

Liang Guo

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

776
citations

687363

13
h-index

526287

27
g-index

32
all docs

32
docs citations

32
times ranked

588
citing authors

#	ARTICLE	IF	CITATIONS
1	DCEO Biotechnology: Tools To Design, Construct, Evaluate, and Optimize the Metabolic Pathway for Biosynthesis of Chemicals. <i>Chemical Reviews</i> , 2018, 118, 4-72.	47.7	141
2	Programmable biomolecular switches for rewiring flux in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2019, 10, 3751.	12.8	84
3	Engineering <i>Escherichia coli</i> for malate production by integrating modular pathway characterization with CRISPRi-guided multiplexed metabolic tuning. <i>Biotechnology and Bioengineering</i> , 2018, 115, 661-672.	3.3	77
4	Engineering <i>Escherichia coli</i> lifespan for enhancing chemical production. <i>Nature Catalysis</i> , 2020, 3, 307-318.	34.4	61
5	Engineering synergetic CO ₂ -fixing pathways for malate production. <i>Metabolic Engineering</i> , 2018, 47, 496-504.	7.0	55
6	Light-powered <i>Escherichia coli</i> cell division for chemical production. <i>Nature Communications</i> , 2020, 11, 2262.	12.8	51
7	Improving lysine production through construction of an <i>Escherichia coli</i> enzyme-constrained model. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3533-3544.	3.3	47
8	Enhancement of malate production through engineering of the periplasmic rTCA pathway in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 1571-1580.	3.3	37
9	Rewiring carbon flux in <i>Escherichia coli</i> using a bifunctional molecular switch. <i>Metabolic Engineering</i> , 2020, 61, 47-57.	7.0	34
10	Engineering microbial cell morphology and membrane homeostasis toward industrial applications. <i>Current Opinion in Biotechnology</i> , 2020, 66, 18-26.	6.6	26
11	Dynamic consolidated bioprocessing for direct production of xylonate and shikimate from xylan by <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2020, 60, 128-137.	7.0	20
12	Enhancing biofuels production by engineering the actin cytoskeleton in <i>Saccharomyces cerevisiae</i> . <i>Nature Communications</i> , 2022, 13, 1886.	12.8	20
13	Enhancing tryptophan production by balancing precursors in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2022, 119, 983-993.	3.3	17
14	Synergistic Metabolism of Glucose and Formate Increases the Yield of Short-Chain Organic Acids in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2022, 11, 135-143.	3.8	16
15	Reprogramming microbial populations using a programmed lysis system to improve chemical production. <i>Nature Communications</i> , 2021, 12, 6886.	12.8	13
16	Dynamic regulation of membrane integrity to enhance osmotic stress tolerance in <i>Candida glabrata</i> . <i>Biotechnology and Bioengineering</i> , 2021, 118, 4347-4359.	3.3	10
17	Rational design of a highly efficient catalytic system for the production of PAPS from ATP and its application in the synthesis of chondroitin sulfate. <i>Biotechnology and Bioengineering</i> , 2021, 118, 4503-4515.	3.3	10
18	Bifunctional optogenetic switch for improving shikimic acid production in <i>E. coli</i> . , 2022, 15, 13.		10

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19	Engineering a CRISPRi Circuit for Autonomous Control of Metabolic Flux in <i>Escherichia coli</i> . ACS Synthetic Biology, 2021, 10, 2661-2671.	3.8	9
20	Immobilization of Microbial Consortium for Glutaric Acid Production from Lysine. ChemCatChem, 2021, 13, 5047-5055.	3.7	6
21	Engineering <i>Escherichia coli</i> biofilm to increase contact surface for shikimate and L-malate production. Bioresources and Bioprocessing, 2021, 8, .	4.2	6
22	Enzymatic Production of Ascorbic Acid-2-Phosphate by Engineered <i>Pseudomonas aeruginosa</i> Acid Phosphatase. Journal of Agricultural and Food Chemistry, 2021, 69, 14215-14221.	5.2	5
23	Rational Design of Phospholipase D to Improve the Transphosphatidylation Activity for Phosphatidylserine Synthesis. Journal of Agricultural and Food Chemistry, 2022, 70, 6709-6718.	5.2	5
24	Improving succinate production by engineering oxygen-dependent dynamic pathway regulation in <i>Escherichia coli</i> . Systems Microbiology and Biomanufacturing, 2022, 2, 331-344.	2.9	4
25	Advances in microbial engineering for the production of value-added products in a biorefinery. Systems Microbiology and Biomanufacturing, 2023, 3, 246-261.	2.9	3
26	Advances in microbial production of feed amino acid. Advances in Applied Microbiology, 2022, , 1-33.	2.4	3
27	Dynamic control of the distribution of carbon flux between cell growth and butyrate biosynthesis in <i>Escherichia coli</i> . Applied Microbiology and Biotechnology, 2021, 105, 5173-5187.	3.6	2
28	Engineering membrane asymmetry to increase medium-chain fatty acid tolerance in <i>Saccharomyces cerevisiae</i> . Biotechnology and Bioengineering, 2022, 119, 277-286.	3.3	2
29	Advances in microbial synthesis of bioplastic monomers. Advances in Applied Microbiology, 2022, , .	2.4	0