

Shih-I Tan

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

606
citations

759233
12
h-index

642732
23
g-index

23
all docs

23
docs citations

23
times ranked

526
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Recent Developments on Genetic Engineering of Microalgae for Biofuels and Bio-Based Chemicals. <i>Biotechnology Journal</i> , 2017, 12, 1600644. | 3.5 | 162 |
| 2 | Challenges and opportunity of recent genome editing and multi-omics in cyanobacteria and microalgae for biorefinery. <i>Bioresource Technology</i> , 2019, 291, 121932. | 9.6 | 74 |
| 3 | A Critical Review of Genome Editing and Synthetic Biology Applications in Metabolic Engineering of Microalgae and Cyanobacteria. <i>Biotechnology Journal</i> , 2020, 15, e1900228. | 3.5 | 62 |
| 4 | New Insight into Plasmid-Driven T7 RNA Polymerase in <i>Escherichia coli</i> and Use as a Genetic Amplifier for a Biosensor. <i>ACS Synthetic Biology</i> , 2020, 9, 613-622. | 3.8 | 44 |
| 5 | Development of <i>Escherichia coli</i> Nissle 1917 derivative by CRISPR/Cas9 and application for gamma-aminobutyric acid (GABA) production in antibiotic-free system. <i>Biochemical Engineering Journal</i> , 2021, 168, 107952. | 3.6 | 34 |
| 6 | Efficient carbon dioxide sequestration by using recombinant carbonic anhydrase. <i>Process Biochemistry</i> , 2018, 73, 38-46. | 3.7 | 31 |
| 7 | Genetic design of co-expressed <i>Mesorhizobium loti</i> carbonic anhydrase and chaperone GroELS to enhancing carbon dioxide sequestration. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 326-334. | 7.5 | 31 |
| 8 | Development of chromosome-based T7 RNA polymerase and orthogonal T7 promoter circuit in <i>Escherichia coli</i> W3110 as a cell factory. <i>Bioresources and Bioprocessing</i> , 2020, 7, . | 4.2 | 20 |
| 9 | Stepwise optimization of genetic RuBisCO-equipped <i>Escherichia coli</i> for low carbon-footprint protein and chemical production. <i>Green Chemistry</i> , 2021, 23, 4800-4813. | 9.0 | 19 |
| 10 | Design and optimization of bioreactor to boost carbon dioxide assimilation in RuBisCo-equipped <i>Escherichia coli</i> . <i>Bioresource Technology</i> , 2020, 314, 123785. | 9.6 | 18 |
| 11 | ARduino-pH Tracker and screening platform for characterization of recombinant carbonic anhydrase in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2019, 35, e2834. | 2.6 | 17 |
| 12 | Pyridoxal kinase PdxY mediated carbon dioxide assimilation to enhance the biomass in <i>Chlamydomonas reinhardtii</i> CC-400. <i>Bioresource Technology</i> , 2021, 322, 124530. | 9.6 | 15 |
| 13 | Quantification, regulation and production of 5-aminolevulinic acid by green fluorescent protein in recombinant <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2020, 129, 387-394. | 2.2 | 14 |
| 14 | New insight into the codon usage and medium optimization toward stable and high-level 5-aminolevulinic acid production in <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2022, 177, 108259. | 3.6 | 13 |
| 15 | High-level production and extraction of C-phycoerythrin from cyanobacteria <i>Synechococcus</i> sp. PCC7002 for antioxidation, antibacterial and lead adsorption. <i>Environmental Research</i> , 2022, 206, 112283. | 7.5 | 11 |
| 16 | Tailoring Genetic Elements of the Plasmid-Driven T7 System for Stable and Robust One-Step Cloning and Protein Expression in Broad <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2021, 10, 2753-2762. | 3.8 | 9 |
| 17 | Enhanced recombinant <i>Sulfurihydrogenibium yellowstonense</i> carbonic anhydrase activity and thermostability by chaperone GroELS for carbon dioxide biomineralization. <i>Chemosphere</i> , 2021, 271, 128461. | 8.2 | 8 |
| 18 | CRISPRi-Mediated NIMPLY Logic Gate for Fine-Tuning the Whole-Cell Sensing toward Simple Urine Glucose Detection. <i>ACS Synthetic Biology</i> , 2021, 10, 412-421. | 3.8 | 8 |

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|----|---|-----|-----------|
| 19 | Tailoring key enzymes for renewable and high-level itaconic acid production using genetic Escherichia coli via whole-cell bioconversion. Enzyme and Microbial Technology, 2022, 160, 110087. | 3.2 | 6 |
| 20 | CRISPRi-mediated programming essential gene can as a Direct Enzymatic Performance Evaluation & Determination (DEPEND) system. Biotechnology and Bioengineering, 2020, 117, 2842-2851. | 3.3 | 5 |
| 21 | Development and fabrication of disease resistance protein in recombinant Escherichia coli. Bioresources and Bioprocessing, 2020, 7, . | 4.2 | 3 |
| 22 | Identification of Gold Sensing Peptide by Integrative Proteomics and a Bacterial Two-Component System. Frontiers in Chemistry, 2017, 5, 127. | 3.6 | 1 |
| 23 | Precise measurement of decarboxylase and applied cascade enzyme for simultaneous cadaverine production with carbon dioxide recovery. Journal of the Taiwan Institute of Chemical Engineers, 2021, , 104188. | 5.3 | 1 |