

Guo-Chang Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

5,760
citations

361413

20
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

14514
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Glycolate production by a <i>Chlamydomonas reinhardtii</i> mutant lacking carbon-concentrating mechanism. <i>Journal of Biotechnology</i> , 2021, 335, 39-46. | 3.8 | 7 |
| 2 | Xylose assimilation enhances the production of isobutanol in engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2020, 117, 372-381. | 3.3 | 43 |
| 3 | Review on D-Allulose: In vivo Metabolism, Catalytic Mechanism, Engineering Strain Construction, Bio-Production Technology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 26. | 4.1 | 40 |
| 4 | Deletion of <i>JEN1</i> and <i>ADY2</i> reduces lactic acid yield from an engineered <i>Saccharomyces cerevisiae</i> , in xylose medium, expressing a heterologous lactate dehydrogenase. <i>FEMS Yeast Research</i> , 2019, 19, . | 2.3 | 15 |
| 5 | Overcoming the thermodynamic equilibrium of an isomerization reaction through oxidoreductive reactions for biotransformation. <i>Nature Communications</i> , 2019, 10, 1356. | 12.8 | 31 |
| 6 | Bioprocessing and techno-economic feasibility analysis of simultaneous production of d-psicose and ethanol using engineered yeast strain KAM-2GD. <i>Bioresource Technology</i> , 2019, 275, 27-34. | 9.6 | 14 |
| 7 | Glucose repression can be alleviated by reducing glucose phosphorylation rate in <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , 2018, 8, 2613. | 3.3 | 62 |
| 8 | A Mutation in <i>PGM2</i> Causing Inefficient Galactose Metabolism in the Probiotic Yeast <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, . | 3.1 | 21 |
| 9 | Enhanced xylose fermentation by engineered yeast expressing NADH oxidase through high cell density inoculums. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 387-395. | 3.0 | 13 |
| 10 | Metabolic engineering of a haploid strain derived from a triploid industrial yeast for producing cellulosic ethanol. <i>Metabolic Engineering</i> , 2017, 40, 176-185. | 7.0 | 27 |
| 11 | Enhanced isoprenoid production from xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 2581-2591. | 3.3 | 68 |
| 12 | Short communication: Conversion of lactose and whey into lactic acid by engineered yeast. <i>Journal of Dairy Science</i> , 2017, 100, 124-128. | 3.4 | 28 |
| 13 | Recycling Carbon Dioxide during Xylose Fermentation by Engineered <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2017, 6, 276-283. | 3.8 | 60 |
| 14 | Optimization of an acetate reduction pathway for producing cellulosic ethanol by engineered yeast. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2587-2596. | 3.3 | 47 |
| 15 | Lactic acid production from cellobiose and xylose by engineered <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2016, 113, 1075-1083. | 3.3 | 31 |
| 16 | Engineering and Evolution of <i>Saccharomyces cerevisiae</i> to Produce Biofuels and Chemicals. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016, 162, 175-215. | 1.1 | 13 |
| 17 | Lactose fermentation by engineered <i>Saccharomyces cerevisiae</i> capable of fermenting cellobiose. <i>Journal of Biotechnology</i> , 2016, 234, 99-104. | 3.8 | 20 |
| 18 | GroE chaperonins assisted functional expression of bacterial enzymes in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2016, 113, 2149-2155. | 3.3 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222. | 9.1 | 4,701 |
| 20 | Metabolic Engineering of Probiotic <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 2280-2287. | 3.1 | 68 |
| 21 | Expression of <i>Lactococcus lactis</i> NADH oxidase increases 2,3-butanediol production in Pdc-deficient <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2015, 191, 512-519. | 9.6 | 52 |
| 22 | Deletion of <i>PHO13</i> , Encoding Haloacid Dehalogenase Type IIA Phosphatase, Results in Upregulation of the Pentose Phosphate Pathway in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 1601-1609. | 3.1 | 60 |
| 23 | Rapid and marker-free refactoring of xylose-fermenting yeast strains with Cas9/CRISPR. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2406-2411. | 3.3 | 63 |
| 24 | Combining C6 and C5 sugar metabolism for enhancing microbial bioconversion. <i>Current Opinion in Chemical Biology</i> , 2015, 29, 49-57. | 6.1 | 77 |
| 25 | Construction of a Quadruple Auxotrophic Mutant of an Industrial Polyploid <i>Saccharomyces cerevisiae</i> Strain by Using RNA-Guided Cas9 Nuclease. <i>Applied and Environmental Microbiology</i> , 2014, 80, 7694-7701. | 3.1 | 131 |
| 26 | Decreased Xylitol Formation during Xylose Fermentation in <i>Saccharomyces cerevisiae</i> Due to Overexpression of Water-Forming NADH Oxidase. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1081-1086. | 3.1 | 44 |