

# Hui-Min Qin

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

692  
citations

516561

16  
h-index

610775

24  
g-index

45  
all docs

45  
docs citations

45  
times ranked

533  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for controlling the enzymatic properties of polymannuronate preferred alginate lyase FlAlyA from the PL-7 family. <i>Chemical Communications</i> , 2018, 54, 555-558.	2.2	49
2	Redesign of a novel d-allulose 3-epimerase from <i>Staphylococcus aureus</i> for thermostability and efficient biocatalytic production of d-allulose. <i>Microbial Cell Factories</i> , 2019, 18, 59.	1.9	40
3	Reshaping the Binding Pocket of Lysine Hydroxylase for Enhanced Activity. <i>ACS Catalysis</i> , 2020, 10, 13946-13956.	5.5	39
4	Biochemical characterization of a novel ulvan lyase from <i>Pseudoalteromonas</i> sp. strain PLSV. <i>RSC Advances</i> , 2018, 8, 2610-2615.	1.7	38
5	Engineering a thermostable version of D-allulose 3-epimerase from <i>Rhodospirillum rubrum</i> via site-directed mutagenesis based on B-factors analysis. <i>Enzyme and Microbial Technology</i> , 2020, 132, 109441.	1.6	33
6	Biochemical characterization and biocatalytic application of a novel d-tagatose 3-epimerase from <i>Sinorhizobium</i> sp.. <i>RSC Advances</i> , 2019, 9, 2919-2927.	1.7	32
7	Two-step biosynthesis of d-allulose via a multienzyme cascade for the bioconversion of fruit juices. <i>Food Chemistry</i> , 2021, 357, 129746.	4.2	27
8	Efficient Biosynthesis of 2- $\alpha$ -Fucosyllactose Using an In Vitro Multienzyme Cascade. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 10763-10771.	2.4	25
9	Structure and Polymannuronate Specificity of a Eukaryotic Member of Polysaccharide Lyase Family 14. <i>Journal of Biological Chemistry</i> , 2017, 292, 2182-2190.	1.6	24
10	Laminarinase from <i>Flavobacterium</i> sp. reveals the structural basis of thermostability and substrate specificity. <i>Scientific Reports</i> , 2017, 7, 11425.	1.6	22
11	Synergistic effects of components in deep eutectic solvents relieve toxicity and improve the performance of steroid biotransformation catalyzed by <i>Arthrobacter simplex</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2729-2736.	1.6	22
12	Structure of conjugated polyketone reductase from <i>Candida parapsilosis</i> IFO 0708 reveals conformational changes for substrate recognition upon NADPH binding. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 243-249.	1.7	21
13	Biochemical characterization and structural analysis of ulvan lyase from marine <i>Alteromonas</i> sp. reveals the basis for its salt tolerance. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 1309-1317.	3.6	21
14	Crystal Structure of a Novel N-Substituted L-Amino Acid Dioxygenase from <i>Burkholderia ambifaria</i> AMMD. <i>PLoS ONE</i> , 2013, 8, e63996.	1.1	19
15	Structure of L-allo-Threonine aldolase with an H128Y/S292R mutation from <i>Aeromonas jandaei</i> DK-39 reveals the structural basis of changes in substrate stereoselectivity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1695-1703.	2.5	19
16	Biochemical analysis and the preliminary crystallographic characterization of d-tagatose 3-epimerase from <i>Rhodobacter sphaeroides</i> . <i>Microbial Cell Factories</i> , 2017, 16, 193.	1.9	17
17	Refolding of a novel cholesterol oxidase from <i>Pimelobacter simplex</i> reveals dehydrogenation activity. <i>Protein Expression and Purification</i> , 2017, 139, 1-7.	0.6	16
18	Rational design of cholesterol oxidase for efficient bioresolution of cholestane skeleton substrates. <i>Scientific Reports</i> , 2017, 7, 16375.	1.6	16

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19	Redesign and engineering of a dioxygenase targeting biocatalytic synthesis of 5-hydroxyl leucine. <i>Catalysis Science and Technology</i> , 2019, 9, 1825-1834.	2.1	16
20	Structural optimization of SadA, an Fe(II)- and $\alpha$ -ketoglutarate-dependent dioxygenase targeting biocatalytic synthesis of N-succinyl-L-threo-3,4-dimethoxyphenylserine. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1458-1461.	1.0	15
21	Continuous Spectrophotometric Assay for High-Throughput Screening of Predominant $\alpha$ -Allulose 3-Epimerases. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 11637-11645.	2.4	15
22	Improving the enzyme property of D-allulose 3-epimerase from a thermophilic organism of <i>Halanaerobium congolense</i> through rational design. <i>Enzyme and Microbial Technology</i> , 2021, 149, 109850.	1.6	15
23	Efficient production of sugar-derived aldonic acids by <i>Pseudomonas fragi</i> TCCC11892. <i>RSC Advances</i> , 2018, 8, 39897-39901.	1.7	14
24	Cloning, expression and characterization of a novel fructosyltransferase from <i>Aspergillus niger</i> and its application in the synthesis of fructooligosaccharides. <i>RSC Advances</i> , 2019, 9, 23856-23863.	1.7	12
25	Development of Engineered Ferredoxin Reductase Systems for the Efficient Hydroxylation of Steroidal Substrates. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16720-16730.	3.2	12
26	Design of an efficient whole-cell biocatalyst for the production of hydroxyarginine based on a multi-enzyme cascade. <i>Bioresource Technology</i> , 2020, 318, 124261.	4.8	12
27	A novel L-leucine 5-hydroxylase from <i>Nostoc piscinale</i> unravels unexpected sulfoxidation activity toward L-methionine. <i>Protein Expression and Purification</i> , 2018, 149, 1-6.	0.6	11
28	Efficient Biosynthesis of High-Value Succinic Acid and 5-Hydroxyleucine Using a Multienzyme Cascade and Whole-Cell Catalysis. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 12502-12510.	2.4	11
29	Biochemical and structural characterization of a novel thermophilic and acidophilic $\beta$ -mannanase from <i>Aspergillus calidoustus</i> . <i>Enzyme and Microbial Technology</i> , 2021, 150, 109891.	1.6	11
30	15 $\alpha$ -hydroxylation of D-ethylgonendione by <i>Penicillium raistrickii</i> in deep eutectic solvents DESs containing system. <i>Biochemical Engineering Journal</i> , 2020, 164, 107781.	1.8	10
31	Crystal structure of conjugated polyketone reductase (CPR-C1) from <i>Candida parapsilosis</i> IFO 0708 complexed with NADPH. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 2059-2063.	1.5	8
32	Structural Basis of Salicylic Acid Decarboxylase Reveals a Unique Substrate Recognition Mode and Access Channel. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 11616-11625.	2.4	7
33	A New Nanocatalytic Spectrophotometric Assay for Cationic Surfactant Using Phosphomolybdic Acid-Formic Acid-Nanogold as Indicator Reaction. <i>Chinese Journal of Chemistry</i> , 2012, 30, 59-64.	2.6	6
34	Multienzymatic cascade synthesis of fucosyloligosaccharide via a two-step fermentation strategy in <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2016, 38, 1747-1752.	1.1	6
35	Soluble expression, purification and biochemical characterization of a C-7 cholesterol dehydrogenase from <i>Drosophila melanogaster</i> . <i>Steroids</i> , 2019, 152, 108495.	0.8	6
36	Enhancing the sustainability of KsdD as a biocatalyst for steroid transformation by immobilization on epoxy support. <i>Enzyme and Microbial Technology</i> , 2021, 146, 109777.	1.6	6

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37	Rational design to change product specificities and thermostability of cyclodextrin glycosyltransferase from <i>Paenibacillus</i> sp.. <i>RSC Advances</i> , 2017, 7, 13726-13732.	1.7	5
38	The anti-fatigue activity of corn peptides and their effect on gut bacteria. <i>Journal of the Science of Food and Agriculture</i> , 2022, 102, 3456-3466.	1.7	5
39	Expression, Purification, Refolding, and Characterization of a Neverland Protein From <i>Caenorhabditis elegans</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 593041.	2.0	3
40	Customized exogenous ferredoxin functions as an efficient electron carrier. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	2.0	3
41	Expression, purification, crystallization and preliminary X-ray analysis of a novel N-substituted branched-chain L-amino-acid dioxygenase from <i>Burkholderia ambifaria</i> AMMD. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 1067-1069.	0.7	2