

Youg-Su Jin

List of Publications by Year in descending order

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209
papers

10,581
citations

31976

53
h-index

40979

93
g-index

212
all docs

212
docs citations

212
times ranked

8640
citing authors

#	ARTICLE	IF	CITATIONS
1	Lâ€malic acid production from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2022, 17, e2000431.	3.5	16
2	Photoautotrophic organic acid production: Glycolic acid production by microalgal cultivation. <i>Chemical Engineering Journal</i> , 2022, 433, 133636.	12.7	12
3	Yeast metabolic engineering for carbon dioxide fixation and its application. <i>Bioresource Technology</i> , 2022, 346, 126349.	9.6	10
4	Microalgal metabolic engineering strategies for the production of fuels and chemicals. <i>Bioresource Technology</i> , 2022, 345, 126529.	9.6	22
5	Genome-edited <i>Saccharomyces cerevisiae</i> strains for improving quality, safety, and flavor of fermented foods. <i>Food Microbiology</i> , 2022, 104, 103971.	4.2	9
6	Effects of Engineered <i>Saccharomyces cerevisiae</i> Fermenting Cellobiose through Low-Energy-Consuming Phosphorolytic Pathway in Simultaneous Saccharification and Fermentation. <i>Journal of Microbiology and Biotechnology</i> , 2022, 32, 117-125.	2.1	2
7	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, 13, 463-488.	9.9	11
8	Dissection and enhancement of prebiotic properties of yeast cell wall oligosaccharides through metabolic engineering. <i>Biomaterials</i> , 2022, 282, 121379.	11.4	7
9	Xylo-Oligosaccharide Utilization by Engineered <i>Saccharomyces cerevisiae</i> to Produce Ethanol. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 825981.	4.1	5
10	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.	0.6	0
11	Genome-wide transcriptional regulation in <i>Saccharomyces cerevisiae</i> in response to carbon dioxide. <i>FEMS Yeast Research</i> , 2022, 22, .	2.3	1
12	Xylose Assimilation for the Efficient Production of Biofuels and Chemicals by Engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2021, 16, e2000142.	3.5	22
13	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.	3.3	9
14	Engineering xylose metabolism in yeasts to produce biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2021, 67, 15-25.	6.6	35
15	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.	2.9	12
16	Sustainable Lactic Acid Production from Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1341-1351.	6.7	72
17	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.	3.6	25
18	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.	3.8	9

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19	Transcriptomic Changes Induced by Deletion of Transcriptional Regulator GCR2 on Pentose Sugar Metabolism in <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 654177.	4.1	5
20	In Vitro Prebiotic and Anti-Colon Cancer Activities of Agar-Derived Sugars from Red Seaweeds. <i>Marine Drugs</i> , 2021, 19, 213.	4.6	18
21	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.	3.6	5
22	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.	6.7	13
23	A SWEET surprise: Anaerobic fungal sugar transporters and chimeras enhance sugar uptake in yeast. <i>Metabolic Engineering</i> , 2021, 66, 137-147.	7.0	19
24	Metabolic and enzymatic elucidation of cooperative degradation of red seaweed agarose by two human gut bacteria. <i>Scientific Reports</i> , 2021, 11, 13955.	3.3	8
25	Observation of Cellodextrin Accumulation Resulted from Non-Conventional Secretion of Intracellular β -Glucosidase by Engineered <i>Saccharomyces cerevisiae</i> Fermenting Cellobiose. <i>Journal of Microbiology and Biotechnology</i> , 2021, 31, 1035-1043.	2.1	1
26	Glycolate production by a <i>Chlamydomonas reinhardtii</i> mutant lacking carbon-concentrating mechanism. <i>Journal of Biotechnology</i> , 2021, 335, 39-46.	3.8	7
27	Metabolic engineering of non-pathogenic microorganisms for 2,3-butanediol production. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 5751-5767.	3.6	14
28	Complete and efficient conversion of plant cell wall hemicellulose into high-value bioproducts by engineered yeast. <i>Nature Communications</i> , 2021, 12, 4975.	12.8	35
29	Increased Accumulation of Squalene in Engineered <i>Yarrowia lipolytica</i> through Deletion of <i>PEX10</i> and <i>URE2</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0048121.	3.1	19
30	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.	4.0	13
31	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.	7.0	8
32	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.	2.9	5
33	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.	6.2	19
34	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, 36687-36695.	7.1	16
35	Identification and analysis of sugar transporters capable of co-transporting glucose and xylose simultaneously. <i>Biotechnology Journal</i> , 2021, 16, e2100238.	3.5	17
36	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.	3.6	19

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37	2- ² -Fucosyllactose 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.	3.8	6
38	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.	3.7	2
39	Process design and techno-economic analysis of 2- ² -fucosyllactose 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.	9.6	4
40	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.	6.2	8
41	Selective production of retinol by engineered <i>Saccharomyces cerevisiae</i> through expression of retinol dehydrogenase. <i>Biotechnology and Bioengineering</i> , 2021, , .	3.3	9
42	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.	3.4	1
43	Redirection of the Glycolytic Flux Enhances Isoprenoid Production in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2020, 15, e1900173.	3.5	24
44	Xylose assimilation enhances the production of isobutanol in engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2020, 117, 372-381.	3.3	43
45	Engineering of <i>Saccharomyces cerevisiae</i> for efficient fermentation of cellulose. <i>FEMS Yeast Research</i> , 2020, 20, .	2.3	46
46	High-level ² - ² -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.	3.3	30
47	Metabolic engineering considerations for the heterologous expression of xylose-catabolic pathways in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2020, 15, e0236294.	2.5	26
48	Enhanced 2- ² -Fucosyllactose production by engineered <i>Saccharomyces cerevisiae</i> using xylose as a co-substrate. <i>Metabolic Engineering</i> , 2020, 62, 322-329.	7.0	29
49	Development of fluorescent <i>Escherichia coli</i> for a whole-cell sensor of 2- ¹ -fucosyllactose. <i>Scientific Reports</i> , 2020, 10, 10514.	3.3	5
50	Biological upgrading of 3,6-anhydro- <i>l</i> -galactose from agarose to a new platform chemical. <i>Green Chemistry</i> , 2020, 22, 1776-1785.	9.0	15
51	Production of xylose enriched hydrolysate from bioenergy sorghum and its conversion to ² -carotene using an engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2020, 308, 123275.	9.6	26
52	Title is missing!. , 2020, 15, e0236294.		0
53	Title is missing!. , 2020, 15, e0236294.		0
54	Title is missing!. , 2020, 15, e0236294.		0

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55	Title is missing!. , 2020, 15, e0236294.		0
56	Vitamin A Production by Engineered <i>Saccharomyces cerevisiae</i> from Xylose <i>in Situ</i> Extraction. ACS Synthetic Biology, 2019, 8, 2131-2140.	3.8	51
57	Synchronization of stochastic expressions drives the clustering of functionally related genes. Science Advances, 2019, 5, eaax6525.	10.3	18
58	Deletion of glycerol-3-phosphate dehydrogenase genes improved 2,3-butanediol production by reducing glycerol production in pyruvate decarboxylase-deficient <i>Saccharomyces cerevisiae</i> . Journal of Biotechnology, 2019, 304, 31-37.	3.8	20
59	Production of galactitol from galactose by the oleaginous yeast <i>Rhodospiridium toruloides</i> IFO0880. Biotechnology for Biofuels, 2019, 12, 250.	6.2	34
60	Deletion of <i>JEN1</i> and <i>ADY2</i> reduces lactic acid yield from an engineered <i>Saccharomyces cerevisiae</i> , in xylose medium, expressing a heterologous lactate dehydrogenase. FEMS Yeast Research, 2019, 19, .	2.3	15
61	Xylose utilization stimulates mitochondrial production of isobutanol and 2-methyl-1-butanol in <i>Saccharomyces cerevisiae</i> . Biotechnology for Biofuels, 2019, 12, 223.	6.2	38
62	An extra copy of the β -glucosidase gene improved the cellobiose fermentation capability of an engineered <i>Saccharomyces cerevisiae</i> strain. 3 Biotech, 2019, 9, 367.	2.2	4
63	Biosynthetic Routes for Producing Various Fucosyl-Oligosaccharides. ACS Synthetic Biology, 2019, 8, 415-424.	3.8	8
64	Bioenergy and Biorefinery. Biotechnology Journal, 2019, 14, e1900160.	3.5	7
65	Comparative global metabolite profiling of xylose-fermenting <i>Saccharomyces cerevisiae</i> SR8 and <i>Scheffersomyces stipitis</i> . Applied Microbiology and Biotechnology, 2019, 103, 5435-5446.	3.6	25
66	Overcoming the thermodynamic equilibrium of an isomerization reaction through oxidoreductive reactions for biotransformation. Nature Communications, 2019, 10, 1356.	12.8	31
67	α -D-Fucose production by engineered <i>Escherichia coli</i> . Biotechnology and Bioengineering, 2019, 116, 904-911.	3.3	13
68	Production of biofuels and chemicals from xylose using native and engineered yeast strains. Biotechnology Advances, 2019, 37, 271-283.	11.7	98
69	Overexpression of RCK1 improves acetic acid tolerance in <i>Saccharomyces cerevisiae</i> . Journal of Biotechnology, 2019, 292, 1-4.	3.8	42
70	Bioprocessing and techno-economic feasibility analysis of simultaneous production of D-psicose and ethanol using engineered yeast strain KAM-2GD. Bioresource Technology, 2019, 275, 27-34.	9.6	14
71	Metabolomic elucidation of the effects of media and carbon sources on fatty acid production by <i>Yarrowia lipolytica</i> . Journal of Biotechnology, 2018, 272-273, 7-13.	3.8	10
72	Improved squalene production through increasing lipid contents in <i>Saccharomyces cerevisiae</i> . Biotechnology and Bioengineering, 2018, 115, 1793-1800.	3.3	65

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73	Value-added biotransformation of cellulosic sugars by engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2018, 260, 380-394.	9.6	42
74	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.	3.8	9
75	Synthetic Whole-Cell Biodevices for Targeted Degradation of Antibiotics. <i>Scientific Reports</i> , 2018, 8, 2906.	3.3	4
76	Glucose repression can be alleviated by reducing glucose phosphorylation rate in <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , 2018, 8, 2613.	3.3	62
77	Phenotypic evaluation and characterization of 21 industrial <i>Saccharomyces cerevisiae</i> yeast strains. <i>FEMS Yeast Research</i> , 2018, 18, .	2.3	11
78	A Mutation in <i>PGM2</i> Causing Inefficient Galactose Metabolism in the Probiotic Yeast <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	21
79	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.	3.8	23
80	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.	3.8	16
81	Effects of acclimation and pH on ammonia inhibition for mesophilic methanogenic microflora. <i>Waste Management</i> , 2018, 80, 218-223.	7.4	16
82	Biosynthesis of a Functional Human Milk Oligosaccharide, 2-Fucosyllactose, and l-Fucose Using Engineered <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 2529-2536.	3.8	35
83	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.	3.7	9
84	Promiscuous activities of heterologous enzymes lead to unintended metabolic rerouting in <i>Saccharomyces cerevisiae</i> engineered to assimilate various sugars from renewable biomass. <i>Biotechnology for Biofuels</i> , 2018, 11, 140.	6.2	17
85	Yeast Derived LysA2 Can Control Bacterial Contamination in Ethanol Fermentation. <i>Viruses</i> , 2018, 10, 281.	3.3	13
86	Direct conversion of cellulose into ethanol and ethyl acetate-glucoside via engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 2859-2868.	3.3	5
87	Production of a human milk oligosaccharide 2-fucosyllactose by metabolically engineered <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2018, 17, 101.	4.0	73
88	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.	3.6	15
89	Bacterial Genome Editing with CRISPR-Cas9: Taking <i>Clostridium beijerinckii</i> as an Example. <i>Methods in Molecular Biology</i> , 2018, 1772, 297-325.	0.9	13
90	Enhanced ethanol fermentation by engineered <i>Saccharomyces cerevisiae</i> strains with high spermidine contents. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 683-691.	3.4	13

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91	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.	3.8	18
92	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.	3.0	13
93	Metabolic engineering of a haploid strain derived from a triploid industrial yeast for producing cellulosic ethanol. <i>Metabolic Engineering</i> , 2017, 40, 176-185.	7.0	27
94	Elimination of the cryptic plasmid in <i>Leuconostoc citreum</i> by CRISPR/Cas9 system. <i>Journal of Biotechnology</i> , 2017, 251, 151-155.	3.8	16
95	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.	4.0	195
96	Global metabolic interaction network of the human gut microbiota for context-specific community-scale analysis. <i>Nature Communications</i> , 2017, 8, 15393.	12.8	216
97	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.	9.6	22
98	Transporter engineering for cellobiose fermentation under lower pH conditions by engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2017, 245, 1469-1475.	9.6	9
99	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.	3.2	19
100	Bioethanol production from cellulosic hydrolysates by engineered industrial <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2017, 228, 355-361.	9.6	62
101	Enhanced isoprenoid production from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 2581-2591.	3.3	68
102	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.	3.5	14
103	Metabolic engineering of yeast for lignocellulosic biofuel production. <i>Current Opinion in Chemical Biology</i> , 2017, 41, 99-106.	6.1	41
104	Short communication: Conversion of lactose and whey into lactic acid by engineered yeast. <i>Journal of Dairy Science</i> , 2017, 100, 124-128.	3.4	28
105	Recycling Carbon Dioxide during Xylose Fermentation by Engineered <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2017, 6, 276-283.	3.8	60
106	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.	3.3	31
107	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.	2.1	11
108	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, .	1.0	3

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109	Gene transcription repression in <i>Clostridium beijerinckii</i> using CRISPR-Cas9. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2739-2743.	3.3	46
110	Optimization of an acetate reduction pathway for producing cellulosic ethanol by engineered yeast. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2587-2596.	3.3	47
111	Lactic acid production from cellobiose and xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2016, 113, 1075-1083.	3.3	31
112	Engineering and Evolution of <i>Saccharomyces cerevisiae</i> to Produce Biofuels and Chemicals. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016, 162, 175-215.	1.1	13
113	Enhanced production of 2,3-butanediol by engineered <i>Saccharomyces cerevisiae</i> through fine-tuning of pyruvate decarboxylase and NADH oxidase activities. <i>Biotechnology for Biofuels</i> , 2016, 9, 265.	6.2	48
114	Rapid and efficient galactose fermentation by engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2016, 229, 13-21.	3.8	24
115	Gene Amplification on Demand Accelerates Cellobiose Utilization in Engineered <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 3631-3639.	3.1	24
116	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, 721-732.	3.8	143
117	Lactose fermentation by engineered <i>Saccharomyces cerevisiae</i> capable of fermenting cellobiose. <i>Journal of Biotechnology</i> , 2016, 234, 99-104.	3.8	20
118	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.	3.5	18
119	Overcoming the limited availability of human milk oligosaccharides: challenges and opportunities for research and application. <i>Nutrition Reviews</i> , 2016, 74, 635-644.	5.8	109
120	GroE chaperonins assisted functional expression of bacterial enzymes in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2016, 113, 2149-2155.	3.3	24
121	Mitigating health risks associated with alcoholic beverages through metabolic engineering. <i>Current Opinion in Biotechnology</i> , 2016, 37, 173-181.	6.6	13
122	Comparison of xylose fermentation by two high-performance engineered strains of <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2016, 9, 53-56.	4.4	41
123	Fumarate-Mediated Persistence of <i>Escherichia coli</i> against Antibiotics. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 2232-2240.	3.2	37
124	Editorial overview: Food biotechnology: Critical gap filler in the nexus of food, energy, and waste for a prosperous future. <i>Current Opinion in Biotechnology</i> , 2016, 37, iv-vii.	6.6	1
125	Metabolic Engineering of Probiotic <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 2280-2287.	3.1	68
126	Recent advances in biological production of sugar alcohols. <i>Current Opinion in Biotechnology</i> , 2016, 37, 105-113.	6.6	109

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127	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.	7.0	74
128	Maternal fucosyltransferase 2 status affects the gut bifidobacterial communities of breastfed infants. <i>Microbiome</i> , 2015, 3, 13.	11.1	319
129	Lactic acid production from xylose by engineered <i>Saccharomyces cerevisiae</i> without PDC or ADH deletion. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8023-8033.	3.6	56
130	Markerless chromosomal gene deletion in <i>Clostridium beijerinckii</i> using CRISPR/Cas9 system. <i>Journal of Biotechnology</i> , 2015, 200, 1-5.	3.8	153
131	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, 707-713.	3.8	69
132	Effects of genetic variation and growing condition of prairie cordgrass on feedstock composition and ethanol yield. <i>Bioresource Technology</i> , 2015, 183, 70-77.	9.6	9
133	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.	7.0	77
134	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, 512-519.	9.6	52
135	Production of (S)-3-hydroxybutyrate by metabolically engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2015, 209, 23-30.	3.8	10
136	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, 8505-8510.	7.1	61
137	Deletion of <i>PHO13</i> , 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, 1601-1609.	3.1	60
138	Development and physiological characterization of cellobiose-consuming <i>Yarrowia lipolytica</i> . <i>Biotechnology and Bioengineering</i> , 2015, 112, 1012-1022.	3.3	40
139	Rapid and marker-free refactoring of xylose-fermenting yeast strains with Cas9/CRISPR. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2406-2411.	3.3	63
140	Combining C6 and C5 sugar metabolism for enhancing microbial bioconversion. <i>Current Opinion in Chemical Biology</i> , 2015, 29, 49-57.	6.1	77
141	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.	3.8	9
142	Uncovering the Nutritional Landscape of Food. <i>PLoS ONE</i> , 2015, 10, e0118697.	2.5	22
143	Expanding xylose metabolism in yeast for plant cell wall conversion to biofuels. <i>ELife</i> , 2015, 4, .	6.0	36
144	Improved resistance against oxidative stress of engineered cellobiose-fermenting <i>Saccharomyces cerevisiae</i> revealed by metabolite profiling. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 951-957.	2.6	3

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145	Molecular cloning and expression of fungal cellobiose transporters and β -glucosidases conferring efficient cellobiose fermentation in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2014, 169, 34-41.	3.8	28
146	Analysis of cellodextrin transporters from <i>Neurospora crassa</i> in <i>Saccharomyces cerevisiae</i> for cellobiose fermentation. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1087-1094.	3.6	50
147	2,3-Butanediol production from cellobiose by engineered <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5757-5764.	3.6	38
148	Production of 2,3-butanediol from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2014, 192, 376-382.	3.8	67
149	Construction of a Quadruple Auxotrophic Mutant of an Industrial Polyploid <i>Saccharomyces cerevisiae</i> Strain by Using RNA-Guided Cas9 Nuclease. <i>Applied and Environmental Microbiology</i> , 2014, 80, 7694-7701.	3.1	131
150	Yeast synthetic biology toolbox and applications for biofuel production. <i>FEMS Yeast Research</i> , 2014, 15, n/a-n/a.	2.3	12
151	Leveraging transcription factors to speed cellobiose fermentation by <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2014, 7, 126.	6.2	27
152	Overcoming inefficient cellobiose fermentation by cellobiose phosphorylase in the presence of xylose. <i>Biotechnology for Biofuels</i> , 2014, 7, 85.	6.2	28
153	Leveraging transcription factors to speed cellobiose fermentation by. <i>Biotechnology for Biofuels</i> , 2014, 7, 126.	6.2	25
154	Simultaneous saccharification and fermentation by engineered <i>Saccharomyces cerevisiae</i> without supplementing extracellular β -glucosidase. <i>Journal of Biotechnology</i> , 2013, 167, 316-322.	3.8	49
155	Energetic benefits and rapid cellobiose fermentation by <i>Saccharomyces cerevisiae</i> expressing cellobiose phosphorylase and mutant cellodextrin transporters. <i>Metabolic Engineering</i> , 2013, 15, 134-143.	7.0	56
156	Two-Stage Acidic-Alkaline Hydrothermal Pretreatment of Lignocellulose for the High Recovery of Cellulose and Hemicellulose Sugars. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 1069-1087.	2.9	31
157	Characterization of <i>Saccharomyces cerevisiae</i> promoters for heterologous gene expression in <i>Kluyveromyces marxianus</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2029-2041.	3.6	45
158	Enhanced biofuel production through coupled acetic acid and xylose consumption by engineered yeast. <i>Nature Communications</i> , 2013, 4, 2580.	12.8	198
159	Development of a Gene Knockout System Using Mobile Group II Introns (Targetron) and Genetic Disruption of Acid Production Pathways in <i>Clostridium beijerinckii</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 5853-5863.	3.1	54
160	Continuous co-fermentation of cellobiose and xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2013, 149, 525-531.	9.6	28
161	Production of 2,3-butanediol by engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2013, 146, 274-281.	9.6	103
162	Marine macroalgae: an untapped resource for producing fuels and chemicals. <i>Trends in Biotechnology</i> , 2013, 31, 70-77.	9.3	492

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163	Combinatorial genetic perturbation to refine metabolic circuits for producing biofuels and biochemicals. <i>Biotechnology Advances</i> , 2013, 31, 976-985.	11.7	22
164	Investigation of the functional role of aldose 1-epimerase in engineered cellobiose utilization. <i>Journal of Biotechnology</i> , 2013, 168, 1-6.	3.8	19
165	Investigation of protein expression profiles of erythritol-producing <i>Candida magnoliae</i> in response to glucose perturbation. <i>Enzyme and Microbial Technology</i> , 2013, 53, 174-180.	3.2	11
166	Enhanced xylitol production through simultaneous co-utilization of cellobiose and xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2013, 15, 226-234.	7.0	94
167	Construction of an efficient xylose-fermenting diploid <i>Saccharomyces cerevisiae</i> strain through mating of two engineered haploid strains capable of xylose assimilation. <i>Journal of Biotechnology</i> , 2013, 164, 105-111.	3.8	18
168	Feasibility of xylose fermentation by engineered <i>Saccharomyces cerevisiae</i> overexpressing endogenous aldose reductase (<i>GRE3</i>), xylitol dehydrogenase (<i>XYL2</i>), and xylulokinase (<i>XYL3</i>) from <i>Scheffersomyces stipitis</i> . <i>FEMS Yeast Research</i> , 2013, 13, 312-321.	2.3	37
169	Strain engineering of <i>Saccharomyces cerevisiae</i> for enhanced xylose metabolism. <i>Biotechnology Advances</i> , 2013, 31, 851-861.	11.7	206
170	Engineering of NADPH regenerators in <i>Escherichia coli</i> for enhanced biotransformation. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 2761-2772.	3.6	87
171	Single Amino Acid Substitutions in HXT2.4 from <i>Scheffersomyces stipitis</i> Lead to Improved Cellobiose Fermentation by Engineered <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 1500-1507.	3.1	30
172	Deletion of <i>FPS1</i> , Encoding Aquaglyceroporin Fps1p, Improves Xylose Fermentation by Engineered <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 3193-3201.	3.1	29
173	Rational and Evolutionary Engineering Approaches Uncover a Small Set of Genetic Changes Efficient for Rapid Xylose Fermentation in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2013, 8, e57048.	2.5	173
174	Isobutanol production in engineered <i>Saccharomyces cerevisiae</i> by overexpression of 2-ketoisovalerate decarboxylase and valine biosynthetic enzymes. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1467-1475.	3.4	86
175	High expression of <i>XYL2</i> coding for xylitol dehydrogenase is necessary for efficient xylose fermentation by engineered <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2012, 14, 336-343.	7.0	63
176	Whole cell biosynthesis of a functional oligosaccharide, 2-fucosyllactose, using engineered <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2012, 11, 48.	4.0	99
177	Combined biomimetic and inorganic acids hydrolysis of hemicellulose in <i>Miscanthus</i> for bioethanol production. <i>Bioresource Technology</i> , 2012, 110, 278-287.	9.6	30
178	Simultaneous co-fermentation of mixed sugars: a promising strategy for producing cellulosic ethanol. <i>Trends in Biotechnology</i> , 2012, 30, 274-282.	9.3	186
179	Model-guided strain improvement: Simultaneous hydrolysis and co-fermentation of cellulosic sugars. <i>Biotechnology Journal</i> , 2012, 7, 328-329.	3.5	3
180	Tuning structural durability of yeast-encapsulating alginate gel beads with interpenetrating networks for sustained bioethanol production. <i>Biotechnology and Bioengineering</i> , 2012, 109, 63-73.	3.3	21

#	ARTICLE	IF	CITATIONS
181	Engineered <i>Saccharomyces cerevisiae</i> capable of simultaneous cellobiose and xylose fermentation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 504-509.	7.1	445
182	Laboratory-Scale Production of ¹³ C-Labeled Lycopene and Phytoene by Bioengineered <i>Escherichia coli</i> . Journal of Agricultural and Food Chemistry, 2011, 59, 9996-10005.	5.2	8
183	Bacterial persisters tolerate antibiotics by not producing hydroxyl radicals. Biochemical and Biophysical Research Communications, 2011, 413, 105-110.	2.1	45
184	Xylitol does not inhibit xylose fermentation by engineered <i>Saccharomyces cerevisiae</i> expressing xylA as severely as it inhibits xylose isomerase reaction in vitro. Applied Microbiology and Biotechnology, 2011, 92, 77-84.	3.6	36
185	Metabolic network reconstruction and genome-scale model of butanol-producing strain <i>Clostridium beijerinckii</i> NCIMB 8052. BMC Systems Biology, 2011, 5, 130.	3.0	95
186	Improved galactose fermentation of <i>Saccharomyces cerevisiae</i> through inverse metabolic engineering. Biotechnology and Bioengineering, 2011, 108, 621-631.	3.3	98
187	Cofeimentation of Cellobiose and Galactose by an Engineered <i>Saccharomyces cerevisiae</i> Strain. Applied and Environmental Microbiology, 2011, 77, 5822-5825.	3.1	78
188	Cofeimentation of Cellobiose and Galactose by an Engineered <i>Saccharomyces cerevisiae</i> Strain. Applied and Environmental Microbiology, 2011, 77, 7438-7438.	3.1	1
189	Identification of gene targets eliciting improved alcohol tolerance in <i>Saccharomyces cerevisiae</i> through inverse metabolic engineering. Journal of Biotechnology, 2010, 149, 52-59.	3.8	72
190	Repeated-batch fermentations of xylose and glucose-xylose mixtures using a respiration-deficient <i>Saccharomyces cerevisiae</i> engineered for xylose metabolism. Journal of Biotechnology, 2010, 150, 404-407.	3.8	19
191	Restoration of Growth Phenotypes of <i>Escherichia coli</i> DH5 α in Minimal Media through Reversal of a Point Mutation in <i>purB</i> . Applied and Environmental Microbiology, 2010, 76, 6307-6309.	3.1	10
192	Identification of gene disruptions for increased poly- β -hydroxybutyrate accumulation in <i>Synechocystis</i> PCC 6803. Biotechnology Progress, 2009, 25, 1236-1243.	2.6	44
193	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.	3.2	3
194	Assembly of Coenzyme Q10 nanostructure resembling nascent discoidal high density lipoprotein particle. Biochemical and Biophysical Research Communications, 2009, 388, 217-221.	2.1	9
195	Fermentation of Rice Bran and Defatted Rice Bran for Butanol Production Using <i>Clostridium beijerinckii</i> NCIMB 8052. Journal of Microbiology and Biotechnology, 2009, 19, 482-490.	2.1	46
196	A search for synthetic peptides that inhibit soluble <i>N</i> -ethylmaleimide sensitive factor attachment receptor-mediated membrane fusion. FEBS Journal, 2008, 275, 3051-3063.	4.7	17
197	Multi-dimensional gene target search for improving lycopene biosynthesis in <i>Escherichia coli</i> . Metabolic Engineering, 2007, 9, 337-347.	7.0	134
198	Genome sequence of the lignocellulose-bioconverting and xylose-fermenting yeast <i>Pichia stipitis</i> . Nature Biotechnology, 2007, 25, 319-326.	17.5	449

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199	Sh ble and Cre adapted for functional genomics and metabolic engineering of <i>Pichia stipitis</i> . <i>Enzyme and Microbial Technology</i> , 2006, 38, 741-747.	3.2	42
200	Identifying gene targets for the metabolic engineering of lycopene biosynthesis in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2005, 7, 155-164.	7.0	422
201	Xylitol production by a <i>Pichia stipitis</i> D-xylulokinase mutant. <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 42-45.	3.6	43
202	Improvement of Xylose Uptake and Ethanol Production in Recombinant <i>Saccharomyces cerevisiae</i> through an Inverse Metabolic Engineering Approach. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8249-8256.	3.1	133
203	<i>Saccharomyces cerevisiae</i> Engineered for Xylose Metabolism Exhibits a Respiratory Response. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6816-6825.	3.1	146
204	Metabolic engineering for improved fermentation of pentoses by yeasts. <i>Applied Microbiology and Biotechnology</i> , 2004, 63, 495-509.	3.6	436
205	Stoichiometric network constraints on xylose metabolism by recombinant <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2004, 6, 229-238.	7.0	71
206	Changing Flux of Xylose Metabolites by Altering Expression of Xylose Reductase and Xylitol Dehydrogenase in Recombinant <i>Saccharomyces cerevisiae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2003, 106, 277-286.	2.9	70
207	Optimal Growth and Ethanol Production from Xylose by Recombinant <i>Saccharomyces cerevisiae</i> Require Moderate d-Xylulokinase Activity. <i>Applied and Environmental Microbiology</i> , 2003, 69, 495-503.	3.1	168
208	Molecular Cloning of XYL3 (d-Xylulokinase) from <i>Pichia stipitis</i> and Characterization of Its Physiological Function. <i>Applied and Environmental Microbiology</i> , 2002, 68, 1232-1239.	3.1	75
209	Ethanol and thermotolerance in the bioconversion of xylose by yeasts. <i>Advances in Applied Microbiology</i> , 2000, 47, 221-268.	2.4	145