

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
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212
all docs

212
docs citations

212
times ranked

8640
citing authors

#	ARTICLE	IF	CITATIONS
1	Marine macroalgae: an untapped resource for producing fuels and chemicals. Trends in Biotechnology, 2013, 31, 70-77.	9.3	492
2	Genome sequence of the lignocellulose-bioconverting and xylose-fermenting yeast <i>Pichia stipitis</i> . Nature Biotechnology, 2007, 25, 319-326.	17.5	449
3	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
4	Metabolic engineering for improved fermentation of pentoses by yeasts. Applied Microbiology and Biotechnology, 2004, 63, 495-509.	3.6	436
5	Identifying gene targets for the metabolic engineering of lycopene biosynthesis in <i>Escherichia coli</i> . Metabolic Engineering, 2005, 7, 155-164.	7.0	422
6	Maternal fucosyltransferase 2 status affects the gut bifidobacterial communities of breastfed infants. Microbiome, 2015, 3, 13.	11.1	319
7	Global metabolic interaction network of the human gut microbiota for context-specific community-scale analysis. Nature Communications, 2017, 8, 15393.	12.8	216
8	Strain engineering of <i>Saccharomyces cerevisiae</i> for enhanced xylose metabolism. Biotechnology Advances, 2013, 31, 851-861.	11.7	206
9	Enhanced biofuel production through coupled acetic acid and xylose consumption by engineered yeast. Nature Communications, 2013, 4, 2580.	12.8	198
10	Production of fuels and chemicals from xylose by engineered <i>Saccharomyces cerevisiae</i> : a review and perspective. Microbial Cell Factories, 2017, 16, 82.	4.0	195
11	Simultaneous co-fermentation of mixed sugars: a promising strategy for producing cellulosic ethanol. Trends in Biotechnology, 2012, 30, 274-282.	9.3	186
12	Rational and Evolutionary Engineering Approaches Uncover a Small Set of Genetic Changes Efficient for Rapid Xylose Fermentation in <i>Saccharomyces cerevisiae</i> . PLoS ONE, 2013, 8, e57048.	2.5	173
13	Optimal Growth and Ethanol Production from Xylose by Recombinant <i>Saccharomyces cerevisiae</i> Require Moderate d-Xylulokinase Activity. Applied and Environmental Microbiology, 2003, 69, 495-503.	3.1	168
14	Markerless chromosomal gene deletion in <i>Clostridium beijerinckii</i> using CRISPR/Cas9 system. Journal of Biotechnology, 2015, 200, 1-5.	3.8	153
15	<i>Saccharomyces cerevisiae</i> Engineered for Xylose Metabolism Exhibits a Respiratory Response. Applied and Environmental Microbiology, 2004, 70, 6816-6825.	3.1	146
16	Ethanol and thermotolerance in the bioconversion of xylose by yeasts. Advances in Applied Microbiology, 2000, 47, 221-268.	2.4	145
17	Bacterial Genome Editing with CRISPR-Cas9: Deletion, Integration, Single Nucleotide Modification, and Desirable "Clean" Mutant Selection in <i>Clostridium beijerinckii</i> as an Example. ACS Synthetic Biology, 2016, 5, 721-732.	3.8	143
18	Multi-dimensional gene target search for improving lycopene biosynthesis in <i>Escherichia coli</i> . Metabolic Engineering, 2007, 9, 337-347.	7.0	134

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19	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
20	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
21	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
22	Recent advances in biological production of sugar alcohols. <i>Current Opinion in Biotechnology</i> , 2016, 37, 105-113.	6.6	109
23	Production of 2,3-butanediol by engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2013, 146, 274-281.	9.6	103
24	Whole cell biosynthesis of a functional oligosaccharide, 2- α -fucosyllactose, using engineered <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2012, 11, 48.	4.0	99
25	Improved galactose fermentation of <i>Saccharomyces cerevisiae</i> through inverse metabolic engineering. <i>Biotechnology and Bioengineering</i> , 2011, 108, 621-631.	3.3	98
26	Production of biofuels and chemicals from xylose using native and engineered yeast strains. <i>Biotechnology Advances</i> , 2019, 37, 271-283.	11.7	98
27	Metabolic network reconstruction and genome-scale model of butanol-producing strain <i>Clostridium beijerinckii</i> NCIMB 8052. <i>BMC Systems Biology</i> , 2011, 5, 130.	3.0	95
28	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
29	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
30	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
31	Cofermmentation of Cellobiose and Galactose by an Engineered <i>Saccharomyces cerevisiae</i> Strain. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5822-5825.	3.1	78
32	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
33	Combining C6 and C5 sugar metabolism for enhancing microbial bioconversion. <i>Current Opinion in Chemical Biology</i> , 2015, 29, 49-57.	6.1	77
34	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
35	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
36	Production of a human milk oligosaccharide 2- α -fucosyllactose by metabolically engineered <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2018, 17, 101.	4.0	73

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37	Identification of gene targets eliciting improved alcohol tolerance in <i>Saccharomyces cerevisiae</i> through inverse metabolic engineering. <i>Journal of Biotechnology</i> , 2010, 149, 52-59.	3.8	72
38	Sustainable Lactic Acid Production from Lignocellulosic Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1341-1351.	6.7	72
39	Stoichiometric network constraints on xylose metabolism by recombinant <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2004, 6, 229-238.	7.0	71
40	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
41	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
42	Metabolic Engineering of Probiotic <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 2280-2287.	3.1	68
43	Enhanced isoprenoid production from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 2581-2591.	3.3	68
44	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
45	Improved squalene production through increasing lipid contents in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 1793-1800.	3.3	65
46	High expression of XYL2 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
47	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
48	Bioethanol production from cellulosic hydrolysates by engineered industrial <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2017, 228, 355-361.	9.6	62
49	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
50	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
51	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
52	Recycling Carbon Dioxide during Xylose Fermentation by Engineered <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2017, 6, 276-283.	3.8	60
53	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
54	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

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55	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
56	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
57	Vitamin A Production by Engineered <i>Saccharomyces cerevisiae</i> from Xylose via Two-Phase <i>In Situ</i> Extraction. <i>ACS Synthetic Biology</i> , 2019, 8, 2131-2140.	3.8	51
58	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
59	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
60	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
61	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
62	Gene transcription repression in <i>Clostridium beijerinckii</i> using CRISPR-Cas9. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2739-2743.	3.3	46
63	Engineering of <i>Saccharomyces cerevisiae</i> for efficient fermentation of cellulose. <i>FEMS Yeast Research</i> , 2020, 20, .	2.3	46
64	Fermentation of Rice Bran and Defatted Rice Bran for Butanol Production Using <i>Clostridium beijerinckii</i> NCIMB 8052. <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 482-490.	2.1	46
65	Bacterial persisters tolerate antibiotics by not producing hydroxyl radicals. <i>Biochemical and Biophysical Research Communications</i> , 2011, 413, 105-110.	2.1	45
66	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
67	Identification of gene disruptions for increased poly- β -hydroxybutyrate accumulation in <i>Synechocystis</i> PCC 6803. <i>Biotechnology Progress</i> , 2009, 25, 1236-1243.	2.6	44
68	Xylitol production by a <i>Pichia stipitis</i> D-xylulokinase mutant. <i>Applied Microbiology and Biotechnology</i> , 2005, 68, 42-45.	3.6	43
69	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
70	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
71	Value-added biotransformation of cellulosic sugars by engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2018, 260, 380-394.	9.6	42
72	Overexpression of RCK1 improves acetic acid tolerance in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2019, 292, 1-4.	3.8	42

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73	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
74	Metabolic engineering of yeast for lignocellulosic biofuel production. <i>Current Opinion in Chemical Biology</i> , 2017, 41, 99-106.	6.1	41
75	Development and physiological characterization of cellobiose-consuming <i>Yarrowia lipolytica</i> . <i>Biotechnology and Bioengineering</i> , 2015, 112, 1012-1022.	3.3	40
76	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
77	Xylose utilization stimulates mitochondrial production of isobutanol and 2-methyl-1-butanol in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 223.	6.2	38
78	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 stipitidis</i> . <i>FEMS Yeast Research</i> , 2013, 13, 312-321.	2.3	37
79	Fumarate-Mediated Persistence of <i>Escherichia coli</i> against Antibiotics. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 2232-2240.	3.2	37
80	Xylitol does not inhibit xylose fermentation by engineered <i>Saccharomyces cerevisiae</i> expressing <i>xylA</i> as severely as it inhibits xylose isomerase reaction in vitro. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 77-84.	3.6	36
81	Expanding xylose metabolism in yeast for plant cell wall conversion to biofuels. <i>ELife</i> , 2015, 4, .	6.0	36
82	Biosynthesis of a Functional Human Milk Oligosaccharide, 2-Fucosyllactose, and Fucose Using Engineered <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 2529-2536.	3.8	35
83	Engineering xylose metabolism in yeasts to produce biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2021, 67, 15-25.	6.6	35
84	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
85	Production of galactitol from galactose by the oleaginous yeast <i>Rhodospiridium toruloides</i> IFO0880. <i>Biotechnology for Biofuels</i> , 2019, 12, 250.	6.2	34
86	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
87	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
88	Characterization of a <i>Clostridium beijerinckii</i> <i>spo0A</i> mutant and its application for butyl butyrate production. <i>Biotechnology and Bioengineering</i> , 2017, 114, 106-112.	3.3	31
89	Overcoming the thermodynamic equilibrium of an isomerization reaction through oxidoreductive reactions for biotransformation. <i>Nature Communications</i> , 2019, 10, 1356.	12.8	31
90	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

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91	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
92	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.	3.3	30
93	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
94	Enhanced 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
95	Continuous co-fermentation of cellobiose and xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2013, 149, 525-531.	9.6	28
96	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
97	Overcoming inefficient cellobiose fermentation by cellobiose phosphorylase in the presence of xylose. <i>Biotechnology for Biofuels</i> , 2014, 7, 85.	6.2	28
98	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
99	Leveraging transcription factors to speed cellobiose fermentation by <i>Saccharomyces cerevisiae</i> . <i>Biotechnology for Biofuels</i> , 2014, 7, 126.	6.2	27
100	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
101	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
102	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.	9.6	26
103	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.	3.6	25
104	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
105	Leveraging transcription factors to speed cellobiose fermentation by. <i>Biotechnology for Biofuels</i> , 2014, 7, 126.	6.2	25
106	Rapid and efficient galactose fermentation by engineered <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2016, 229, 13-21.	3.8	24
107	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
108	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

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109	Redirection of the Glycolytic Flux Enhances Isoprenoid Production in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2020, 15, e1900173.	3.5	24
110	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
111	Combinatorial genetic perturbation to refine metabolic circuits for producing biofuels and biochemicals. <i>Biotechnology Advances</i> , 2013, 31, 976-985.	11.7	22
112	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
113	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
114	Uncovering the Nutritional Landscape of Food. <i>PLoS ONE</i> , 2015, 10, e0118697.	2.5	22
115	Microalgal metabolic engineering strategies for the production of fuels and chemicals. <i>Bioresource Technology</i> , 2022, 345, 126529.	9.6	22
116	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
117	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
118	Lactose fermentation by engineered <i>Saccharomyces cerevisiae</i> capable of fermenting cellobiose. <i>Journal of Biotechnology</i> , 2016, 234, 99-104.	3.8	20
119	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.	3.8	20
120	Repeated-batch fermentations of xylose and glucose-xylose mixtures using a respiration-deficient <i>Saccharomyces cerevisiae</i> engineered for xylose metabolism. <i>Journal of Biotechnology</i> , 2010, 150, 404-407.	3.8	19
121	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
122	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
123	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
124	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
125	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
126	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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127	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
128	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
129	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
130	Synchronization of stochastic expressions drives the clustering of functionally related genes. <i>Science Advances</i> , 2019, 5, eaax6525.	10.3	18
131	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
132	A search for synthetic peptides that inhibit soluble N-ethylmaleimide sensitive factor attachment receptor-mediated membrane fusion. <i>FEBS Journal</i> , 2008, 275, 3051-3063.	4.7	17
133	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
134	Identification and analysis of sugar transporters capable of co-transporting glucose and xylose simultaneously. <i>Biotechnology Journal</i> , 2021, 16, e2100238.	3.5	17
135	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
136	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
137	Effects of acclimation and pH on ammonia inhibition for mesophilic methanogenic microflora. <i>Waste Management</i> , 2018, 80, 218-223.	7.4	16
138	L-malic acid production from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2022, 17, e2000431.	3.5	16
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