

# Cong Gao

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51  
papers

630  
citations

13  
h-index

24  
g-index

61  
ext. papers

992  
ext. citations

9.3  
avg, IF

4.28  
L-index

#	Paper	IF	Citations
51	DCEO Biotechnology: Tools To Design, Construct, Evaluate, and Optimize the Metabolic Pathway for Biosynthesis of Chemicals. <i>Chemical Reviews</i> , <b>2018</b> , 118, 4-72	68.1	97
50	Engineering Escherichia coli for malate production by integrating modular pathway characterization with CRISPRi-guided multiplexed metabolic tuning. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 661-672	4.9	55
49	Programmable biomolecular switches for rewiring flux in Escherichia coli. <i>Nature Communications</i> , <b>2019</b> , 10, 3751	17.4	46
48	An efficient enzymatic production of N-acetyl-D-glucosamine from crude chitin powders. <i>Green Chemistry</i> , <b>2016</b> , 18, 2147-2154	10	43
47	Reference values for peripheral blood lymphocyte subsets of healthy children in China. <i>Journal of Allergy and Clinical Immunology</i> , <b>2018</b> , 142, 970-973.e8	11.5	42
46	Characterization of extracellular chitinase from Chitinibacter sp. GC72 and its application in GlcNAc production from crayfish shell enzymatic degradation. <i>Biochemical Engineering Journal</i> , <b>2015</b> , 97, 59-64	4.2	37
45	Engineering synergetic CO-fixing pathways for malate production. <i>Metabolic Engineering</i> , <b>2018</b> , 47, 496-504	5.4	32
44	Engineering Escherichia coli lifespan for enhancing chemical production. <i>Nature Catalysis</i> , <b>2020</b> , 3, 307-318	18.5	27
43	Genetic Circuit-Assisted Smart Microbial Engineering. <i>Trends in Microbiology</i> , <b>2019</b> , 27, 1011-1024	12.4	27
42	Enhancement of malate production through engineering of the periplasmic rTCA pathway in Escherichia coli. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 1571-1580	4.9	25
41	Light-powered Escherichia coli cell division for chemical production. <i>Nature Communications</i> , <b>2020</b> , 11, 2262	17.4	23
40	Light-driven CO <sub>2</sub> sequestration in Escherichia coli to achieve theoretical yield of chemicals. <i>Nature Catalysis</i> , <b>2021</b> , 4, 395-406	36.5	18
39	Open Gate of Corynebacterium glutamicum Threonine Deaminase for Efficient Synthesis of Bulky Keto Acids. <i>ACS Catalysis</i> , <b>2020</b> , 10, 9994-10004	13.1	17
38	Rewiring carbon flux in Escherichia coli using a bifunctional molecular switch. <i>Metabolic Engineering</i> , <b>2020</b> , 61, 47-57	9.7	13
37	Dynamic consolidated bioprocessing for direct production of xylonate and shikimate from xylan by Escherichia coli. <i>Metabolic Engineering</i> , <b>2020</b> , 60, 128-137	9.7	13
36	Comprehensive understanding of Saccharomyces cerevisiae phenotypes with whole-cell model WM_S288C. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 1562-1574	4.9	12
35	Improving lysine production through construction of an Escherichia coli enzyme-constrained model. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 3533-3544	4.9	11

34	Engineering microbial cell morphology and membrane homeostasis toward industrial applications. <i>Current Opinion in Biotechnology</i> , <b>2020</b> , 66, 18-26	11.4	10
33	Microbial cell engineering to improve cellular synthetic capacity. <i>Biotechnology Advances</i> , <b>2020</b> , 45, 10764-98	4.8	8
32	Engineering the Cad pathway in Escherichia coli to produce glutarate from L-lysine. <i>Applied Microbiology and Biotechnology</i> , <b>2021</b> , 105, 3587-3599	5.7	7
31	Fumarate Production by <i>Torulopsis glabrata</i> : Engineering Heterologous Fumarase Expression and Improving Acid Tolerance. <i>PLoS ONE</i> , <b>2016</b> , 11, e0164141	3.7	6
30	Enhanced chitinase production by Chitinolytic bacter <i>meiyuanensis</i> SYBC-H1 using staged pH control. <i>Journal of General and Applied Microbiology</i> , <b>2016</b> , 62, 126-31	1.5	6
29	Microbial engineering for the production of C-C organic acids. <i>Natural Product Reports</i> , <b>2021</b> , 38, 1518-1546	5.6	6
28	Engineering a CRISPRi Circuit for Autonomous Control of Metabolic Flux in. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 2661-2671	5.7	5
27	Microbial physiological engineering increases the efficiency of microbial cell factories. <i>Critical Reviews in Biotechnology</i> , <b>2021</b> , 41, 339-354	9.4	4
26	Thermoelectric Parameter Modeling of Single-Layer Graphene Considering Carrier Concentration and Mobility With Temperature and Gate Voltage. <i>IEEE Access</i> , <b>2019</b> , 7, 139329-139336	3.5	3
25	Reprogramming microbial populations using a programmed lysis system to improve chemical production. <i>Nature Communications</i> , <b>2021</b> , 12, 6886	17.4	3
24	Immobilization of Microbial Consortium for Glutaric Acid Production from Lysine. <i>ChemCatChem</i> ,	5.2	3
23	A multi-enzyme cascade for efficient production of d-p-hydroxyphenylglycine from l-tyrosine. <i>Bioresources and Bioprocessing</i> , <b>2021</b> , 8,	5.2	3
22	A biosynthesis pathway for 3-hydroxypropionic acid production in genetically engineered <i>Saccharomyces cerevisiae</i> . <i>Green Chemistry</i> , <b>2021</b> , 23, 4502-4509	10	3
21	One-Pot Enzymatic-Chemical Cascade Route for Synthesizing Aromatic $\beta$ -Hydroxy Ketones. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2808-2818	13.1	3
20	Enhancing biofuels production by engineering the actin cytoskeleton in <i>Saccharomyces cerevisiae</i> .. <i>Nature Communications</i> , <b>2022</b> , 13, 1886	17.4	3
19	Improving succinate production by engineering oxygen-dependent dynamic pathway regulation in <i>Escherichia coli</i> . <i>Systems Microbiology and Biomanufacturing</i> , 1		2
18	Engineering <i>Escherichia coli</i> biofilm to increase contact surface for shikimate and L-malate production. <i>Bioresources and Bioprocessing</i> , <b>2021</b> , 8,	5.2	2
17	Dynamic regulation of membrane integrity to enhance l-malate stress tolerance in <i>Candida glabrata</i> . <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 4347-4359	4.9	2

16	Reprogramming Metabolism for Bioplastics Synthesis from Waste Cooking Oil. <i>ACS Synthetic Biology</i> , <b>2021</b> , 10, 1966-1979	5.7	2
15	Study on the Heat Dissipation System Using Thermoelectric Cooling Based on Energy Harvesting for High-power LED <b>2019</b> ,		1
14	Incoherent optical modulation of graphene based on inline fiber Mach-Zehnder interferometer <b>2017</b> ,		1
13	Bifunctional optogenetic switch for improving shikimic acid production in E. coli. <b>2022</b> , 15, 13		1
12	Electrothermal Collaborative Cooling With Delayed Power Rail Switching Auxiliary Charging by Considering Energy Harvesting Mechanism for High-Power LEDs. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2020</b> , 10, 1507-1514	1.7	1
11	Dynamic control of the distribution of carbon flux between cell growth and butyrate biosynthesis in Escherichia coli. <i>Applied Microbiology and Biotechnology</i> , <b>2021</b> , 105, 5173-5187	5.7	1
10	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> , <b>2021</b> , 118, 4503-4515	4.9	1
9	Expanding the lysine industry: biotechnological production of l-lysine and its derivatives. <i>Advances in Applied Microbiology</i> , <b>2021</b> , 115, 1-33	4.9	1
8	Enhancing tryptophan production by balancing precursors in Escherichia coli.. <i>Biotechnology and Bioengineering</i> , <b>2021</b> ,	4.9	1
7	Advances in microbial production of feed amino acid. <i>Advances in Applied Microbiology</i> , <b>2022</b> ,	4.9	1
6	Enzymatic Production of Ascorbic Acid-2-Phosphate by Engineered Acid Phosphatase. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 14215-14221	5.7	0
5	Mediator Engineering of To Improve Multidimensional Stress Tolerance.. <i>Applied and Environmental Microbiology</i> , <b>2022</b> , e0162721	4.8	0
4	Production of phenylpyruvic acid by engineered L-amino acid deaminase from Proteus mirabilis.. <i>Biotechnology Letters</i> , <b>2022</b> , 1	3	0
3	Advances in microbial engineering for the production of value-added products in a biorefinery. <i>Systems Microbiology and Biomanufacturing</i> ,		0
2	Engineering membrane asymmetry to increase medium-chain fatty acid tolerance in Saccharomyces cerevisiae. <i>Biotechnology and Bioengineering</i> , <b>2022</b> , 119, 277-286	4.9	
1	Advances in microbial synthesis of bioplastic monomers. <i>Advances in Applied Microbiology</i> , <b>2022</b> ,	4.9	