

Lei Huang

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

372
citations

687363

13
h-index

1125743

13
g-index

13
all docs

13
docs citations

13
times ranked

467
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of Structurally Diverse Chiral Alcohols by Engineering Ketoreductase <i>Cg</i> KR1. ACS Catalysis, 2017, 7, 7174-7181.	11.2	74
2	Impact of deep eutectic solvents (DESs) and individual DES components on alcohol dehydrogenase catalysis: connecting experimental data and molecular dynamics simulations. Green Chemistry, 2022, 24, 1120-1131.	9.0	37
3	Horse Liver Alcohol Dehydrogenase-Catalyzed Oxidative Lactamization of Amino Alcohols. ACS Catalysis, 2018, 8, 8680-8684.	11.2	35
4	Enzymatic Ring-Opening Polymerization of Lactones: Traditional Approaches and Alternative Strategies. ChemCatChem, 2019, 11, 4983-4997.	3.7	30
5	Highly Efficient Synthesis of (<i>R</i>)-3-Quinuclidinol in a Space-Time Yield of 916 g L ⁻¹ h ⁻¹ Using a New Bacterial Reductase <i>Ar</i> QR. Organic Letters, 2013, 15, 4917-4919.	4.6	29
6	Modeling Alcohol Dehydrogenase Catalysis in Deep Eutectic Solvent/Water Mixtures. ChemBioChem, 2020, 21, 811-817.	2.6	28
7	Altering the Substrate Specificity of Reductase <i>Cg</i> KR1 from <i>Candida glabrata</i> by Protein Engineering for Bioreduction of Aromatic β -Keto Esters. Advanced Synthesis and Catalysis, 2014, 356, 1943-1948.	4.3	27
8	Nicotinamide Adenine Dinucleotide-Dependent Redox-Neutral Convergent Cascade for Lactonizations with Type II Flavin-Containing Monooxygenase. Advanced Synthesis and Catalysis, 2017, 359, 2142-2148.	4.3	27
9	Significantly improved thermostability of a reductase <i>Cg</i> KR1 from <i>Candida glabrata</i> with a key mutation at Asp 138 for enhancing bioreduction of aromatic β -keto esters. Journal of Biotechnology, 2015, 203, 54-61.	3.8	20
10	Convergent Cascade Catalyzed by Monooxygenase-Alcohol Dehydrogenase Fusion Applied in Organic Media. ChemBioChem, 2019, 20, 1653-1658.	2.6	20
11	Comparison and Validation of Force Fields for Deep Eutectic Solvents in Combination with Water and Alcohol Dehydrogenase. Journal of Chemical Theory and Computation, 2021, 17, 5322-5341.	5.3	17
12	Biosynthesis of Ethyl (S)-4-Chloro-3-Hydroxybutanoate by NADH-Dependent Reductase from <i>E. coli</i> CCZU-Y10 Discovered by Genome Data Mining Using Mannitol as Cosubstrate. Applied Biochemistry and Biotechnology, 2014, 173, 2042-2053.	2.9	15
13	Deep Eutectic Solvents as Smart Cosubstrate in Alcohol Dehydrogenase-Catalyzed Reductions. Catalysts, 2020, 10, 1013.	3.5	13