

Engineering alternative butanol production platforms i

Metabolic Engineering

11, 262-273

DOI: [10.1016/j.ymben.2009.05.003](https://doi.org/10.1016/j.ymben.2009.05.003)

Citation Report

#	ARTICLE	IF	CITATIONS
1	A <i>lipA</i> (<i>yutB</i>) Mutant, Encoding Lipoic Acid Synthase, Provides Insight into the Interplay between Branched-Chain and Unsaturated Fatty Acid Biosynthesis in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2009, 191, 7447-7455.	1.0	26
2	Strain Improvement and Process Development for Biobutanol Production. <i>Recent Patents on Biotechnology</i> , 2009, 3, 202-210.	0.4	27
3	Systematic engineering of microorganisms to improve alcohol tolerance. <i>Engineering in Life Sciences</i> , 2010, 10, 422-429.	2.0	38
4	Advanced biofuel production in microbes. <i>Biotechnology Journal</i> , 2010, 5, 147-162.	1.8	331
5	Microbial ϵ -butanol production: Identification of non-native production routes and <i>in silico</i> engineering interventions. <i>Biotechnology Journal</i> , 2010, 5, 716-725.	1.8	41
6	Bioengineering of microorganisms for C ₃ to C ₅ alcohols production. <i>Biotechnology Journal</i> , 2010, 5, 1297-1308.	1.8	35
7	Achievements and perspectives to overcome the poor solvent resistance in acetone and butanol-producing microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1697-1712.	1.7	249
8	Biofuel production in <i>Escherichia coli</i> : the role of metabolic engineering and synthetic biology. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 419-434.	1.7	220
9	Reconstructing the clostridial n-butanol metabolic pathway in <i>Lactobacillus brevis</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 635-646.	1.7	156
10	Assessment of heterologous butyrate and butanol pathway activity by measurement of intracellular pathway intermediates in recombinant <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 265-275.	1.7	36
11	The path to next generation biofuels: successes and challenges in the era of synthetic biology. <i>Microbial Cell Factories</i> , 2010, 9, 3.	1.9	154
12	Functional expression of the thiolase gene <i>thl</i> from <i>Clostridium beijerinckii</i> P260 in <i>Lactococcus lactis</i> and <i>Lactobacillus buchneri</i> . <i>New Biotechnology</i> , 2010, 27, 283-288.	2.4	33
13	A comparative view of metabolite and substrate stress and tolerance in microbial bioprocessing: From biofuels and chemicals, to biocatalysis and bioremediation. <i>Metabolic Engineering</i> , 2010, 12, 307-331.	3.6	478
14	Screening and characterization of butanol-tolerant micro-organisms. <i>Letters in Applied Microbiology</i> , 2010, 50, 373-379.	1.0	47
15	Biology by Design: From Top to Bottom and Back. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-11.	3.0	25
16	Engineered Respiro-Fermentative Metabolism for the Production of Biofuels and Biochemicals from Fatty Acid-Rich Feedstocks. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5067-5078.	1.4	59
17	Synthetic Biology Guides Biofuel Production. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-9.	3.0	59
18	Extremophiles in biofuel synthesis. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 871-888.	1.2	130

#	ARTICLE	IF	CITATIONS
19	Construction and optimization of synthetic pathways in metabolic engineering. <i>Current Opinion in Microbiology</i> , 2010, 13, 363-370.	2.3	97
20	Systems biology approaches for the microbial production of biofuels. <i>Biofuels</i> , 2010, 1, 291-310.	1.4	21
21	Metabolic engineering of <i>Escherichia coli</i> for biofuel production. <i>Biofuels</i> , 2010, 1, 493-504.	1.4	33
23	Extending Carbon Chain Length of 1-Butanol Pathway for 1-Hexanol Synthesis from Glucose by Engineered <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2011, 133, 11399-11401.	6.6	131
25	Genomic Library Screens for Genes Involved in n-Butanol Tolerance in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2011, 6, e17678.	1.1	118
26	Transcriptional Analysis of <i>Lactobacillus brevis</i> to N-Butanol and Ferulic Acid Stress Responses. <i>PLoS ONE</i> , 2011, 6, e21438.	1.1	48
27	Enzyme mechanism as a kinetic control element for designing synthetic biofuel pathways. <i>Nature Chemical Biology</i> , 2011, 7, 222-227.	3.9	319
28	Chimeric synthetic pathways. <i>Nature Chemical Biology</i> , 2011, 7, 195-196.	3.9	9
29	Styrene biosynthesis from glucose by engineered <i>E. coli</i> . <i>Metabolic Engineering</i> , 2011, 13, 544-554.	3.6	222
30	Metabolic engineering of <i>Thermobifida fusca</i> for direct aerobic bioconversion of untreated lignocellulosic biomass to 1-propanol. <i>Metabolic Engineering</i> , 2011, 13, 570-577.	3.6	78
31	Optimization of a heterologous mevalonate pathway through the use of variant HMG-CoA reductases. <i>Metabolic Engineering</i> , 2011, 13, 588-597.	3.6	141
32	Metabolic engineering of <i>Clostridium acetobutylicum</i> : recent advances to improve butanol production. <i>Current Opinion in Biotechnology</i> , 2011, 22, 634-647.	3.3	326
33	Economical challenges to microbial producers of butanol: Feedstock, butanol ratio and titer. <i>Biotechnology Journal</i> , 2011, 6, 1348-1357.	1.8	108
34	Driving Forces Enable High-Titer Anaerobic 1-Butanol Synthesis in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 2905-2915.	1.4	572
35	Extension temperature of 60°C required for PCR amplification of large DNA fragments (>5 kb) from a low GC bacterium <i>Clostridium acetobutylicum</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 449-451.	1.7	3
36	Engineering <i>Bacillus subtilis</i> for isobutanol production by heterologous Ehrlich pathway construction and the biosynthetic 2-ketoisovalerate precursor pathway overexpression. <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 577-589.	1.7	130
37	Fermentative production of butanol—the industrial perspective. <i>Current Opinion in Biotechnology</i> , 2011, 22, 337-343.	3.3	633
38	Engineering strategy of yeast metabolism for higher alcohol production. <i>Microbial Cell Factories</i> , 2011, 10, 70.	1.9	42

#	ARTICLE	IF	CITATIONS
39	Development of butanol-tolerant <i>Bacillus subtilis</i> strain GRSW2-B1 as a potential bioproduction host. <i>AMB Express</i> , 2011, 1, 10.	1.4	37
40	Advances and opportunities at the interface between microbial bioenergy and nanotechnology. <i>Canadian Journal of Chemical Engineering</i> , 2011, 89, 2-12.	0.9	16
41	Study of <i>in situ</i> 1-butanol pervaporation from ABE fermentation using a PDMS composite membrane: Validity of solution-diffusion model for pervaporative ABE fermentation. <i>Biotechnology Progress</i> , 2011, 27, 111-120.	1.3	44
42	Engineering butanol-tolerance in <i>Escherichia coli</i> with artificial transcription factor libraries. <i>Biotechnology and Bioengineering</i> , 2011, 108, 742-749.	1.7	63
43	Autoignition of n-butanol at elevated pressure and low-to-intermediate temperature. <i>Combustion and Flame</i> , 2011, 158, 809-819.	2.8	149
44	Developments in biobutanol production: New insights. <i>Applied Energy</i> , 2011, 88, 1999-2012.	5.1	421
45	Challenges in biobutanol production: How to improve the efficiency?. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 964-980.	8.2	391
46	Reducing the allowable kinetic space by constructing ensemble of dynamic models with the same steady-state flux. <i>Metabolic Engineering</i> , 2011, 13, 60-75.	3.6	52
47	Elucidating acetate tolerance in <i>E. coli</i> using a genome-wide approach. <i>Metabolic Engineering</i> , 2011, 13, 214-224.	3.6	60
48	Engineering the robustness of <i>Clostridium acetobutylicum</i> by introducing glutathione biosynthetic capability. <i>Metabolic Engineering</i> , 2011, 13, 426-434.	3.6	71
49	Metabolic engineering of <i>Clostridium tyrobutyricum</i> for n-butanol production. <i>Metabolic Engineering</i> , 2011, 13, 373-382.	3.6	190
50	One-step production of lactate from cellulose as the sole carbon source without any other organic nutrient by recombinant cellulolytic <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , 2011, 13, 364-372.	3.6	84
51	Metabolic engineering of cyanobacteria for 1-butanol production from carbon dioxide. <i>Metabolic Engineering</i> , 2011, 13, 353-363.	3.6	352
52	Biochemical production of biobutanol. , 2011, , 221-257.		11
53	Controlled biosynthesis of odd-chain fuels and chemicals via engineered modular metabolic pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17925-17930.	3.3	105
54	Recent progress in synthetic biology for microbial production of C3-C10 alcohols. <i>Frontiers in Microbiology</i> , 2012, 3, 196.	1.5	51
55	Synthetic Biology Approaches to Produce C3-C6 Alcohols from Microorganisms. <i>Current Chemical Biology</i> , 2012, 6, 32-41.	0.2	2
56	Bridging Omics Technologies with Synthetic Biology in Yeast Industrial Biotechnology. , 2012, , 271-327.		2

#	ARTICLE	IF	CITATIONS
57	Cyanobacterial biofuel production. <i>Journal of Biotechnology</i> , 2012, 162, 50-56.	1.9	243
58	From Fields to Fuels: Recent Advances in the Microbial Production of Biofuels. <i>ACS Synthetic Biology</i> , 2012, 1, 498-513.	1.9	77
59	Novel high butanol production from lactic acid and pentose by <i>Clostridium saccharoperbutylacetonicum</i> . <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 526-530.	1.1	30
60	A selection platform for carbon chain elongation using the CoA-dependent pathway to produce linear higher alcohols. <i>Metabolic Engineering</i> , 2012, 14, 504-511.	3.6	126
61	Metabolic engineering of <i>Escherichia coli</i> for the production of 1-propanol. <i>Metabolic Engineering</i> , 2012, 14, 477-486.	3.6	94
62	ATP drives direct photosynthetic production of 1-butanol in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6018-6023.	3.3	327
63	Kinetic Modeling and Isotopic Investigation of Isobutanol Fermentation by Two Engineered <i>Escherichia coli</i> Strains. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 15855-15863.	1.8	15
64	DEVELOPMENT OF MICROORGANISMS FOR CELLULOSE-BIOFUEL CONSOLIDATED BIOPROCESSINGS: METABOLIC ENGINEERS' TRICKS. <i>Computational and Structural Biotechnology Journal</i> , 2012, 3, e201210007.	1.9	38
65	METABOLIC MODELLING IN THE DEVELOPMENT OF CELL FACTORIES BY SYNTHETIC BIOLOGY. <i>Computational and Structural Biotechnology Journal</i> , 2012, 3, e201210009.	1.9	19
66	Studies on the production of branched-chain alcohols in engineered <i>Ralstonia eutropha</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 283-297.	1.7	123
67	Engineering a Metabolic Pathway for Isobutanol Biosynthesis in <i>Bacillus subtilis</i> . <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 1-9.	1.4	22
68	ePathBrick: A Synthetic Biology Platform for Engineering Metabolic Pathways in <i>E. coli</i> . <i>ACS Synthetic Biology</i> , 2012, 1, 256-266.	1.9	230
69	Butanol production from lignocellulosics. <i>Biotechnology Letters</i> , 2012, 34, 1415-1434.	1.1	98
70	Microbial producers of butanol. <i>Applied Biochemistry and Microbiology</i> , 2012, 48, 625-638.	0.3	27
71	Manipulation of the carbon storage regulator system for metabolite remodeling and biofuel production in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2012, 11, 79.	1.9	53
72	Microbial engineering for the production of advanced biofuels. <i>Nature</i> , 2012, 488, 320-328.	13.7	951
73	Theoretical Studies on the Unimolecular Decomposition of Ethylene Glycol. <i>Journal of Physical Chemistry A</i> , 2012, 116, 55-63.	1.1	30
74	Towards sustainable production of clean energy carriers from biomass resources. <i>Applied Energy</i> , 2012, 100, 172-186.	5.1	383

#	ARTICLE	IF	CITATIONS
75	Solvent tolerance in Gram-negative bacteria. <i>Current Opinion in Biotechnology</i> , 2012, 23, 415-421.	3.3	169
76	Alternative biofuel production in non-natural hosts. <i>Current Opinion in Biotechnology</i> , 2012, 23, 744-750.	3.3	31
77	<i>Systems Metabolic Engineering.</i> , 2012, , .		11
78	Synthetic Biology Approaches to Produce C3-C6 Alcohols from Microorganisms. <i>Current Chemical Biology</i> , 2012, 6, 32-41.	0.2	6
79	Improved n-butanol production by solvent tolerant <i>Clostridium beijerinckii</i> . <i>Biomass and Bioenergy</i> , 2012, 37, 9-15.	2.9	59
80	Elucidating and reprogramming <i>Escherichia coli</i> metabolisms for obligate anaerobic n-butanol and isobutanol production. <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 1083-1094.	1.7	42
81	Butanol production from renewable biomass: Rediscovery of metabolic pathways and metabolic engineering. <i>Biotechnology Journal</i> , 2012, 7, 186-198.	1.8	138
82	Bio-based production of C2-C6 platform chemicals. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2437-2459.	1.7	329
83	Metabolic engineering of <i>Saccharomyces cerevisiae</i> : a key cell factory platform for future biorefineries. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 2671-2690.	2.4	367
84	Improvements in Biobutanol Fermentation and Their Impacts on Distillation Energy Consumption and Wastewater Generation. <i>Bioenergy Research</i> , 2012, 5, 504-514.	2.2	65
85	Modifying the product pattern of <i>Clostridium acetobutylicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 743-754.	1.7	75
86	Engineering global transcription factor cyclic AMP receptor protein of <i>Escherichia coli</i> for improved 1-butanol tolerance. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 1107-1117.	1.7	64
87	The glycerophospholipid inventory of <i>Pseudomonas putida</i> is conserved between strains and enables growth condition-related alterations. <i>Microbial Biotechnology</i> , 2012, 5, 45-58.	2.0	42
88	1-Butanol synthesis by <i>Escherichia coli</i> cells through butyryl-CoA formation by heterologous enzymes of clostridia and native enzymes of fatty acid β -oxidation. <i>Applied Biochemistry and Microbiology</i> , 2012, 48, 344-349.	0.3	10
89	Evaluating expression and catalytic activity of anaerobic fungal fibrolytic enzymes native to <i>Piromyces sp E2</i> in <i>Saccharomyces cerevisiae</i> . <i>Environmental Progress and Sustainable Energy</i> , 2012, 31, 37-46.	1.3	27
90	Metabolic engineering of <i>Escherichia coli</i> for 1-butanol biosynthesis through the inverted aerobic fatty acid β -oxidation pathway. <i>Biotechnology Letters</i> , 2012, 34, 463-469.	1.1	35
91	Genome-scale analyses of butanol tolerance in <i>Saccharomyces cerevisiae</i> reveal an essential role of protein degradation. <i>Biotechnology for Biofuels</i> , 2013, 6, 48.	6.2	68
92	Microbial production of the aromatic building blocks styrene oxide and 1,2-phenylethanediol from renewable resources. <i>Biotechnology Journal</i> , 2013, 8, 1465-1475.	1.8	40

#	ARTICLE	IF	CITATIONS
93	Tuning Primary Metabolism for Heterologous Pathway Productivity. ACS Synthetic Biology, 2013, 2, 126-135.	1.9	27
94	Improving biobutanol production in engineered <i>Saccharomyces cerevisiae</i> by manipulation of acetyl-CoA metabolism. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 1051-1056.	1.4	96
95	Prospective and development of butanol as an advanced biofuel. Biotechnology Advances, 2013, 31, 1575-1584.	6.0	225
96	Butanol fermentation. Environmental Technology (United Kingdom), 2013, 34, 1691-1710.	1.2	78
97	In vitro production of n-butanol from glucose. Metabolic Engineering, 2013, 20, 84-91.	3.6	89
99	Global Metabolomic and Network analysis of <i>Escherichia coli</i> Responses to Exogenous Biofuels. Journal of Proteome Research, 2013, 12, 5302-5312.	1.8	53
100	Dissecting the assays to assess microbial tolerance to toxic chemicals in bioprocessing. Trends in Biotechnology, 2013, 31, 643-653.	4.9	36
101	Characterization of a highly thermostable γ -hydroxybutyryl CoA dehydrogenase from <i>Clostridium acetobutylicum</i> ATCC 824. Journal of Molecular Catalysis B: Enzymatic, 2013, 98, 138-144.	1.8	9
102	Pathway and protein engineering approaches to produce novel and commodity small molecules. Current Opinion in Biotechnology, 2013, 24, 1137-1143.	3.3	59
103	Biobutanol: the outlook of an academic and industrialist. RSC Advances, 2013, 3, 24734.	1.7	153
104	Model-driven rebalancing of the intracellular redox state for optimization of a heterologous n-butanol pathway in <i>Escherichia coli</i> . Metabolic Engineering, 2013, 20, 56-62.	3.6	60
106	Challenges and opportunities in synthetic biology for chemical engineers. Chemical Engineering Science, 2013, 103, 115-119.	1.9	14
107	Cellulosic Butanol Production from Agricultural Biomass and Residues: Recent Advances in Technology. , 2013, , 247-265.		26
108	Synthetic Biology and Metabolic Engineering Approaches To Produce Biofuels. Chemical Reviews, 2013, 113, 4611-4632.	23.0	155
109	Metabolic engineering of 2â€¢pentanone synthesis in <i>Escherichia coli</i> . AIChE Journal, 2013, 59, 3167-3175.	1.8	25
110	Microbial ElectroCatalytic (MEC) Biofuel Production. , 2013, , 1091-1099.		2
111	Development of microbial cell factories for bio-refinery through synthetic bioengineering. Journal of Biotechnology, 2013, 163, 204-216.	1.9	55
112	A modified pathway for the production of acetone in <i>Escherichia coli</i> . Metabolic Engineering, 2013, 15, 218-225.	3.6	24

#	ARTICLE	IF	CITATIONS
113	In silico metabolic engineering of <i>Bacillus subtilis</i> for improved production of riboflavin, Egl-237, (R,R)-2,3-butanediol and isobutanol. <i>Molecular BioSystems</i> , 2013, 9, 2034.	2.9	42
114	Production of advanced biofuels in engineered <i>E. coli</i> . <i>Current Opinion in Chemical Biology</i> , 2013, 17, 472-479.	2.8	49
115	Microbial synthesis of n-butanol, isobutanol, and other higher alcohols from diverse resources. <i>Bioresource Technology</i> , 2013, 135, 339-349.	4.8	171
116	Transcription Factor-Based Screens and Synthetic Selections for Microbial Small-Molecule Biosynthesis. <i>ACS Synthetic Biology</i> , 2013, 2, 47-58.	1.9	176
117	Effect of an Oxygen-Tolerant Bifurcating Butyryl Coenzyme A Dehydrogenase/Electron-Transferring Flavoprotein Complex from <i>Clostridium difficile</i> on Butyrate Production in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2013, 195, 3704-3713.	1.0	66
118	Genetic Determinants for <i>n</i> -Butanol Tolerance in Evolved <i>Escherichia coli</i> Mutants: Cross Adaptation and Antagonistic Pleiotropy between <i>n</i> -Butanol and Other Stressors. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5313-5320.	1.4	53
119	Metabolic engineering: Use of system-level approaches and application to fuel production in <i>Escherichia coli</i> . <i>Electronic Journal of Biotechnology</i> , 2013, 16, .	1.2	4
120	Lignocellulosic Biomass Utilization Toward Biorefinery Using Mesophilic Clostridial Species. , 0, , .		0
122	Design and development of synthetic microbial platform cells for bioenergy. <i>Frontiers in Microbiology</i> , 2013, 4, 92.	1.5	37
123	The Promising Fuel-Biobutanol. , 0, , .		15
124	Model-Driven Redox Pathway Manipulation for Improved Isobutanol Production in <i>Bacillus subtilis</i> Complemented with Experimental Validation and Metabolic Profiling Analysis. <i>PLoS ONE</i> , 2014, 9, e93815.	1.1	28
126	Metabolic engineering of <i>Methylobacterium extorquens</i> AM1 for 1-butanol production. <i>Biotechnology for Biofuels</i> , 2014, 7, 156.	6.2	61
127	1-Butanol production from glycerol by engineered <i>Klebsiella pneumoniae</i> . <i>RSC Advances</i> , 2014, 4, 57791-57798.	1.7	25
128	An Overview of Existing Individual Unit Operations. , 2014, , 3-36.		23
129	In situ butanol recovery from <i>Clostridium acetobutylicum</i> fermentations by expanded bed adsorption. <i>Biotechnology Progress</i> , 2014, 30, 68-78.	1.3	57
130	Fermentation of oxidized hexose derivatives by <i>Clostridium acetobutylicum</i> . <i>Microbial Cell Factories</i> , 2014, 13, 139.	1.9	14
131	Metabolic engineering of a <i>Saccharomyces cerevisiae</i> strain capable of simultaneously utilizing glucose and galactose to produce enantiopure (2R,3R)-butanediol. <i>Metabolic Engineering</i> , 2014, 23, 92-99.	3.6	91
132	Crystal structure and biochemical properties of the (S)-3-hydroxybutyryl-CoA dehydrogenase PaaH1 from <i>Ralstonia eutropha</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014, 448, 163-168.	1.0	12

#	ARTICLE	IF	CITATIONS
133	Butanol production from glycerol by recombinant <i>Escherichia coli</i> . <i>Annals of Microbiology</i> , 2014, 64, 219-227.	1.1	12
134	Effects of abiotic stressors on lutein production in the green microalga <i>Dunaliella salina</i> . <i>Microbial Cell Factories</i> , 2014, 13, 3.	1.9	78
135	Engineering of a butyraldehyde dehydrogenase of <i>Clostridium saccharoperbutylacetonicum</i> to fit an engineered 1,4-butanediol pathway in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2014, 111, 1374-1384.	1.7	28
136	Microbial n-butanol production from Clostridia to non-Clostridial hosts. <i>Engineering in Life Sciences</i> , 2014, 14, 16-26.	2.0	37
137	Metabolic Engineering of Biosynthetic Pathway for Production of Renewable Biofuels. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 1158-1171.	1.4	19
138	Metabolic engineering of <i>Pseudomonas</i> sp. strain VLB120 as platform biocatalyst for the production of isobutyric acid and other secondary metabolites. <i>Microbial Cell Factories</i> , 2014, 13, 2.	1.9	60
139	Acetone-butanol-ethanol fermentation of corn stover by <i>Clostridium</i> species: present status and future perspectives. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 1145-1157.	1.7	34
140	Metabolic engineering of <i>Thermoanaerobacterium saccharolyticum</i> for n-butanol production. <i>Metabolic Engineering</i> , 2014, 21, 17-25.	3.6	62
141	Biotechnological domestication of pseudomonads using synthetic biology. <i>Nature Reviews Microbiology</i> , 2014, 12, 368-379.	13.6	332
143	Feasibility of producing butanol from industrial starchy food wastes. <i>Applied Energy</i> , 2014, 136, 590-598.	5.1	76
144	Metabolic engineering for higher alcohol production. <i>Metabolic Engineering</i> , 2014, 25, 174-182.	3.6	42
145	Retro-biosynthetic screening of a modular pathway design achieves selective route for microbial synthesis of 4-methyl-pentanol. <i>Nature Communications</i> , 2014, 5, 5031.	5.8	52
146	Evaluation of industrial dairy waste (milk dust powder) for acetone-butanol-ethanol production by solventogenic <i>Clostridium</i> species. <i>SpringerPlus</i> , 2014, 3, 387.	1.2	23
147	Engineering clostridia for butanol production from biorenewable resources: from cells to process integration. <i>Current Opinion in Chemical Engineering</i> , 2014, 6, 43-54.	3.8	63
148	<i>Meiothermus ruber</i> thiolase – A new process stable enzyme for improved butanol synthesis. <i>Biochimie</i> , 2014, 103, 16-22.	1.3	4
150	Engineering modular ester fermentative pathways in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2014, 26, 77-88.	3.6	87
151	Structural insights into substrate specificity of crotonase from the n-butanol producing bacterium <i>Clostridium acetobutylicum</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014, 451, 431-435.	1.0	12
152	Lignocellulosic biobutanol production: Gridlocks and potential remedies. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 21-35.	8.2	79

#	ARTICLE	IF	CITATIONS
153	Design and construction of acetyl-CoA overproducing <i>Saccharomyces cerevisiae</i> strains. <i>Metabolic Engineering</i> , 2014, 24, 139-149.	3.6	199
154	Designer Microorganisms for Optimized Redox Cascade Reactions – Challenges and Future Perspectives. <i>Advanced Synthesis and Catalysis</i> , 2015, 357, 1587-1618.	2.1	51
155	Activity of <i>Lactobacillus brevis</i> Alcohol Dehydrogenase on Primary and Secondary Alcohol Biofuel Precursors. <i>Fermentation</i> , 2015, 1, 24-37.	1.4	6
156	Mechanisms of solvent resistance mediated by interplay of cellular factors in <i>Pseudomonas putida</i> . <i>FEMS Microbiology Reviews</i> , 2015, 39, 555-566.	3.9	143
157	Microbial Research in High-Value Biofuels. <i>Microbiology Monographs</i> , 2015, , 105-156.	0.3	3
158	Tolerance engineering in bacteria for the production of advanced biofuels and chemicals. <i>Trends in Microbiology</i> , 2015, 23, 498-508.	3.5	207
159	Recent Advances in Biobutanol Production. <i>Industrial Biotechnology</i> , 2015, 11, 316-321.	0.5	15
160	Development of a plasmid addicted system that is independent of co-inducers, antibiotics and specific carbon source additions for bioproduct (1-butanol) synthesis in <i>Escherichia coli</i> . <i>Metabolic Engineering Communications</i> , 2015, 2, 6-12.	1.9	2
161	Engineering <i>Escherichia coli</i> Cell Factories for n-Butanol Production. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 155, 141-163.	0.6	7
162	Going beyond <i>E. coli</i> : autotransporter based surface display on alternative host organisms. <i>New Biotechnology</i> , 2015, 32, 644-650.	2.4	24
163	Integration of biocatalyst and process engineering for sustainable and efficient n-butanol production. <i>Engineering in Life Sciences</i> , 2015, 15, 4-19.	2.0	18
164	Genetic improvement of n-butanol tolerance in <i>Escherichia coli</i> by heterologous overexpression of groESL operon from <i>Clostridium acetobutylicum</i> . <i>3 Biotech</i> , 2015, 5, 401-410.	1.1	21
165	Outlook for the Production of Butanol from Cellulolytic Strains of Clostridia. , 2015, , 291-306.		1
166	Improving n-butanol production in batch and semi-continuous processes through integrated product recovery. <i>Process Biochemistry</i> , 2015, 50, 1487-1498.	1.8	49
167	Biofuel Production – This chapter was written with contributions from: Arash Mollahoseini, Biofuel Research Team (BRTeam), Karaj, Iran; Meisam Tabatabaei, Biofuel Research Team (BRTeam), Karaj, Iran and Agricultural Biotechnology Research Institute of Iran (ABRII), Karaj, Iran.. , 2015, , 597-630.		3
168	Overexpression of the phosphofructokinase encoding gene is crucial for achieving high production of D-lactate in <i>Corynebacterium glutamicum</i> under oxygen deprivation. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 4679-4689.	1.7	49
169	pH-induced change in cell susceptibility to butanol in a high butanol-tolerant bacterium, <i>Enterococcus faecalis</i> strain CM4A. <i>Biotechnology for Biofuels</i> , 2015, 8, 69.	6.2	9
170	Biobutanol from cheese whey. <i>Microbial Cell Factories</i> , 2015, 14, 27.	1.9	35

#	ARTICLE	IF	CITATIONS
171	Analysis of the molecular response of <i>Pseudomonas putida</i> KT2440 to the next-generation biofuel n-butanol. <i>Journal of Proteomics</i> , 2015, 122, 11-25.	1.2	24
172	Redox-switch regulatory mechanism of thiolase from <i>Clostridium acetobutylicum</i> . <i>Nature Communications</i> , 2015, 6, 8410.	5.8	54
173	Modular design of metabolic network for robust production of n-butanol from galactose-glucose mixtures. <i>Biotechnology for Biofuels</i> , 2015, 8, 137.	6.2	21
174	Engineering the glycolytic pathway: A potential approach for improvement of biocatalyst performance. <i>Bioengineered</i> , 2015, 6, 328-334.	1.4	20
175	Alcohol Selectivity in a Synthetic Thermophilic n-Butanol Pathway Is Driven by Biocatalytic and Thermostability Characteristics of Constituent Enzymes. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7187-7200.	1.4	24
176	Applying systems biology tools to study n-butanol degradation in <i>Pseudomonas putida</i> KT2440. <i>Engineering in Life Sciences</i> , 2015, 15, 760-771.	2.0	23
177	Isolation and characterisation of non-anaerobic butanol-producing symbiotic system TSH06. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8803-8813.	1.7	15
178	Genetic and nutrient modulation of acetyl-CoA levels in <i>Synechocystis</i> for n-butanol production. <i>Microbial Cell Factories</i> , 2015, 14, 167.	1.9	92
179	Identification and characterization of a highly thermostable crotonase from <i>Meiothermus ruber</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 112, 40-44.	1.8	2
180	Microorganisms in Biorefineries. <i>Microbiology Monographs</i> , 2015, , .	0.3	3
181	Potential production platform of n-butanol in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2015, 27, 76-82.	3.6	82
182	Recent advances in microbial production of fuels and chemicals using tools and strategies of systems metabolic engineering. <i>Biotechnology Advances</i> , 2015, 33, 1455-1466.	6.0	94
183	Metabolic engineering of <i>Saccharomyces cerevisiae</i> for production of butanol isomers. <i>Current Opinion in Biotechnology</i> , 2015, 33, 1-7.	3.3	80
184	Recent advances to improve fermentative butanol production: Genetic engineering and fermentation technology. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 1-9.	1.1	175
185	Can Microbially Derived Advanced Biofuels Ever Compete with Conventional Bioethanol? A Critical Review. <i>BioResources</i> , 2016, 11, .	0.5	3
186	In Vitro Bioconversion of Pyruvate to n-Butanol with Minimized Cofactor Utilization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 74.	2.0	21
187	Rebalancing Redox to Improve Biobutanol Production by <i>Clostridium tyrobutyricum</i> . <i>Bioengineering</i> , 2016, 3, 2.	1.6	11
188	Genetic Engineering In BioButanol Production And Tolerance. <i>Brazilian Archives of Biology and Technology</i> , 2016, 59, .	0.5	10

#	ARTICLE	IF	CITATIONS
189	Quest for sustainable bio-production and recovery of butanol as a promising solution to fossil fuel. International Journal of Energy Research, 2016, 40, 411-438.	2.2	16
191	Increasing n-butanol production with <i>Saccharomyces cerevisiae</i> by optimizing acetyl-CoA synthesis, NADH levels and trans-2-enoyl-CoA reductase expression. Biotechnology for Biofuels, 2016, 9, 257.	6.2	43
192	Fuelling the future: microbial engineering for the production of sustainable biofuels. Nature Reviews Microbiology, 2016, 14, 288-304.	13.6	476
193	Systematic engineering of the central metabolism in <i>Escherichia coli</i> for effective production of n-butanol. Biotechnology for Biofuels, 2016, 9, 69.	6.2	44
194	Understanding butanol tolerance and assimilation in <i>Pseudomonas putida</i> : an integrated omics approach. Microbial Biotechnology, 2016, 9, 100-115.	2.0	38
195	Consolidating biofuel platforms through the fermentative bioconversion of crude glycerol to butanol. World Journal of Microbiology and Biotechnology, 2016, 32, 103.	1.7	17
196	A re-look at the biochemical strategies to enhance butanol production. Biomass and Bioenergy, 2016, 94, 187-200.	2.9	53
197	Biobutanol – A Renewable Green Alternative of Liquid Fuel from Algae. Green Energy and Technology, 2016, , 445-465.	0.4	7
198	Engineered fatty acid catabolism for fuel and chemical production. Current Opinion in Biotechnology, 2016, 42, 206-215.	3.3	20
199	<i>Nesterenkonia</i> sp. strain F, a halophilic bacterium producing acetone, butanol and ethanol under aerobic conditions. Scientific Reports, 2016, 6, 18408.	1.6	27
200	Self-regulated 1-butanol production in <i>Escherichia coli</i> based on the endogenous fermentative control. Biotechnology for Biofuels, 2016, 9, 267.	6.2	18
201	Bioreactors and in situ product recovery techniques for acetone-butanol-ethanol fermentation. FEMS Microbiology Letters, 2016, 363, fnw107.	0.7	24
202	Metabolic engineering of <i>Clostridium cellulolyticum</i> for the production of n-butanol from crystalline cellulose. Microbial Cell Factories, 2016, 15, 6.	1.9	91
203	Anoxic metabolism and biochemical production in <i>Pseudomonas putida</i> F1 driven by a bioelectrochemical system. Biotechnology for Biofuels, 2016, 9, 39.	6.2	82
204	n-Butanol production in <i>Saccharomyces cerevisiae</i> is limited by the availability of coenzyme A and cytosolic acetyl-CoA. Biotechnology for Biofuels, 2016, 9, 44.	6.2	63
205	Comprehensive molecular characterization of <i>Methylobacterium extorquens</i> AM1 adapted for 1-butanol tolerance. Biotechnology for Biofuels, 2016, 9, 84.	6.2	42
206	Isolation, characterization, and optimization of an aerobic butanol-producing bacterium from Singapore. Biotechnology and Applied Biochemistry, 2016, 63, 86-91.	1.4	8
207	Unorthodox methods for enhancing solvent production in solventogenic <i>Clostridium</i> species. Applied Microbiology and Biotechnology, 2016, 100, 1089-1099.	1.7	22

#	ARTICLE	IF	CITATIONS
208	A <i>Pseudomonas putida</i> double mutant deficient in butanol assimilation: a promising step for engineering a biological biofuel production platform. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw018.	0.7	16
209	Production of biobutanol from cellulose hydrolysate by the <i>Escherichia coli</i> co-culture system. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw008.	0.7	16
210	A cell-free framework for rapid biosynthetic pathway prototyping and enzyme discovery. <i>Metabolic Engineering</i> , 2016, 36, 116-126.	3.6	204
211	Frontiers in microbial 1-butanol and isobutanol production. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw020.	0.7	77
212	Pervaporation membrane reactors. , 2016, , 331-381.		8
214	Modular and selective biosynthesis of gasoline-range alkanes. <i>Metabolic Engineering</i> , 2016, 33, 28-40.	3.6	87
215	Global Transcriptional Responses to Osmotic, Oxidative, and Imipenem Stress Conditions in <i>Pseudomonas putida</i> . <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	55
216	Fermentative production of butanol: Perspectives on synthetic biology. <i>New Biotechnology</i> , 2017, 37, 210-221.	2.4	107
217	Development of a high efficiency integration system and promoter library for rapid modification of <i>Pseudomonas putida</i> KT2440. <i>Metabolic Engineering Communications</i> , 2017, 5, 1-8.	1.9	93
218	Metabolic engineering of <i>Escherichia coli</i> for higher alcohols production: An environmentally friendly alternative to fossil fuels. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 580-589.	8.2	18
219	Engineering coenzyme A-dependent pathway from <i>Clostridium saccharobutylicum</i> in <i>Escherichia coli</i> for butanol production. <i>Bioresource Technology</i> , 2017, 235, 140-148.	4.8	5
220	Reassessing <i>Escherichia coli</i> as a cell factory for biofuel production. <i>Current Opinion in Biotechnology</i> , 2017, 45, 92-103.	3.3	53
221	Synthetic Consortium of <i>Escherichia coli</i> for <i>n</i> -Butanol Production by Fermentation of the Glucose-Xylose Mixture. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 10040-10047.	2.4	37
222	A systematically chromosomally engineered <i>Escherichia coli</i> efficiently produces butanol. <i>Metabolic Engineering</i> , 2017, 44, 284-292.	3.6	54
223	Orthogonal partial least squares/projections to latent structures regression-based metabolomics approach for identification of gene targets for improvement of 1-butanol production in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 498-505.	1.1	24
224	Towards systems metabolic engineering in <i>Pichia pastoris</i> . <i>Biotechnology Advances</i> , 2017, 35, 681-710.	6.0	105
225	Effective production of <i>n</i> -butanol in <i>Escherichia coli</i> utilizing the glucose-glycerol mixture. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 81, 134-139.	2.7	13
226	The significance of proline and glutamate on butanol chaotropic stress in <i>Bacillus subtilis</i> 168. <i>Biotechnology for Biofuels</i> , 2017, 10, 122.	6.2	20

#	ARTICLE	IF	CITATIONS
227	A simple method to control glycolytic flux for the design of an optimal cell factory. <i>Biotechnology for Biofuels</i> , 2017, 10, 160.	6.2	9
228	Biobutanol – An impending biofuel for future: A review on upstream and downstream processing techniques. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 788-807.	8.2	173
229	Engineering the leucine biosynthetic pathway for isoamyl alcohol overproduction in <i>Saccharomyces cerevisiae</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 107-117.	1.4	30
230	Calculation of anharmonic effect on the dissociation of ethylene glycol. <i>Journal of Theoretical and Computational Chemistry</i> , 2017, 16, 1750077.	1.8	1
231	Development of Synthetic Microbial Platforms to Convert Lignocellulosic Biomass to Biofuels. <i>Advances in Bioenergy</i> , 2017, 2, 233-278.	0.5	6
232	Future Microbial Applications for Bioenergy Production: A Perspective. <i>Frontiers in Microbiology</i> , 2017, 8, 450.	1.5	60
233	Metabolic engineering of <i>Escherichia coli</i> for production of n-butanol from crude glycerol. <i>Biotechnology for Biofuels</i> , 2017, 10, 173.	6.2	44
234	Waste Degradation and Utilization by Lactic Acid Bacteria: Use of Lactic Acid Bacteria in Production of Food Additives, Bioenergy and Biogas. , 0, , .		11
235	DCEO Biotechnology: Tools To Design, Construct, Evaluate, and Optimize the Metabolic Pathway for Biosynthesis of Chemicals. <i>Chemical Reviews</i> , 2018, 118, 4-72.	23.0	141
236	Utilization of Sugarcane Field Residue (SFR) as Renewable Feedstock for Biobutanol Production. <i>Sugar Tech</i> , 2018, 20, 168-174.	0.9	6
237	An oleaginous yeast platform for renewable 1-butanol synthesis based on a heterologous CoA-dependent pathway and an endogenous pathway. <i>Microbial Cell Factories</i> , 2018, 17, 166.	1.9	14
238	Isolation, Development, and Genomic Analysis of <i>Bacillus megaterium</i> SR7 for Growth and Metabolite Production Under Supercritical Carbon Dioxide. <i>Frontiers in Microbiology</i> , 2018, 9, 2152.	1.5	9
239	CRISPR Gene Perturbations Provide Insights for Improving Bacterial Biofuel Tolerance. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 122.	2.0	19
240	A bacterial antibiotic resistance accelerator and applications. <i>Methods in Cell Biology</i> , 2018, 147, 41-57.	0.5	4
241	Iterative cycle of widely targeted metabolic profiling for the improvement of 1-butanol titer and productivity in <i>Synechococcus elongatus</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 188.	6.2	33
243	Biobutanol Production Using Recombinant Microorganisms. , 2018, , 47-62.		1
244	A <i>Pseudomonas putida</i> efflux pump acts on short-chain alcohols. <i>Biotechnology for Biofuels</i> , 2018, 11, 136.	6.2	42
245	The effects of disruption in membrane lipid biosynthetic genes on 1-butanol tolerance of <i>Bacillus subtilis</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 9279-9289.	1.7	4

#	ARTICLE	IF	CITATIONS
246	Tolerance and metabolic response of <i>Pseudomonas taiwanensis</i> VLB120 towards biomass hydrolysate-derived inhibitors. <i>Biotechnology for Biofuels</i> , 2018, 11, 199.	6.2	15
247	1-Butanol as a Solvent for Efficient Extraction of Polar Compounds from Aqueous Medium: Theoretical and Practical Aspects. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6975-6988.	1.2	24
248	Enhancing butanol tolerance of <i>Escherichia coli</i> reveals hydrophobic interaction of multi-tasking chaperone SecB. <i>Biotechnology for Biofuels</i> , 2019, 12, 164.	6.2	11
249	Recent Advances in Microbial Production of Butanol as a Biofuel. <i>International Journal of Applied Sciences and Biotechnology</i> , 2019, 7, 130-152.	0.4	4
250	Nutrient composition and safety evaluation of simulated isobutanol distillers dried grains with solubles and associated fermentation metabolites when fed to male Ross 708 broiler chickens (<i>Gallus</i>) Tj ETQq0 0 0.0gBT /Overlock 10 T		
251	Advances in Microbial Technology for Upscaling Sustainable Biofuel Production. , 2019, , 69-76.		12
252	Discovery and implementation of a novel pathway for n-butanol production via 2-oxoglutarate. <i>Biotechnology for Biofuels</i> , 2019, 12, 230.	6.2	12
254	Strategies to improve microbial lipid production: Optimization techniques. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 22, 101321.	1.5	5
255	Metabolic engineering applications of the <i>Escherichia coli</i> bacterial artificial chromosome. <i>Journal of Biotechnology</i> , 2019, 305, 43-50.	1.9	0
256	Potential of acetone-butanol-ethanol (ABE) as a biofuel. <i>Fuel</i> , 2019, 242, 673-686.	3.4	223
257	Anaerobic butanol production driven by oxygen-evolving photosynthesis using the heterocyst-forming multicellular cyanobacterium <i>Anabaena</i> sp. PCC 7120. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 2441-2447.	1.7	11
258	Engineering Clostridial Aldehyde/Alcohol Dehydrogenase for Selective Butanol Production. <i>MBio</i> , 2019, 10, .	1.8	18
261	Current challenges and advances in butanol production. , 2019, , 225-256.		5
262	Identifying and engineering the ideal microbial terpenoid production host. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5501-5516.	1.7	114
263	Versatility of a Dilute Acid/Butanol Pretreatment Investigated on Various Lignocellulosic Biomasses to Produce Lignin, Monosaccharides and Cellulose in Distinct Phases. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11069-11079.	3.2	50
264	Bio-butanol production from rice straw " Recent trends, possibilities, and challenges. <i>Bioresource Technology Reports</i> , 2019, 7, 100224.	1.5	49
265	Biobutanol as a promising liquid fuel for the future - recent updates and perspectives. <i>Fuel</i> , 2019, 253, 637-646.	3.4	110
266	Alkane and wax ester production from lignin-related aromatic compounds. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1934-1945.	1.7	22

#	ARTICLE	IF	CITATIONS
267	Establishing synthesis pathwayâ€host compatibility via enzyme solubility. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1405-1416.	1.7	6
268	Biochemistry, genetics and biotechnology of glycerol utilization in <i>Pseudomonas</i> species. <i>Microbial Biotechnology</i> , 2020, 13, 32-53.	2.0	76
269	Accumulation of sugars and nucleosides in response to high salt and butanol stress in 1-butanol producing <i>Synechococcus elongatus</i> . <i>Journal of Bioscience and Bioengineering</i> , 2020, 129, 177-183.	1.1	4
270	Bioconversion of lignocellulosic biomass to bioethanol and biobutanol. , 2020, , 67-125.		20
271	Enhancing control of cell-free metabolism through pH modulation. <i>Synthetic Biology</i> , 2020, 5, .	1.2	24
273	Engineering nature for gaseous hydrocarbon production. <i>Microbial Cell Factories</i> , 2020, 19, 209.	1.9	9
274	Optimization of <i>n</i> -butanol synthesis in <i>Lactobacillus brevis</i> via the functional expression of <i>thl</i> , <i>hbd</i> , <i>crt</i> and <i>ter</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 1099-1108.	1.4	5
275	<i>Clostridium thermocellum</i> : A microbial platform for high-value chemical production from lignocellulose. <i>Advances in Applied Microbiology</i> , 2020, 113, 111-161.	1.3	22
276	Metabolic engineering strategies for butanol production in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2020, 117, 2571-2587.	1.7	17
277	Harnessing Natural Modularity of Metabolism with Goal Attainment Optimization to Design a Modular Chassis Cell for Production of Diverse Chemicals. <i>ACS Synthetic Biology</i> , 2020, 9, 1665-1681.	1.9	14
278	Role of efflux in enhancing butanol tolerance of bacteria. <i>Journal of Biotechnology</i> , 2020, 320, 17-27.	1.9	15
279	Pathway dissection, regulation, engineering and application: lessons learned from biobutanol production by solventogenic clostridia. <i>Biotechnology for Biofuels</i> , 2020, 13, 39.	6.2	65
280	Present status and future prospect of genetic and metabolic engineering for biofuels production from lignocellulosic biomass. , 2020, , 171-192.		1
281	Metabolic pathway engineering: Perspectives and applications. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 192, 105436.	2.6	18
282	Genetic engineering of non-native hosts for 1-butanol production and its challenges: a review. <i>Microbial Cell Factories</i> , 2020, 19, 79.	1.9	30
283	Biobutanol as a potential alternative to petroleum fuel: Sustainable bioprocess and cost analysis. <i>Fuel</i> , 2020, 278, 118403.	3.4	12
284	Substrate Analysis for Effective Biofuels Production. <i>Clean Energy Production Technologies</i> , 2020, , .	0.3	3
285	Genetic manipulation of non-solvent-producing microbial species for effective butanol production. <i>Biofuels, Bioproducts and Biorefining</i> , 2021, 15, 119-130.	1.9	5

#	ARTICLE	IF	CITATIONS
286	How to outwit nature: Omics insight into butanol tolerance. <i>Biotechnology Advances</i> , 2021, 46, 107658.	6.0	12
287	Butanol Tolerance of <i>Lactiplantibacillus plantarum</i> : A Transcriptome Study. <i>Genes</i> , 2021, 12, 181.	1.0	6
288	Microbiological Aspects of Bioenergy Production: Recent Update and Future Directions. <i>Clean Energy Production Technologies</i> , 2021, , 29-52.	0.3	3
289	Proteomic Analysis Identifies Dysregulated Proteins in Butanol-Tolerant Gram-Positive <i>Lactobacillus mucosae</i> BR071333. <i>ACS Omega</i> , 2021, 6, 4034-4043.	1.6	5
290	Carotenoids improve bacterial tolerance towards biobutanol through membrane stabilization. <i>Environmental Science: Nano</i> , 2021, 8, 328-341.	2.2	6
291	Comparative transcriptome analysis reveals the key regulatory genes for higher alcohol formation by yeast at different L-lysine concentrations. <i>Food Microbiology</i> , 2021, 95, 103713.	2.1	15
292	Analysis of metabolic network disruption in engineered microbial hosts due to enzyme promiscuity. <i>Metabolic Engineering Communications</i> , 2021, 12, e00170.	1.9	7
294	Emerging technologies for genetic modification of solventogenic clostridia: From tool to strategy development. <i>Bioresource Technology</i> , 2021, 334, 125222.	4.8	9
295	Metabolic engineering of <i>Escherichia coli</i> for the production of isobutanol: a review. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 168.	1.7	4
296	Assessment of microbial biomass for production of ecofriendly single-cell protein, bioenergy, and other useful products. , 2021, , 267-284.		0
297	Biofuel: Types and Process Overview. <i>Clean Energy Production Technologies</i> , 2020, , 1-28.	0.3	2
298	Current Advancements in Microbial Fuel Cell Technologies. , 2020, , 477-494.		8
299	Biofuels Production Using Metabolic Engineering. , 2020, , 231-244.		2
300	Algal Butanol Production. <i>Clean Energy Production Technologies</i> , 2020, , 33-50.	0.3	1
301	Biobutanol Production From Renewable Resources. <i>Advances in Bioenergy</i> , 2016, 1, 1-68.	0.5	8
302	Metabolic engineering for the production of butanol, a potential advanced biofuel, from renewable resources. <i>Biochemical Society Transactions</i> , 2020, 48, 2283-2293.	1.6	7
303	Butanol is cytotoxic to <i>Lactococcus lactis</i> while ethanol and hexanol are cytostatic. <i>Microbiology (United Kingdom)</i> , 2017, 163, 453-461.	0.7	6
306	Tuning the transcription and translation of L-lysine decarboxylase in <i>Escherichia coli</i> improves L-lysine production from L-leucine. <i>PLoS ONE</i> , 2017, 12, e0179229.	1.1	6

#	ARTICLE	IF	CITATIONS
307	Advances in consolidated bioprocessing systems for bioethanol and butanol production from biomass: a comprehensive review. <i>Biofuel Research Journal</i> , 0, , 152-195.	7.2	174
308	Ethanol Production in Actinomycetes after Expression of Synthetic adhB and pdc. <i>Open Biotechnology Journal</i> , 2012, 6, 13-16.	0.6	5
309	Metabolic Engineering of <i>Thermoanaerobacterium thermosaccharolyticum</i> for Increased n-Butanol Production. <i>Advances in Microbiology</i> , 2013, 03, 46-51.	0.3	30
310	Evaluation of Carbon and Electron Flow in <i>Lactobacillus brevis</i> as a Potential Host for Heterologous 1-Butanol Biosynthesis. <i>Advances in Microbiology</i> , 2013, 03, 450-461.	0.3	3
311	The Past, Present, and Future of Biofuels – Biobutanol as Promising Alternative. , 0, , .		7
313	Fermentation of oxidized hexose derivatives by <i>Clostridium acetobutylicum</i> . <i>Microbial Cell Factories</i> , 2014, 13, 139.	1.9	0
314	Engineering Central Metabolism for Production of Higher Alcohol-based Biofuels. , 2016, , 1-34.		3
315	Crystal Structure of Thiolase from <i>Clostridium butyricum</i> . <i>Journal of Life Science</i> , 2016, 26, 353-358.	0.2	1
318	Bacteria for Butanol Production: Bottlenecks, Achievements and Prospects. <i>Journal of Pure and Applied Microbiology</i> , 2019, 13, 1429-1440.	0.3	1
320	n-Butanol production by <i>Rhodospseudomonas palustris</i> TIE-1. <i>Communications Biology</i> , 2021, 4, 1257.	2.0	20
322	Directed evolution of biofuel-responsive biosensors for automated optimization of branched-chain alcohol biosynthesis. <i>Metabolic Engineering</i> , 2022, 69, 98-111.	3.6	12
323	Applications of Microbes in Fuel Generation. <i>Environmental and Microbial Biotechnology</i> , 2022, , 711-736.	0.4	1
324	Controlling selectivity of modular microbial biosynthesis of butyryl-CoA-derived designer esters. <i>Metabolic Engineering</i> , 2022, 69, 262-274.	3.6	11
325	Hydrogen and alcohols production by <i>Serratia</i> sp. from an inorganic carbon source. <i>Journal of CO2 Utilization</i> , 2022, 58, 101914.	3.3	1
326	Synthetic metabolic pathways for conversion of CO2 into secreted short-to medium-chain hydrocarbons using cyanobacteria. <i>Metabolic Engineering</i> , 2022, 72, 14-23.	3.6	20
327	Engineering <i>E. coli</i> to synthesize butanol. <i>Biochemical Society Transactions</i> , 2022, 50, 867-876.	1.6	7
331	N-Butanol or Isobutanol as a Value-Added Fuel Additive to Inhibit Microbial Degradation of Stored Gasoline. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
332	Consolidated bioprocessing of hemicellulose to fuels and chemicals through an engineered <i>Bacillus subtilis</i> - <i>Escherichia coli</i> consortium. <i>Renewable Energy</i> , 2022, 193, 288-298.	4.3	6

#	ARTICLE	IF	CITATIONS
333	Bioengineering in microbial production of biobutanol from renewable resources. , 2022, , 307-334.		1
334	Volatile compounds from in vitro metabolism of seven <i>Listeria monocytogenes</i> isolates belonging to different clonal complexes. <i>Journal of Medical Microbiology</i> , 2022, 71, .	0.7	2
335	Oxidoreduction potential controlling for increasing the fermentability of enzymatically hydrolyzed steam-exploded corn stover for butanol production. <i>Microbial Cell Factories</i> , 2022, 21, .	1.9	1
336	n-Butanol or isobutanol as a value-added fuel additive to inhibit microbial degradation of stored gasoline. <i>Fuel Communications</i> , 2022, 12, 100072.	2.0	1
337	Current progress on engineering microbial strains and consortia for production of cellulosic butanol through consolidated bioprocessing. <i>Microbial Biotechnology</i> , 2023, 16, 238-261.	2.0	8
338	Alternative Fuels for Agriculture Sustainability: Carbon Footprint and Economic Feasibility. <i>AgriEngineering</i> , 2022, 4, 993-1015.	1.7	14
339	Bio-butanol production: scope, significance, and applications. , 2023, , 1-45.		0
340	Insights into metabolic engineering approaches for enhanced biobutanol production. , 2023, , 329-361.		0
341	Microbial Waste Biomass as a Resource of Renewable Energy. <i>Clean Energy Production Technologies</i> , 2023, , 63-78.	0.3	0
344	Formate Dehydrogenase: From NAD(P)H Regeneration to Targeting Pathogen Biofilms, Composing Highly Efficient Hybrid Biocatalysts and Atmospheric CO ₂ Fixation. <i>Moscow University Chemistry Bulletin</i> , 2023, 78, 151-169.	0.2	1
345	Higher alcohols: metabolic pathways and engineering strategies for enhanced production. , 2024, , 19-65.		0
346	Assessment of Microbes and Microbial Products for Future Industrialization. , 2023, , 17-22.		0