Long Liu

List of Publications by Year in Descending Order

268 papers	6,075 citations	41 h-index	60 g-index
300 ext. papers	7,843 ext. citations	6.2 avg, IF	6.33 L-index

#	Paper	IF	Citations
268	Model-driven design of synthetic N-terminal coding sequences for regulating gene expression in yeast and bacteria.. *Biotechnology Journal*, **2022**, e2100655	5.6	1
267	Combinatorial pathway engineering of Bacillus subtilis for production of structurally defined and homogeneous chitooligosaccharides.. *Metabolic Engineering*, **2022**,	9.7	1
266	Model-based dynamic engineering of Escherichia coli for N-acetylglucosamine overproduction. *Biotechnology Notes*, **2022**, 3, 15-24	1.3	0
265	Directed Evolution of Artificial Metalloenzymes in Whole Cells. *Angewandte Chemie*, **2022**, 134, e202110569	5.6	
264	CsPbBr3/Cs2SiF6:Mn4+/2ZnS/Al Rivet Nanostructured Perovskites with Dual-Wavelength Emission for Flexible White Electroluminescence. *ACS Applied Nano Materials*, **2022**, 5, 3743-3755	5.6	0
263	Biosynthesis of Guanidinoacetate by Bacillus subtilis Whole-Cell Catalysis. *Fermentation*, **2022**, 8, 116	4.7	0
262	Combinatorial metabolic engineering of Escherichia coli for de novo production of 2′-fucosyllactose.. *Bioresource Technology*, **2022**, 126949	11	2
261	Refactoring transcription factors for metabolic engineering.. *Biotechnology Advances*, **2022**, 107935	17.8	0
260	Combinatorial Metabolic Engineering and Enzymatic Catalysis Enable Efficient Production of Colanic Acid. *Microorganisms*, **2022**, 10, 877	4.9	1
259	New synthetic biology tools for metabolic control.. *Current Opinion in Biotechnology*, **2022**, 76, 102724	11.4	1
258	Analysis and modeling tools of metabolic flux **2022**, 45-68		
257	Construction of Multiscale Genome-Scale Metabolic Models: Frameworks and Challenges. *Biomolecules*, **2022**, 12, 721	5.9	1
256	Constructing a methanol-dependent Bacillus subtilis by engineering the methanol metabolism.. *Journal of Biotechnology*, **2021**, 343, 128-137	3.7	0
255	Protein acetylation-mediated cross-regulation of acetic acid and ethanol synthesis in the gas-fermenting Clostridium ljungdahlii.. *Journal of Biological Chemistry*, **2021**, 101538	5.4	2
254	gen. nov., sp. nov., a novel member of the family isolated from pit clay used for making Chinese strong aroma-type liquor. *International Journal of Systematic and Evolutionary Microbiology*, **2021**, 71,	2.2	7
253	Conferring thermotolerant phenotype to wild-type Yarrowia lipolytica improves cell growth and erythritol production. *Biotechnology and Bioengineering*, **2021**, 118, 3117-3127	4.9	1
252	Synthetic biology for future food: Research progress and future directions. *Future Foods*, **2021**, 3, 100025	5.3	7

251	Engineering a ComA Quorum-Sensing circuit to dynamically control the production of Menaquinone-4 in Bacillus subtilis. *Enzyme and Microbial Technology*, **2021**, 147, 109782	3.8	2
250	Design and construction of novel biocatalyst for bioprocessing: Recent advances and future outlook. *Bioresource Technology*, **2021**, 332, 125071	11	5
249	Functional dissection and modulation of the BirA protein for improved autotrophic growth of gas-fermenting Clostridium□jungdahlii. *Microbial Biotechnology*, **2021**, 14, 2072-2089	6.3	2
248	Metabolic engineering for the synthesis of steviol glycosides: current status and future prospects. *Applied Microbiology and Biotechnology*, **2021**, 105, 5367-5381	5.7	3
247	Recent advances and challenges in microbial production of human milk oligosaccharides. *Systems Microbiology and Biomanufacturing*, **2021**, 1, 1-14		5
246	Current advances in design and engineering strategies of industrial enzymes. *Systems Microbiology and Biomanufacturing*, **2021**, 1, 15-23		11
245	A review on current conventional and biotechnical approaches to enhance biosynthesis of steviol glycosides in Stevia rebaudiana. *Chinese Journal of Chemical Engineering*, **2021**, 30, 92-104	3.2	8
244	Food synthetic biology-driven protein supply transition: From animal-derived production to microbial fermentation. *Chinese Journal of Chemical Engineering*, **2021**, 30, 29-36	3.2	3
243	Synthetic yeast brews neuroactive compounds. *Nature Chemical Biology*, **2021**, 17, 8-9	11.7	1
242	The elucidation of phosphosugar stress response in Bacillus subtilis guides strain engineering for high N-acetylglucosamine production. *Biotechnology and Bioengineering*, **2021**, 118, 383-396	4.9	3
241	Metabolic engineering of Escherichia coli for the production of Lacto-N-neotetraose (LNnT). *Systems Microbiology and Biomanufacturing*, **2021**, 1, 291		5
240	Discovery of an ene-reductase for initiating flavone and flavonol catabolism in gut bacteria. *Nature Communications*, **2021**, 12, 790	17.4	14
239	Synthetic biology-driven microbial production of folates: Advances and perspectives. *Bioresource Technology*, **2021**, 324, 124624	11	3
238	Metabolic engineering strategies to enable microbial utilization of C1 feedstocks. *Nature Chemical Biology*, **2021**, 17, 845-855	11.7	20
237	Multilayer Genetic Circuits for Dynamic Regulation of Metabolic Pathways. *ACS Synthetic Biology*, **2021**, 10, 1587-1597	5.7	1
236	Production of proteins and commodity chemicals using engineered Bacillus subtilis platform strain. *Essays in Biochemistry*, **2021**, 65, 173-185	7.6	1
235	Semi-rational design of L-amino acid deaminase for production of pyruvate and D-alanine by Escherichia coli whole-cell biocatalyst. *Amino Acids*, **2021**, 53, 1361-1371	3.5	1
234	Engineering diacetylchitobiose deacetylase from Pyrococcus horikoshii towards an efficient glucosamine production. *Bioresource Technology*, **2021**, 334, 125241	11	7

233	Inducible Population Quality Control of Engineered for Improved -Acetylneuraminic Acid Biosynthesis. *ACS Synthetic Biology*, **2021**, 10, 2197-2209	5.7	0
232	Synergistic improvement of N-acetylglucosamine production by engineering transcription factors and balancing redox cofactors. *Metabolic Engineering*, **2021**, 67, 330-346	9.7	5
231	Metabolic Engineering of Gas-Fermenting for Efficient Co-production of Isopropanol, 3-Hydroxybutyrate, and Ethanol. *ACS Synthetic Biology*, **2021**, 10, 2628-2638	5.7	5
230	Improving Aspergillus niger seed preparation and citric acid production by morphology controlling-based semicontinuous cultivation. *Biochemical Engineering Journal*, **2021**, 174, 108102	4.2	1
229	High level production of diacetylchitobiose deacetylase by refactoring genetic elements and cellular metabolism. *Bioresource Technology*, **2021**, 341, 125836	11	1
228	The Small RNA sr8384 Is a Crucial Regulator of Cell Growth in Solventogenic Clostridia. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	3
227	Ethanol Metabolism Dynamics in Clostridium ljungdahlii Grown on Carbon Monoxide. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	13
226	Coupling metabolic addiction with negative autoregulation to improve strain stability and pathway yield. *Metabolic Engineering*, **2020**, 61, 79-88	9.7	42
225	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	9.7	17
224	Development and optimization of N-acetylneuraminic acid biosensors in Bacillus subtilis. *Biotechnology and Applied Biochemistry*, **2020**, 67, 693-705	2.8	4
223	Assembly of pathway enzymes by engineering functional membrane microdomain components for improved N-acetylglucosamine synthesis in Bacillus subtilis. *Metabolic Engineering*, **2020**, 61, 96-105	9.7	3
222	Development of a DNA double-strand break-free base editing tool in for genome editing and metabolic engineering. *Metabolic Engineering Communications*, **2020**, 11, e00135	6.5	2
221	Biocatalytic synthesis of lactosucrose using a recombinant thermostable Ɛ-fructofuranosidase from sp. 10138. *Bioengineered*, **2020**, 11, 416-427	5.7	10
220	CAMERS-B: CRISPR/Cpf1 assisted multiple-genes editing and regulation system for Bacillus subtilis. *Biotechnology and Bioengineering*, **2020**, 117, 1817-1825	4.9	21
219	Enzyme Assembly for Compartmentalized Metabolic Flux Control. *Metabolites*, **2020**, 10,	5.6	4
218	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	5.7	18
217	Systems metabolic engineering of Bacillus subtilis for efficient biosynthesis of 5-methyltetrahydrofolate. *Biotechnology and Bioengineering*, **2020**, 117, 2116-2130	4.9	6
216	Refactoring Ehrlich Pathway for High-Yield 2-Phenylethanol Production in. *ACS Synthetic Biology*, **2020**, 9, 623-633	5.7	25

215	Cell-free synthesis system-assisted pathway bottleneck diagnosis and engineering in. *Synthetic and Systems Biotechnology*, **2020**, 5, 131-136	4.2	1
214	Engineering as a Chassis for Synthesis of Five Aromatic-Derived Natural Products and Chemicals. *ACS Synthetic Biology*, **2020**, 9, 2096-2106	5.7	27
213	Synthetic biology, systems biology, and metabolic engineering of Yarrowia lipolytica toward a sustainable biorefinery platform. *Journal of Industrial Microbiology and Biotechnology*, **2020**, 47, 845-862	4.2	25
212	CRISPRi-Guided Multiplexed Fine-Tuning of Metabolic Flux for Enhanced Lacto--neotetraose Production in. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 2477-2484	5.7	29
211	Ferrous-Iron-Activated Transcriptional Factor AdhR Regulates Redox Homeostasis in. *Applied and Environmental Microbiology*, **2020**, 86,	4.8	3
210	Enzyme assembly guided by SPFH-induced functional inclusion bodies for enhanced cascade biocatalysis. *Biotechnology and Bioengineering*, **2020**, 117, 1446-1457	4.9	2
209	Cell Membrane and Electron Transfer Engineering for Improved Synthesis of Menaquinone-7 in Bacillus subtilis. *IScience*, **2020**, 23, 100918	6.1	17
208	Synthetic metabolic channel by functional membrane microdomains for compartmentalized flux control. *Metabolic Engineering*, **2020**, 59, 106-118	9.7	9
207	Microbial Chassis Development for Natural Product Biosynthesis. *Trends in Biotechnology*, **2020**, 38, 779-796	15.6	42
206	Combinatorial Methylerythritol Phosphate Pathway Engineering and Process Optimization for Increased Menaquinone-7 Synthesis in. *Journal of Microbiology and Biotechnology*, **2020**, 30, 762-769	3.3	5
205	Genetically Encoded Biosensors and Their Applications in the Development of Microbial Cell Factories **2020**, 53-73		4
204	Developing rapid growing for improved biochemical and recombinant protein production. *Metabolic Engineering Communications*, **2020**, 11, e00141	6.5	4
203	Control of solvent production by sigma-54 factor and the transcriptional activator AdhR in Clostridium beijerinckii. *Microbial Biotechnology*, **2020**, 13, 328-338	6.3	5
202	Efficient isopropanol biosynthesis by engineered Escherichia coli using biologically produced acetate from syngas fermentation. *Bioresource Technology*, **2020**, 296, 122337	11	14
201	Synergetic engineering of central carbon and nitrogen metabolism for the production of N-acetylglucosamine in Bacillus subtilis. *Biotechnology and Applied Biochemistry*, **2020**, 67, 123-132	2.8	3
200	High-yield and plasmid-free biocatalytic production of 5-methylpyrazine-2-carboxylic acid by combinatorial genetic elements engineering and genome engineering of Escherichia coli. *Enzyme and Microbial Technology*, **2020**, 134, 109488	3.8	9
199	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	20.1	57
198	Biocatalytic production of 2,5-furandicarboxylic acid: recent advances and future perspectives. *Applied Microbiology and Biotechnology*, **2020**, 104, 527-543	5.7	38

197	Metabolic engineering for the production of fat-soluble vitamins: advances and perspectives. *Applied Microbiology and Biotechnology*, **2020**, 104, 935-951	5.7	10
196	Microbial response to acid stress: mechanisms and applications. *Applied Microbiology and Biotechnology*, **2020**, 104, 51-65	5.7	104
195	Titrating bacterial growth and chemical biosynthesis for efficient N-acetylglucosamine and N-acetylneuraminic acid bioproduction. *Nature Communications*, **2020**, 11, 5078	17.4	9
194	Current advance in biological production of short-chain organic acid. *Applied Microbiology and Biotechnology*, **2020**, 104, 9109-9124	5.7	9
193	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	20.1	20
192	The Metabolism of in Phosphotransacetylase Negative Strains and Development of an Ethanologenic Strain. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 560726	5.8	5
191	A roadmap to engineering antiviral natural products synthesis in microbes. *Current Opinion in Biotechnology*, **2020**, 66, 140-149	11.4	10
190	Systems biology, synthetic biology, and metabolic engineering **2020**, 1-31		2
189	The SCIFF-Derived Ranthipeptides Participate in Quorum Sensing in Solventogenic Clostridia. *Biotechnology Journal*, **2020**, 15, e2000136	5.6	12
188	Systems and synthetic metabolic engineering for production of biochemicals **2020**, 207-235		0
187	Applications of CRISPR in a Microbial Cell Factory: From Genome Reconstruction to Metabolic Network Reprogramming. *ACS Synthetic Biology*, **2020**, 9, 2228-2238	5.7	7
186	Combinatorial engineering for improved menaquinone-4 biosynthesis in Bacillus subtilis. *Enzyme and Microbial Technology*, **2020**, 141, 109652	3.8	7
185	Biotransformation and chiral resolution of d,l-alanine into pyruvate and d-alanine with a whole-cell biocatalyst expressing l-amino acid deaminase. *Biotechnology and Applied Biochemistry*, **2020**, 67, 668-676	2.8	3
184	Towards next-generation model microorganism chassis for biomanufacturing. *Applied Microbiology and Biotechnology*, **2020**, 104, 9095-9108	5.7	2
183	Pyruvate-responsive genetic circuits for dynamic control of central metabolism. *Nature Chemical Biology*, **2020**, 16, 1261-1268	11.7	34
182	Interactive Regulation of Formate Dehydrogenase during CO Fixation in Gas-Fermenting Bacteria. *MBio*, **2020**, 11,	7.8	6
181	CRISPR-Cas12a-Mediated Gene Deletion and Regulation in and Its Application in Carbon Flux Redirection in Synthesis Gas Fermentation. *ACS Synthetic Biology*, **2019**, 8, 2270-2279	5.7	34
180	Modular pathway engineering of key precursor supply pathways for lacto--neotetraose production in. *Biotechnology for Biofuels*, **2019**, 12, 212	7.8	19

179	Engineering the Substrate Transport and Cofactor Regeneration Systems for Enhancing 2′-Fucosyllactose Synthesis in. *ACS Synthetic Biology*, **2019**, 8, 2418-2427	5.7	25
178	Metabolic engineering of S9114 based on whole-genome sequencing for efficient -acetylglucosamine synthesis. *Synthetic and Systems Biotechnology*, **2019**, 4, 120-129	4.2	12
177	Engineering a Bifunctional Phr60-Rap60-Spo0A Quorum-Sensing Molecular Switch for Dynamic Fine-Tuning of Menaquinone-7 Synthesis in. *ACS Synthetic Biology*, **2019**, 8, 1826-1837	5.7	49
176	Generation of a fully erythromycin-sensitive strain of Clostridioides difficile using a novel CRISPR-Cas9 genome editing system. *Scientific Reports*, **2019**, 9, 8123	4.9	15
175	Towards semi-synthetic microbial communities: enhancing soy sauce fermentation properties in B. subtilis co-cultures. *Microbial Cell Factories*, **2019**, 18, 101	6.4	7
174	Microbial production of sialic acid and sialylated human milk oligosaccharides: Advances and perspectives. *Biotechnology Advances*, **2019**, 37, 787-800	17.8	27
173	Enzyme Engineering and Industrial Bioprocess **2019**, 165-188		3
172	Engineering of L-amino acid deaminases for the production of -keto acids from L-amino acids. *Bioengineered*, **2019**, 10, 43-51	5.7	5
171	Pathway Engineering of Bacillus subtilis for Enhanced N-Acetylneuraminic Acid Production via Whole-Cell Biocatalysis. *Biotechnology Journal*, **2019**, 14, e1800682	5.6	3
170	Molecular engineering of chitinase from Bacillus sp. DAU101 for enzymatic production of chitooligosaccharides. *Enzyme and Microbial Technology*, **2019**, 124, 54-62	3.8	20
169	Combinatorial Fine-Tuning of GNA1 and GlmS Expression by 5′-Terminus Fusion Engineering Leads to Overproduction of N-Acetylglucosamine in Bacillus subtilis. *Biotechnology Journal*, **2019**, 14, e1800264	5.6	7
168	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	9.7	19
167	Synthetic N-terminal coding sequences for fine-tuning gene expression and metabolic engineering in Bacillus subtilis. *Metabolic Engineering*, **2019**, 55, 131-141	9.7	30
166	Secretory Expression Fine-Tuning and Directed Evolution of Diacetylchitobiose Deacetylase by Bacillus subtilis. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	10
165	Microbial Production of Oligosaccharides and Polysaccharides **2019**, 75-91		
164	Microbial Production of Functional Organic Acids **2019**, 45-73		
163	Screening, Optimization and Assembly of Key Pathway Enzymes in Metabolic Engineering **2019**, 167-176		1
162	Synthetic repetitive extragenic palindromic (REP) sequence as an efficient mRNA stabilizer for protein production and metabolic engineering in prokaryotic cells. *Biotechnology and Bioengineering*, **2019**, 116, 5-18	4.9	11

161	Improving extracellular protein production in Escherichia coli by overexpressing D,D-carboxypeptidase to perturb peptidoglycan network synthesis and structure. *Applied Microbiology and Biotechnology*, **2019**, 103, 793-806	5.7	11
160	Synthetic Biology Toolbox and Chassis Development in Bacillus subtilis. *Trends in Biotechnology*, **2019**, 37, 548-562	15.1	45
159	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	6.4	84
158	Metabolic engineering of Escherichia coli carrying the hybrid acetone-biosynthesis pathway for efficient acetone biosynthesis from acetate. *Microbial Cell Factories*, **2019**, 18, 6	6.4	11
157	Phage serine integrase-mediated genome engineering for efficient expression of chemical biosynthetic pathway in gas-fermenting Clostridium ljungdahlii. *Metabolic Engineering*, **2019**, 52, 293-302	9.7	40
156	Synthetic redesign of central carbon and redox metabolism for high yield production of N-acetylglucosamine in Bacillus subtilis. *Metabolic Engineering*, **2019**, 51, 59-69	9.7	34
155	Engineering of Biosynthesis Pathway and NADPH Supply for Improved L-5-Methyltetrahydrofolate Production by. *Journal of Microbiology and Biotechnology*, **2019**, 31, 154-162	3.3	1
154	Metabolic regulation in solventogenic clostridia: regulators, mechanisms and engineering. *Biotechnology Advances*, **2018**, 36, 905-914	17.8	21
153	A Novel Dual- Motif Enables Two-Way Autoregulation of CcpA in Clostridium acetobutylicum. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	11
152	Efficient expression of cyclodextrin glycosyltransferase from Geobacillus stearothermophilus in Escherichia coli by promoter engineering and downstream box evolution. *Journal of Biotechnology*, **2018**, 266, 77-83	3.7	9
151	Adsorption characteristics of clay minerals in shale. *Petroleum Science and Technology*, **2018**, 36, 108-114	1.4	7
150	Comparative genomics and transcriptomics analysis-guided metabolic engineering of Propionibacterium acidipropionici for improved propionic acid production. *Biotechnology and Bioengineering*, **2018**, 115, 483-494	4.9	24
149	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	11	43
148	A new approach for efficient synthesis of phenyllactic acid from L-phenylalanine: Pathway design and cofactor engineering. *Journal of Food Biochemistry*, **2018**, 42, e12584	3.3	9
147	Combinatorial synthetic pathway fine-tuning and comparative transcriptomics for metabolic engineering of Raoultella ornithinolytica BF60 to efficiently synthesize 2,5-furandicarboxylic acid. *Biotechnology and Bioengineering*, **2018**, 115, 2148-2155	4.9	26
146	Boosting Secretion of Extracellular Protein by Escherichia coli via Cell Wall Perturbation. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	23
145	Engineering a Glucosamine-6-phosphate Responsive glmS Ribozyme Switch Enables Dynamic Control of Metabolic Flux in Bacillus subtilis for Overproduction of N-Acetylglucosamine. *ACS Synthetic Biology*, **2018**, 7, 2423-2435	5.7	35
144	Synergistic Rewiring of Carbon Metabolism and Redox Metabolism in Cytoplasm and Mitochondria of Aspergillus oryzae for Increased l-Malate Production. *ACS Synthetic Biology*, **2018**, 7, 2139-2147	5.7	17

143	Modular pathway engineering of key carbon-precursor supply-pathways for improved N-acetylneuraminic acid production in Bacillus subtilis. *Biotechnology and Bioengineering*, **2018**, 115, 2217-2231	4.9	27
142	Biocatalytic Production of Glucosamine from -Acetylglucosamine by Diacetylchitobiose Deacetylase. *Journal of Microbiology and Biotechnology*, **2018**, 28, 1850-1858	3.3	7
141	Combinatorial Fine-Tuning of Phospholipase D Expression by WB600 for the Production of Phosphatidylserine. *Journal of Microbiology and Biotechnology*, **2018**, 28, 2046-2056	3.3	7
140	Enhanced 2,5-Furandicarboxylic Acid (FDCA) Production in BF60 by Manipulation of the Key Genes in FDCA Biosynthesis Pathway. *Journal of Microbiology and Biotechnology*, **2018**, 28, 1999-2008	3.3	2
139	Metabolic engineering of carbon overflow metabolism of Bacillus subtilis for improved N-acetyl-glucosamine production. *Bioresource Technology*, **2018**, 250, 642-649	11	32
138	Metabolic engineering for the production of chitooligosaccharides: advances and perspectives. *Emerging Topics in Life Sciences*, **2018**, 2, 377-388	3.5	4
137	Study on pressure sensitivity of tight sandstone and its influence on reservoir characteristics. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2018**, 40, 2671-2677	1.6	9
136	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	9.7	54
135	Advances and prospects of Bacillus subtilis cellular factories: From rational design to industrial applications. *Metabolic Engineering*, **2018**, 50, 109-121	9.7	95
134	Development of GRAS strains for nutraceutical production using systems and synthetic biology approaches: advances and prospects. *Critical Reviews in Biotechnology*, **2017**, 37, 139-150	9.4	23
133	Cloning, expression, and characterization of a novel sialidase from Brevibacterium casei. *Biotechnology and Applied Biochemistry*, **2017**, 64, 195-200	2.8	2
132	P, 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,	4.8	35
131	A Flexible Binding Site Architecture Provides New Insights into CcpA Global Regulation in Gram-Positive Bacteria. *MBio*, **2017**, 8,	7.8	23
130	Microbial response to environmental stresses: from fundamental mechanisms to practical applications. *Applied Microbiology and Biotechnology*, **2017**, 101, 3991-4008	5.7	54
129	Protein and metabolic engineering for the production of organic acids. *Bioresource Technology*, **2017**, 239, 412-421	11	37
128	Metabolic engineering of cofactor flavin adenine dinucleotide (FAD) synthesis and regeneration in Escherichia coli for production of Eketo acids. *Biotechnology and Bioengineering*, **2017**, 114, 1928-1936	4.9	20
127	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	3.7	47
126	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	11	34

125	Analytical modeling of mercury injection in high-rank coalbed methane reservoirs based on pores and microfractures: a case study of the upper carboniferous Taiyuan Formation in the Heshun block of the Qinshui Basin, central China. *Journal of Geophysics and Engineering*, **2017**, 14, 197-211	1.3	7
124	Rapid Generation of Universal Synthetic Promoters for Controlled Gene Expression in Both Gas-Fermenting and Saccharolytic Clostridium Species. *ACS Synthetic Biology*, **2017**, 6, 1672-1678	5.7	21
123	Rational molecular engineering of L-amino acid deaminase for production of Ekketoisovaleric acid from L-valine by Escherichia coli. *RSC Advances*, **2017**, 7, 6615-6621	3.7	14
122	Metabolic engineering of Aspergillus oryzae for efficient production of l-malate directly from corn starch. *Journal of Biotechnology*, **2017**, 262, 40-46	3.7	14
121	Combinatorial promoter engineering of glucokinase and phosphoglucoisomerase for improved N-acetylglucosamine production in Bacillus subtilis. *Bioresource Technology*, **2017**, 245, 1093-1102	11	25
120	Synthesis of a hierarchical cobalt sulfide/cobalt basic salt nanocomposite via a vapor-phase hydrothermal method as an electrode material for supercapacitor. *New Journal of Chemistry*, **2017**, 41, 12147-12152	3.6	9
119	Molecular mechanism of environmental d-xylose perception by a XylFII-LytS complex in bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 8235-8240	11.5	12
118	Rewiring the Glucose Transportation and Central Metabolic Pathways for Overproduction of N-Acetylglucosamine in Bacillus subtilis. *Biotechnology Journal*, **2017**, 12, 1700020	5.6	24
117	The methane adsorption characteristics of marine shale. *Petroleum Science and Technology*, **2017**, 35, 1799-1805	1.4	4
116	Metabolic Engineering of Raoultella ornithinolytica BF60 for Production of 2,5-Furandicarboxylic Acid from 5-Hydroxymethylfurfural. *Applied and Environmental Microbiology*, **2017**, 83,	4.8	32
115	Microbial Production and Molecular Engineering of Industrial Enzymes **2017**, 151-165		12
114	Metabolic engineering of Bacillus subtilis fueled by systems biology: Recent advances and future directions. *Biotechnology Advances*, **2017**, 35, 20-30	17.8	53
113	Tuning the transcription and translation of L-amino acid deaminase in Escherichia coli improves Ekketoisocaproate production from L-leucine. *PLoS ONE*, **2017**, 12, e0179229	3.7	5
112	Comparative genomics and transcriptome analysis of Aspergillus niger and metabolic engineering for citrate production. *Scientific Reports*, **2017**, 7, 41040	4.9	32
111	Biological production of L-malate: recent advances and future prospects. *World Journal of Microbiology and Biotechnology*, **2017**, 34, 6	4.4	11
110	Transporter engineering and enzyme evolution for pyruvate production from D/L-alanine with a whole-cell biocatalyst expressing L-amino acid deaminase from Proteus mirabilis. *RSC Advances*, **2016**, 6, 82676-82684	3.7	15
109	The promises and challenges of fusion constructs in protein biochemistry and enzymology. *Applied Microbiology and Biotechnology*, **2016**, 100, 8273-81	5.7	30
108	Clostridia: a flexible microbial platform for the production of alcohols. *Current Opinion in Chemical Biology*, **2016**, 35, 65-72	9.7	33

107	A dynamic pathway analysis approach reveals a limiting futile cycle in N-acetylglucosamine overproducing Bacillus subtilis. *Nature Communications*, **2016**, 7, 11933	17.4	38
106	Roles of three AbrBs in regulating two-phase Clostridium acetobutylicum fermentation. *Applied Microbiology and Biotechnology*, **2016**, 100, 9081-9089	5.7	11
105	CRISPR/Cas9-Based Efficient Genome Editing in Clostridium ljungdahlii, an Autotrophic Gas-Fermenting Bacterium. *ACS Synthetic Biology*, **2016**, 5, 1355-1361	5.7	128
104	PTS regulation domain-containing transcriptional activator CelR and sigma factor (54) control cellobiose utilization in Clostridium acetobutylicum. *Molecular Microbiology*, **2016**, 100, 289-302	4.1	15
103	Metabolic engineering for amino-, oligo-, and polysugar production in microbes. *Applied Microbiology and Biotechnology*, **2016**, 100, 2523-33	5.7	11
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