

# Cong Gao

## List of Publications by Year in descending order

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55  
papers

1,327  
citations

430442

18  
h-index

377514

34  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1071  
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.	23.0	141
2	Reference values for peripheral blood lymphocyte subsets of healthy children in China. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 970-973.e8.	1.5	93
3	Programmable biomolecular switches for rewiring flux in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2019, 10, 3751.	5.8	84
4	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.	1.7	77
5	Light-driven CO <sub>2</sub> sequestration in <i>Escherichia coli</i> to achieve theoretical yield of chemicals. <i>Nature Catalysis</i> , 2021, 4, 395-406.	16.1	75
6	An efficient enzymatic production of N-acetyl-glucosamine from crude chitin powders. <i>Green Chemistry</i> , 2016, 18, 2147-2154.	4.6	63
7	Engineering <i>Escherichia coli</i> lifespan for enhancing chemical production. <i>Nature Catalysis</i> , 2020, 3, 307-318.	16.1	61
8	Engineering synergetic CO <sub>2</sub> -fixing pathways for malate production. <i>Metabolic Engineering</i> , 2018, 47, 496-504.	3.6	55
9	Light-powered <i>Escherichia coli</i> cell division for chemical production. <i>Nature Communications</i> , 2020, 11, 2262.	5.8	51
10	Improving lysine production through construction of an <i>Escherichia coli</i> enzyme-constrained model. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3533-3544.	1.7	47
11	Characterization of extracellular chitinase from <i>Chitinibacter</i> sp. GC72 and its application in GlcNAc production from crayfish shell enzymatic degradation. <i>Biochemical Engineering Journal</i> , 2015, 97, 59-64.	1.8	45
12	Genetic Circuit-Assisted Smart Microbial Engineering. <i>Trends in Microbiology</i> , 2019, 27, 1011-1024.	3.5	45
13	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.	1.7	37
14	Open Gate of <i>Corynebacterium glutamicum</i> Threonine Deaminase for Efficient Synthesis of Bulky $\alpha$ -Keto Acids. <i>ACS Catalysis</i> , 2020, 10, 9994-10004.	5.5	36
15	Rewiring carbon flux in <i>Escherichia coli</i> using a bifunctional molecular switch. <i>Metabolic Engineering</i> , 2020, 61, 47-57.	3.6	34
16	Engineering microbial cell morphology and membrane homeostasis toward industrial applications. <i>Current Opinion in Biotechnology</i> , 2020, 66, 18-26.	3.3	26
17	Comprehensive understanding of <i>Saccharomyces cerevisiae</i> phenotypes with whole-cell model WM_S288C. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1562-1574.	1.7	23
18	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.	3.6	20

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19	Enhancing biofuels production by engineering the actin cytoskeleton in <i>Saccharomyces cerevisiae</i> . <i>Nature Communications</i> , 2022, 13, 1886.	5.8	20
20	Genome-scale metabolic network models: from first-generation to next-generation. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 4907-4920.	1.7	19
21	A multi-enzyme cascade for efficient production of d-p-hydroxyphenylglycine from l-tyrosine. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	2.0	18
22	Microbial engineering for the production of C <sub>2</sub> –C <sub>6</sub> organic acids. <i>Natural Product Reports</i> , 2021, 38, 1518-1546.	5.2	17
23	Enhancing tryptophan production by balancing precursors in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2022, 119, 983-993.	1.7	17
24	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.	1.9	16
25	Microbial cell engineering to improve cellular synthetic capacity. <i>Biotechnology Advances</i> , 2020, 45, 107649.	6.0	15
26	Engineering the Cad pathway in <i>Escherichia coli</i> to produce glutarate from l-lysine. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 3587-3599.	1.7	15
27	Microbial physiological engineering increases the efficiency of microbial cell factories. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 339-354.	5.1	14
28	A biosynthesis pathway for 3-hydroxypropionic acid production in genetically engineered <i>Saccharomyces cerevisiae</i> . <i>Green Chemistry</i> , 2021, 23, 4502-4509.	4.6	13
29	Reprogramming microbial populations using a programmed lysis system to improve chemical production. <i>Nature Communications</i> , 2021, 12, 6886.	5.8	13
30	One-Pot Enzymatic–Chemical Cascade Route for Synthesizing Aromatic $\alpha$ -Hydroxy Ketones. <i>ACS Catalysis</i> , 2021, 11, 2808-2818.	5.5	10
31	Dynamic regulation of membrane integrity to enhance osmolyte stress tolerance in <i>Candida glabrata</i> . <i>Biotechnology and Bioengineering</i> , 2021, 118, 4347-4359.	1.7	10
32	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.	1.7	10
33	Bifunctional optogenetic switch for improving shikimic acid production in <i>E. coli</i> . , 2022, 15, 13.		10
34	Reprogramming <i>Escherichia coli</i> Metabolism for Bioplastics Synthesis from Waste Cooking Oil. <i>ACS Synthetic Biology</i> , 2021, 10, 1966-1979.	1.9	9
35	Engineering a CRISPRi Circuit for Autonomous Control of Metabolic Flux in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 2661-2671.	1.9	9
36	Fumarate Production by <i>Torulopsis glabrata</i> : Engineering Heterologous Fumarase Expression and Improving Acid Tolerance. <i>PLoS ONE</i> , 2016, 11, e0164141.	1.1	8

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37	Enhanced chitinase production by <i>Chitinolyticbacter meiyuanensis</i> SYBC-H1 using staged pH control. <i>Journal of General and Applied Microbiology</i> , 2016, 62, 126-131.	0.4	7
38	Thermoelectric Parameter Modeling of Single-Layer Graphene Considering Carrier Concentration and Mobility With Temperature and Gate Voltage. <i>IEEE Access</i> , 2019, 7, 139329-139336.	2.6	7
39	Mediator Engineering of <i>Saccharomyces cerevisiae</i> To Improve Multidimensional Stress Tolerance. <i>Applied and Environmental Microbiology</i> , 2022, 88, e0162721.	1.4	7
40	Expanding the lysine industry: biotechnological production of L-lysine and its derivatives. <i>Advances in Applied Microbiology</i> , 2021, 115, 1-33.	1.3	6
41	Immobilization of Microbial Consortium for Glutaric Acid Production from Lysine. <i>ChemCatChem</i> , 2021, 13, 5047-5055.	1.8	6
42	Engineering <i>Escherichia coli</i> biofilm to increase contact surface for shikimate and L-malate production. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	2.0	6
43	Enzymatic Production of Ascorbic Acid-2-Phosphate by Engineered <i>Pseudomonas aeruginosa</i> Acid Phosphatase. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 14215-14221.	2.4	5
44	Rational Design of Phospholipase D to Improve the Transphosphatidylation Activity for Phosphatidylserine Synthesis. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 6709-6718.	2.4	5
45	Improving succinate production by engineering oxygen-dependent dynamic pathway regulation in <i>Escherichia coli</i> . <i>Systems Microbiology and Biomanufacturing</i> , 2022, 2, 331-344.	1.5	4
46	Production of phenylpyruvic acid by engineered L-amino acid deaminase from <i>Proteus mirabilis</i> . <i>Biotechnology Letters</i> , 2022, 44, 635-642.	1.1	3
47	Advances in microbial engineering for the production of value-added products in a biorefinery. <i>Systems Microbiology and Biomanufacturing</i> , 2023, 3, 246-261.	1.5	3
48	Advances in microbial production of feed amino acid. <i>Advances in Applied Microbiology</i> , 2022, , 1-33.	1.3	3
49	Dynamic control of the distribution of carbon flux between cell growth and butyrate biosynthesis in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 5173-5187.	1.7	2
50	Engineering membrane asymmetry to increase medium-chain fatty acid tolerance in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2022, 119, 277-286.	1.7	2
51	Incoherent optical modulation of graphene based on inline fiber Mach-Zehnder interferometer. , 2017, , .		1
52	Study on the Heat Dissipation System Using Thermoelectric Cooling Based on Energy Harvesting for High-power LED. , 2019, , .		1
53	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> , 2020, 10, 1507-1514.	1.4	1
54	Study on the PhotoThermoelectric Characteristic of Graphene with Double-Gate. , 2019, , .		0

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55	Advances in microbial synthesis of bioplastic monomers. <i>Advances in Applied Microbiology</i> , 2022, , .	1.3	0