

Tong Si

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,721
citations

279778

23
h-index

265191

42
g-index

46
all docs

46
docs citations

46
times ranked

3292
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Panoramic insights into semi-artificial photosynthesis: origin, development, and future perspective. <i>Energy and Environmental Science</i> , 2022, 15, 529-549. | 30.8 | 30 |
| 2 | Photobiocatalytic Solar Fuel and Solar Chemical Conversion: Sufficient Activity and Better Selectivity. <i>ACS ES&T Engineering</i> , 2022, 2, 989-1000. | 7.6 | 12 |
| 3 | Biosynthesis of Gutâ€Microbiotaâ€Derived Lantibiotics Reveals a Subgroup of S8 Family Proteases for Class III Leader Removal. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 10 |
| 4 | Biosynthesis of Gutâ€Microbiotaâ€Derived Lantibiotics Reveals a Subgroup of S8 Family Proteases for Class III Leader Removal. <i>Angewandte Chemie</i> , 2022, 134, . | 2.0 | 1 |
| 5 | Towards one sample per second for mass spectrometric screening of engineered microbial strains. <i>Current Opinion in Biotechnology</i> , 2022, 76, 102725. | 6.6 | 6 |
| 6 | Directed evolution of a cyclodipeptide synthase with new activities <i>via</i> label-free mass spectrometric screening. <i>Chemical Science</i> , 2022, 13, 7581-7586. | 7.4 | 10 |
| 7 | Profiling of <sc>d</sc> â€alanine production by the microbial isolates of rat gut microbiota. <i>FASEB Journal</i> , 2022, 36, . | 0.5 | 5 |
| 8 | Insight into the tannic acid-based modular-assembly strategy based on inorganicâ€biological hybrid systems: a material suitability, loading effect, and biocompatibility study. <i>Materials Chemistry Frontiers</i> , 2021, 5, 3867-3876. | 5.9 | 4 |
| 9 | Accelerating strain engineering in biofuel research via build and test automation of synthetic biology. <i>Current Opinion in Biotechnology</i> , 2021, 67, 88-98. | 6.6 | 35 |
| 10 | Genomic and Metabolomic Investigation of a Rhizosphere Isolate <i>Streptomyces netropsis</i> WLXQSS-4 Associated with a Traditional Chinese Medicine. <i>Molecules</i> , 2021, 26, 2147. | 3.8 | 0 |
| 11 | Genome-Scale Screening and Combinatorial Optimization of Gene Overexpression Targets to Improve Cadmium Tolerance in <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 662512. | 3.5 | 2 |
| 12 | Automation in synthetic biology using biological foundries. <i>Chinese Science Bulletin</i> , 2021, 66, 300-309. | 0.7 | 4 |
| 13 | Wholeâ€Genome Regulation for Yeast Metabolic Engineering. <i>Small Methods</i> , 2020, 4, 1900640. | 8.6 | 12 |
| 14 | Engineered Live Biotherapeutics: Progress and Challenges. <i>Biotechnology Journal</i> , 2020, 15, e2000155. | 3.5 | 13 |
| 15 | Advances in RNAi-Assisted Strain Engineering in <i>Saccharomyces cerevisiae</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 731. | 4.1 | 8 |
| 16 | Optically guided mass spectrometry to screen microbial colonies for directed enzyme evolution. <i>Methods in Enzymology</i> , 2020, 644, 255-273. | 1.0 | 2 |
| 17 | Recent advances in high-throughput mass spectrometry that accelerates enzyme engineering for biofuel research. <i>BMC Energy</i> , 2020, 2, . | 6.3 | 11 |
| 18 | A mass spectrometryâ€based highâ€throughput screening method for engineering fatty acid synthases with improved production of mediumâ€chain fatty acids. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2131-2138. | 3.3 | 22 |

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|----|--|------|-----------|
| 19 | Rapid Screening of Lanthipeptide Analogs via In-Colony Removal of Leader Peptides in <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2018, 140, 11884-11888. | 13.7 | 25 |
| 20 | Fully Automated One-Step Synthesis of Single-Transcript TALEN Pairs Using a Biological Foundry. <i>ACS Synthetic Biology</i> , 2017, 6, 678-685. | 3.8 | 46 |
| 21 | Strain Development by Whole-Cell Directed Evolution. , 2017, , 173-200. | | 2 |
| 22 | Automated multiplex genome-scale engineering in yeast. <i>Nature Communications</i> , 2017, 8, 15187. | 12.8 | 162 |
| 23 | Engineering biological systems using automated biofoundries. <i>Metabolic Engineering</i> , 2017, 42, 98-108. | 7.0 | 140 |
| 24 | Profiling of Microbial Colonies for High-Throughput Engineering of Multistep Enzymatic Reactions via Optically Guided Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2017, 139, 12466-12473. | 13.7 | 57 |
| 25 | Characterization of <i>Bacillus subtilis</i> Colony Biofilms via Mass Spectrometry and Fluorescence Imaging. <i>Journal of Proteome Research</i> , 2016, 15, 1955-1962. | 3.7 | 36 |
| 26 | RNAi-Assisted Genome Evolution (RAGE) in <i>Saccharomyces cerevisiae</i> . <i>Methods in Molecular Biology</i> , 2016, 1470, 183-198. | 0.9 | 2 |
| 27 | A one-step matrix application method for MALDI mass spectrometry imaging of bacterial colony biofilms. <i>Journal of Mass Spectrometry</i> , 2016, 51, 1030-1035. | 1.6 | 38 |
| 28 | A brief overview of synthetic biology research programs and roadmap studies in the United States. <i>Synthetic and Systems Biotechnology</i> , 2016, 1, 258-264. | 3.7 | 38 |
| 29 | Metabolic engineering of a synergistic pathway for n-butanol production in <i>Saccharomyces cerevisiae</i> . <i>Scientific Reports</i> , 2016, 6, 25675. | 3.3 | 50 |
| 30 | Mutational Evidence for the Critical Role of CBF Transcription Factors in Cold Acclimation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2016, 171, 2744-2759. | 4.8 | 453 |
| 31 | Development of a Synthetic Malonyl-CoA Sensor in <i>Saccharomyces cerevisiae</i> for Intracellular Metabolite Monitoring and Genetic Screening. <i>ACS Synthetic Biology</i> , 2015, 4, 1308-1315. | 3.8 | 136 |
| 32 | Regulatory RNA-assisted genome engineering in microorganisms. <i>Current Opinion in Biotechnology</i> , 2015, 36, 85-90. | 6.6 | 19 |
| 33 | Rapid prototyping of microbial cell factories via genome-scale engineering. <i>Biotechnology Advances</i> , 2015, 33, 1420-1432. | 11.7 | 39 |
| 34 | RNAi-Assisted Genome Evolution in <i>Saccharomyces cerevisiae</i> for Complex Phenotype Engineering. <i>ACS Synthetic Biology</i> , 2015, 4, 283-291. | 3.8 | 71 |
| 35 | Homology-Integrated CRISPR-Cas (HI-CRISPR) System for One-Step Multigene Disruption in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2015, 4, 585-594. | 3.8 | 308 |
| 36 | Engineered Pentafunctional Minicellulosome for Simultaneous Saccharification and Ethanol Fermentation in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 6677-6684. | 3.1 | 54 |

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|----|---|------|-----------|
| 37 | Utilizing an endogenous pathway for 1-butanol production in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2014, 22, 60-68. | 7.0 | 76 |
| 38 | Design and construction of acetyl-CoA overproducing <i>Saccharomyces cerevisiae</i> strains. <i>Metabolic Engineering</i> , 2014, 24, 139-149. | 7.0 | 199 |
| 39 | Directed evolution: an evolving and enabling synthetic biology tool. <i>Current Opinion in Chemical Biology</i> , 2012, 16, 285-291. | 6.1 | 94 |
| 40 | Customized optimization of metabolic pathways by combinatorial transcriptional engineering. <i>Nucleic Acids Research</i> , 2012, 40, e142-e142. | 14.5 | 207 |
| 41 | Towards achieving a flattop crystal size distribution by continuous seeding and controlled growth. <i>Chemical Engineering Science</i> , 2012, 77, 2-9. | 3.8 | 41 |
| 42 | Direct Conversion of Xylan to Ethanol by Recombinant <i>Saccharomyces cerevisiae</i> Strains Displaying an Engineered Minihemicellulosome. <i>Applied and Environmental Microbiology</i> , 2012, 78, 3837-3845. | 3.1 | 80 |
| 43 | Biocatalyst development by directed evolution. <i>Bioresource Technology</i> , 2012, 115, 117-125. | 9.6 | 121 |
| 44 | O-GlcNAcylation modulates the self-aggregation ability of the fourth microtubule-binding repeat of tau. <i>Biochemical and Biophysical Research Communications</i> , 2008, 375, 59-62. | 2.1 | 38 |