# Cong Gao

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 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 | Bifunctional optogenetic switch for improving shikimic acid production in E. coli. **2022**, 15, 13 | | 1 |
| 50 | Engineering membrane asymmetry to increase medium-chain fatty acid tolerance in Saccharomyces cerevisiae. *Biotechnology and Bioengineering*, **2022**, 119, 277-286 | 4.9 | |
| 49 | Mediator Engineering of To Improve Multidimensional Stress Tolerance.. *Applied and Environmental Microbiology*, **2022**, e0162721 | 4.8 | 0 |
| 48 | Enhancing biofuels production by engineering the actin cytoskeleton in Saccharomyces cerevisiae.. *Nature Communications*, **2022**, 13, 1886 | 17.4 | 3 |
| 47 | Production of phenylpyruvic acid by engineered L-amino acid deaminase from Proteus mirabilis.. *Biotechnology Letters*, **2022**, 1 | 3 | 0 |
| 46 | Advances in microbial production of feed amino acid. *Advances in Applied Microbiology*, **2022**, | 4.9 | 1 |
| 45 | Advances in microbial synthesis of bioplastic monomers. *Advances in Applied Microbiology*, **2022**, | 4.9 | |
| 44 | Engineering Escherichia coli biofilm to increase contact surface for shikimate and L-malate production. *Bioresources and Bioprocessing*, **2021**, 8, | 5.2 | 2 |
| 43 | Enzymatic Production of Ascorbic Acid-2-Phosphate by Engineered Acid Phosphatase. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 14215-14221 | 5.7 | 0 |
| 42 | Reprogramming microbial populations using a programmed lysis system to improve chemical production. *Nature Communications*, **2021**, 12, 6886 | 17.4 | 3 |
| 41 | Engineering a CRISPRi Circuit for Autonomous Control of Metabolic Flux in. *ACS Synthetic Biology*, **2021**, 10, 2661-2671 | 5.7 | 5 |
| 40 | Light-driven CO2 sequestration in Escherichia coli to achieve theoretical yield of chemicals. *Nature Catalysis*, **2021**, 4, 395-406 | 36.5 | 18 |
| 39 | Engineering the Cad pathway in Escherichia coli to produce glutarate from L-lysine. *Applied Microbiology and Biotechnology*, **2021**, 105, 3587-3599 | 5.7 | 7 |
| 38 | A multi-enzyme cascade for efficient production of d-p-hydroxyphenylglycine from l-tyrosine. *Bioresources and Bioprocessing*, **2021**, 8, | 5.2 | 3 |
| 37 | 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 | 5.7 | 1 |
| 36 | Dynamic regulation of membrane integrity to enhance l-malate stress tolerance in Candida glabrata. *Biotechnology and Bioengineering*, **2021**, 118, 4347-4359 | 4.9 | 2 |
| 35 | Microbial engineering for the production of C-C organic acids. *Natural Product Reports*, **2021**, 38, 1518-1546 | 15.1 | 6 |

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| 34 | A biosynthesis pathway for 3-hydroxypropionic acid production in genetically engineered Saccharomyces cerevisiae. *Green Chemistry*, **2021**, 23, 4502-4509 | 10 | 3 |
| 33 | Microbial physiological engineering increases the efficiency of microbial cell factories. *Critical Reviews in Biotechnology*, **2021**, 41, 339-354 | 9.4 | 4 |
| 32 | One-Pot Enzymatic□Chemical Cascade Route for Synthesizing Aromatic □-Hydroxy Ketones. *ACS Catalysis*, **2021**, 11, 2808-2818 | 13.1 | 3 |
| 31 | Reprogramming Metabolism for Bioplastics Synthesis from Waste Cooking Oil. *ACS Synthetic Biology*, **2021**, 10, 1966-1979 | 5.7 | 2 |
| 30 | 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 | 4.9 | 1 |
| 29 | Expanding the lysine industry: biotechnological production of l-lysine and its derivatives. *Advances in Applied Microbiology*, **2021**, 115, 1-33 | 4.9 | 1 |
| 28 | Enhancing tryptophan production by balancing precursors in Escherichia coli.. *Biotechnology and Bioengineering*, **2021**, | 4.9 | 1 |
| 27 | Light-powered Escherichia coli cell division for chemical production. *Nature Communications*, **2020**, 11, 2262 | 17.4 | 23 |
| 26 | Rewiring carbon flux in Escherichia coli using a bifunctional molecular switch. *Metabolic Engineering* , **2020**, 61, 47-57 | 9.7 | 13 |
| 25 | Engineering microbial cell morphology and membrane homeostasis toward industrial applications. *Current Opinion in Biotechnology*, **2020**, 66, 18-26 | 11.4 | 10 |
| 24 | Improving lysine production through construction of an Escherichia coli enzyme-constrained model. *Biotechnology and Bioengineering*, **2020**, 117, 3533-3544 | 4.9 | 11 |
| 23 | Engineering Escherichia coli lifespan for enhancing chemical production. *Nature Catalysis*, **2020**, 3, 307-316 | 38.5 | 27 |
| 22 | Comprehensive understanding of Saccharomyces cerevisiae phenotypes with whole-cell model WM_S288C. *Biotechnology and Bioengineering*, **2020**, 117, 1562-1574 | 4.9 | 12 |
| 21 | Microbial cell engineering to improve cellular synthetic capacity. *Biotechnology Advances*, **2020**, 45, 107649 | 17.8 | 8 |
| 20 | Open Gate of Corynebacterium glutamicum Threonine Deaminase for Efficient Synthesis of Bulky □-Keto Acids. *ACS Catalysis*, **2020**, 10, 9994-10004 | 13.1 | 17 |
| 19 | Electrothermal Collaborative Cooling With Delayed Power Rail Switching Auxiliary Charging by Considering Energy Harvesting Mechanism for High-Power LEDs. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2020**, 10, 1507-1514 | 1.7 | 1 |
| 18 | Dynamic consolidated bioprocessing for direct production of xylonate and shikimate from xylan by Escherichia coli. *Metabolic Engineering*, **2020**, 60, 128-137 | 9.7 | 13 |
| 17 | Genetic Circuit-Assisted Smart Microbial Engineering. *Trends in Microbiology*, **2019**, 27, 1011-1024 | 12.4 | 27 |

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| 16 | Study on the Heat Disspation System Using Thermoelectric Cooling Based on Energy Harvesting for High-power LED **2019**, | | 1 |
| 15 | Programmable biomolecular switches for rewiring flux in Escherichia coli. *Nature Communications*, **2019**, 10, 3751 | 17.4 | 46 |
| 14 | Thermoelectric Parameter Modeling of Single-Layer Graphene Considering Carrier Concentration and Mobility With Temperature and Gate Voltage. *IEEE Access*, **2019**, 7, 139329-139336 | 3.5 | 3 |
| 13 | Enhancement of malate production through engineering of the periplasmic rTCA pathway in Escherichia coli. *Biotechnology and Bioengineering*, **2018**, 115, 1571-1580 | 4.9 | 25 |
| 12 | DCEO Biotechnology: Tools To Design, Construct, Evaluate, and Optimize the Metabolic Pathway for Biosynthesis of Chemicals. *Chemical Reviews*, **2018**, 118, 4-72 | 68.1 | 97 |
| 11 | Reference values for peripheral blood lymphocyte subsets of healthy children in China. *Journal of Allergy and Clinical Immunology*, **2018**, 142, 970-973.e8 | 11.5 | 42 |
| 10 | Engineering Escherichia coli for malate production by integrating modular pathway characterization with CRISPRi-guided multiplexed metabolic tuning. *Biotechnology and Bioengineering*, **2018**, 115, 661-672 | 4.9 | 55 |
| 9 | Engineering synergetic CO-fixing pathways for malate production. *Metabolic Engineering*, **2018**, 47, 496-504 | 9.4 | 32 |
| 8 | Incoherent optical modulation of graphene based on inline fiber Mach-Zehnder interferometer **2017**, | | 1 |
| 7 | An efficient enzymatic production of N-acetyl-D-glucosamine from crude chitin powders. *Green Chemistry*, **2016**, 18, 2147-2154 | 10 | 43 |
| 6 | Fumarate Production by Torulopsis glabrata: Engineering Heterologous Fumarase Expression and Improving Acid Tolerance. *PLoS ONE*, **2016**, 11, e0164141 | 3.7 | 6 |
| 5 | Enhanced chitinase production by Chitinolyticbacter meiyuanensis SYBC-H1 using staged pH control. *Journal of General and Applied Microbiology*, **2016**, 62, 126-31 | 1.5 | 6 |
| 4 | Characterization of extracellular chitinase from Chitinibacter sp. GC72 and its application in GlcNAc production from crayfish shell enzymatic degradation. *Biochemical Engineering Journal*, **2015**, 97, 59-64 | 4.2 | 37 |
| 3 | Improving succinate production by engineering oxygen-dependent dynamic pathway regulation in Escherichia coli. *Systems Microbiology and Biomanufacturing*,1 | | 2 |
| 2 | Immobilization of Microbial Consortium for Glutaric Acid Production from Lysine. *ChemCatChem*, | 5.2 | 3 |
| 1 | Advances in microbial engineering for the production of value-added products in a biorefinery. *Systems Microbiology and Biomanufacturing*, | | 0 |