

# Jian-Dong Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

372  
citations

840776

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794594

19  
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24  
docs citations

24  
times ranked

418  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enantioselective Cascade Biocatalysis via Epoxide Hydrolysis and Alcohol Oxidation: One-Pot Synthesis of ( <i>R</i> )- $\beta$ -Hydroxy Ketones from <i>Meso</i> - or Racemic Epoxides. <i>ACS Catalysis</i> , 2015, 5, 51-58.	11.2	61
2	Asymmetric ring opening of racemic epoxides for enantioselective synthesis of ( <i>S</i> )- $\beta$ -amino alcohols by a cofactor self-sufficient cascade biocatalysis system. <i>Catalysis Science and Technology</i> , 2019, 9, 70-74.	4.1	39
3	Enantioselective synthesis of enantiopure $\beta$ -amino alcohols via kinetic resolution and asymmetric reductive amination by a robust transaminase from <i>Mycobacterium vanbaalenii</i> . <i>Journal of Biotechnology</i> , 2019, 290, 24-32.	3.8	33
4	Highly efficient bioreduction of 2-hydroxyacetophenone to ( <i>S</i> )- and ( <i>R</i> )-1-phenyl-1,2-ethanediol by two substrate tolerance carbonyl reductases with cofactor regeneration. <i>Journal of Biotechnology</i> , 2017, 243, 1-9.	3.8	31
5	Enantioselective Biooxidation of Racemic <i>trans</i> -Cyclic Vicinal Diols: One-Pot Synthesis of Both Enantiopure ( <i>S</i> ), ( <i>S</i> )-Cyclic Vicinal Diols and ( <i>R</i> )- $\beta$ -Hydroxy Ketones. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 3147-3153.	4.3	29
6	Characterization of Four New Distinct $\beta$ -Transaminases from <i>Pseudomonas putida</i> NBRC 14164 for Kinetic Resolution of Racemic Amines and Amino Alcohols. <i>Applied Biochemistry and Biotechnology</i> , 2017, 181, 972-985.	2.9	25
7	Cloning and characterization of two distinct water-forming NADH oxidases from <i>Lactobacillus pentosus</i> for the regeneration of NAD. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 603-611.	3.4	20
8	Cascade Biocatalysis for Regio- and Stereoselective Aminohydroxylation of Styrenyl Olefins to Enantiopure Arylglycinols. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18277-18285.	6.7	20
9	A high-throughput microtiter plate assay for the discovery of active and enantioselective amino alcohol-specific transaminases. <i>Analytical Biochemistry</i> , 2017, 518, 94-101.	2.4	15
10	Biotreatment of restaurant wastewater with an oily high concentration by newly isolated bacteria from oily sludge. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 179.	3.6	14
11	A facial strategy to efficiently improve catalytic performance of CoFe <sub>2</sub> O <sub>4</sub> to peroxymonosulfate. <i>Journal of Environmental Sciences</i> , 2022, 116, 1-13.	6.1	14
12	One pot simultaneous preparation of both enantiomer of $\beta$ -amino alcohol and vicinal diol via cascade biocatalysis. <i>Biotechnology Letters</i> , 2018, 40, 349-358.	2.2	11
13	Enantioselective Cascade Biocatalysis for Deracemization of Racemic $\beta$ -Amino Alcohols to Enantiopure ( <i>S</i> )- $\beta$ -Amino Alcohols by Employing Cyclohexylamine Oxidase and $\beta$ -Transaminase. <i>ChemBioChem</i> , 2021, 22, 124-128.	2.6	9
14	Conversion of glycerol to 1,3-dihydroxyacetone by glycerol dehydrogenase co-expressed with an NADH oxidase for cofactor regeneration. <i>Biotechnology Letters</i> , 2016, 38, 1559-1564.	2.2	8
15	One-Pot Three-Step Consecutive Transformation of $\beta$ -Amino Acids to ( <i>R</i> )- and ( <i>S</i> )-Vicinal 1,2-Diols via Combined Chemical and Biocatalytic Process. <i>ChemCatChem</i> , 2019, 11, 5032-5037.	3.7	8
16	Ionic Liquid Encapsulated in MIL-100(Fe): A Green Catalyst for Synthesis of Polyoxymethylene Dimethyl Ethers from Methanol and Trioxane. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 17094-17102.	3.7	8
17	Magnetic responsive <i>Thermomyces lanuginosus</i> lipase for biodiesel synthesis. <i>Materials Today Communications</i> , 2020, 24, 101197.	1.9	7
18	Cloning, Site-Directed Mutagenesis, and Functional Analysis of Active Residues in <i>Lymantria dispar</i> Chitinase. <i>Applied Biochemistry and Biotechnology</i> , 2018, 184, 12-24.	2.9	6

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19	Biodegradation of alicyclic amines by a newly isolated hypersaline tolerant strain <i>Paenarthrobacter</i> sp. TYUT067. <i>Water Science and Technology</i> , 2021, 83, 2160-2168.	2.5	5
20	One-pot synthesis of (R)- and (S)-phenylglycinol from bio-based l-phenylalanine by an artificial biocatalytic cascade. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	4.2	5
21	High throughput solid-phase screening of bacteria with cyclic amino alcohol deamination activity for enantioselective synthesis of chiral cyclic $\beta$ -amino alcohols. <i>Biotechnology Letters</i> , 2020, 42, 1501-1511.	2.2	3
22	Cloning and characterization of four enzymes responsible for cyclohexylamine degradation from <i>Paenarthrobacter</i> sp. TYUT067. <i>Protein Expression and Purification</i> , 2022, 198, 106136.	1.3	1
23	Characterization of four diol dehydrogenases for enantioselective synthesis of chiral vicinal diols. <i>Chinese Journal of Chemical Engineering</i> , 2022, 47, 145-154.	3.5	0