostridium beijerinckii</i> spo0A mutant and its application for butyl butyrate production. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 106-112	4.9	19
101	Evaluation of Ethanol Production Activity by Engineered <i>Saccharomyces cerevisiae</i> Fermenting Cellobiose through the Phosphorolytic Pathway in Simultaneous Saccharification and Fermentation of Cellulose. <i>Journal of Microbiology and Biotechnology</i> , 2017 , 27, 1649-1656	3.3	10
100	Lactose fermentation by engineered <i>Saccharomyces cerevisiae</i> capable of fermenting cellobiose. <i>Journal of Biotechnology</i> , 2016 , 234, 99-104	3.7	17

99	Enhanced production of 2,3-butanediol in pyruvate decarboxylase-deficient <i>Saccharomyces cerevisiae</i> through optimizing ratio of glucose/galactose. <i>Biotechnology Journal</i> , 2016 , 11, 1424-1432	5.6	12
98	Overcoming the limited availability of human milk oligosaccharides: challenges and opportunities for research and application. <i>Nutrition Reviews</i> , 2016 , 74, 635-44	6.4	77
97	GroE chaperonins assisted functional expression of bacterial enzymes in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2149-55	4.9	20
96	Mitigating health risks associated with alcoholic beverages through metabolic engineering. <i>Current Opinion in Biotechnology</i> , 2016 , 37, 173-181	11.4	9
95	Comparison of xylose fermentation by two high-performance engineered strains of. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2016 , 9, 53-56	5.3	38
94	Fumarate-Mediated Persistence of <i>Escherichia coli</i> against Antibiotics. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 2232-40	5.9	21
93	Metabolic Engineering of Probiotic <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , 2016 , 82, 2280-2287	4.8	43
92	Recent advances in biological production of sugar alcohols. <i>Current Opinion in Biotechnology</i> , 2016 , 37, 105-113	11.4	86
91	PHO13 deletion-induced transcriptional activation prevents sedoheptulose accumulation during xylose metabolism in engineered <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2016 , 34, 88-96	9.7	66
90	Effect of the Two-Stage Autohydrolysis of Hardwood on the Enzymatic Saccharification and Subsequent Fermentation with an Efficient Xylose-Utilizing <i>Saccharomyces cerevisiae</i> . <i>BioResources</i> , 2016 , 11,	1.3	1
89	Gene transcription repression in <i>Clostridium beijerinckii</i> using CRISPR-dCas9. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2739-2743	4.9	35
88	Optimization of an acetate reduction pathway for producing cellulosic ethanol by engineered yeast. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2587-2596	4.9	35
87	Lactic acid production from cellobiose and xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1075-83	4.9	24
86	Enhanced production of 2,3-butanediol by engineered through fine-tuning of pyruvate decarboxylase and NADH oxidase activities. <i>Biotechnology for Biofuels</i> , 2016 , 9, 265	7.8	38
85	Rapid and efficient galactose fermentation by engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2016 , 229, 13-21	3.7	14
84	Gene Amplification on Demand Accelerates Cellobiose Utilization in Engineered <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2016 , 82, 3631-3639	4.8	20
83	Bacterial Genome Editing with CRISPR-Cas9: Deletion, Integration, Single Nucleotide Modification, and Desirable "Clean" Mutant Selection in <i>Clostridium beijerinckii</i> as an Example. <i>ACS Synthetic Biology</i> , 2016 , 5, 721-32	5.7	112
82	Simultaneous utilization of cellobiose, xylose, and acetic acid from lignocellulosic biomass for biofuel production by an engineered yeast platform. <i>ACS Synthetic Biology</i> , 2015 , 4, 707-13	5.7	56

81	Effects of genetic variation and growing condition of prairie cordgrass on feedstock composition and ethanol yield. <i>Bioresource Technology</i> , 2015 , 183, 70-7	11	8
80	Enhanced tolerance of <i>Saccharomyces cerevisiae</i> to multiple lignocellulose-derived inhibitors through modulation of spermidine contents. <i>Metabolic Engineering</i> , 2015 , 29, 46-55	9.7	60
79	Expression of <i>Lactococcus lactis</i> NADH oxidase increases 2,3-butanediol production in Pdc-deficient <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2015 , 191, 512-9	11	41
78	Production of (S)-3-hydroxybutyrate by metabolically engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2015 , 209, 23-30	3.7	7
77	Integrated, systems metabolic picture of acetone-butanol-ethanol fermentation by <i>Clostridium acetobutylicum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8505-10	11.5	49
76	Deletion of PHO13, encoding haloacid dehalogenase type IIA phosphatase, results in upregulation of the pentose phosphate pathway in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2015 , 81, 1601-9	4.8	48
75	Development and physiological characterization of cellobiose-consuming <i>Yarrowia lipolytica</i> . <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1012-22	4.9	38
74	Rapid and marker-free refactoring of xylose-fermenting yeast strains with Cas9/CRISPR. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2406-11	4.9	54
73	Combining C6 and C5 sugar metabolism for enhancing microbial bioconversion. <i>Current Opinion in Chemical Biology</i> , 2015 , 29, 49-57	9.7	64
72	Enhanced hexose fermentation by <i>Saccharomyces cerevisiae</i> through integration of stoichiometric modeling and genetic screening. <i>Journal of Biotechnology</i> , 2015 , 194, 48-57	3.7	6
71	Yeast synthetic biology toolbox and applications for biofuel production. <i>FEMS Yeast Research</i> , 2015 , 15, 1-15	3.1	9
70	Maternal fucosyltransferase 2 status affects the gut bifidobacterial communities of breastfed infants. <i>Microbiome</i> , 2015 , 3, 13	16.6	244
69	Lactic acid production from xylose by engineered <i>Saccharomyces cerevisiae</i> without PDC or ADH deletion. <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 8023-33	5.7	41
68	Markerless chromosomal gene deletion in <i>Clostridium beijerinckii</i> using CRISPR/Cas9 system. <i>Journal of Biotechnology</i> , 2015 , 200, 1-5	3.7	131
67	Uncovering the nutritional landscape of food. <i>PLoS ONE</i> , 2015 , 10, e0118697	3.7	14
66	Expanding xylose metabolism in yeast for plant cell wall conversion to biofuels. <i>ELife</i> , 2015 , 4,	8.9	30
65	Analysis of cellobextrin transporters from <i>Neurospora crassa</i> in <i>Saccharomyces cerevisiae</i> for cellobiose fermentation. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 1087-94	5.7	43
64	2,3-butanediol production from cellobiose by engineered <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5757-64	5.7	31

63	Production of 2,3-butanediol from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2014 , 192 Pt B, 376-82	3.7	54
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