

Metabolic engineering for the production of dicarboxylates

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Robust Characterization of Two Distinct Glutarate Sensing Transcription Factors of <i>Pseudomonas putida</i> -Lysine Metabolism. <i>ACS Synthetic Biology</i> , 2019, 8, 2385-2396.	1.9	17
2	Advances in microbial production of medium-chain dicarboxylic acids for nylon materials. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 221-238.	1.9	26
3	One-Pot Biocatalytic Transformation of Adipic Acid to 6-Aminocaproic Acid and 1,6-Hexamethylenediamine Using Carboxylic Acid Reductases and Transaminases. <i>Journal of the American Chemical Society</i> , 2020, 142, 1038-1048.	6.6	66
4	Design and engineering of whole-cell biocatalytic cascades for the valorization of fatty acids. <i>Catalysis Science and Technology</i> , 2020, 10, 46-64.	2.1	38
5	Properties of Novel Polyesters Made from Renewable 1,4-Pentanediol. <i>ChemSusChem</i> , 2020, 13, 556-563.	3.6	33
6	One-pot biocatalytic route from cycloalkanes to ϵ -dicarboxylic acids by designed <i>Escherichia coli</i> consortia. <i>Nature Communications</i> , 2020, 11, 5035.	5.8	60
7	Current advance in biological production of short-chain organic acid. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 9109-9124.	1.7	27
8	Advances in bio-nylon 5X: discovery of new lysine decarboxylases for the high-level production of cadaverine. <i>Green Chemistry</i> , 2020, 22, 8656-8668.	4.6	29
9	Bacterial synthesis of C3-C5 diols via extending amino acid catabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19159-19167.	3.3	42
10	Diamine Biosynthesis: Research Progress and Application Prospects. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	14
11	The 3-ketoacyl-CoA thiolase: an engineered enzyme for carbon chain elongation of chemical compounds. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 8117-8129.	1.7	16
12	Step-Growth Polyesters with Biobased (<i>R</i>)-1,3-Butanediol. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15598-15613.	1.8	13
13	Recent Advances in Systems Metabolic Engineering Strategies for the Production of Biopolymers. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 848-861.	1.4	21
14	Isocyanate-Free Fully Biobased Star Polyester-Urethanes: Synthesis and Thermal Properties. <i>Biomacromolecules</i> , 2020, 21, 1943-1951.	2.6	39
15	Microbial Engineering for Production of <i>N</i> -Functionalized Amino Acids and Amines. <i>Biotechnology Journal</i> , 2020, 15, e1900451.	1.8	32
16	Short-Term Adaptation Modulates Anaerobic Metabolic Flux to Succinate by Activating ExuT, a Novel D-Glucose Transporter in <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 27.	1.5	5
17	Highly efficient whole-cell biosynthesis of putrescine by recombinant <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2021, 166, 107859.	1.8	8
18	An Integrated Cofactor/Co-Product Recycling Cascade for the Biosynthesis of Nylon Monomers from Cycloalkylamines. <i>Angewandte Chemie</i> , 2021, 133, 3523-3528.	1.6	6

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19	An Integrated Cofactor/Co-product Recycling Cascade for the Biosynthesis of Nylon Monomers from Cycloalkylamines. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3481-3486.	7.2	19
20	Microbial engineering for the production of C ₂ -C ₆ organic acids. <i>Natural Product Reports</i> , 2021, 38, 1518-1546.	5.2	17
21	Green chemical and biological synthesis of cadaverine: recent development and challenges. <i>RSC Advances</i> , 2021, 11, 23922-23942.	1.7	14
22	Coenzyme Q10 Biosynthesis Established in the Non-Ubiquinone Containing <i>Corynebacterium glutamicum</i> by Metabolic Engineering. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 650961.	2.0	12
23	A two-enzyme cascade system for the bio-production of spermidine from putrescine. <i>Molecular Catalysis</i> , 2021, 504, 111439.	1.0	2
24	Genomic and Transcriptomic Investigation of the Physiological Response of the Methylophilic <i>Bacillus methanolicus</i> to 5-Aminovalerate. <i>Frontiers in Microbiology</i> , 2021, 12, 664598.	1.5	3
25	Preparation and Characterization of Biobased Lignin-Co-Polyester/Amide Thermoplastics. <i>Molecules</i> , 2021, 26, 2437.	1.7	8
26	Adaptive laboratory evolution accelerated glutarate production by <i>Corynebacterium glutamicum</i> . <i>Microbial Cell Factories</i> , 2021, 20, 97.	1.9	19
27	Synthesis of succinic acid-based polyamide through direct solid-state polymerization method: Avoiding cyclization of succinic acid. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51017.	1.3	11
28	Engineering microorganisms for the biosynthesis of dicarboxylic acids. <i>Biotechnology Advances</i> , 2021, 48, 107710.	6.0	14
29	Recent progress in metabolic engineering of <i>Corynebacterium glutamicum</i> for the production of C ₄ , C ₅ , and C ₆ chemicals. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1291-1307.	1.2	6
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32	Coupling the fermentation and membrane separation process for polyamides monomer cadaverine production from feedstock lysine. <i>Engineering in Life Sciences</i> , 2021, 21, 623-629.	2.0	3
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	Utilization of a Wheat Sidestream for 5-Aminovalerate Production in <i>Corynebacterium glutamicum</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 732271.	2.0	12
36	Engineering adipic acid metabolism in <i>Pseudomonas putida</i> . <i>Metabolic Engineering</i> , 2021, 67, 29-40.	3.6	27
37	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
38	Fermentative High-Level Production of 5-Hydroxyvaleric Acid by Metabolically Engineered <i>Corynebacterium glutamicum</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2523-2533.	3.2	21

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40	Flux Enforcement for Fermentative Production of 5-Aminovalerate and Glutarate by <i>Corynebacterium glutamicum</i> . <i>Catalysts</i> , 2020, 10, 1065.	1.6	18
41	Development of a Transcription Factor-Based Diamine Biosensor in <i>Corynebacterium glutamicum</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 3074-3083.	1.9	14
42	Sustainable separation of bio-based cadaverine based on carbon dioxide capture by forming carbamate. <i>RSC Advances</i> , 2020, 10, 44728-44735.	1.7	2
43	Improving the Stability and Activity of Arginine Decarboxylase at Alkaline pH for the Production of Agmatine. <i>Frontiers in Catalysis</i> , 2021, 1, .	1.8	2
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45	Bio-inspired AIE pillar[5]arene probe with multiple binding sites to discriminate alkanediamines. <i>Chemical Communications</i> , 2021, 57, 13114-13117.	2.2	12
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47	Multi-enzymatic cascade reactions with <i>Escherichia coli</i> -based modules for synthesizing various bioplastic monomers from fatty acid methyl esters. <i>Green Chemistry</i> , 2022, 24, 2222-2231.	4.6	17
48	Polyurea Thickened Lubricating Grease—The Effect of Degree of Polymerization on Rheological and Tribological Properties. <i>Polymers</i> , 2022, 14, 795.	2.0	7
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58	Advances in microbial synthesis of bioplastic monomers. <i>Advances in Applied Microbiology</i> , 2022, , .	1.3	0

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60	Environmentally Friendly Synthesis of Urea-Free Poly(carbonate-urethane) Elastomers. <i>Macromolecules</i> , 2022, 55, 4995-5008.	2.2	8
61	Combinatorial CRISPR Interference Library for Enhancing 2,3-BDO Production and Elucidating Key Genes in Cyanobacteria. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 10, .	2.0	5
62	Production of Putrescine in Metabolic Engineering <i>Corynebacterium crenatum</i> by Mixed Sugar Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 14407-14416.	3.2	4
63	Microbial Production of Amines and Amino Acids by Fermentation. <i>Microbiology Monographs</i> , 2022, , 47-80.	0.3	0
64	Prospects for carbon-negative biomanufacturing. <i>Trends in Biotechnology</i> , 2022, 40, 1415-1424.	4.9	16
66	A multienzyme biocatalytic cascade as a route towards the synthesis of 1,2-diamines from corresponding cycloalkanols. <i>Green Chemistry</i> , 2023, 25, 543-549.	4.6	4
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70	Engineering polyester monomer diversity through novel pathway design. <i>Current Opinion in Biotechnology</i> , 2023, 79, 102852.	3.3	3
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75	Potential factors causing failure of whole plant nettle (<i>Urtica cannabina</i>) silages. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	0
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79	Development of a Transcriptional Factor P _{uuR} -Based Putrescine-Specific Biosensor in <i>Corynebacterium glutamicum</i> . <i>Bioengineering</i> , 2023, 10, 157.	1.6	0
80	Rational genome and metabolic engineering of <i>Candida viswanathii</i> by split CRISPR to produce hundred grams of dodecanedioic acid. <i>Metabolic Engineering</i> , 2023, 77, 76-88.	3.6	2
81	Efforts to install a heterologous Wood-Ljungdahl pathway in <i>Clostridium acetobutylicum</i> enable the identification of the native tetrahydrofolate (THF) cycle and result in early induction of solvents. <i>Metabolic Engineering</i> , 2023, 77, 188-198.	3.6	4
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83	Synthesis of Bio-Based Polyester from Microbial Lipidic Residue Intended for Biomedical Application. <i>International Journal of Molecular Sciences</i> , 2023, 24, 4419.	1.8	3
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