Long Liu

List of Publications by Year
in descending order

286 papers	9,523 citations	41339 49 h-index	74160 75 g-index
300 all docs	300 docs citations	300 times ranked	7092 citing authors

#	Article	IF	Citations
1	Microbial production of hyaluronic acid: current state, challenges, and perspectives. Microbial Cell Factories, 2011, 10, 99.	4.0	288
2	Microbial response to acid stress: mechanisms and applications. Applied Microbiology and Biotechnology, 2020, 104, 51-65.	3.6	280
3	Metabolic engineering in the biotechnological production of organic acids in the tricarboxylic acid cycle of microorganisms: Advances and prospects. Biotechnology Advances, 2015, 33, 830-841.	11.7	185
4	CRISPR/Cas9-Based Efficient Genome Editing in <i>Clostridium ljungdahlii</i>, an Autotrophic Gas-Fermenting Bacterium. ACS Synthetic Biology, 2016, 5, 1355-1361.	3.8	171
5	Advances and prospects of Bacillus subtilis cellular factories: From rational design to industrial applications. Metabolic Engineering, 2018, 50, 109-121.	7.0	163
6	Combinatorial pathway enzyme engineering and host engineering overcomes pyruvate overflow and enhances overproduction of N-acetylglucosamine in Bacillus subtilis. Microbial Cell Factories, 2019, 18, 1.	4.0	163
7	CRISPRâ€based genome editing and expression control systems in <i>Clostridium acetobutylicum</i> and <i>Clostridium beijerinckii</i>. Biotechnology Journal, 2016, 11, 961-972.	3.5	153
8	How to achieve high-level expression of microbial enzymes. Bioengineered, 2013, 4, 212-223.	3.2	137
9	Modular pathway engineering of Bacillus subtilis for improved N-acetylglucosamine production. Metabolic Engineering, 2014, 23, 42-52.	7.0	130
10	Developing Bacillus spp. as a cell factory for production of microbial enzymes and industrially important biochemicals in the context of systems and synthetic biology. Applied Microbiology and Biotechnology, 2013, 97, 6113-6127.	3.6	121
11	Microbial response to environmental stresses: from fundamental mechanisms to practical applications. Applied Microbiology and Biotechnology, 2017, 101, 3991-4008.	3.6	117
12	Design of a programmable biosensor-CRISPRi genetic circuits for dynamic and autonomous dual-control of metabolic flux in Bacillus subtilis. Nucleic Acids Research, 2020, 48, 996-1009.	14.5	111
13	Economical challenges to microbial producers of butanol: Feedstock, butanol ratio and titer. Biotechnology Journal, 2011, 6, 1348-1357.	3.5	108
14	Microbial production of glucosamine and N-acetylglucosamine: advances and perspectives. Applied Microbiology and Biotechnology, 2013, 97, 6149-6158.	3.6	105
15	Microbial production of propionic acid from propionibacteria: Current state, challenges and perspectives. Critical Reviews in Biotechnology, 2012, 32, 374-381.	9.0	101
16	Reconstruction of xylose utilization pathway and regulons in Firmicutes. BMC Genomics, 2010, 11, 255.	2.8	100
17	Optimization and scale-up of propionic acid production by propionic acid-tolerant Propionibacterium acidipropionici with glycerol as the carbon source. Bioresource Technology, 2010, 101, 8902-8906.	9.6	98
18	Pyruvate-responsive genetic circuits for dynamic control of central metabolism. Nature Chemical Biology, 2020, 16, 1261-1268.	8.0	94

#	Article	IF	Citations
19	Engineering a Bifunctional Phr60-Rap60-Spo0A Quorum-Sensing Molecular Switch for Dynamic Fine-Tuning of Menaquinone-7 Synthesis in <i>Bacillus subtilis</i>. ACS Synthetic Biology, 2019, 8, 1826-1837.	3.8	87
20	Microbial Chassis Development for Natural Product Biosynthesis. Trends in Biotechnology, 2020, 38, 779-796.	9.3	84
21	CRISPRi allows optimal temporal control of N-acetylglucosamine bioproduction by a dynamic coordination of glucose and xylose metabolism in Bacillus subtilis. Metabolic Engineering, 2018, 49, 232-241.	7.0	83
22	Synthetic Biology Toolbox and Chassis Development in Bacillus subtilis. Trends in Biotechnology, 2019, 37, 548-562.	9.3	81
23	Spatial modulation of key pathway enzymes by DNA-guided scaffold system and respiration chain engineering for improved N-acetylglucosamine production by Bacillus subtilis. Metabolic Engineering, 2014, 24, 61-69.	7.0	77
24	Metabolic engineering strategies to enable microbial utilization of C1 feedstocks. Nature Chemical Biology, 2021, 17, 845-855.	8.0	77
25	Pathway engineering of Bacillus subtilis for microbial production of N-acetylglucosamine. Metabolic Engineering, 2013, 19, 107-115.	7.0	76
26	Rewiring the reductive tricarboxylic acid pathway and L-malate transport pathway of Aspergillus oryzae for overproduction of L-malate. Journal of Biotechnology, 2017, 253, 1-9.	3.8	74
27	Metabolic engineering of Bacillus subtilis fueled by systems biology: Recent advances and future directions. Biotechnology Advances, 2017, 35, 20-30.	11.7	74
28	Coupling metabolic addiction with negative autoregulation to improve strain stability and pathway yield. Metabolic Engineering, 2020, 61, 79-88.	7.0	70
29	Metabolic engineering of Escherichia coli BL21 for biosynthesis of heparosan, a bioengineered heparin precursor. Metabolic Engineering, 2012, 14, 521-527.	7.0	69
30	Systems-level understanding of how Propionibacterium acidipropionici respond to propionic acid stress at the microenvironment levels: Mechanism and application. Journal of Biotechnology, 2013, 167, 56-63.	3.8	69
31	Utilization of economical substrate-derived carbohydrates by solventogenic clostridia: pathway dissection, regulation and engineering. Current Opinion in Biotechnology, 2014, 29, 124-131.	6.6	69
32	l-Amino acid oxidases from microbial sources: types, properties, functions, and applications. Applied Microbiology and Biotechnology, 2014, 98, 1507-1515.	3.6	69
33	Structure-based engineering of histidine residues in the catalytic domain of Î±-amylase from Bacillus subtilis for improved protein stability and catalytic efficiency under acidic conditions. Journal of Biotechnology, 2013, 164, 59-66.	3.8	66
34	Synthetic redesign of central carbon and redox metabolism for high yield production of N-acetylglucosamine in Bacillus subtilis. Metabolic Engineering, 2019, 51, 59-69.	7.0	66
35	Recent advances in discovery, heterologous expression, and molecular engineering of cyclodextrin glycosyltransferase for versatile applications. Biotechnology Advances, 2014, 32, 415-428.	11.7	64
36	Ammonium acetate enhances solvent production by Clostridium acetobutylicum EA 2018 using cassava as a fermentation medium. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 1225-1232.	3.0	62

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37	Molecular engineering of industrial enzymes: recent advances and future prospects. Applied Microbiology and Biotechnology, 2014, 98, 23-29.	3.6	62
38	Biotechnological production of alpha-keto acids: Current status and perspectives. Bioresource Technology, 2016, 219, 716-724.	9.6	62
39	Redox-Responsive Repressor Rex Modulates Alcohol Production and Oxidative Stress Tolerance in Clostridium acetobutylicum. Journal of Bacteriology, 2014, 196, 3949-3963.	2.2	60
40	Rational Design to Improve Protein Thermostability: Recent Advances and Prospects. ChemBioEng Reviews, 2015, 2, 87-94.	4.4	59
41	Engineering <i>Yarrowia lipolytica</i> as a Chassis for <i>De Novo</i> Synthesis of Five Aromatic-Derived Natural Products and Chemicals. ACS Synthetic Biology, 2020, 9, 2096-2106.	3.8	59
42	Molecular modulation of pleiotropic regulator CcpA for glucose and xylose coutilization by solvent-producing Clostridium acetobutylicum. Metabolic Engineering, 2015, 28, 169-179.	7.0	58
43	Improved production of 2,5-furandicarboxylic acid by overexpression of 5-hydroxymethylfurfural oxidase and 5-hydroxymethylfurfural/furfural oxidoreductase in Raoultella ornithinolytica BF60. Bioresource Technology, 2018, 247, 1184-1188.	9.6	58
44	Phage serine integrase-mediated genome engineering for efficient expression of chemical biosynthetic pathway in gas-fermenting Clostridium ljungdahlii. Metabolic Engineering, 2019, 52, 293-302.	7.0	58
45	Biocatalytic production of 2,5-furandicarboxylic acid: recent advances and future perspectives. Applied Microbiology and Biotechnology, 2020, 104, 527-543.	3.6	58
46	CAMERSâ€B: CRISPR/Cpf1 assisted multipleâ€genes editing and regulation system for <i>Bacillus subtilis</i>. Biotechnology and Bioengineering, 2020, 117, 1817-1825.	3.3	58
47	Protein and metabolic engineering for the production of organic acids. Bioresource Technology, 2017, 239, 412-421.	9.6	57
48	Refactoring Ehrlich Pathway for High-Yield 2-Phenylethanol Production in <i>Yarrowia lipolytica</i>. ACS Synthetic Biology, 2020, 9, 623-633.	3.8	55
49	CRISPR-Cas12a-Mediated Gene Deletion and Regulation in <i>Clostridium ljungdahlii</i> and Its Application in Carbon Flux Redirection in Synthesis Gas Fermentation. ACS Synthetic Biology, 2019, 8, 2270-2279.	3.8	54
50	Engineering the Substrate Transport and Cofactor Regeneration Systems for Enhancing 2â€²-Fucosyllactose Synthesis in <i>Bacillus subtilis</i>. ACS Synthetic Biology, 2019, 8, 2418-2427.	3.8	54
51	Improvement of xylose utilization in Clostridium acetobutylicum via expression of the talA gene encoding transaldolase from Escherichia coli. Journal of Biotechnology, 2009, 143, 284-287.	3.8	53
52	Synthetic biology, systems biology, and metabolic engineering of <i>Yarrowia lipolytica</i> toward a sustainable biorefinery platform. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 845-862.	3.0	53
53	Enhanced hyaluronic acid production by a two-stage culture strategy based on the modeling of batch and fed-batch cultivation of Streptococcus zooepidemicus. Bioresource Technology, 2008, 99, 8532-8536.	9.6	51
54	Functions, applications and production of 2-O-d-glucopyranosyl-l-ascorbic acid. Applied Microbiology and Biotechnology, 2012, 95, 313-320.	3.6	51

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55	High-level extracellular production of alkaline polygalacturonate lyase in Bacillus subtilis with optimized regulatory elements. Bioresource Technology, 2013, 146, 543-548.	9.6	51
56	Overproduction of alkaline polygalacturonate lyase in recombinant Escherichia coli by a two-stage glycerol feeding approach. Bioresource Technology, 2011, 102, 10671-10678.	9.6	50
57	CRISPRi-Guided Multiplexed Fine-Tuning of Metabolic Flux for Enhanced Lacto-<i>N</i>-neotetraose Production in <i>Bacillus subtilis</i>. Journal of Agricultural and Food Chemistry, 2020, 68, 2477-2484.	5.2	50
58	Production of phenylpyruvic acid from l-phenylalanine using an l-amino acid deaminase from Proteus mirabilis: comparison of enzymatic and whole-cell biotransformation approaches. Applied Microbiology and Biotechnology, 2015, 99, 8391-8402.	3.6	49
59	Enhanced alcohol titre and ratio in carbon monoxide-rich off-gas fermentation of Clostridium carboxidivorans through combination of trace metals optimization with variable-temperature cultivation. Bioresource Technology, 2017, 239, 236-243.	9.6	49
60	Engineering a Glucosamine-6-phosphate Responsive <i>glmS</i> Ribozyme Switch Enables Dynamic Control of Metabolic Flux in <i>Bacillus subtilis</i> for Overproduction of <i>N</i>-Acetylglucosamine. ACS Synthetic Biology, 2018, 7, 2423-2435.	3.8	49
61	Structure-based rational design and introduction of arginines on the surface of an alkaline Î±-amylase from Alkalimonas amylolytica for improved thermostability. Applied Microbiology and Biotechnology, 2014, 98, 8937-8945.	3.6	48
62	P <i>gas</i> , a Low-pH-Induced Promoter, as a Tool for Dynamic Control of Gene Expression for Metabolic Engineering of Aspergillus niger. Applied and Environmental Microbiology, 2017, 83, .	3.1	48
63	Synthetic N-terminal coding sequences for fine-tuning gene expression and metabolic engineering in Bacillus subtilis. Metabolic Engineering, 2019, 55, 131-141.	7.0	48
64	Microbial production of sialic acid and sialylated human milk oligosaccharides: Advances and perspectives. Biotechnology Advances, 2019, 37, 787-800.	11.7	48
65	Developing an endogenous quorum-sensing based CRISPRi circuit for autonomous and tunable dynamic regulation of multiple targets in Streptomyces. Nucleic Acids Research, 2020, 48, 8188-8202.	14.5	46
66	Discovery of an ene-reductase for initiating flavone and flavonol catabolism in gut bacteria. Nature Communications, 2021, 12, 790.	12.8	46
67	<i>In Silico</i> Rational Design and Systems Engineering of Disulfide Bridges in the Catalytic Domain of an Alkaline Î±-Amylase from Alkalimonas amylolytica To Improve Thermostability. Applied and Environmental Microbiology, 2014, 80, 798-807.	3.1	45
68	Improved Production of Propionic Acid in Propionibacterium jensenii via Combinational Overexpression of Glycerol Dehydrogenase and Malate Dehydrogenase from Klebsiella pneumoniae. Applied and Environmental Microbiology, 2015, 81, 2256-2264.	3.1	45
69	Understanding of how Propionibacterium acidipropionici respond to propionic acid stress at the level of proteomics. Scientific Reports, 2014, 4, 6951.	3.3	45
70	A dynamic pathway analysis approach reveals a limiting futile cycle in N-acetylglucosamine overproducing Bacillus subtilis. Nature Communications, 2016, 7, 11933.	12.8	45
71	A Flexible Binding Site Architecture Provides New Insights into CcpA Global Regulation in Gram-Positive Bacteria. MBio, 2017, 8, .	4.1	44
72	Metabolic engineering of carbon overflow metabolism of Bacillus subtilis for improved N-acetyl-glucosamine production. Bioresource Technology, 2018, 250, 642-649.	9.6	44

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73	Metabolic Engineering of Raoultella ornithinolytica BF60 for Production of 2,5-Furandicarboxylic Acid from 5-Hydroxymethylfurfural. Applied and Environmental Microbiology, 2017, 83, .	3.1	43
74	Synergistic improvement of N-acetylglucosamine production by engineering transcription factors and balancing redox cofactors. Metabolic Engineering, 2021, 67, 330-346.	7.0	43
75	Comparative genomics and transcriptome analysis of Aspergillus niger and metabolic engineering for citrate production. Scientific Reports, 2017, 7, 41040.	3.3	43
76	Bioconversion of l-glutamic acid to Î±-ketoglutaric acid by an immobilized whole-cell biocatalyst expressing l-amino acid deaminase from Proteus mirabilis. Journal of Biotechnology, 2014, 169, 112-120.	3.8	42
77	One-step production of Î±-ketoglutaric acid from glutamic acid with an engineered l-amino acid deaminase from Proteus mirabilis. Journal of Biotechnology, 2013, 164, 97-104.	3.8	41
78	Improved glucosamine and N-acetylglucosamine production by an engineered Escherichia coli via step-wise regulation of dissolved oxygen level. Bioresource Technology, 2012, 110, 534-538.	9.6	40
79	The promises and challenges of fusion constructs in protein biochemistry and enzymology. Applied Microbiology and Biotechnology, 2016, 100, 8273-8281.	3.6	40
80	Heterologous expression, biochemical characterization, and overproduction of alkaline Î±-amylase from Bacillus alcalophilus in Bacillus subtilis. Microbial Cell Factories, 2011, 10, 77.	4.0	39
81	Structure-Based Engineering of Methionine Residues in the Catalytic Cores of Alkaline Amylase from Alkalimonas amylolytica for Improved Oxidative Stability. Applied and Environmental Microbiology, 2012, 78, 7519-7526.	3.1	39
82	Improved propionic acid production from glycerol with metabolically engineered Propionibacterium jensenii by integrating fed-batch culture with a pH-shift control strategy. Bioresource Technology, 2014, 152, 519-525.	9.6	39
83	Clostridia: a flexible microbial platform for the production of alcohols. Current Opinion in Chemical Biology, 2016, 35, 65-72.	6.1	39
84	Molecular engineering of chitinase from Bacillus sp. DAU101 for enzymatic production of chitooligosaccharides. Enzyme and Microbial Technology, 2019, 124, 54-62.	3.2	39
85	Microbial production of low molecular weight hyaluronic acid by adding hydrogen peroxide and ascorbate in batch culture of Streptococcus zooepidemicus. Bioresource Technology, 2009, 100, 362-367.	9.6	38
86	Metabolic engineering of cofactor flavin adenine dinucleotide (FAD) synthesis and regeneration in <i>Escherichia coli</i> for production of Î±â€keto acids. Biotechnology and Bioengineering, 2017, 114, 1928-1936.	3.3	38
87	I-SceI-mediated scarless gene modification via allelic exchange in Clostridium. Journal of Microbiological Methods, 2015, 108, 49-60.	1.6	37
88	Metabolic engineering of acid resistance elements to improve acid resistance and propionic acid production of <i>Propionibacterium jensenii</i>. Biotechnology and Bioengineering, 2016, 113, 1294-1304.	3.3	37
89	Rewiring the Glucose Transportation and Central Metabolic Pathways for Overproduction of <i>N</i>â€Acetylglucosamine in <i>Bacillus subtilis</i>. Biotechnology Journal, 2017, 12, 1700020.	3.5	37
90	Boosting Secretion of Extracellular Protein by Escherichia coli via Cell Wall Perturbation. Applied and Environmental Microbiology, 2018, 84, .	3.1	37

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91	Combinatorial synthetic pathway fineâ€tuning and comparative transcriptomics for metabolic engineering of <i>Raoultella ornithinolytica</i> BF60 to efficiently synthesize 2,5â€furandicarboxylic acid. Biotechnology and Bioengineering, 2018, 115, 2148-2155.	3.3	36
92	De novo biosynthesis of rubusoside and rebaudiosides in engineered yeasts. Nature Communications, 2022, 13, .	12.8	36
93	Fusion of an Oligopeptide to the N Terminus of an Alkaline Î±-Amylase from Alkalimonas amylolytica Simultaneously Improves the Enzyme's Catalytic Efficiency, Thermal Stability, and Resistance to Oxidation. Applied and Environmental Microbiology, 2013, 79, 3049-3058.	3.1	35
94	Development of GRAS strains for nutraceutical production using systems and synthetic biology approaches: advances and prospects. Critical Reviews in Biotechnology, 2017, 37, 139-150.	9.0	35
95	Modular pathway engineering of key carbonâ€precursor supplyâ€pathways for improved <i>N</i>â€acetylneuraminic acid production in <i>Bacillus subtilis</i>. Biotechnology and Bioengineering, 2018, 115, 2217-2231.	3.3	35
96	Refactoring transcription factors for metabolic engineering. Biotechnology Advances, 2022, 57, 107935.	11.7	35
97	Development of a Propionibacterium-Escherichia coli Shuttle Vector for Metabolic Engineering of Propionibacterium jensenii, an Efficient Producer of Propionic Acid. Applied and Environmental Microbiology, 2013, 79, 4595-4602.	3.1	34
98	Enhanced glucosamine production by Aspergillus sp. BCRC 31742 based on the time-variant kinetics analysis of dissolved oxygen level. Bioresource Technology, 2012, 111, 507-511.	9.6	33
99	Titrating bacterial growth and chemical biosynthesis for efficient N-acetylglucosamine and N-acetylneuraminic acid bioproduction. Nature Communications, 2020, 11, 5078.	12.8	33
100	Combined overexpression of genes involved in pentose phosphate pathway enables enhanced d-xylose utilization by Clostridium acetobutylicum. Journal of Biotechnology, 2014, 173, 7-9.	3.8	32
101	Rapid Generation of Universal Synthetic Promoters for Controlled Gene Expression in Both Gas-Fermenting and Saccharolytic <i>Clostridium</i> Species. ACS Synthetic Biology, 2017, 6, 1672-1678.	3.8	32
102	Combinatorial promoter engineering of glucokinase and phosphoglucoisomerase for improved N-acetylglucosamine production in Bacillus subtilis. Bioresource Technology, 2017, 245, 1093-1102.	9.6	32
103	Synergistic Rewiring of Carbon Metabolism and Redox Metabolism in Cytoplasm and Mitochondria of <i>Aspergillus oryzae</i> for Increased <scp>l</scp>-Malate Production. ACS Synthetic Biology, 2018, 7, 2139-2147.	3.8	32
104	Modular pathway engineering of key precursor supply pathways for lacto-N-neotetraose production in Bacillus subtilis. Biotechnology for Biofuels, 2019, 12, 212.	6.2	32
105	Current advances in design and engineering strategies of industrial enzymes. Systems Microbiology and Biomanufacturing, 2021, 1, 15-23.	2.9	32
106	Toward metabolic engineering in the context of system biology and synthetic biology: advances and prospects. Applied Microbiology and Biotechnology, 2015, 99, 1109-1118.	3.6	31
107	Complete genome sequence of Clostridium carboxidivorans P7T, a syngas-fermenting bacterium capable of producing long-chain alcohols. Journal of Biotechnology, 2015, 211, 44-45.	3.8	31
108	Synthetic biology for future food: Research progress and future directions. Future Foods, 2021, 3, 100025.	5.4	31

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109	Recent advances in recombinant protein expression by Corynebacterium, Brevibacterium, and Streptomyces: from transcription and translation regulation to secretion pathway selection. Applied Microbiology and Biotechnology, 2013, 97, 9597-9608.	3.6	30
110	Improved production of Î±-ketoglutaric acid (Î±-KG) by a Bacillus subtilis whole-cell biocatalyst via engineering of l-amino acid deaminase and deletion of the Î±-KG utilization pathway. Journal of Biotechnology, 2014, 187, 71-77.	3.8	30
111	An optimal glucose feeding strategy integrated with step-wise regulation of the dissolved oxygen level improves N-acetylglucosamine production in recombinant Bacillus subtilis. Bioresource Technology, 2015, 177, 387-392.	9.6	30
112	Metabolic regulation in solventogenic clostridia: regulators, mechanisms and engineering. Biotechnology Advances, 2018, 36, 905-914.	11.7	30
113	Comparative metabolomics analysis of the key metabolic nodes in propionic acid synthesis in Propionibacterium acidipropionici. Metabolomics, 2015, 11, 1106-1116.	3.0	29
114	Comparative genomics and transcriptomics analysisâ€guided metabolic engineering of <i>Propionibacterium acidipropionici</i> for improved propionic acid production. Biotechnology and Bioengineering, 2018, 115, 483-494.	3.3	29
115	Creating an in vivo bifunctional gene expression circuit through an aptamer-based regulatory mechanism for dynamic metabolic engineering in Bacillus subtilis. Metabolic Engineering, 2019, 55, 179-190.	7.0	29
116	Cell Membrane and Electron Transfer Engineering for Improved Synthesis of Menaquinone-7 in Bacillus subtilis. IScience, 2020, 23, 100918.	4.1	29
117	One-step biosynthesis of Î±-ketoisocaproate from l-leucine by an Escherichia coli whole-cell biocatalyst expressing an l-amino acid deaminase from Proteus vulgaris. Scientific Reports, 2015, 5, 12614.	3.3	28
118	Significantly enhancing recombinant alkaline amylase production in Bacillus subtilis by integration of a novel mutagenesis-screening strategy with systems-level fermentation optimization. Journal of Biological Engineering, 2016, 10, 13.	4.7	28
119	Combination of phenylpyruvic acid (PPA) pathway engineering and molecular engineering of l-amino acid deaminase improves PPA production with an Escherichia coli whole-cell biocatalyst. Applied Microbiology and Biotechnology, 2016, 100, 2183-2191.	3.6	28
120	Engineering Clostridium ljungdahlii as the gas-fermenting cell factory for the production of biofuels and biochemicals. Current Opinion in Chemical Biology, 2020, 59, 54-61.	6.1	28
121	Metabolic Engineering of Gas-Fermenting <i>Clostridium ljungdahlii</i> for Efficient Co-production of Isopropanol, 3-Hydroxybutyrate, and Ethanol. ACS Synthetic Biology, 2021, 10, 2628-2638.	3.8	28
122	Site-saturation engineering of lysine 47 in cyclodextrin glycosyltransferase from Paenibacillus macerans to enhance substrate specificity towards maltodextrin for enzymatic synthesis of 2-O-d-glucopyranosyl-l-ascorbic acid (AA-2G). Applied Microbiology and Biotechnology, 2013, 97, 5851-5860.	3.6	27
123	Efficient isopropanol biosynthesis by engineered Escherichia coli using biologically produced acetate from syngas fermentation. Bioresource Technology, 2020, 296, 122337.	9.6	27
124	Current advance in biological production of short-chain organic acid. Applied Microbiology and Biotechnology, 2020, 104, 9109-9124.	3.6	27
125	Design and construction of novel biocatalyst for bioprocessing: Recent advances and future outlook. Bioresource Technology, 2021, 332, 125071.	9.6	27
126	Combinatorial metabolic engineering of Escherichia coli for de novo production of 2â€²-fucosyllactose. Bioresource Technology, 2022, 351, 126949.	9.6	27

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127	Systems Engineering of Tyrosine 195, Tyrosine 260, and Glutamine 265 in Cyclodextrin Glycosyltransferase from Paenibacillus macerans To Enhance Maltodextrin Specificity for 2- <i>O</i> - <scp>d</scp> -Glucopyranosyl- <scp>l</scp> -Ascorbic Acid Synthesis. Applied and Environmental Microbiology, 2013, 79, 672-677.	3.1	26
128	Improved propionic acid production with metabolically engineered Propionibacterium jensenii by an oxidoreduction potential-shift control strategy. Bioresource Technology, 2015, 175, 606-612.	9.6	26
129	Metabolic engineering of Corynebacterium glutamicum S9114 based on whole-genome sequencing for efficient N-acetylglucosamine synthesis. Synthetic and Systems Biotechnology, 2019, 4, 120-129.	3.7	26
130	A novel regulatory pathway consisting of a two-component system and an ABC-type transporter contributes to butanol tolerance in Clostridium acetobutylicum. Applied Microbiology and Biotechnology, 2020, 104, 5011-5023.	3.6	26
131	A Novel Dual- <i>cre</i> Motif Enables Two-Way Autoregulation of CcpA in Clostridium acetobutylicum. Applied and Environmental Microbiology, 2018, 84, .	3.1	25
132	Metabolic engineering for the production of fat-soluble vitamins: advances and perspectives. Applied Microbiology and Biotechnology, 2020, 104, 935-951.	3.6	25
133	One-Step Biosynthesis of Î±-Keto-Î³-Methylthiobutyric Acid from L-Methionine by an Escherichia coli Whole-Cell Biocatalyst Expressing an Engineered L-Amino Acid Deaminase from Proteus vulgaris. PLoS ONE, 2014, 9, e114291.	2.5	25
134	Modeling and optimization of microbial hyaluronic acid production by <i>Streptococcus zooepidemicus</i> using radial basis function neural network coupling quantumâ€behaved particle swarm optimization algorithm. Biotechnology Progress, 2009, 25, 1819-1825.	2.6	24
135	Enzymatic transformation of 2-O-Î±-D-glucopyranosyl-L-ascorbic acid by Î±-cyclodextrin glucanotransferase from recombinant Escherichia coli. Biotechnology and Bioprocess Engineering, 2011, 16, 107-113.	2.6	24
136	Optimization of glucose feeding approaches for enhanced glucosamine and <i>N</i>-acetylglucosamine production by an engineered <i>Escherichia coli</i>. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 359-365.	3.0	24
137	Pathway engineering of Propionibacterium jensenii for improved production of propionic acid. Scientific Reports, 2016, 6, 19963.	3.3	24
138	<scp>PTS</scp> regulation domainâ€containing transcriptional activator Cel<scp>R</scp> and sigma factor Ïƒ⁵⁴ control cellobiose utilization in <scp><i>C</i></scp><i>lostridium acetobutylicum</i>. Molecular Microbiology, 2016, 100, 289-302.	2.5	24
139	Ethanol Metabolism Dynamics in Clostridium ljungdahlii Grown on Carbon Monoxide. Applied and Environmental Microbiology, 2020, 86, .	3.1	24
140	Metabolic engineering of Escherichia coli for the production of Lacto-N-neotetraose (LNnT). Systems Microbiology and Biomanufacturing, 2021, 1, 291-301.	2.9	24
141	Comparative study on the influence of dissolved oxygen control approaches on the microbial hyaluronic acid production of Streptococcus zooepidemicus. Bioprocess and Biosystems Engineering, 2009, 32, 755-763.	3.4	23
142	Caproicibacterium amylolyticum gen. nov., sp. nov., a novel member of the family Oscillospiraceae isolated from pit clay used for making Chinese strong aroma-type liquor. International Journal of Systematic and Evolutionary Microbiology, 2021, 71, .	1.7	23
143	Enzymatic transformation of 2-O-Î±-d-glucopyranosyl-l-ascorbic acid (AA-2G) by immobilized Î±-cyclodextrin glucanotransferase from recombinant Escherichia coli. Journal of Molecular Catalysis B: Enzymatic, 2011, 68, 223-229.	1.8	22
144	Iterative Saturation Mutagenesis of â~'6 Subsite Residues in Cyclodextrin Glycosyltransferase from Paenibacillus macerans To Improve Maltodextrin Specificity for 2- <i>O</i> - <scp>d</scp> -Glucopyranosyl- <scp>l</scp> -Ascorbic Acid Synthesis. Applied and Environmental Microbiology, 2013, 79, 7562-7568.	3.1	22

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145	Structure-based engineering of alkaline Î±-amylase from alkaliphilic Alkalimonas amylolytica for improved thermostability. Applied Microbiology and Biotechnology, 2014, 98, 3997-4007.	3.6	22
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