

Longhai Dai

List of Publications by Year in descending order

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29
papers

941
citations

567281

15
h-index

477307

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all docs

29
docs citations

29
times ranked

862
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzymatic degradation of plant biomass and synthetic polymers. <i>Nature Reviews Chemistry</i> , 2020, 4, 114-126.	30.2	213
2	General features to enhance enzymatic activity of poly(ethylene terephthalate) hydrolysis. <i>Nature Catalysis</i> , 2021, 4, 425-430.	34.4	92
3	Functional Characterization of Cucurbitadienol Synthase and Triterpene Glycosyltransferase Involved in Biosynthesis of Mogrosides from <i>Siraitia grosvenorii</i> . <i>Plant and Cell Physiology</i> , 2015, 56, 1172-1182.	3.1	76
4	Exploiting the aglycon promiscuity of glycosyltransferase Bs-YjiC from <i>Bacillus subtilis</i> and its application in synthesis of glycosides. <i>Journal of Biotechnology</i> , 2017, 248, 69-76.	3.8	64
5	One-Pot Synthesis of Ginsenoside Rh2 and Bioactive Unnatural Ginsenoside by Coupling Promiscuous Glycosyltransferase from <i>Bacillus subtilis</i> 168 to Sucrose Synthase. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 2830-2837.	5.2	63
6	Substrate-Binding Mode of a Thermophilic PET Hydrolase and Engineering the Enzyme to Enhance the Hydrolytic Efficacy. <i>ACS Catalysis</i> , 2022, 12, 3033-3040.	11.2	50
7	Oxidation of Cucurbitadienol Catalyzed by CYP87D18 in the Biosynthesis of Mogrosides from <i>Siraitia grosvenorii</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 1000-1007.	3.1	42
8	Use of a Promiscuous Glycosyltransferase from <i>Bacillus subtilis</i> 168 for the Enzymatic Synthesis of Novel Protopanaxatriol-Type Ginsenosides. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 943-949.	5.2	40
9	Enhancing PET hydrolytic enzyme activity by fusion of the cellulose-binding domain of cellobiohydrolase I from <i>Trichoderma reesei</i> . <i>Journal of Biotechnology</i> , 2021, 334, 47-50.	3.8	40
10	Construction of <i>Escherichia coli</i> cell factories for crocin biosynthesis. <i>Microbial Cell Factories</i> , 2019, 18, 120.	4.0	39
11	Pharmacological activities of mogrosides. <i>Future Medicinal Chemistry</i> , 2018, 10, 845-850.	2.3	34
12	Enzymatic Synthesis of Novel Glycyrrhizic Acid Glucosides Using a Promiscuous <i>Bacillus</i> Glycosyltransferase. <i>Catalysts</i> , 2018, 8, 615.	3.5	31
13	Biocatalytic synthesis of ginsenoside Rh2 using <i>Arabidopsis thaliana</i> glycosyltransferase-catalyzed coupled reactions. <i>Journal of Biotechnology</i> , 2020, 309, 107-112.	3.8	24
14	Antiproliferative Activity of Triterpene Glycoside Nutrient from Monk Fruit in Colorectal Cancer and Throat Cancer. <i>Nutrients</i> , 2016, 8, 360.	4.1	20
15	Structural dissection of unnatural ginsenoside-biosynthetic UDP-glycosyltransferase Bs-YjiC from <i>Bacillus subtilis</i> for substrate promiscuity. <i>Biochemical and Biophysical Research Communications</i> , 2021, 534, 73-78.	2.1	16
16	Biosynthesis of dendroketo from different carbon sources using in vitro and in vivo metabolic engineering strategies. <i>Biotechnology for Biofuels</i> , 2018, 11, 290.	6.2	15
17	Catalytically inactive lytic polysaccharide monooxygenase PcAA14A enhances the enzyme-mediated hydrolysis of polyethylene terephthalate. <i>International Journal of Biological Macromolecules</i> , 2021, 190, 456-462.	7.5	13
18	Crystal structure and biochemical analysis of the specialized deoxynivalenol-detoxifying glyoxalase SPG from <i>Gossypium hirsutum</i> . <i>International Journal of Biological Macromolecules</i> , 2022, 200, 388-396.	7.5	9

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19	Flavonoid C-Glycosyltransferases: Function, Evolutionary Relationship, Catalytic Mechanism and Protein Engineering. <i>ChemBioEng Reviews</i> , 2021, 8, 15-26.	4.4	8
20	Structural and Functional Insights into a Nonheme Iron- and α -Ketoglutarate-Dependent Halogenase That Catalyzes Chlorination of Nucleotide Substrates. <i>Applied and Environmental Microbiology</i> , 2022, 88, e0249721.	3.1	8
21	Functional and structural investigations of fibronectin-binding protein Apa from <i>Mycobacterium tuberculosis</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019, 1863, 1351-1359.	2.4	7
22	Structural insights into thebaine synthase 2 catalysis. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 156-161.	2.1	7
23	Efficiency Analysis and Mechanism Insight of that Whole-Cell Biocatalytic Production of Melibiose from <i>Raffinose</i> with <i>Saccharomyces cerevisiae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 407-423.	2.9	6
24	Biocatalytic Synthesis of Calycosin-7-O- β -D-Glucoside with Uridine Diphosphate-Glucose Regeneration System. <i>Catalysts</i> , 2020, 10, 258.	3.5	6
25	Biocatalytic Synthesis of a Novel Bioactive Ginsenoside Using UDP-Glycosyltransferase from <i>Bacillus subtilis</i> 168. <i>Catalysts</i> , 2020, 10, 289.	3.5	6
26	Structural investigation of a thermostable 1,2- β -mannobiose phosphorylase from <i>Thermoanaerobacter</i> sp. X-514. <i>Biochemical and Biophysical Research Communications</i> , 2021, 579, 54-61.	2.1	6
27	Structural analysis and engineering of aldo-keto reductase from glyphosate-resistant <i>Echinochloa colona</i> . <i>Journal of Hazardous Materials</i> , 2022, 436, 129191.	12.4	3
28	Structural insights into the calcium dependence of Stig cyclases. <i>RSC Advances</i> , 2019, 9, 13182-13185.	3.6	2
29	Crystal structure of TchmY from <i>Actinoplanes teichomyceticus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 570-575.	0.8	1