

Jie Ren

List of Publications by Year in descending order

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14
papers

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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Understanding and Engineering Glycine Cleavage System and Related Metabolic Pathways for C1-Based Biosynthesis. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2022, , 273-298. | 1.1 | 4 |
| 2 | An Aldolase-Based New Pathway for Bioconversion of Formaldehyde and Ethanol into 1,3-Propanediol in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 799-809. | 3.8 | 18 |
| 3 | Improving the Yield of Xenocoumacin 1 by PBAD Promoter Replacement in <i>Xenorhabdus nematophila</i> CB6. <i>Agriculture (Switzerland)</i> , 2021, 11, 1251. | 3.1 | 6 |
| 4 | Quantitative analysis of glycine related metabolic pathways for one-carbon synthetic biology. <i>Current Opinion in Biotechnology</i> , 2020, 64, 70-78. | 6.6 | 25 |
| 5 | A Type I-F Anti-CRISPR Protein Inhibits the CRISPR-Cas Surveillance Complex by ADP-Ribosylation. <i>Molecular Cell</i> , 2020, 80, 512-524.e5. | 9.7 | 33 |
| 6 | Activation and competition of lipoylation of H protein and its hydrolysis in a reaction cascade catalyzed by the multifunctional enzyme lipoate-protein ligase A. <i>Biotechnology and Bioengineering</i> , 2020, 117, 3677-3687. | 3.3 | 8 |
| 7 | Improving the Yield of Xenocoumacin 1 Enabled by In Situ Product Removal. <i>ACS Omega</i> , 2020, 5, 20391-20398. | 3.5 | 8 |
| 8 | Structure-based dynamic analysis of the glycine cleavage system suggests key residues for control of a key reaction step. <i>Communications Biology</i> , 2020, 3, 756. | 4.4 | 13 |
| 9 | Formaldehyde formation in the glycine cleavage system and its use for an aldolase-based biosynthesis of 1,3-propanediol. <i>Journal of Biological Engineering</i> , 2020, 14, 15. | 4.7 | 12 |
| 10 | Structural insights into the mechanism and inhibition of transglutaminase-induced ubiquitination by the <i>Legionella</i> effector MavC. <i>Nature Communications</i> , 2020, 11, 1774. | 12.8 | 15 |
| 11 | An Aldolase-Catalyzed New Metabolic Pathway for the Assimilation of Formaldehyde and Methanol To Synthesize 2-Keto-4-hydroxybutyrate and 1,3-Propanediol in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2019, 8, 2483-2493. | 3.8 | 27 |
| 12 | Characterization and Engineering of a <i>Clostridium</i> Glycine Riboswitch and Its Use To Control a Novel Metabolic Pathway for 5-Aminolevulinic Acid Production in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2019, 8, 2327-2335. | 3.8 | 25 |
| 13 | Quantitative study of H protein lipoylation of the glycine cleavage system and a strategy to increase its activity by co-expression of LplA. <i>Journal of Biological Engineering</i> , 2019, 13, 32. | 4.7 | 17 |
| 14 | An Unnatural Pathway for Efficient 5-Aminolevulinic Acid Biosynthesis with Glycine from Glyoxylate Based on Retrobiosynthetic Design. <i>ACS Synthetic Biology</i> , 2018, 7, 2750-2757. | 3.8 | 22 |