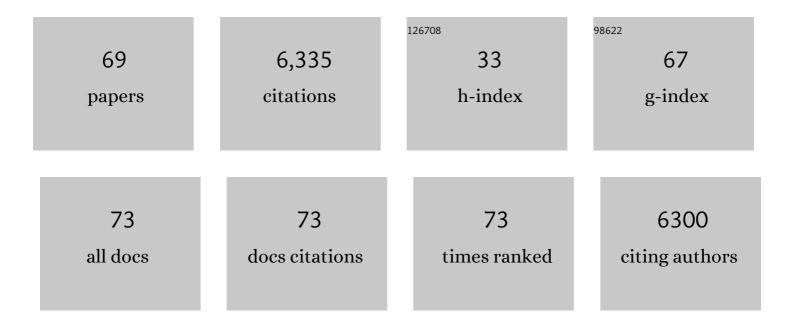
Fuzhong Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/947428/publications.pdf Version: 2024-02-01



FUZHONC ZHANC

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Transient Antibiotic Tolerance Triggered by Nutrient Shifts From Gluconeogenic Carbon Sources to Fatty Acid. Frontiers in Microbiology, 2022, 13, 854272. | 1.5 | 2 |
| 2 | Trade-Offs in Biosensor Optimization for Dynamic Pathway Engineering. ACS Synthetic Biology, 2022, 11, 228-240. | 1.9 | 13 |
| 3 | The Growth Dependent Design Constraints of Transcription-Factor-Based Metabolite Biosensors. ACS Synthetic Biology, 2022, 11, 2247-2258. | 1.9 | 11 |
| 4 | Dynamic control in metabolic engineering: Theories, tools, and applications. Metabolic Engineering, 2021, 63, 126-140. | 3.6 | 93 |
| 5 | Massively parallel gene expression variation measurement of a synonymous codon library. BMC Genomics, 2021, 22, 149. | 1.2 | 13 |
| 6 | Enhanced limonene production in a fast-growing cyanobacterium through combinatorial metabolic engineering. Metabolic Engineering Communications, 2021, 12, e00164. | 1.9 | 47 |
| 7 | Microbially Synthesized Polymeric Amyloid Fiber Promotes Î ² -Nanocrystal Formation and Displays Gigapascal Tensile Strength. ACS Nano, 2021, 15, 11843-11853. | 7.3 | 34 |
| 8 | Microbial production of megadalton titin yields fibers with advantageous mechanical properties. Nature Communications, 2021, 12, 5182. | 5.8 | 21 |
| 9 | Enhanced microalgae cultivation using wastewater nutrients extracted by a microbial electrochemical system. Water Research, 2021, 206, 117722. | 5.3 | 8 |
| 10 | A Biosynthetic Hybrid Spidroin-Amyloid-Mussel Foot Protein for Underwater Adhesion on Diverse Surfaces. ACS Applied Materials & Interfaces, 2021, 13, 48457-48468. | 4.0 | 24 |
| 11 | Amyloids as Building Blocks for Macroscopic Functional Materials: Designs, Applications and Challenges. International Journal of Molecular Sciences, 2021, 22, 10698. | 1.8 | 21 |
| 12 | Graphene oxide/mussel foot protein composites for high-strength and ultra-tough thin films. Scientific Reports, 2020, 10, 19082. | 1.6 | 5 |
| 13 | Control strategies to manage trade-offs during microbial production. Current Opinion in Biotechnology, 2020, 66, 158-164. | 3.3 | 15 |
| 14 | Bacterial metabolic heterogeneity: origins and applications in engineering and infectious disease. Current Opinion in Biotechnology, 2020, 64, 183-189. | 3.3 | 19 |
| 15 | Metabolite Sequestration Enables Rapid Recovery from Fatty Acid Depletion in Escherichia coli. MBio, 2020, 11, . | 1.8 | 13 |
| 16 | Enhanced production of sucrose in the fast-growing cyanobacterium Synechococcus elongatus UTEX 2973. Scientific Reports, 2020, 10, 390. | 1.6 | 71 |
| 17 | Heterogeneity coordinates bacterial multi-gene expression in single cells. PLoS Computational Biology, 2020, 16, e1007643. | 1.5 | 13 |
| 18 | Heterogeneity coordinates bacterial multi-gene expression in single cells. , 2020, 16, e1007643. | | 0 |

Fuzhong Zhang

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Heterogeneity coordinates bacterial multi-gene expression in single cells. , 2020, 16, e1007643. | | Ο |
| 20 | Heterogeneity coordinates bacterial multi-gene expression in single cells. , 2020, 16, e1007643. | | 0 |
| 21 | Heterogeneity coordinates bacterial multi-gene expression in single cells. , 2020, 16, e1007643. | | Ο |
| 22 | Covalently-assembled single-chain protein nanostructures with ultra-high stability. Nature Communications, 2019, 10, 3317. | 5.8 | 34 |
| 23 | A concerted systems biology analysis of phenol metabolism in Rhodococcus opacus PD630. Metabolic Engineering, 2019, 55, 120-130. | 3.6 | 37 |
| 24 | Fibril Self-Assembly of Amyloid–Spider Silk Block Polypeptides. Biomacromolecules, 2019, 20, 2015-2023. | 2.6 | 24 |
| 25 | Biosynthesis, regulation, and engineering of microbially produced branched biofuels. Biotechnology for Biofuels, 2019, 12, 84. | 6.2 | 29 |
| 26 | Seeded Chain-Growth Polymerization of Proteins in Living Bacterial Cells. ACS Synthetic Biology, 2019, 8, 2651-2658. | 1.9 | 18 |
| 27 | Dynamic metabolic control: towards precision engineering of metabolism. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 535-543. | 1.4 | 86 |
| 28 | Metabolic Feedback Circuits Provide Rapid Control of Metabolite Dynamics. ACS Synthetic Biology, 2018, 7, 347-356. | 1.9 | 42 |
| 29 | Steps towards â€~drop-in' biofuels: focusing on metabolic pathways. Current Opinion in Biotechnology, 2018, 53, 26-32. | 3.3 | 26 |
| 30 | Microbially Synthesized Repeats of Mussel Foot Protein Display Enhanced Underwater Adhesion. ACS Applied Materials & Interfaces, 2018, 10, 43003-43012. | 4.0 | 35 |
| 31 | Engineering xylose metabolism for production of polyhydroxybutyrate in the non-model bacterium Burkholderia sacchari. Microbial Cell Factories, 2018, 17, 74. | 1.9 | 17 |
| 32 | Recombinant Spidroins Fully Replicate Primary Mechanical Properties of Natural Spider Silk. Biomacromolecules, 2018, 19, 3853-3860. | 2.6 | 159 |
| 33 | Developing a Cas9â€based tool to engineer native plasmids in <i>Synechocystis</i> sp. PCC 6803. Biotechnology and Bioengineering, 2018, 115, 2305-2314. | 1.7 | 25 |
| 34 | Engineering Microbial Metabolite Dynamics and Heterogeneity. Biotechnology Journal, 2017, 12, 1700422. | 1.8 | 35 |
| 35 | Fundamental Design Principles for Transcription-Factor-Based Metabolite Biosensors. ACS Synthetic Biology, 2017, 6, 1851-1859. | 1.9 | 152 |
| 36 | Metabolic engineering of the pentose phosphate pathway for enhanced limonene production in the cyanobacterium Synechocysti s sp. PCC 6803. Scientific Reports, 2017, 7, 17503. | 1.6 | 108 |

Fuzhong Zhang

| # | Article | IF | CITATIONS |
|----|--|-------------------|-----------|
| 37 | Developing a Genetically Encoded, Cross-Species Biosensor for Detecting Ammonium and Regulating Biosynthesis of Cyanophycin. ACS Synthetic Biology, 2017, 6, 1807-1815. | 1.9 | 18 |
| 38 | Enhancing fatty acid production in <i>Escherichia coli</i> by <i>Vitreoscilla</i> hemoglobin overexpression. Biotechnology and Bioengineering, 2017, 114, 463-467. | 1.7 | 32 |
| 39 | Modular pathway engineering for the microbial production of branched-chain fatty alcohols. Biotechnology for Biofuels, 2017, 10, 244. | 6.2 | 29 |
| 40 | Diurnal Regulation of Cellular Processes in the Cyanobacterium <i>Synechocystis</i> sp. Strain PCC 6803: Insights from Transcriptomic, Fluxomic, and Physiological Analyses. MBio, 2016, 7, . | 1.8 | 84 |
| 41 | Engineering Escherichia coli to produce branched-chain fatty acids in high percentages. Metabolic Engineering, 2016, 38, 148-158. | 3.6 | 42 |
| 42 | Exploiting nongenetic cell-to-cell variation for enhanced biosynthesis. Nature Chemical Biology, 2016, 12, 339-344. | 3.9 | 209 |
| 43 | In Situ Photocatalytic Synthesis of Ag Nanoparticles (nAg) by Crumpled Graphene Oxide Composite Membranes for Filtration and Disinfection Applications. Environmental Science & Technology, 2016, 50, 2514-2521. | 4.6 | 82 |
| 44 | Engineering <i>Escherichia coli</i> for Conversion of Glucose to Medium-Chain ω-Hydroxy Fatty Acids and α,ω-Dicarboxylic Acids. ACS Synthetic Biology, 2016, 5, 200-206. | 1.9 | 57 |
| 45 | Enhanced production of branchedâ€chain fatty acids by replacing βâ€ketoacylâ€(acylâ€carrierâ€protein) syntha III (FabH). Biotechnology and Bioengineering, 2015, 112, 1613-1622. | se _{1.7} | 18 |
| 46 | Negative Feedback Regulation of Fatty Acid Production Based on a Malonyl-CoA Sensor–Actuator. ACS Synthetic Biology, 2015, 4, 132-140. | 1.9 | 138 |
| 47 | Special Issue on Circuits in Metabolic Engineering. ACS Synthetic Biology, 2015, 4, 93-94. | 1.9 | 1 |
| 48 | Applications and advances of metabolite biosensors for metabolic engineering. Metabolic Engineering, 2015, 31, 35-43. | 3.6 | 167 |
| 49 | Engineered Crumpled Graphene Oxide Nanocomposite Membrane Assemblies for Advanced Water Treatment Processes. Environmental Science & Technology, 2015, 49, 6846-6854. | 4.6 | 108 |
| 50 | Central metabolic responses to the overproduction of fatty acids in <i>Escherichia coli</i> based on ¹³ Câ€metabolic flux analysis. Biotechnology and Bioengineering, 2014, 111, 575-585. | 1.7 | 112 |
| 51 | Engineering dynamic pathway regulation using stress-response promoters. Nature Biotechnology, 2013, 31, 1039-1046. | 9.4 | 411 |
| 52 | Development of Synechocystis sp. PCC 6803 as a Phototrophic Cell Factory. Marine Drugs, 2013, 11, 2894-2916. | 2.2 | 112 |
| 53 | Bridging the gap between systems biology and synthetic biology. Frontiers in Microbiology, 2013, 4, 211. | 1.5 | 19 |
| 54 | Enhancing fatty acid production by the expression of the regulatory transcription factor FadR. Metabolic Engineering, 2012, 14, 653-660. | 3.6 | 173 |

FUZHONG ZHANG

| # | Article | IF | CITATIONS |
|----|--|---------------------------|---------------------|
| 55 | Microbial engineering for the production of advanced biofuels. Nature, 2012, 488, 320-328. | 13.7 | 951 |
| 56 | Design of a dynamic sensor-regulator system for production of chemicals and fuels derived from fatty acids. Nature Biotechnology, 2012, 30, 354-359. | 9.4 | 721 |
| 57 | Light-Controlled Gene Switches in Mammalian Cells. Methods in Molecular Biology, 2012, 813, 195-210. | 0.4 | 4 |
| 58 | Biosensors and their applications in microbial metabolic engineering. Trends in Microbiology, 2011, 19, 323-329. | 3.5 | 184 |
| 59 | Metabolic engineering of microbial pathways for advanced biofuels production. Current Opinion in Biotechnology, 2011, 22, 775-783. | 3.3 | 313 |
| 60 | BglBrick vectors and datasheets: A synthetic biology platform for gene expression. Journal of Biological Engineering, 2011, 5, 12. | 2.0 | 391 |
| 61 | Photocontrol of Coiledâ€Coil Proteins in Living Cells. Angewandte Chemie - International Edition, 2010, 49, 3943-3946. | 7.2 | 108 |
| 62 | Structure-Based Approach to the Photocontrol of Protein Folding. Journal of the American Chemical Society, 2009, 131, 2283-2289. | 6.6 | 98 |
| 63 | Spectral Tuning of Azobenzene Photoswitches for Biological Applications. Angewandte Chemie - International Edition, 2009, 48, 1484-1486. | 7.2 | 204 |
| 64 | Evidence of Kinetic Control of Ligand Binding and Staged Product Release in MurA (Enolpyruvyl) Tj ETQqO 0 0 rg | BT $\frac{1}{1.2}$ Overlo | ck 10 Tf 50 3 19 |
| 65 | Synthesis and Characterization of a Long, Rigid Photoswitchable Crossâ€Linker for Promoting Peptide and Protein Conformational Change. ChemBioChem, 2008, 9, 2147-2154. | 1.3 | 33 |
| 66 | Stabilization of Folded Peptide and Protein Structures via Distance Matching with a Long, Rigid Cross-Linker. Journal of the American Chemical Society, 2007, 129, 14154-14155. | 6.6 | 87 |

| 67 | Synthesis of 3,3′-bis(sulfonato)-4,4′-bis(chloroacetamido)azobenzene and cysteine cross-linking for photo-control of protein conformation and activity. Nature Protocols, 2007, 2, 251-258. | 5.5 | 63 |
|----|---|-----|----|
| 68 | Phosphate Analogues as Probes of the Catalytic Mechanisms of MurA and AroA, Two Carboxyvinyl Transferasesâ€. Biochemistry, 2006, 45, 6027-6037. | 1.2 | 13 |
| 69 | sGAL: a computational method for finding surface exposed sites in proteins suitable for Cys-mediated cross-linking. Bioinformatics. 2006. 22. 3101-3102. | 1.8 | 11 |