Xue Cai

List of Publications by Year
in descending order

23 papers	312 citations	1040018 9 h-index	888047 17 g-index
23 all docs	23 docs citations	23 times ranked	299 citing authors

#	Article	IF	Citations
1	Efficient enzymatic synthesis of Lâ€ascorbyl palmitate using Candida antarctica lipase Bâ€embedded metalâ€organic framework. Biotechnology Progress, 2022, 38, e3218.	2.6	3
2	Targeting metabolic driving and minimization of byâ€products synthesis for highâ€yield production of Dâ€pantothenate in Escherichia coli. Biotechnology Journal, 2022, 17, e2100431.	3.5	10
3	Improvement of catalytic performance of endoglucanase CgEndo from Colletotrichum graminicola by site-directed mutagenesis. Enzyme and Microbial Technology, 2022, 154, 109963.	3.2	2
4	Highâ€Throughput Screening of Signal Peptide Library with Novel Fluorescent Probe. ChemBioChem, 2022, , .	2.6	1
5	Rerouting Fluxes of the Central Carbon Metabolism and Relieving Mechanism-Based Inactivation of <scp>l</scp>-Aspartate-Î±-decarboxylase for Fermentative Production of Î²-Alanine in Escherichia coli. ACS Synthetic Biology, 2022, 11, 1908-1918.	3.8	18
6	Enhanced amphotericin B production by genetically engineered Streptomyces nodosus. Microbiological Research, 2021, 242, 126623.	5.3	16
7	Nitrilase: a promising biocatalyst in industrial applications for green chemistry. Critical Reviews in Biotechnology, 2021, 41, 72-93.	9.0	37
8	Structural insights into the thermostability mechanism of a nitrile hydratase from Caldalkalibacillus thermarum by comparative molecular dynamics simulation. Proteins: Structure, Function and Bioinformatics, 2021, 89, 978-987.	2.6	9
9	Comparative metabolomics analysis of amphotericin B high-yield mechanism for metabolic engineering. Microbial Cell Factories, 2021, 20, 66.	4.0	2
10	Improvement of cordycepin production by an isolated Paecilomyces hepiali mutant from combinatorial mutation breeding and medium screening. Bioprocess and Biosystems Engineering, 2021, 44, 2387-2398.	3.4	6
11	Combining fermentation to produce O-succinyl-l-homoserine and enzyme catalysis for the synthesis of l-methionine in one pot. Journal of Bioscience and Bioengineering, 2021, 132, 451-459.	2.2	3
12	Proposed mechanism for postâ€translational selfâ€modification of Coâ€NHase based on Co 2+ diffusion limitation. Biotechnology Journal, 2021, 16, 2100103.	3.5	1
13	Immobilization of Sucrose Isomerase from Erwinia sp. with Graphene Oxide and Its Application in Synthesizing Isomaltulose. Applied Biochemistry and Biotechnology, 2021, , 1.	2.9	4
14	Construction of a highly active secretory expression system in Bacillus subtilis of a recombinant amidase by promoter and signal peptide engineering. International Journal of Biological Macromolecules, 2020, 143, 833-841.	7.5	29
15	Secretory expression and characterization of a novel amidase from Kluyvera cryocrescens in Bacillus subtilis. Biotechnology Letters, 2020, 42, 2367-2377.	2.2	1
16	Expression and characterization of a CALB-type lipase from Sporisorium reilianum SRZ2 and its potential in short-chain flavor ester synthesis. Frontiers of Chemical Science and Engineering, 2020, 14, 868-879.	4.4	6
17	Upscale production of (R)-mandelic acid with a stereospecific nitrilase in an aqueous system. Bioprocess and Biosystems Engineering, 2020, 43, 1299-1307.	3.4	10
18	Promoter engineering strategies for the overproduction of valuable metabolites in microbes. Applied Microbiology and Biotechnology, 2019, 103, 8725-8736.	3.6	53

#	Article	IF	Citations
19	Identification and characterization of an amidase from Leclercia adecarboxylata for efficient biosynthesis of L-phosphinothricin. Bioresource Technology, 2019, 289, 121658.	9.6	28
20	Characterization of a Recombinant Trehalose Synthase from Arthrobacter chlorophenolicus and its Unique Kinetics Indicating a Substrate Cooperativity. Applied Biochemistry and Biotechnology, 2019, 187, 1255-1271.	2.9	5
21	Biotechnical production of trehalose through the trehalose synthase pathway: current status and future prospects. Applied Microbiology and Biotechnology, 2018, 102, 2965-2976.	3.6	55
22	Combination of sequence-based and in silico screening to identify novel trehalose synthases. Enzyme and Microbial Technology, 2018, 115, 62-72.	3.2	5
23	Thermostability and Specific-Activity Enhancement of an Arginine Deiminase from Enterococcus faecalis SK23.001 via Semirational Design for <scp>l</scp>-Citrulline Production. Journal of Agricultural and Food Chemistry, 2018, 66, 8841-8850.	5.2	8