

Jiang Pan

List of Publications by Year in descending order

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34
papers

669
citations

567281

15
h-index

580821

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35
all docs

35
docs citations

35
times ranked

687
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochemical properties and potential applications of an organic solvent-tolerant lipase isolated from <i>Serratia marcescens</i> ECU1010. <i>Process Biochemistry</i> , 2008, 43, 626-633.	3.7	86
2	Significant enhancement of (R)-mandelic acid production by relieving substrate inhibition of recombinant nitrilase in toluene/water biphasic system. <i>Journal of Biotechnology</i> , 2011, 152, 24-29.	3.8	62
3	An Unusual α -Selective Epoxide Hydrolase with High Activity for Facile Preparation of Enantiopure Glycidyl Ethers. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 1510-1518.	4.3	46
4	Switching Cofactor Dependence of 7β -Hydroxysteroid Dehydrogenase for Cost-Effective Production of Ursodeoxycholic Acid. <i>ACS Catalysis</i> , 2019, 9, 466-473.	11.2	46
5	Bioproduction of chiral mandelate by enantioselective deacylation of \pm -acetoxyphenylacetic acid using whole cells of newly isolated <i>Pseudomonas</i> sp. ECU1011. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 83-91.	3.6	41
6	Rational Engineering of Formate Dehydrogenase Substrate/Cofactor Affinity for Better Performance in NADPH Regeneration. <i>Applied Biochemistry and Biotechnology</i> , 2020, 192, 530-543.	2.9	32
7	Bioreduction of methyl <i>o</i> -chlorobenzoylformate at 500g/L without external cofactors for efficient production of enantiopure clopidogrel intermediate. <i>Tetrahedron Letters</i> , 2012, 53, 4715-4717.	1.4	27
8	Efficient synthesis of a statin precursor in high space-time yield by a new aldehyde-tolerant aldolase identified from <i>Lactobacillus brevis</i> . <i>Catalysis Science and Technology</i> , 2015, 5, 4048-4054.	4.1	27
9	Enhancing transglutaminase production of <i>Streptomyces mobaraensis</i> by iterative mutagenesis breeding with atmospheric and room-temperature plasma (ARTP). <i>Bioresources and Bioprocessing</i> , 2017, 4, 37.	4.2	27
10	Evolution of Glucose Dehydrogenase for Cofactor Regeneration in Bioredox Processes with Denaturing Agents. <i>ChemBioChem</i> , 2020, 21, 2680-2688.	2.6	26
11	Efficient production of diltiazem chiral intermediate using immobilized lipase from <i>Serratia marcescens</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2010, 15, 199-207.	2.6	23
12	Optimization and Scale-up of a Bioreduction Process for Preparation of Ethyl (S)-4-Chloro-3-hydroxybutanoate. <i>Organic Process Research and Development</i> , 2014, 18, 739-743.	2.7	23
13	Significantly improved asymmetric oxidation of sulfide with resting cells of <i>Rhodococcus</i> sp. in a biphasic system. <i>Process Biochemistry</i> , 2011, 46, 689-694.	3.7	20
14	Efficient Synthesis of 12α -Oxochenodeoxycholic Acid Using a 12β -Hydroxysteroid Dehydrogenase from <i>Rhodococcus ruber</i> . <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 4661-4668.	4.3	20
15	Design of a self-sufficient hydride-shuttling cascade for concurrent bioproduction of 7,12-dioxolithocholate and <i>tert</i> -leucine. <i>Green Chemistry</i> , 2021, 23, 4125-4133.	9.0	16
16	Cloning and Characterization of a Novel Esterase from <i>Rhodococcus</i> sp. for Highly Enantioselective Synthesis of a Chiral Cilastatin Precursor. <i>Applied and Environmental Microbiology</i> , 2014, 80, 7348-7355.	3.1	15
17	Efficient Stereoselective Synthesis of Structurally Diverse β - and γ -Lactones Using an Engineered Carbonyl Reductase. <i>ChemCatChem</i> , 2019, 11, 2600-2606.	3.7	15
18	A green-by-design system for efficient bio-oxidation of an unnatural hexapyranose into chiral lactone for building statin side-chains. <i>Catalysis Science and Technology</i> , 2016, 6, 7094-7100.	4.1	12

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19	Improved production of <i>Pseudomonas</i> sp. ECU1011 acetyl esterase by medium design and fed-batch fermentation. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 323-331.	3.4	10
20	Efficient production of ethyl (R)-2-hydroxy-4-phenylbutyrate using a cost-effective reductase expressed in <i>Pichia pastoris</i> . <i>Biochemical Engineering Journal</i> , 2014, 91, 72-77.	3.6	10
21	Enzymatic synthesis of 10-oxostearic acid in high space-time yield via cascade reaction of a new oleate hydratase and an alcohol dehydrogenase. <i>Journal of Biotechnology</i> , 2019, 306, 100008.	3.8	10
22	Efficient Biocatalytic Synthesis of Chiral Chemicals. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014, 155, 55-106.	1.1	8
23	A green-by-design bioprocess for L-carnosine production integrating enzymatic synthesis with membrane separation. <i>Catalysis Science and Technology</i> , 2019, 9, 5971-5978.	4.1	8
24	Engineering of an oleate hydratase for efficient C10-Functionalization of oleic acid. <i>Biochemical and Biophysical Research Communications</i> , 2021, 537, 64-70.	2.1	8
25	Target-oriented discovery of a new esterase-producing strain <i>Enterobacter</i> sp. ECU1107 for whole cell-catalyzed production of (2S,3R)-3-phenylglycidate as a chiral synthon of Taxol. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 6293-6300.	3.6	7
26	Engineering <i>Bacillus subtilis</i> Isoleucine Dioxygenase for Efficient Synthesis of (2S,3R,4S)-4-Hydroxyisoleucine. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 14555-14563.	5.2	7
27	Protein Engineering and Homologous Expression of <i>Serratia marcescens</i> Lipase for Efficient Synthesis of a Pharmaceutically Relevant Chiral Epoxyester. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 543-554.	2.9	6
28	Protein engineering of aldolase LbDERA for enhanced activity toward real substrates with a high-throughput screening method coupled with an aldehyde dehydrogenase. <i>Biochemical and Biophysical Research Communications</i> , 2017, 482, 159-163.	2.1	6
29	Discovery and Engineering of a Novel Baeyer-Villiger Monooxygenase with High Normal Regioselectivity. <i>ChemBioChem</i> , 2021, 22, 1190-1195.	2.6	6
30	Carving the Active Site of CYP153A7 Monooxygenase for Improving Terminal Hydroxylation of Medium-Chain Fatty Acids. <i>ChemBioChem</i> , 2022, , .	2.6	6
31	Asymmetric reduction of 2-chloro-3-oxo-ester into enantiomerically high pure diltiazem precursor by a <i>Candida</i> ketoreductase. <i>Molecular Catalysis</i> , 2021, 510, 111670.	2.0	4
32	Co-Cross-Linked Aggregates of Baeyer-Villiger Monooxygenases and Formate Dehydrogenase for Repeated Use in Asymmetric Biooxidation. <i>Organic Process Research and Development</i> , 2022, 26, 1978-1983.	2.7	4
33	Discovery and Engineering of Bacterial α -Isopiperitenol Dehydrogenases to Enhance α -Menthol Precursor Biosynthesis. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 3973-3982.	4.3	3
34	Immobilization of trophic anaerobic acetogen for semi-continuous syngas fermentation. <i>Chinese Journal of Chemical Engineering</i> , 2021, 29, 311-316.	3.5	2