

Xue Cai

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

312
citations

1040056

9
h-index

888059

17
g-index

23
all docs

23
docs citations

23
times ranked

299
citing authors

#	ARTICLE	IF	CITATIONS
1	Biotechnical production of trehalose through the trehalose synthase pathway: current status and future prospects. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 2965-2976.	3.6	55
2	Promoter engineering strategies for the overproduction of valuable metabolites in microbes. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 8725-8736.	3.6	53
3	Nitrilase: a promising biocatalyst in industrial applications for green chemistry. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 72-93.	9.0	37
4	Construction of a highly active secretory expression system in <i>Bacillus subtilis</i> of a recombinant amidase by promoter and signal peptide engineering. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 833-841.	7.5	29
5	Identification and characterization of an amidase from <i>Leclercia adecarboxylata</i> for efficient biosynthesis of L-phosphinothricin. <i>Bioresource Technology</i> , 2019, 289, 121658.	9.6	28
6	Rerouting Fluxes of the Central Carbon Metabolism and Relieving Mechanism-Based Inactivation of <i>Aspartate-Î±-decarboxylase</i> for Fermentative Production of Î²-Alanine in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2022, 11, 1908-1918.	3.8	18
7	Enhanced amphotericin B production by genetically engineered <i>Streptomyces nodosus</i> . <i>Microbiological Research</i> , 2021, 242, 126623.	5.3	16
8	Upscale production of (R)-mandelic acid with a stereospecific nitrilase in an aqueous system. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1299-1307.	3.4	10
9	Targeting metabolic driving and minimization of by-products synthesis for high-yield production of Dâ€pantothenate in <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , 2022, 17, e2100431.	3.5	10
10	Structural insights into the thermostability mechanism of a nitrile hydratase from <i>Caldalkalibacillus thermarum</i> by comparative molecular dynamics simulation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 978-987.	2.6	9
11	Thermostability and Specific-Activity Enhancement of an Arginine Deiminase from <i>Enterococcus faecalis</i> SK23.001 via Semirational Design for <i>Aspartate-Î±-decarboxylase</i> -Citrulline Production. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 8841-8850.	5.2	8
12	Expression and characterization of a CALB-type lipase from <i>Sporisorium reilianum</i> SRZ2 and its potential in short-chain flavor ester synthesis. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 868-879.	4.4	6
13	Improvement of cordycepin production by an isolated <i>Paecilomyces hepiali</i> mutant from combinatorial mutation breeding and medium screening. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 2387-2398.	3.4	6
14	Combination of sequence-based and in silico screening to identify novel trehalose synthases. <i>Enzyme and Microbial Technology</i> , 2018, 115, 62-72.	3.2	5
15	Characterization of a Recombinant Trehalose Synthase from <i>Arthrobacter chlorophenolicus</i> and its Unique Kinetics Indicating a Substrate Cooperativity. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 1255-1271.	2.9	5
16	Immobilization of Sucrose Isomerase from <i>Erwinia</i> sp. with Graphene Oxide and Its Application in Synthesizing Isomaltulose. <i>Applied Biochemistry and Biotechnology</i> , 2021, , 1.	2.9	4
17	Combining fermentation to produce O-succinyl-L-homoserine and enzyme catalysis for the synthesis of L-methionine in one pot. <i>Journal of Bioscience and Bioengineering</i> , 2021, 132, 451-459.	2.2	3
18	Efficient enzymatic synthesis of L-ascorbyl palmitate using <i>Candida antarctica</i> lipase Bâ€embedded metalâ€organic framework. <i>Biotechnology Progress</i> , 2022, 38, e3218.	2.6	3

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19	Comparative metabolomics analysis of amphotericin B high-yield mechanism for metabolic engineering. Microbial Cell Factories, 2021, 20, 66.	4.0	2
20	Improvement of catalytic performance of endoglucanase CgEndo from Colletotrichum graminicola by site-directed mutagenesis. Enzyme and Microbial Technology, 2022, 154, 109963.	3.2	2
21	Secretory expression and characterization of a novel amidase from Kluyvera cryocrescens in Bacillus subtilis. Biotechnology Letters, 2020, 42, 2367-2377.	2.2	1
22	Proposed mechanism for post-translational self-modification of Coenzyme Hase based on Co ²⁺ diffusion limitation. Biotechnology Journal, 2021, 16, 2100103.	3.5	1
23	High-throughput Screening of Signal Peptide Library with Novel Fluorescent Probe. ChemBioChem, 2022, , .	2.6	1