

Jidong Liu

List of Publications by Year in descending order

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91
papers

2,698
citations

186265

28
h-index

214800

47
g-index

92
all docs

92
docs citations

92
times ranked

2150
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolic engineering of <i>Escherichia coli</i> for (2S)-pinocembrin production from glucose by a modular metabolic strategy. <i>Metabolic Engineering</i> , 2013, 16, 48-55.	7.0	193
2	Microbial synthesis of poly- β -glutamic acid: current progress, challenges, and future perspectives. <i>Biotechnology for Biofuels</i> , 2016, 9, 134.	6.2	186
3	Metabolic engineering of <i>Escherichia coli</i> for producing adipic acid through the reverse adipate-degradation pathway. <i>Metabolic Engineering</i> , 2018, 47, 254-262.	7.0	105
4	Efficient Synthesis of Eriodictyol from β -Tyrosine in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 3072-3080.	3.1	87
5	The industrial applications of cassava: current status, opportunities and prospects. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 2282-2290.	3.5	87
6	Overproduction of geraniol by enhanced precursor supply in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2013, 168, 446-451.	3.8	78
7	Modular Optimization of Heterologous Pathways for De Novo Synthesis of (2S)-Naringenin in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e101492.	2.5	78
8	Optimization of fumaric acid production by <i>Rhizopus delemar</i> based on the morphology formation. <i>Bioresource Technology</i> , 2011, 102, 9345-9349.	9.6	75
9	Enhanced α -ketoglutaric acid production in <i>Yarrowia lipolytica</i> WSH-Z06 by regulation of the pyruvate carboxylation pathway. <i>Applied Microbiology and Biotechnology</i> , 2012, 96, 1527-1537.	3.6	70
10	Stepwise metabolic engineering of <i>Gluconobacter oxydans</i> WSH-003 for the direct production of 2-keto-l-gulononic acid from d-sorbitol. <i>Metabolic Engineering</i> , 2014, 24, 30-37.	7.0	68
11	Screening of a thiamine-auxotrophic yeast for β -ketoglutaric acid overproduction. <i>Letters in Applied Microbiology</i> , 2010, 51, 264-271.	2.2	67
12	Enhanced β -ketoglutaric acid production in <i>Yarrowia lipolytica</i> WSH-Z06 by an improved integrated fed-batch strategy. <i>Bioresource Technology</i> , 2012, 114, 597-602.	9.6	61
13	Metabolic engineering of <i>Escherichia coli</i> BL21 (DE3) for de novo production of l-DOPA from d-glucose. <i>Microbial Cell Factories</i> , 2019, 18, 74.	4.0	59
14	Development of chemically defined media supporting high cell density growth of <i>Ketogulonigenium vulgare</i> and <i>Bacillus megaterium</i> . <i>Bioresource Technology</i> , 2011, 102, 4807-4814.	9.6	58
15	Novel fermentation processes for manufacturing plant natural products. <i>Current Opinion in Biotechnology</i> , 2014, 25, 17-23.	6.6	52
16	Current challenges facing one-step production of l-ascorbic acid. <i>Biotechnology Advances</i> , 2018, 36, 1882-1899.	11.7	49
17	Effects of pyruvate dehydrogenase subunits overexpression on the β -ketoglutarate production in <i>Yarrowia lipolytica</i> WSH-Z06. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 7003-7012.	3.6	43
18	Efficient biosynthesis of (2S)-pinocembrin from d-glucose by integrating engineering central metabolic pathways with a pH-shift control strategy. <i>Bioresource Technology</i> , 2016, 218, 999-1007.	9.6	43

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19	Effects of metabolic pathway gene copy numbers on the biosynthesis of (2S)-naringenin in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biotechnology</i> , 2021, 325, 119-127.	3.8	41
20	Systems metabolic engineering of microorganisms to achieve large-scale production of flavonoid scaffolds. <i>Journal of Biotechnology</i> , 2014, 188, 72-80.	3.8	39
21	Enhanced production of L-sorbose from D-sorbitol by improving the mRNA abundance of sorbitol dehydrogenase in <i>Gluconobacter oxydans</i> WSH-003. <i>Microbial Cell Factories</i> , 2014, 13, 146.	4.0	38
22	Biosynthesis of keto acids by fed-batch culture of <i>Yarrowia lipolytica</i> WSH-Z06. <i>Bioresource Technology</i> , 2017, 243, 1037-1043.	9.6	38
23	Sporulation and spore stability of <i>Bacillus megaterium</i> enhance <i>Ketogulonigenium vulgare</i> propagation and 2-keto-l-gulonic acid biosynthesis. <i>Bioresource Technology</i> , 2012, 107, 399-404.	9.6	37
24	Complete Genome Sequence of the Industrial Strain <i>Ketogulonigenium vulgare</i> WSH-001. <i>Journal of Bacteriology</i> , 2011, 193, 6108-6109.	2.2	36
25	A reusable method for construction of non-marker large fragment deletion yeast auxotroph strains: A practice in <i>Torulopsis glabrata</i> . <i>Journal of Microbiological Methods</i> , 2009, 76, 70-74.	1.6	35
26	Metabolism and strategies for enhanced supply of acetyl-CoA in <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2021, 342, 125978.	9.6	35
27	Draft Genome Sequence of <i>Gluconobacter oxydans</i> WSH-003, a Strain That Is Extremely Tolerant of Saccharides and Alditols. <i>Journal of Bacteriology</i> , 2012, 194, 4455-4456.	2.2	31
28	Enhancement of pyruvate productivity by inducible expression of a FOF1-ATPase inhibitor INH1 in <i>Torulopsis glabrata</i> CCTCC M202019. <i>Journal of Biotechnology</i> , 2009, 144, 120-126.	3.8	30
29	Stepwise modular pathway engineering of <i>Escherichia coli</i> for efficient one-step production of (2S)-pinocembrin. <i>Journal of Biotechnology</i> , 2016, 231, 183-192.	3.8	30
30	Efficient bioconversion of epimedine C to icariin by a glycosidase from <i>Aspergillus nidulans</i> . <i>Bioresource Technology</i> , 2019, 289, 121612.	9.6	30
31	Comparative analysis of the chemical and biochemical synthesis of keto acids. <i>Biotechnology Advances</i> , 2021, 47, 107706.	11.7	29
32	Dehydrogenases of acetic acid bacteria. <i>Biotechnology Advances</i> , 2022, 54, 107863.	11.7	29
33	Systematically Engineered Fatty Acid Catabolite Pathway for the Production of (2 <i>S</i>)-Naringenin in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 1166-1175.	3.8	28
34	Comparative proteomic analysis of <i>Saccharomyces cerevisiae</i> under different nitrogen sources. <i>Journal of Proteomics</i> , 2014, 101, 102-112.	2.4	27
35	Enhanced production of <i>D</i> -sorbose in an industrial <i>Gluconobacter oxydans</i> strain by identification of a strong promoter based on proteomics analysis. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 1039-1047.	3.0	27
36	A high-throughput screening procedure for enhancing pyruvate production in <i>Candida glabrata</i> by random mutagenesis. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 693-701.	3.4	27

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37	Enhanced Pyruvate Production in <i>Candida glabrata</i> by Engineering ATP Futile Cycle System. ACS Synthetic Biology, 2019, 8, 787-795.	3.8	26
38	Efficient production of l-sorbose from d-sorbitol by whole cell immobilization of <i>Gluconobacter oxydans</i> WSH-003. Biochemical Engineering Journal, 2013, 77, 171-176.	3.6	25
39	Overexpression of pyrroloquinoline quinone biosynthetic genes affects l-sorbose production in <i>Gluconobacter oxydans</i> WSH-003. Biochemical Engineering Journal, 2016, 112, 70-77.	3.6	24
40	Construction of a heat-inducible <i>Escherichia coli</i> strain for efficient de novo biosynthesis of l-tyrosine. Process Biochemistry, 2020, 92, 85-92.	3.7	23
41	Characterization of a group of pyrroloquinoline quinone-dependent dehydrogenases that are involved in the conversion of l-sorbose to 2-keto-gulonic acid in <i>Ketogulonicigenium vulgare</i> WSH001. Biotechnology Progress, 2013, 29, 1398-1404.	2.6	22
42	Enhanced pyruvate production in <i>Candida glabrata</i> by carrier engineering. Biotechnology and Bioengineering, 2018, 115, 473-482.	3.3	22
43	Efficient biosynthesis of 2-keto-D-gluconic acid by fed-batch culture of metabolically engineered <i>Gluconobacter japonicus</i> . Synthetic and Systems Biotechnology, 2019, 4, 134-141.	3.7	22
44	Insights into the multiscale structure and pasting properties of ball-milled waxy maize and waxy rice starches. International Journal of Biological Macromolecules, 2021, 168, 205-214.	7.5	22
45	Efficient Production of Orientin and Vitexin from Luteolin and Apigenin Using Coupled Catalysis of Glycosyltransferase and Sucrose Synthase. Journal of Agricultural and Food Chemistry, 2021, 69, 6578-6587.	5.2	21
46	Enhancement of 2-phenylethanol production by a wild-type <i>Wickerhamomyces anomalus</i> strain isolated from rice wine. Bioresource Technology, 2020, 318, 124257.	9.6	20
47	Obtaining a series of native gradient promoter-5'UTR sequences in <i>Corynebacterium glutamicum</i> ATCC 13032. Microbial Cell Factories, 2020, 19, 120.	4.0	19
48	Identification of transporter proteins for PQQ-secretion pathways by transcriptomics and proteomics analysis in <i>Gluconobacter oxydans</i> WSH-003. Frontiers of Chemical Science and Engineering, 2017, 11, 72-88.	4.4	18
49	Enhancing scleroglucan production by <i>Sclerotium rolfsii</i> WSH-G01 through a pH-shift strategy based on kinetic analysis. Bioresource Technology, 2019, 293, 122098.	9.6	18
50	Enhancement of pyruvic acid production in <i>Candida glabrata</i> by engineering hypoxia-inducible factor 1. Bioresource Technology, 2020, 295, 122248.	9.6	18
51	Production of 2-keto-L-gulonic acid by metabolically engineered <i>Escherichia coli</i> . Bioresource Technology, 2020, 318, 124069.	9.6	18
52	Efficient production of L-homoserine in <i>Corynebacterium glutamicum</i> ATCC 13032 by redistribution of metabolic flux. Biochemical Engineering Journal, 2020, 161, 107665.	3.6	18
53	Efficient separation of L-ketoglutarate from <i>Yarrowia lipolytica</i> WSH-Z06 culture broth by converting pyruvate to l-tyrosine. Bioresource Technology, 2019, 292, 121897.	9.6	17
54	Production of L-Cyclodextrin Glycosyltransferase in <i>Bacillus megaterium</i> MS941 by Systematic Codon Usage Optimization. Journal of Agricultural and Food Chemistry, 2012, 60, 10285-10292.	5.2	16

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55	Enhanced Thermostability of D-Psicose 3-Epimerase from <i>Clostridium bolteae</i> through Rational Design and Engineering of New Disulfide Bridges. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10007.	4.1	16
56	Glycosylation Modification Enhances (2 <i>S</i>)-Naringenin Production in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2022, 11, 2339-2347.	3.8	16
57	Identification and characterization of three flavonoid 3-O-glycosyltransferases from <i>Epimedium koreanum</i> Nakai. <i>Biochemical Engineering Journal</i> , 2020, 163, 107759.	3.6	15
58	Systematic characterization of sorbose/sorbosone dehydrogenases and sorbosone dehydrogenases from <i>Ketogulonicigenium vulgare</i> WSH-001. <i>Journal of Biotechnology</i> , 2019, 301, 24-34.	3.8	14
59	Identification of a polysaccharide produced by the pyruvate overproducer <i>Candida glabrata</i> CCTCC M202019. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4447-4458.	3.6	12
60	Identification of Gradient Promoters of <i>Gluconobacter oxydans</i> and Their Applications in the Biosynthesis of 2-Keto-L-Gulonic Acid. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 673844.	4.1	12
61	Production of L-tyrosine using tyrosine phenol-lyase by whole cell biotransformation approach. <i>Enzyme and Microbial Technology</i> , 2019, 131, 109430.	3.2	11
62	Oxidized konjac glucomannan-cassava starch and sucrose esters as novel excipients for sustained-release matrix tablets. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 1045-1052.	7.5	11
63	Expression of d-psicose-3-epimerase from <i>Clostridium bolteae</i> and <i>Dorea</i> sp. and whole-cell production of d-psicose in <i>Bacillus subtilis</i> . <i>Annals of Microbiology</i> , 2020, 70, .	2.6	11
64	Optimization of CRISPR-Cas9 through promoter replacement and efficient production of L-homoserine in <i>Corynebacterium glutamicum</i> . <i>Biotechnology Journal</i> , 2021, 16, e2100093.	3.5	11
65	High Throughput Screening Platform for a FAD-Dependent L-Sorbose Dehydrogenase. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 194.	4.1	10
66	Optimum chalcone synthase for flavonoid biosynthesis in microorganisms. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 1194-1208.	9.0	10
67	Efficient transformation of <i>Rhizopus delemar</i> by electroporation of germinated spores. <i>Journal of Microbiological Methods</i> , 2014, 103, 58-63.	1.6	9
68	Improved Dextranase Production by <i>Chaetomium gracile</i> Through Optimization of Carbon Source and Fermentation Parameters. <i>Sugar Tech</i> , 2017, 19, 432-437.	1.8	9
69	Food-Grade Expression and Characterization of a Dextranase from <i>Chaetomium gracile</i> Suitable for Sugarcane Juice Clarification. <i>Chemistry and Biodiversity</i> , 2021, 18, e2000797.	2.1	9
70	Efficient biosynthesis of D-allulose in <i>Bacillus subtilis</i> through D-psicose 3-epimerase translation modification. <i>International Journal of Biological Macromolecules</i> , 2021, 187, 1-8.	7.5	9
71	Combined evolutionary and metabolic engineering improve 2-keto-L-gulonic acid production in <i>Gluconobacter oxydans</i> WSH-004. <i>Bioresource Technology</i> , 2022, 354, 127107.	9.6	8
72	Enhanced production of l-sorbose by systematic engineering of dehydrogenases in <i>Gluconobacter oxydans</i> . <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 730-737.	3.7	8

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73	Enhancement of Catalytic Performance of α -dextranase from <i>Chaetomium gracile</i> Through Optimization and Suitable Shear Force. <i>Sugar Tech</i> , 2018, 20, 78-87.	1.8	7
74	Improving bioconversion of eugenol to coniferyl alcohol by constitutive promoters in <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2021, 168, 107953.	3.6	7
75	Indigenous plasmids of <i>Bacillus megaterium</i> WSH-002 involved in mutualism with <i>Ketogulonigenium vulgare</i> WSH-001. <i>Plasmid</i> , 2013, 70, 240-246.	1.4	6
76	Separation and purification of α -ketoglutarate and pyruvate from the fermentation broth of <i>Yarrowia lipolytica</i> . <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 1519-1527.	3.4	6
77	Active tyrosine phenol-lyase aggregates induced by terminally attached functional peptides in <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020, 47, 563-571.	3.0	6
78	Regulating the biosynthesis of pyridoxal 5'-phosphate with riboswitch to enhance L-DOPA production by <i>Escherichia coli</i> whole-cell biotransformation. <i>Journal of Biotechnology</i> , 2020, 321, 68-77.	3.8	6
79	Chaperone-mediated protein folding enhanced D-psicose 3-epimerase expression in engineered <i>Bacillus subtilis</i> . <i>Process Biochemistry</i> , 2021, 103, 65-70.	3.7	5
80	Efficient Production of Scleroglucan by <i>Sclerotium rolfsii</i> and Insights Into Molecular Weight Modification by High-Pressure Homogenization. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 748213.	4.1	5
81	Characterization of a sorbose oxidase involved in the biosynthesis of 2-keto-L-gulononic acid from <i>Gluconobacter oxydans</i> WSH-004. <i>Process Biochemistry</i> , 2022, 116, 1-7.	3.7	5
82	Separation of α -ketoglutaric acid and pyruvic acid from the culture broth of <i>Yarrowia lipolytica</i> WSH-006 by chromatographic methods. <i>Biotechnology Progress</i> , 2018, 34, 1370-1379.	2.6	4
83	Optimal Fermentation of <i>Saccharomyces cerevisiae</i> Expressing a Dextranase from <i>Chaetomium gracile</i> . <i>Sugar Tech</i> , 2020, 22, 171-178.	1.8	4
84	Site-directed mutagenesis to improve the thermostability of tyrosine phenol-lyase. <i>Journal of Biotechnology</i> , 2020, 310, 6-12.	3.8	4
85	Production of L-Lactic Acid in <i>Saccharomyces cerevisiae</i> Through Metabolic Engineering and Rational Cofactor Engineering. <i>Sugar Tech</i> , 2022, 24, 1272-1283.	1.8	4
86	Enhanced cobalamin biosynthesis in <i>Ensifer adhaerens</i> by regulation of key genes with gradient promoters. <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 941-948.	3.7	4
87	Reconstruction of a Cofactor Self-Sufficient Whole-Cell Biocatalyst System for Efficient Biosynthesis of Allitol from <i>D</i> -Glucose. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 3775-3784.	5.2	3
88	Efficient Production of 2,5-Diketo-D-gluconic Acid by Reducing Browning Levels During <i>Gluconobacter oxydans</i> ATCC 9937 Fermentation. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	4.1	2
89	Engineering caveolin-mediated endocytosis in <i>Saccharomyces cerevisiae</i> . <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 1056-1063.	3.7	2
90	Citrate protect the growth of <i>Torulopsis glabrata</i> CCTCC M202019 against acidic stress as additional ATP supplier. <i>Journal of Biotechnology</i> , 2008, 136, S741.	3.8	1

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91	Comparison of LLE and SPME Methods for Screening the Aroma Compounds in Rum. Journal of the American Society of Brewing Chemists, 0, , 1-10.	1.1	1