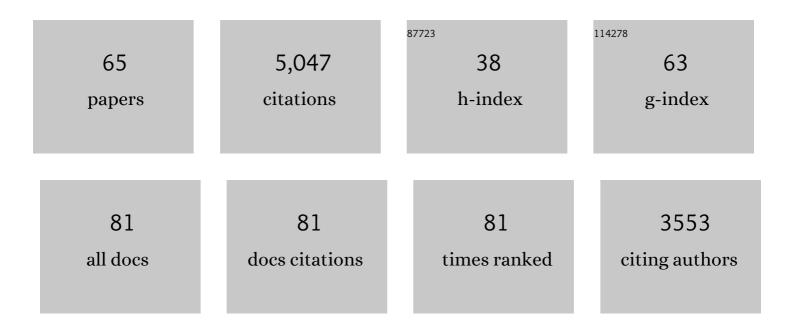


## List of Publications by Year in descending order

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DENC XII

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Improving fatty acids production by engineering dynamic pathway regulation and metabolic control.<br>Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11299-11304.                  | 3.3 | 423       |
| 2  | Modular optimization of multi-gene pathways for fatty acids production in E. coli. Nature<br>Communications, 2013, 4, 1409.  | 5.8 | 405       |
| 3  | Lipid production in Yarrowia lipolytica is maximized by engineering cytosolic redox metabolism.<br>Nature Biotechnology, 2017, 35, 173-177.  | 9.4 | 366       |
| 4  | Engineering <i>Yarrowia lipolytica</i> as a platform for synthesis of drop-in transportation fuels and oleochemicals. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10848-10853. | 3.3 | 362       |
| 5  | Genome-scale metabolic network modeling results in minimal interventions that cooperatively force carbon flux towards malonyl-CoA. Metabolic Engineering, 2011, 13, 578-587.   | 3.6 | 300       |
| 6  | ePathBrick: A Synthetic Biology Platform for Engineering Metabolic Pathways in <i>E. coli</i> . ACS<br>Synthetic Biology, 2012, 1, 256-266.  | 1.9 | 230       |
| 7  | Engineering oxidative stress defense pathways to build a robust lipid production platform in <i>Yarrowia lipolytica</i> . Biotechnology and Bioengineering, 2017, 114, 1521-1530.  | 1.7 | 162       |
| 8  | Optimizing Oleaginous Yeast Cell Factories for Flavonoids and Hydroxylated Flavonoids Biosynthesis.<br>ACS Synthetic Biology, 2019, 8, 2514-2523.  | 1.9 | 125       |
| 9  | Design and Kinetic Analysis of a Hybrid Promoter–Regulator System for Malonyl-CoA Sensing in<br><i>Escherichia coli</i> . ACS Chemical Biology, 2014, 9, 451-458.  | 1.6 | 123       |
| 10 | YaliBricks, a versatile genetic toolkit for streamlined and rapid pathway engineering in Yarrowia<br>lipolytica. Metabolic Engineering Communications, 2017, 5, 68-77.   | 1.9 | 110       |
| 11 | Production of chemicals using dynamic control of metabolic fluxes. Current Opinion in<br>Biotechnology, 2018, 53, 12-19.   | 3.3 | 104       |
| 12 | Improving Metabolic Pathway Efficiency by Statistical Model-Based Multivariate Regulatory Metabolic<br>Engineering. ACS Synthetic Biology, 2017, 6, 148-158.   | 1.9 | 101       |
| 13 | Engineering plant metabolism into microbes: from systems biology to synthetic biology. Current<br>Opinion in Biotechnology, 2013, 24, 291-299.   | 3.3 | 100       |
| 14 | Engineering acetyl-CoA metabolic shortcut for eco-friendly production of polyketides triacetic acid<br>lactone in Yarrowia lipolytica. Metabolic Engineering, 2019, 56, 60-68.   | 3.6 | 100       |
| 15 | When plants produce not enough or at all: metabolic engineering of flavonoids in microbial hosts.<br>Frontiers in Plant Science, 2015, 6, 7.   | 1.7 | 92        |
| 16 | Combining 26s rDNA and the Cre-loxP System for Iterative Gene Integration and Efficient Marker<br>Curation in <i>Yarrowia lipolytica</i> . ACS Synthetic Biology, 2019, 8, 568-576.  | 1.9 | 89        |
| 17 | Functional overexpression and characterization of lipogenesis-related genes in the oleaginous yeast<br>Yarrowia lipolytica. Applied Microbiology and Biotechnology, 2016, 100, 3781-3798.                                      | 1.7 | 85        |
| 18 | Programmable biomolecular switches for rewiring flux in Escherichia coli. Nature Communications, 2019, 10, 3751.   | 5.8 | 84        |

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|----|---|-----|-----------|
| 19 | Design and application of genetically-encoded malonyl-CoA biosensors for metabolic engineering of microbial cell factories. Metabolic Engineering, 2017, 44, 253-264.   | 3.6 | 82        |
| 20 | Coupling feedback genetic circuits with growth phenotype for dynamic population control and intelligent bioproduction. Metabolic Engineering, 2019, 54, 109-116.  | 3.6 | 79        |
| 21 | CRISPR-Cas12a/Cpf1-assisted precise, efficient and multiplexed genome-editing in Yarrowia lipolytica.<br>Metabolic Engineering Communications, 2020, 10, e00112.  | 1.9 | 79        |
| 22 | Development of a Recombinant Escherichia coli Strain for Overproduction of the Plant Pigment<br>Anthocyanin. Applied and Environmental Microbiology, 2015, 81, 6276-6284.   | 1.4 | 78        |
| 23 | Engineering <i>Escherichia coli</i> for malate production by integrating modular pathway characterization with CRISPRiâ€guided multiplexed metabolic tuning. Biotechnology and Bioengineering, 2018, 115, 661-672.  | 1.7 | 77        |
| 24 | Coupling metabolic addiction with negative autoregulation to improve strain stability and pathway yield. Metabolic Engineering, 2020, 61, 79-88.  | 3.6 | 70        |
| 25 | Improved production of mycelial biomass and ganoderic acid by submerged culture of Ganoderma<br>lucidum SB97 using complex media. Enzyme and Microbial Technology, 2008, 42, 325-331.                               | 1.6 | 68        |
| 26 | Debottlenecking mevalonate pathway for antimalarial drug precursor amorphadiene biosynthesis in<br>Yarrowia lipolytica. Metabolic Engineering Communications, 2020, 10, e00121.                                     | 1.9 | 66        |
| 27 | Genetic and bioprocess engineering to improve squalene production in Yarrowia lipolytica.<br>Bioresource Technology, 2020, 317, 123991.   | 4.8 | 65        |
| 28 | Understanding lipogenesis by dynamically profiling transcriptional activity of lipogenic promoters in<br>Yarrowia lipolytica. Applied Microbiology and Biotechnology, 2019, 103, 3167-3179.                         | 1.7 | 62        |
| 29 | Pathway and protein engineering approaches to produce novel and commodity small molecules.<br>Current Opinion in Biotechnology, 2013, 24, 1137-1143.  | 3.3 | 59        |
| 30 | Engineering <i>Yarrowia lipolytica</i> as a Chassis for <i>De Novo</i> Synthesis of Five<br>Aromatic-Derived Natural Products and Chemicals. ACS Synthetic Biology, 2020, 9, 2096-2106.                             | 1.9 | 59        |
| 31 | Combining genetically-encoded biosensors with high throughput strain screening to maximize erythritol production in Yarrowia lipolytica. Metabolic Engineering, 2020, 60, 66-76.                                    | 3.6 | 57        |
| 32 | Engineering synergetic CO2-fixing pathways for malate production. Metabolic Engineering, 2018, 47, 496-504.   | 3.6 | 55        |
| 33 | Refactoring Ehrlich Pathway for High-Yield 2-Phenylethanol Production in <i>Yarrowia lipolytica</i> .<br>ACS Synthetic Biology, 2020, 9, 623-633.   | 1.9 | 55        |
| 34 | Redirecting carbon flux into malonyl-CoA to improve resveratrol titers: Proof of concept for genetic interventions predicted by OptForce computational framework. Chemical Engineering Science, 2013, 103, 109-114. | 1.9 | 54        |
| 35 | Synthetic biology, systems biology, and metabolic engineering of <i>Yarrowia lipolytica</i> toward a sustainable biorefinery platform. Journal of Industrial Microbiology and Biotechnology, 2020, 47, 845-862.     | 1.4 | 53        |
| 36 | Engineering metabolite-responsive transcriptional factors to sense small molecules in eukaryotes:<br>current state and perspectives. Microbial Cell Factories, 2019, 18, 61.  | 1.9 | 52        |

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|----|---|-----|-----------|
| 37 | Isolation and Characterization of Three Antihypertension Peptides from the Mycelia of <i>Ganoderma<br/>Lucidum</i> (Agaricomycetes). Journal of Agricultural and Food Chemistry, 2019, 67, 8149-8159. | 2.4 | 49        |
| 38 | Genetic Circuit-Assisted Smart Microbial Engineering. Trends in Microbiology, 2019, 27, 1011-1024.  | 3.5 | 45        |
| 39 | Microbial Coculture for Flavonoid Synthesis. Trends in Biotechnology, 2020, 38, 686-688.  | 4.9 | 43        |
| 40 | Analytical solution for a hybrid Logisticâ€Monod cell growth model in batch and continuous stirred tank reactor culture. Biotechnology and Bioengineering, 2020, 117, 873-878.                        | 1.7 | 39        |
| 41 | Biotechnological Production of Flavonoids: An Update on Plant Metabolic Engineering, Microbial<br>Host Selection, and Genetically Encoded Biosensors. Biotechnology Journal, 2020, 15, e1900432.      | 1.8 | 35        |
| 42 | Metabolic engineering of <i>Escherichia coli</i> for biofuel production. Biofuels, 2010, 1, 493-504.  | 1.4 | 33        |
| 43 | A Golden-Gate Based Cloning Toolkit to Build Violacein Pathway Libraries in <i>Yarrowia<br/>lipolytica</i> . ACS Synthetic Biology, 2021, 10, 115-124.  | 1.9 | 28        |
| 44 | Enzymatic formation of a resorcylic acid by creating a structureâ€guided singleâ€point mutation in<br>stilbene synthase. Protein Science, 2015, 24, 167-173.  | 3.1 | 25        |
| 45 | Dynamics of microbial competition, commensalism, and cooperation and its implications for coculture and microbiome engineering. Biotechnology and Bioengineering, 2021, 118, 199-209.                 | 1.7 | 25        |
| 46 | Genetically-encoded biosensors for analyzing and controlling cellular process in yeast. Current<br>Opinion in Biotechnology, 2020, 64, 175-182.   | 3.3 | 23        |
| 47 | A roadmap to engineering antiviral natural products synthesis in microbes. Current Opinion in<br>Biotechnology, 2020, 66, 140-149.  | 3.3 | 22        |
| 48 | Genetic Tools for Streamlined and Accelerated Pathway Engineering in Yarrowia lipolytica. Methods<br>in Molecular Biology, 2019, 1927, 155-177.   | 0.4 | 15        |
| 49 | Methyl lucidenate F isolated from the ethanol-soluble-acidic components of Ganoderma lucidum is a novel tyrosinase inhibitor. Biotechnology and Bioprocess Engineering, 2011, 16, 457-461.            | 1.4 | 14        |
| 50 | Conferring thermotolerant phenotype to wildâ€ŧype <i>Yarrowia lipolytica</i> improves cell growth<br>and erythritol production. Biotechnology and Bioengineering, 2021, 118, 3117-3127.               | 1.7 | 14        |
| 51 | Assembly of Multi-gene Pathways and Combinatorial Pathway Libraries Through ePathBrick Vectors.<br>Methods in Molecular Biology, 2013, 1073, 107-129.   | 0.4 | 14        |
| 52 | Rapid evolution of regulatory element libraries for tunable transcriptional and translational control of gene expression. Synthetic and Systems Biotechnology, 2017, 2, 295-301.                      | 1.8 | 11        |
| 53 | Towards next-generation model microorganism chassis for biomanufacturing. Applied Microbiology and Biotechnology, 2020, 104, 9095-9108.   | 1.7 | 9         |
| 54 | Modeling transcriptional factor cross-talk to understand parabolic kinetics, bimodal gene expression<br>and retroactivity in biosensor design. Biochemical Engineering Journal, 2019, 144, 209-216.   | 1.8 | 8         |

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|----|--|-----|-----------|
| 55 | Cysteine-Mediated Cyclic Metabolism Drives the Microbial Degradation of Keratin. ACS Sustainable<br>Chemistry and Engineering, 2021, 9, 9861-9870.   | 3.2 | 8         |
| 56 | Branch point control at malonyl-CoA node: A computational framework to uncover the design<br>principles of an ideal genetic-metabolic switch. Metabolic Engineering Communications, 2020, 10,<br>e00127.                 | 1.9 | 8         |
| 57 | Synthetic yeast brews neuroactive compounds. Nature Chemical Biology, 2021, 17, 8-9.   | 3.9 | 7         |
| 58 | Characterization of Met25 as a color associated genetic marker in Yarrowia lipolytica. Metabolic<br>Engineering Communications, 2020, 11, e00147.  | 1.9 | 6         |
| 59 | Unstructured kinetic models to simulate an arabinose switch that decouples cell growth from metabolite production. Synthetic and Systems Biotechnology, 2020, 5, 222-229.  | 1.8 | 4         |
| 60 | Implementing CRISPR-Cas12a for Efficient Genome Editing in Yarrowia lipolytica. Methods in Molecular<br>Biology, 2021, 2307, 111-121.  | 0.4 | 4         |
| 61 | Quantitative and analytical tools to analyze the spatiotemporal population dynamics of microbial consortia. Current Opinion in Biotechnology, 2022, 76, 102754.  | 3.3 | 4         |
| 62 | Engineering Yarrowia lipolytica for Production of Fatty Alcohols with YaliBrick Vectors. Methods in<br>Molecular Biology, 2021, 2307, 159-173.   | 0.4 | 2         |
| 63 | Identification of Biological Wort Turbidity Caused by Microbial Contamination of Gairdner Barley.<br>Journal of the American Society of Brewing Chemists, 2009, 67, 33-37.   | 0.8 | 1         |
| 64 | An integrated computational and experimental study to increase the intra-cellular malonyl-CoA: Application to flavanone synthesis. , 2011, , .   |     | 1         |
| 65 | Editorial overview: Tissue, cell and pathway engineering: programming biology for smart<br>therapeutics, microbial cell factory and intelligent biomanufacturing. Current Opinion in<br>Biotechnology, 2020, 66, iii-vi. | 3.3 | 0         |