

Jian-Dong Zhang

List of Publications by Year in descending order

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papers

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24
all docs

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docs citations

24
times ranked

418
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of four diol dehydrogenases for enantioselective synthesis of chiral vicinal diols. Chinese Journal of Chemical Engineering, 2022, 47, 145-154.	3.5	0
2	A facial strategy to efficiently improve catalytic performance of CoFe ₂ O ₄ to peroxymonosulfate. Journal of Environmental Sciences, 2022, 116, 1-13.	6.1	14
3	Cloning and characterization of four enzymes responsible for cyclohexylamine degradation from Paenarthrobacter sp. TYUT067. Protein Expression and Purification, 2022, 198, 106136.	1.3	1
4	Enantioselective Cascade Biocatalysis for Deracemization of Racemic β -Amino Alcohols to Enantiopure (<i>S</i>)- β -Amino Alcohols by Employing Cyclohexylamine Oxidase and α -Transaminase. ChemBioChem, 2021, 22, 124-128.	2.6	9
5	Biodegradation of alicyclic amines by a newly isolated hypersaline tolerant strain <i>Paenarthrobacter</i> sp. TYUT067. Water Science and Technology, 2021, 83, 2160-2168.	2.5	5
6	One-pot synthesis of (R)- and (S)-phenylglycinol from bio-based l-phenylalanine by an artificial biocatalytic cascade. Bioresources and Bioprocessing, 2021, 8, .	4.2	5
7	Ionic Liquid Encapsulated in MIL-100(Fe): A Green Catalyst for Synthesis of Polyoxymethylene Dimethyl Ethers from Methanol and Trioxane. Industrial & Engineering Chemistry Research, 2020, 59, 17094-17102.	3.7	8
8	Cascade Biocatalysis for Regio- and Stereoselective Aminohydroxylation of Styrenyl Olefins to Enantiopure Arylglycinols. ACS Sustainable Chemistry and Engineering, 2020, 8, 18277-18285.	6.7	20
9	Magnetic responsive Thermomyces lanuginosus lipase for biodiesel synthesis. Materials Today Communications, 2020, 24, 101197.	1.9	7
10	High throughput solid-phase screening of bacteria with cyclic amino alcohol deamination activity for enantioselective synthesis of chiral cyclic β -amino alcohols. Biotechnology Letters, 2020, 42, 1501-1511.	2.2	3
11	One-Pot Three-Step Consecutive Transformation of α -Amino Acids to (<i>R</i>)- and (<i>S</i>)-Vicinal 1,2-Diols via Combined Chemical and Biocatalytic Process. ChemCatChem, 2019, 11, 5032-5037.	3.7	8
12	Biotreatment of restaurant wastewater with an oily high concentration by newly isolated bacteria from oily sludge. World Journal of Microbiology and Biotechnology, 2019, 35, 179.	3.6	14
13	Asymmetric ring opening of racemic epoxides for enantioselective synthesis of (<i>S</i>)- β -amino alcohols by a cofactor self-sufficient cascade biocatalysis system. Catalysis Science and Technology, 2019, 9, 70-74.	4.1	39
14	Enantioselective synthesis of enantiopure β -amino alcohols via kinetic resolution and asymmetric reductive amination by a robust transaminase from Mycobacterium vanbaalenii. Journal of Biotechnology, 2019, 290, 24-32.	3.8	33
15	Cloning, Site-Directed Mutagenesis, and Functional Analysis of Active Residues in Lymantria dispar Chitinase. Applied Biochemistry and Biotechnology, 2018, 184, 12-24.	2.9	6
16	One pot simultaneous preparation of both enantiomer of β -amino alcohol and vicinal diol via cascade biocatalysis. Biotechnology Letters, 2018, 40, 349-358.	2.2	11
17	A high-throughput microtiter plate assay for the discovery of active and enantioselective amino alcohol-specific transaminases. Analytical Biochemistry, 2017, 518, 94-101.	2.4	15
18	Highly efficient bioreduction of 2-hydroxyacetophenone to (S)- and (R)-1-phenyl-1,2-ethanediol by two substrate tolerance carbonyl reductases with cofactor regeneration. Journal of Biotechnology, 2017, 243, 1-9.	3.8	31

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19	Characterization of Four New Distinct α -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
20	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
21	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
22	Enantioselective Cascade Biocatalysis via Epoxide Hydrolysis and Alcohol Oxidation: One-Pot Synthesis of (<i>R</i>)- α -Hydroxy Ketones from <i>Meso</i> - or Racemic Epoxides. <i>ACS Catalysis</i> , 2015, 5, 51-58.	11.2	61
23	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>)- α -Hydroxy Ketones. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 3147-3153.	4.3	29