Liang Guo

List of Publications by Year
in descending order

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	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
2	Engineering membrane asymmetry to increase mediumâ€chain fatty acid tolerance in Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2022, 119, 277-286.	3.3	2
3	Improving succinate production by engineering oxygen-dependent dynamic pathway regulation in Escherichia coli. Systems Microbiology and Biomanufacturing, 2022, 2, 331-344.	2.9	4
4	Synergistic Metabolism of Glucose and Formate Increases the Yield of Short-Chain Organic Acids in Escherichia coli. ACS Synthetic Biology, 2022, 11, 135-143.	3.8	16
5	Bifunctional optogenetic switch for improving shikimic acid production in E. coli. , 2022, 15, 13.		10
6	Enhancing biofuels production by engineering the actin cytoskeleton in Saccharomyces cerevisiae. Nature Communications, 2022, 13, 1886.	12.8	20
7	Enhancing tryptophan production by balancing precursors in Escherichia coli. Biotechnology and Bioengineering, 2022, 119, 983-993.	3.3	17
8	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
9	Advances in microbial production of feed amino acid. Advances in Applied Microbiology, 2022, , 1-33.	2.4	3
10	Advances in microbial synthesis of bioplastic monomers. Advances in Applied Microbiology, 2022, , .	2.4	0
11	Dynamic control of the distribution of carbon flux between cell growth and butyrate biosynthesis in Escherichia coli. Applied Microbiology and Biotechnology, 2021, 105, 5173-5187.	3.6	2
12	Dynamic regulation of membrane integrity to enhance <scp>l</scp>â€malate stress tolerance in Candida glabrata. Biotechnology and Bioengineering, 2021, 118, 4347-4359.	3.3	10
13	Rational design of a highly efficient catalytic system for the production of PAPS from ATP and its application in the synthesis of chondroitin sulfate. Biotechnology and Bioengineering, 2021, 118, 4503-4515.	3.3	10
14	Engineering a CRISPRi Circuit for Autonomous Control of Metabolic Flux in Escherichia coli. ACS Synthetic Biology, 2021, 10, 2661-2671.	3.8	9
15	Immobilization of Microbial Consortium for Glutaric Acid Production from Lysine. ChemCatChem, 2021, 13, 5047-5055.	3.7	6
16	Engineering Escherichia coli biofilm to increase contact surface for shikimate and L-malate production. Bioresources and Bioprocessing, 2021, 8, .	4.2	6
17	Enzymatic Production of Ascorbic Acid-2-Phosphate by Engineered Pseudomonas aeruginosa Acid Phosphatase. Journal of Agricultural and Food Chemistry, 2021, 69, 14215-14221.	5.2	5
18	Reprogramming microbial populations using a programmed lysis system to improve chemical production. Nature Communications, 2021, 12, 6886.	12.8	13

#	Article	IF	Citations
19	Light-powered Escherichia coli cell division for chemical production. Nature Communications, 2020, 11, 2262.	12.8	51
20	Rewiring carbon flux in Escherichia coli using a bifunctional molecular switch. Metabolic Engineering, 2020, 61, 47-57.	7.0	34
21	Engineering microbial cell morphology and membrane homeostasis toward industrial applications. Current Opinion in Biotechnology, 2020, 66, 18-26.	6.6	26
22	Improving lysine production through construction of an Escherichia coli enzymeâ€constrained model. Biotechnology and Bioengineering, 2020, 117, 3533-3544.	3.3	47
23	Engineering Escherichia coli lifespan for enhancing chemical production. Nature Catalysis, 2020, 3, 307-318.	34.4	61
24	Dynamic consolidated bioprocessing for direct production of xylonate and shikimate from xylan by Escherichia coli. Metabolic Engineering, 2020, 60, 128-137.	7.0	20
25	Programmable biomolecular switches for rewiring flux in Escherichia coli. Nature Communications, 2019, 10, 3751.	12.8	84
26	Enhancement of malate production through engineering of the periplasmic rTCA pathway in Escherichia coli. Biotechnology and Bioengineering, 2018, 115, 1571-1580.	3.3	37
27	DCEO Biotechnology: Tools To Design, Construct, Evaluate, and Optimize the Metabolic Pathway for Biosynthesis of Chemicals. Chemical Reviews, 2018, 118, 4-72.	47.7	141
28	Engineering Escherichia coli for malate production by integrating modular pathway characterization with CRISPRiâ€guided multiplexed metabolic tuning. Biotechnology and Bioengineering, 2018, 115, 661-672.	3.3	77
29	Engineering synergetic CO2-fixing pathways for malate production. Metabolic Engineering, 2018, 47, 496-504.	7.0	55