

# Hui-Min Qin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39  
papers

421  
citations

13  
h-index

17  
g-index

45  
ext. papers

548  
ext. citations

4.8  
avg, IF

3.72  
L-index

#	Paper	IF	Citations
39	Enhancing the sustainability of KsdD as a biocatalyst for steroid transformation by immobilization on epoxy support. <i>Enzyme and Microbial Technology</i> , <b>2021</b> , 146, 109777	3.8	3
38	Structural Basis of Salicylic Acid Decarboxylase Reveals a Unique Substrate Recognition Mode and Access Channel. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 11616-11625	5.7	0
37	Two-step biosynthesis of d-allulose via a multienzyme cascade for the bioconversion of fruit juices. <i>Food Chemistry</i> , <b>2021</b> , 357, 129746	8.5	8
36	Continuous Spectrophotometric Assay for High-Throughput Screening of Predominant d-Allulose 3-Epimerases. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 11637-11645	5.7	6
35	Improving the enzyme property of D-allulose 3-epimerase from a thermophilic organism of Halanaerobium congolense through rational design. <i>Enzyme and Microbial Technology</i> , <b>2021</b> , 149, 109850	3.8	6
34	Biochemical and structural characterization of a novel thermophilic and acidophilic Mannanase from Aspergillus calidoustus. <i>Enzyme and Microbial Technology</i> , <b>2021</b> , 150, 109891	3.8	2
33	Design of an efficient whole-cell biocatalyst for the production of hydroxyarginine based on a multi-enzyme cascade. <i>Bioresource Technology</i> , <b>2020</b> , 318, 124261	11	7
32	Biochemical characterization and structural analysis of ulvan lyase from marine Alteromonas sp. reveals the basis for its salt tolerance. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 147, 1309-1317	7.9	10
31	Reshaping the Binding Pocket of Lysine Hydroxylase for Enhanced Activity. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13946-13956	13.5	16
30	15-Hydroxylation of D-ethylgonendione by Penicillium raistrickii in deep eutectic solvents DESs containing system. <i>Biochemical Engineering Journal</i> , <b>2020</b> , 164, 107781	4.2	3
29	Expression, Purification, Refolding, and Characterization of a Protein From. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 593041	5.8	
28	Development of Engineered Ferredoxin Reductase Systems for the Efficient Hydroxylation of Steroidal Substrates. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16720-16730	8.3	5
27	Efficient Biosynthesis of 2X-Fucosyllactose Using an In Vitro Multienzyme Cascade. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 10763-10771	5.7	10
26	Engineering a thermostable version of D-allulose 3-epimerase from Rhodospirillum rubrum via site-directed mutagenesis based on B-factors analysis. <i>Enzyme and Microbial Technology</i> , <b>2020</b> , 132, 109441	2.8	20
25	Soluble expression, purification and biochemical characterization of a C-7 cholesterol dehydrogenase from Drosophila melanogaster. <i>Steroids</i> , <b>2019</b> , 152, 108495	2.8	4
24	Biochemical characterization and biocatalytic application of a novel d-tagatose 3-epimerase from sp.. <i>RSC Advances</i> , <b>2019</b> , 9, 2919-2927	3.7	24
23	Redesign and engineering of a dioxygenase targeting biocatalytic synthesis of 5-hydroxyl leucine. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 1825-1834	5.5	13

22	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> , <b>2019</b> , 18, 59	6.4	28
21	Cloning, expression and characterization of a novel fructosyltransferase from and its application in the synthesis of fructooligosaccharides.. <i>RSC Advances</i> , <b>2019</b> , 9, 23856-23863	3.7	5
20	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> , <b>2019</b> , 67, 12502-12510	5.7	8
19	A novel l-leucine 5-hydroxylase from <i>Nostoc piscinale</i> unravels unexpected sulfoxidation activity toward l-methionine. <i>Protein Expression and Purification</i> , <b>2018</b> , 149, 1-6	2	9
18	Biochemical characterization of a novel ulvan lyase from sp. strain PLSV.. <i>RSC Advances</i> , <b>2018</b> , 8, 2610-2615	3.7	21
17	Structural basis for controlling the enzymatic properties of polymannuronate preferred alginate lyase FlAlyA from the PL-7 family. <i>Chemical Communications</i> , <b>2018</b> , 54, 555-558	5.8	37
16	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> , <b>2018</b> , 93, 2729-2736	3.5	17
15	Efficient production of sugar-derived aldonic acids by TCCC11892.. <i>RSC Advances</i> , <b>2018</b> , 8, 39897-39901	3.7	6
14	Rational design to change product specificities and thermostability of cyclodextrin glycosyltransferase from <i>Paenibacillus</i> sp.. <i>RSC Advances</i> , <b>2017</b> , 7, 13726-13732	3.7	3
13	Structure and Polymannuronate Specificity of a Eukaryotic Member of Polysaccharide Lyase Family 14. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 2182-2190	5.4	21
12	Biochemical analysis and the preliminary crystallographic characterization of D-tagatose 3-epimerase from <i>Rhodobacter sphaeroides</i> . <i>Microbial Cell Factories</i> , <b>2017</b> , 16, 193	6.4	13
11	Laminarinase from <i>Flavobacterium</i> sp. reveals the structural basis of thermostability and substrate specificity. <i>Scientific Reports</i> , <b>2017</b> , 7, 11425	4.9	15
10	Refolding of a novel cholesterol oxidase from <i>Pimelobacter simplex</i> reveals dehydrogenation activity. <i>Protein Expression and Purification</i> , <b>2017</b> , 139, 1-7	2	11
9	Rational design of cholesterol oxidase for efficient bioresolution of cholestane skeleton substrates. <i>Scientific Reports</i> , <b>2017</b> , 7, 16375	4.9	7
8	Multienzymatic cascade synthesis of fucosyloligosaccharide via a two-step fermentation strategy in <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , <b>2016</b> , 38, 1747-52	3	5
7	Structural optimization of SadA, an Fe(II)- and Eketoglutarate-dependent dioxygenase targeting biocatalytic synthesis of N-succinyl-L-threo-3,4-dimethoxyphenylserine. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 450, 1458-61	3.4	14
6	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> , <b>2014</b> , 70, 1695-703		14
5	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> , <b>2014</b> , 98, 243-9	5.7	15

4	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> , <b>2013</b> , 81, 2059-63	4-2	5
3	Crystal structure of a novel N-substituted L-amino acid dioxygenase from <i>Burkholderia ambifaria</i> AMMD. <i>PLoS ONE</i> , <b>2013</b> , 8, e63996	3-7	19
2	A New Nanocatalytic Spectrophotometric Assay for Cationic Surfactant Using Phosphomolybdic Acid-Formic Acid-Nanogold as Indicator Reaction. <i>Chinese Journal of Chemistry</i> , <b>2012</b> , 30, 59-64	4-9	6
1	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> , <b>2012</b> , 68, 1067-9		2