Guocheng Du

List of Publications by Year
in descending order

320 papers	9,512 citations	47006 47 h-index	88630 70 g-index
340 all docs	340 docs citations	340 times ranked	6828 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	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
3	Advances and prospects of Bacillus subtilis cellular factories: From rational design to industrial applications. Metabolic Engineering, 2018, 50, 109-121.	7.0	163
4	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
5	Enhancing flavonoid production by systematically tuning the central metabolic pathways based on a CRISPR interference system in Escherichia coli. Scientific Reports, 2015, 5, 13477.	3.3	145
6	Modular pathway engineering of Bacillus subtilis for improved N-acetylglucosamine production. Metabolic Engineering, 2014, 23, 42-52.	7.0	130
7	Microbial response to environmental stresses: from fundamental mechanisms to practical applications. Applied Microbiology and Biotechnology, 2017, 101, 3991-4008.	3.6	117
8	Regulation of Sensing, Transportation, and Catabolism of Nitrogen Sources in Saccharomyces cerevisiae. Microbiology and Molecular Biology Reviews, 2018, 82, .	6.6	117
9	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
10	Production of specific-molecular-weight hyaluronan by metabolically engineered Bacillus subtilis 168. Metabolic Engineering, 2016, 35, 21-30.	7.0	109
11	Pyruvate-responsive genetic circuits for dynamic control of central metabolism. Nature Chemical Biology, 2020, 16, 1261-1268.	8.0	94
12	Fate of antibiotics, antibiotic-resistant bacteria, and cell-free antibiotic-resistant genes in full-scale membrane bioreactor wastewater treatment plants. Bioresource Technology, 2020, 302, 122825.	9.6	94
13	Characterization and application of endogenous phase-dependent promoters in Bacillus subtilis. Applied Microbiology and Biotechnology, 2017, 101, 4151-4161.	3.6	92
14	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
15	Microbial Chassis Development for Natural Product Biosynthesis. Trends in Biotechnology, 2020, 38, 779-796.	9.3	84
16	Optimization of the heme biosynthesis pathway for the production of 5-aminolevulinic acid in Escherichia coli. Scientific Reports, 2015, 5, 8584.	3.3	83
17	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
18	Synthetic Biology Toolbox and Chassis Development in Bacillus subtilis. Trends in Biotechnology, 2019, 37, 548-562.	9.3	81

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19	Coupling feedback genetic circuits with growth phenotype for dynamic population control and intelligent bioproduction. Metabolic Engineering, 2019, 54, 109-116.	7.0	79
20	Modular Optimization of Heterologous Pathways for De Novo Synthesis of (2S)-Naringenin in Escherichia coli. PLoS ONE, 2014, 9, e101492.	2.5	78
21	Efficient biosynthesis of polysaccharides chondroitin and heparosan by metabolically engineered Bacillus subtilis. Carbohydrate Polymers, 2016, 140, 424-432.	10.2	78
22	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
23	Pathway engineering of Bacillus subtilis for microbial production of N-acetylglucosamine. Metabolic Engineering, 2013, 19, 107-115.	7.0	76
24	Obtaining a Panel of Cascade Promoter-5â€²-UTR Complexes in <i>Escherichia coli</i>. ACS Synthetic Biology, 2017, 6, 1065-1075.	3.8	74
25	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
26	Metabolic engineering of Bacillus subtilis fueled by systems biology: Recent advances and future directions. Biotechnology Advances, 2017, 35, 20-30.	11.7	74
27	Keratinolytic protease: a green biocatalyst for leather industry. Applied Microbiology and Biotechnology, 2017, 101, 7771-7779.	3.6	72
28	Piggery wastewater treatment by aerobic granular sludge: Granulation process and antibiotics and antibiotic-resistant bacteria removal and transport. Bioresource Technology, 2019, 273, 350-357.	9.6	69
29	Stepwise metabolic engineering of Gluconobacter oxydans WSH-003 for the direct production of 2-keto-l-gulonic acid from d-sorbitol. Metabolic Engineering, 2014, 24, 30-37.	7.0	68
30	Fine-Tuning of the Fatty Acid Pathway by Synthetic Antisense RNA for Enhanced (2 <i>S</i>)-Naringenin Production from <scp>l</scp> -Tyrosine in Escherichia coli. Applied and Environmental Microbiology, 2014, 80, 7283-7292.	3.1	67
31	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
32	Recent advances in discovery, heterologous expression, and molecular engineering of cyclodextrin glycosyltransferase for versatile applications. Biotechnology Advances, 2014, 32, 415-428.	11.7	64
33	Enhanced extracellular production of L-asparaginase from Bacillus subtilis 168 by B. subtilis WB600 through a combined strategy. Applied Microbiology and Biotechnology, 2017, 101, 1509-1520.	3.6	64
34	Developing Aspergillus niger as a cell factory for food enzyme production. Biotechnology Advances, 2020, 44, 107630.	11.7	64
35	Effective biodegradation of chicken feather waste by co-cultivation of keratinase producing strains. Microbial Cell Factories, 2019, 18, 84.	4.0	63
36	Biotechnological production of alpha-keto acids: Current status and perspectives. Bioresource Technology, 2016, 219, 716-724.	9.6	62

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37	Rational Design to Improve Protein Thermostability: Recent Advances and Prospects. ChemBioEng Reviews, 2015, 2, 87-94.	4.4	59
38	Metabolic engineering of Escherichia coli BL21 (DE3) for de novo production of l-DOPA from d-glucose. Microbial Cell Factories, 2019, 18, 74.	4.0	59
39	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
40	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
41	Protein and metabolic engineering for the production of organic acids. Bioresource Technology, 2017, 239, 412-421.	9.6	57
42	Combining genetically-encoded biosensors with high throughput strain screening to maximize erythritol production in Yarrowia lipolytica. Metabolic Engineering, 2020, 60, 66-76.	7.0	57
43	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
44	Enhancement of Î±-ketoglutarate production in Torulopsis glabrata: Redistribution of carbon flux from pyruvate to Î±-ketoglutarate. Biotechnology and Bioprocess Engineering, 2009, 14, 134-139.	2.6	53
45	Novel fermentation processes for manufacturing plant natural products. Current Opinion in Biotechnology, 2014, 25, 17-23.	6.6	52
46	High-level extracellular production of alkaline polygalacturonate lyase in Bacillus subtilis with optimized regulatory elements. Bioresource Technology, 2013, 146, 543-548.	9.6	51
47	Evolutionary engineering of industrial microorganisms-strategies and applications. Applied Microbiology and Biotechnology, 2018, 102, 4615-4627.	3.6	51
48	Engineering of multiple modular pathways for high-yield production of 5-aminolevulinic acid in Escherichia coli. Bioresource Technology, 2019, 274, 353-360.	9.6	51
49	Eliminating the capsule-like layer to promote glucose uptake for hyaluronan production by engineered Corynebacterium glutamicum. Nature Communications, 2020, 11, 3120.	12.8	51
50	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
51	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
52	High-yield novel leech hyaluronidase to expedite the preparation of specific hyaluronan oligomers. Scientific Reports, 2014, 4, 4471.	3.3	49
53	Current challenges facing one-step production of l-ascorbic acid. Biotechnology Advances, 2018, 36, 1882-1899.	11.7	49
54	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

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55	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
56	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
57	Microbial production of sialic acid and sialylated human milk oligosaccharides: Advances and perspectives. Biotechnology Advances, 2019, 37, 787-800.	11.7	48
58	Bio-Based Strategies for Producing Glycosaminoglycans and Their Oligosaccharides. Trends in Biotechnology, 2018, 36, 806-818.	9.3	47
59	Keratin Waste Recycling Based on Microbial Degradation: Mechanisms and Prospects. ACS Sustainable Chemistry and Engineering, 2019, 7, 9727-9736.	6.7	47
60	Recent advances in production of 5-aminolevulinic acid using biological strategies. World Journal of Microbiology and Biotechnology, 2017, 33, 200.	3.6	46
61	Construction and Characterization of Broad-Spectrum Promoters for Synthetic Biology. ACS Synthetic Biology, 2018, 7, 287-291.	3.8	46
62	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
63	A dynamic pathway analysis approach reveals a limiting futile cycle in N-acetylglucosamine overproducing Bacillus subtilis. Nature Communications, 2016, 7, 11933.	12.8	45
64	Significantly improving the yield of recombinant proteins in Bacillus subtilis by a novel powerful mutagenesis tool (ARTP): Alkaline Î±-amylase as a case study. Protein Expression and Purification, 2015, 114, 82-88.	1.3	44
65	Enhancement of the catalytic efficiency and thermostability of <scp><i>S</i></scp><i>tenotrophomonas</i> sp. keratinase <scp>KerSMD</scp> by domain exchange with <scp>KerSMF</scp>. Microbial Biotechnology, 2016, 9, 35-46.	4.2	44
66	Metabolic engineering of carbon overflow metabolism of Bacillus subtilis for improved N-acetyl-glucosamine production. Bioresource Technology, 2018, 250, 642-649.	9.6	44
67	Application of response surface methodology in medium optimization for spore production of Coniothyrium minitans in solid-state fermentation. World Journal of Microbiology and Biotechnology, 2005, 21, 593-599.	3.6	43
68	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
69	Synergistic improvement of N-acetylglucosamine production by engineering transcription factors and balancing redox cofactors. Metabolic Engineering, 2021, 67, 330-346.	7.0	43
70	Comparative genomics and transcriptome analysis of Aspergillus niger and metabolic engineering for citrate production. Scientific Reports, 2017, 7, 41040.	3.3	43
71	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
72	Spatial organization of silybin biosynthesis in milk thistle [<i>Silybum marianum</i> (L.) Gaertn]. Plant Journal, 2017, 92, 995-1004.	5.7	41

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73	Characterization of a Lactobacillus brevis strain with potential oral probiotic properties. BMC Microbiology, 2018, 18, 221.	3.3	41
74	Biotransformation of keratin waste to amino acids and active peptides based on cell-free catalysis. Biotechnology for Biofuels, 2020, 13, 61.	6.2	41
75	Isolation and Culture Characterization of a New Polyvinyl Alcohol-Degrading Strain: Penicillium sp. WSH02-21. World Journal of Microbiology and Biotechnology, 2004, 20, 587-591.	3.6	40
76	Production of glucaric acid from myo-inositol in engineered Pichia pastoris. Enzyme and Microbial Technology, 2016, 91, 8-16.	3.2	40
77	5-Aminolevulinic acid production from inexpensive glucose by engineering the C4 pathway in <i>Escherichia coli</i>. Journal of Industrial Microbiology and Biotechnology, 2017, 44, 1127-1135.	3.0	40
78	Bioprocessing technology of muscle stem cells: implications for cultured meat. Trends in Biotechnology, 2022, 40, 721-734.	9.3	40
79	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
80	Systems metabolic engineering of microorganisms to achieve large-scale production of flavonoid scaffolds. Journal of Biotechnology, 2014, 188, 72-80.	3.8	39
81	Enhanced acid-stress tolerance in Lactococcus lactis NZ9000 by overexpression of ABC transporters. Microbial Cell Factories, 2019, 18, 136.	4.0	39
82	Molecular engineering of chitinase from Bacillus sp. DAU101 for enzymatic production of chitooligosaccharides. Enzyme and Microbial Technology, 2019, 124, 54-62.	3.2	39
83	Enhanced production of L-sorbose from D-sorbitol by improving the mRNA abundance of sorbitol dehydrogenase in Gluconobacter oxydansWSH-003. Microbial Cell Factories, 2014, 13, 146.	4.0	38
84	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
85	Reactivation and pilot-scale application of long-term storage denitrification biofilm based on flow cytometry. Water Research, 2019, 148, 368-377.	11.3	38
86	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
87	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
88	High-yield secretory production of stable, active trypsin through engineering of the N-terminal peptide and self-degradation sites in Pichia pastoris. Bioresource Technology, 2018, 247, 81-87.	9.6	37
89	Improving the active expression of transglutaminase in Streptomyces lividans by promoter engineering and codon optimization. BMC Biotechnology, 2016, 16, 75.	3.3	36
90	Combinatorial Evolution of Enzymes and Synthetic Pathways Using One-Step PCR. ACS Synthetic Biology, 2016, 5, 259-268.	3.8	36

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91	Recent advances of molecular toolbox construction expand Pichia pastoris in synthetic biology applications. World Journal of Microbiology and Biotechnology, 2017, 33, 19.	3.6	36
92	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
93	Recent Advances in the Microbial Synthesis of Hemoglobin. Trends in Biotechnology, 2021, 39, 286-297.	9.3	36
94	Biosynthesis of non-animal chondroitin sulfate from methanol using genetically engineered <i>Pichia pastoris</i>. Green Chemistry, 2021, 23, 4365-4374.	9.0	36
95	De novo biosynthesis of rubusoside and rebaudiosides in engineered yeasts. Nature Communications, 2022, 13, .	12.8	36
96	Enhanced thermal stability and specific activity of Pseudomonas aeruginosa lipoxygenase by fusing with self-assembling amphipathic peptides. Applied Microbiology and Biotechnology, 2013, 97, 9419-9427.	3.6	35
97	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
98	Adaptive Evolution Relieves Nitrogen Catabolite Repression and Decreases Urea Accumulation in Cultures of the Chinese Rice Wine Yeast Strain <i>Saccharomyces cerevisiae</i> XZ-11. Journal of Agricultural and Food Chemistry, 2018, 66, 9061-9069.	5.2	35
99	Refactoring transcription factors for metabolic engineering. Biotechnology Advances, 2022, 57, 107935.	11.7	35
100	Construction of a novel, stable, food-grade expression system by engineering the endogenous toxin-antitoxin system in Bacillus subtilis. Journal of Biotechnology, 2016, 219, 40-47.	3.8	34
101	Effects of biosurfactants produced by Candida antarctica on the biodegradation of petroleum compounds. World Journal of Microbiology and Biotechnology, 2004, 20, 25-29.	3.6	33
102	A microbialâ€“enzymatic strategy for producing chondroitin sulfate glycosaminoglycans. Biotechnology and Bioengineering, 2018, 115, 1561-1570.	3.3	33
103	Titrating bacterial growth and chemical biosynthesis for efficient N-acetylglucosamine and N-acetylneuraminic acid bioproduction. Nature Communications, 2020, 11, 5078.	12.8	33
104	Analysis of the chemical composition of cotton seed coat by Fourier-transform infrared (FT-IR) microspectroscopy. Cellulose, 2009, 16, 1099-1107.	4.9	32
105	Identification of membrane proteins associated with phenylpropanoid tolerance and transport in Escherichia coli BL21. Journal of Proteomics, 2015, 113, 15-28.	2.4	32
106	Combinatorial promoter engineering of glucokinase and phosphoglucoisomerase for improved N-acetylglucosamine production in Bacillus subtilis. Bioresource Technology, 2017, 245, 1093-1102.	9.6	32
107	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
108	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

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109	Enzymatic production of specifically distributed hyaluronan oligosaccharides. Carbohydrate Polymers, 2015, 129, 194-200.	10.2	31
110	The application of powerful promoters to enhance gene expression in industrial microorganisms. World Journal of Microbiology and Biotechnology, 2017, 33, 23.	3.6	31
111	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
112	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
113	Efficient bioconversion of epimedin C to icariin by a glycosidase from Aspergillus nidulans. Bioresource Technology, 2019, 289, 121612.	9.6	30
114	Efficient heterologous expression of cytochrome P450 enzymes in microorganisms for the biosynthesis of natural products. Critical Reviews in Biotechnology, 2023, 43, 227-241.	9.0	30
115	Comparative metabolomics analysis of the key metabolic nodes in propionic acid synthesis in Propionibacterium acidipropionici. Metabolomics, 2015, 11, 1106-1116.	3.0	29
116	Characterization of mutants of a tyrosine ammonia-lyase from Rhodotorula glutinis. Applied Microbiology and Biotechnology, 2016, 100, 10443-10452.	3.6	29
117	Recent advances in enhanced enzyme activity, thermostability and secretion by N-glycosylation regulation in yeast. Biotechnology Letters, 2018, 40, 847-854.	2.2	29
118	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
119	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
120	Cell Membrane and Electron Transfer Engineering for Improved Synthesis of Menaquinone-7 in Bacillus subtilis. IScience, 2020, 23, 100918.	4.1	29
121	Identification and application of keto acids transporters in Yarrowia lipolytica. Scientific Reports, 2015, 5, 8138.	3.3	28
122	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
123	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
124	Comparative proteomic analysis of Saccharomyces cerevisiae under different nitrogen sources. Journal of Proteomics, 2014, 101, 102-112.	2.4	27
125	Insight into the substrate specificity of keratinase KerSMD from Stenotrophomonas maltophilia by site-directed mutagenesis studies in the S1 pocket. RSC Advances, 2015, 5, 74953-74960.	3.6	27
126	Multivariate modular engineering of the protein secretory pathway for production of heterologous glucose oxidase in Pichia pastoris. Enzyme and Microbial Technology, 2015, 68, 33-42.	3.2	27

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127	A high-throughput screening procedure for enhancing pyruvate production in Candida glabrata by random mutagenesis. Bioprocess and Biosystems Engineering, 2017, 40, 693-701.	3.4	27
128	Stress tolerance phenotype of industrial yeast: industrial cases, cellular changes, and improvement strategies. Applied Microbiology and Biotechnology, 2019, 103, 6449-6462.	3.6	27
129	Design and construction of novel biocatalyst for bioprocessing: Recent advances and future outlook. Bioresource Technology, 2021, 332, 125071.	9.6	27
130	Growth-coupled evolution and high-throughput screening assisted rapid enhancement for amylase-producing Bacillus licheniformis. Bioresource Technology, 2021, 337, 125467.	9.6	27
131	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
132	DATEL: A Scarless and Sequence-Independent DNA Assembly Method Using Thermostable Exonucleases and Ligase. ACS Synthetic Biology, 2016, 5, 1028-1032.	3.8	26
133	Enhancing subtilisin thermostability through a modified normalized B-factor analysis and loop-grafting strategy. Journal of Biological Chemistry, 2019, 294, 18398-18407.	3.4	26
134	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
135	Efficient production of l-sorbose from d-sorbitol by whole cell immobilization of Gluconobacter oxydans WSH-003. Biochemical Engineering Journal, 2013, 77, 171-176.	3.6	25
136	Improved catalytic efficiency, thermophilicity, anti-salt and detergent tolerance of keratinase KerSMD by partially truncation of PPC domain. Scientific Reports, 2016, 6, 27953.	3.3	25
137	Metabolic engineering for the production of fat-soluble vitamins: advances and perspectives. Applied Microbiology and Biotechnology, 2020, 104, 935-951.	3.6	25
138	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
139	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
140	Pathway engineering of Propionibacterium jensenii for improved production of propionic acid. Scientific Reports, 2016, 6, 19963.	3.3	24
141	Engineering enzymatic cascades for the efficient biotransformation of eugenol and taxifolin to silybin and isosilybin. Green Chemistry, 2019, 21, 1660-1667.	9.0	24
142	Metabolic engineering of Escherichia coli for the production of Lacto-N-neotetraose (LNnT). Systems Microbiology and Biomanufacturing, 2021, 1, 291-301.	2.9	24
143	The microbiome of Chinese rice wine (Huangjiu). Current Research in Food Science, 2022, 5, 325-335.	5.8	24
144	A multifunctional tag with the ability to benefit the expression, purification, thermostability and activity of recombinant proteins. Journal of Biotechnology, 2018, 283, 1-10.	3.8	23

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145	Characteristic and correlation analysis of influent and energy consumption of wastewater treatment plants in Taihu Basin. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	6.0	23
146	Rapid evolution of hyaluronan synthase to improve hyaluronan production and molecular mass in Bacillus subtilis. Biotechnology Letters, 2016, 38, 2103-2108.	2.2	22
147	A Bacillus paralicheniformis Iron-Containing Urease Reduces Urea Concentrations in Rice Wine. Applied and Environmental Microbiology, 2017, 83, .	3.1	22
148	Enhanced pyruvate production in <i>Candida glabrata</i> by carrier engineering. Biotechnology and Bioengineering, 2018, 115, 473-482.	3.3	22
149	Efficient biosynthesis of 2-keto-D-gluconic acid by fed-batch culture of metabolically engineered Gluconobacter japonicus. Synthetic and Systems Biotechnology, 2019, 4, 134-141.	3.7	22
150	Synthesis of bioengineered heparin by recombinant yeast <i>Pichia pastoris</i>. Green Chemistry, 2022, 24, 3180-3192.	9.0	22
151	Overproduction of pro-transglutaminase from Streptomyces hygroscopicus in Yarrowia lipolytica and its biochemical characterization. BMC Biotechnology, 2015, 15, 75.	3.3	21
152	The fungal laccaseâ€catalyzed oxidation of <scp>EGCG</scp> and the characterization of its products. Journal of the Science of Food and Agriculture, 2015, 95, 2686-2692.	3.5	21
153	Characterization of a Bacillus amyloliquefaciens strain for reduction of citrulline accumulation during soy sauce fermentation. Biotechnology Letters, 2016, 38, 1723-1731.	2.2	21
154	Bile salt tolerance of Lactococcus lactis is enhanced by expression of bile salt hydrolase thereby producing less bile acid in the cells. Biotechnology Letters, 2016, 38, 659-665.	2.2	21
155	Systemic understanding of Lactococcus lactis response to acid stress using transcriptomics approaches. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1621-1629.	3.0	21
156	Secretory Expression Fine-Tuning and Directed Evolution of Diacetylchitobiose Deacetylase by Bacillus subtilis. Applied and Environmental Microbiology, 2019, 85, .	3.1	21
157	Synthetic metabolic channel by functional membrane microdomains for compartmentalized flux control. Metabolic Engineering, 2020, 59, 106-118.	7.0	21
158	Preparation and characterization of hyaluronan/chitosan scaffold cross- linked by 1-ethyl-3-(3-dimethylaminopropyl) carbodiimide. Polymer International, 2007, 56, 738-745.	3.1	20
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